

CHEMISTRY

FOR
NEW

FRONTIERS

2019
AMERICAN
CHEMICAL
SOCIETY
NATIONAL MEETING
& EXPOSITION

MARCH 31 – APRIL 4
ORLANDO, FL



ACS NATIONAL MEETING

General meeting information

In March, the American Chemical Society returns to Orlando, Florida, for the ACS Spring 2019 National Meeting and Exposition with the theme “Chemistry for New Frontiers.” Our primary venue, the award-winning Orange County Convention Center (OCCC), is new and improved, having undergone multiple renovations in recent years, and is the second-largest conven-

tion facility in the US. This March 31–April 4 meeting in Orlando will be a new experience for not only first-time attendees but also those who attended the previous national meeting in Orlando, in April 2002.

The national meeting is a primary platform for both front-runners in chemistry and those new in the field to have a dialogue and share viewpoints on the

ever-growing impact of chemistry on everyday life. Register now to add your name to the list of thousands of chemists from the US and across the globe who will convene in Orlando to deliberate, take part in thought-provoking symposia sessions and poster presentations, and interact with exhibitors of innovative technologies in chemistry. Visit www.acs.org/2019Orlando to complete your registration.

As you plan your schedule, be sure to build in time to visit the Expo Hall and Career Fair, which will offer something for everyone. Take part in exhibitor workshops, product demonstrations, and Q&A sessions with industry leaders.

While in the Expo Hall, don't forget to stop by the Recharge and Social Media Lounge. Recharge your electronics at the charging station and meet with colleagues in a relaxing environment while keeping

Technical programming by the numbers

- ▶ 29 technical divisions and 6 committees hosting original programming
- ▶ 12,830 accepted papers, including 8,183 oral discussions and 4,467 poster presentations
- ▶ 1,239 half-day sessions, comprising 1,074 oral sessions and 165 poster sessions, including Sci-Mix
- ▶ 140 concurrent technical sessions, the most in one day, on Monday afternoon

abreast of the latest tweets and social media updates.

A new feature at the Expo Hall is the Industry Networking Lounge. This exclusive lounge is the premier place to have in-depth conversations with company representatives from across a wide sector of the chemical industry.

The ACS Career Fair is designed to benefit chemistry professionals at every career and academic level. Visit the fair for tools to advance your current career, meet face to face with employers, interview on-site for posted positions, navigate and network with peers, explore alternative career opportunities, receive one-on-one résumé and LinkedIn consulting, and so much more.

The fair offers our talented attendees a unique opportunity to meet a diverse and inclusive selection of employers from around the globe, ranging from small businesses and academic institutions to chemical industries and nonprofit organizations. Expect career development for those who are content in their careers, as well as the promotion of international career opportunities in chemistry.

Through the ACS Career Navigator, attendees will have multiple opportunities to explore career options and grow their skills and knowledge in the chemical sciences. Complement the technical sessions and oral presentations by attending an ACS Leadership Development System course, enrolling in an ACS Career Pathways workshop, or participating in an ACS Professional Education Short Course.

Getting started

The Orange County Convention Center will be the primary venue for the Spring 2019 National Meeting and Exposition. Some sessions will be held in hotels within walking distance to the convention center, and all governance activities will take place in the Hilton Orlando.

Exhibitors

Over 250 companies will be showcasing their latest products and services to the chemical community at the Spring 2019 National Meeting and Exposition. Be sure to review the online floor plan and exhibitor list on the meeting website for the most up-to-date list of exhibitors, and start planning your visits. Create an online profile and select the exhibitors you want to meet.

Technical program and mobile app

The technical program for the meeting will be available on Feb. 11 in the online planner at www.acs.org/2019Orlando. Begin building your personal schedule and sync with additional events when the mobile app goes live on March 11. The ACS Meetings and Events mobile app contains the official program for the Spring 2019 National Meeting and Exposition. In continued sustainability efforts, ACS will no longer offer printed program books. The mobile app will contain the most up-to-date and complete program information as well as interactive maps, networking tools, and more.

If you are a company interested in joining this exciting event, visit www.acs.org/2019Orlando. You can also contact the ACS exposition staff by email at expo@acs.org or by telephone at 800-227-5558, ext. 4486.

International attendees

International attendees must have a valid visa to enter the US. Detailed information on the steps to obtain a visa is available at www.acs.org/2019Orlando.

If you have specific questions about your visa application, please email nationalmeetings@acs.org, or contact Brenda Philpot at 202-872-6111.

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

Students

This meeting is the ideal setting for undergraduate students to explore and learn about the myriad areas of chemistry.

- Network with chemists from across the globe.
- Gain experience presenting research.
- Hone communication skills.
- Learn about cutting-edge advances in chemistry.

Students who are not current ACS members are encouraged to join when registering for the meeting to take advantage of the lower registration rate.

Registration

All attendees, including speakers and poster presenters, must register for the national meeting to participate in sessions and events. Sponsored speakers should contact their symposium organizers or division program chairs to clarify the terms of their invitations and to determine who will complete the meeting registration. Failing to register for the meeting will result in withdrawal of your abstract from the official meeting program, technical programming archive, and CAS database.

Save money

Are you an ACS member? Become a member of ACS when you register and save up to \$400. You can also book your housing at the same time you register for the meeting.

If you need assistance related to your membership application or status, contact ACS Member Services at 800-333-9511 (US/Canada) or 614-447-3776 or email service@acs.org.

Registration options

Online: Register at www.acs.org/2019Orlando.

Phone: Call the ACS National Meeting Registration Center at 800-251-8629 (US/Canada) or 508-743-0192, Monday–Friday, 9:00 a.m.–5:00 p.m. ET. Credit card payments only.

Fax: Send the completed registration form with payment, available at www.acs.org/2019Orlando, to 508-743-9604.

Registration assistance

Representatives of the ACS National Meeting Registration Center are available

REGISTRATION CATEGORY	STANDARD/ON-SITE
FULL CONFERENCE: MEMBERS	
ACS member or society affiliate	\$590
Emeritus or retired	295
50-year member	0
Unemployed member	0
Precollege teacher	125
Graduate student	245
Undergraduate student	245
FULL CONFERENCE: NONMEMBERS	
Chemical scientist	\$1,030
Precollege teacher	125
Graduate student	490
Undergraduate student	245

CHEMISTRY FOR NEW FRONTIERS

AMERICAN CHEMICAL SOCIETY **2019** MARCH 31-APRIL 4
NATIONAL MEETING & EXPOSITION **ORLANDO, FL**

BOOK NOW

Housing block closes **March 5, 2019**

For best rates and availability, make your reservations while registering for the meeting at www.acs.org/2019Orlando

Phone (toll-free U.S.): **1-844-293-7040** | International: **+1 704-837-4855**
Monday - Friday: 8:30 AM - 9:00 PM EST

5 REASONS TO BOOK THROUGH ACS



FREE INTERNET

Complimentary internet access in the sleeping rooms.



DISCOUNTED RATES!

Lower rates exclusively for meeting participants.



EASY ACCESS

All meeting events will be held at the convention center and ACS designated hotels.



FREE SHUTTLE

Between the convention center and ACS hotels.



LOCATION

Close to the convention center and popular Orlando theme parks.

- Avanti Resort
- Castle Hotel, Autograph Collection
- Courtyard Orlando International Drive/Convention Center
- Crowne Plaza Orlando Universal
- DoubleTree by Hilton Orlando at SeaWorld
- Embassy Suites by Hilton Orlando International Drive Convention Center
- Fairfield Inn & Suites Orlando International Drive/Convention Center
- Hampton Inn Orlando International Drive/Convention Center
- Hilton Orlando (**Headquarters Hotel**)
- Homewood Suites by Hilton Orlando-International Drive/Convention Center
- Hyatt Regency Orlando
- Las Palmeras by Hilton Grand Vacations
- Residence Inn Orlando Convention Center
- Rosen Centre Hotel
- Rosen Plaza Hotel
- Springhill Suites Orlando International Drive/Convention Center
- Wyndham Orlando Resort International Drive/Convention Center

HOTELS



ConferenceDirect is the **ONLY** housing services provider for the ACS Spring 2019 National Meeting & Exposition. **Please look for this official housing seal when booking accommodations.**

Monday–Friday, 9:00 a.m.–5:00 p.m. ET to assist you with your registration. Please call 800-251-8629 (US/Canada) or 508-743-0192 (international).

Payments

Registration fees can be paid by check, money order, credit card (American Express, Discover, MasterCard, or Visa), or bank wire transfer. Make checks payable in US dollars to the American Chemical Society. For wire transfer payments, contact the ACS Finance Department at 202-872-6106, or email bankwires@acs.org.

Purchase orders and training requests are not acceptable forms of payment.

Reminders

- ▶ Do not forget to include a completed registration form with each payment.
- ▶ Do not combine your registration fee with any other payment (such as membership dues).
- ▶ Registration forms received without payment will not be processed.

Cancellations and refunds

ACS provides a refund, minus a \$50 administrative fee, for all cancellation requests received by Feb. 4, 2019. Registrants must return a copy of the registration confirmation along with the original registration credentials before the refund can be processed. ACS issues refunds in the same payment method used to register.

ACS will not honor any cancellation or refund requests received after Feb. 4, 2019.

Hotel and travel

The Orange County Convention Center, the second-largest convention center in the US, is approximately 12 mi (19.3 km) from the Orlando International Airport. It sits on the south end of Orlando's popular International Drive. The recently renovated OCCC is a plush facility with three full-service restaurants and eight food courts. The covered pedestrian bridge joins its two buildings, West and North/South.

Once in Orlando, choose from a robust selection of ground transportation services—taxis, rental vehicles, limousines, Orlando's Lynx public transportation system, and rideshare services such as Uber and Lyft. The I-Ride Trolley is another form of public transportation that is both fun and affordable. It stops on and around International Drive

and operates daily from 8:00 a.m. to 10:30 p.m. The maximum cost is \$2 per ride.

Hotel

ACS has negotiated special rates with a wide selection of hotels located close to the OCCC. Only 5 of the 17 official ACS hotels are more than 1 mi (1.6 km) from the OCCC, and none are more than 2 mi (3.2 km) away.

ConferenceDirect is the official housing bureau, and ACS does not endorse booking hotel reservations through any other source. All correspondence received from ConferenceDirect regarding housing for the ACS Spring 2019 National Meeting and Exposition will include the housing services provider's official logo seal. All attendees who book their sleeping room through ConferenceDirect will receive discounted rates and complimentary internet access in their sleeping rooms. Book online at www.acs.org/2019Orlando.

Direct all questions about room reservations and payments to ConferenceDirect at 844-293-7040 (US/Canada) or 704-837-4855, Monday–Friday, 9:00 a.m.–5:00 p.m. ET.

Travel

The companies listed below have entered into partnership with ACS for transportation services, with special travel discounts for meeting attendees. To get the best rates and to avoid service fees, we recommend making your travel reservations online.

Air

Delta
www.delta.com/flight-search/book-a-flight
800-328-1111
Discount code: NY2LW

United Airlines
www.united.com
800-426-1122
Discount code: ZFJX328612

SuperShuttle

www.supershuttle.com
Discount code: LUNZT

Car rental

Avis Worldwide Discount (AWD) Number: B923099
800-633-3469

Hertz

www.hertz.com
800-654-3131
Discount code: CV#02UZ0020

Program highlights

The meeting program offers many highlights and special events. Don't forget about these activities as you map out your personal schedule.

▶ Sunday, March 31

Opening Session

3:00–5:30 p.m., Sunday, March 31
Orange County Convention Center

Assembling Materials Charge-by-Charge for Targeted Tissue Delivery.

Paul Hammond, David H. Koch Chair Professor of Engineering, head, department of chemical engineering, Massachusetts Institute of Technology

Chemical Catalysts for Revolutionary Agricultural Research.

Chavonda Jacobs-Young, administrator, Agricultural Research Service, US Department of Agriculture

Removing Organic Pollutants from Water Using Polymers Derived from Corn.

William Dichtel, Robert L. Letsinger Professor of Chemistry, Northwestern University

Chemical Systems Out of Equilibrium: from Biology to Electronics.

Emily Weiss, Mark and Nancy Ratner Professor of Chemistry and professor of materials science and engineering (by courtesy), Northwestern University

Join us after the opening session for a welcome reception with refreshments in the Expo and Career Fair, Hall D1/D2, 5:30–7:30 p.m.

▶ Monday, April 1

The Kavli Foundation Emerging Leader in Chemistry Lecture

4:00–5:00 p.m.

The Chemistry of Finding Extraterrestrial Life, Samuel Kounaves, department of chemistry, Tufts University

The Fred Kavli Innovations in Chemistry Lecture

5:15–6:10 p.m.

Sensing Human Behavior with Smart Garments, Trisha L. Andrew, associate professor of chemistry and chemical engineering, University of Massachusetts Amherst

Sci-Mix Interdivisional Poster Session

8:00–10:00 p.m.

Orange County Convention Center

► **Tuesday, April 2****Expo and Career Fair**

Orange County Convention Center, Hall D1/D2

9:00 a.m.–5:00 p.m.

2019 ACS National Awards Banquet and Ceremony

Dinner at 7:30 p.m. and general meeting followed by the awards ceremony beginning at 8:30 p.m., Hyatt Regency Orlando

Priestley Medal Address by 2001 Nobel Prize in Chemistry winner K. Barry Sharpless► **Wednesday, April 3**

The ACS Council meeting will begin at 8:00 a.m., Wednesday, April 3, at the Hilton Orlando. A continental breakfast for councillors will precede the meeting and begin at 7:00 a.m. Councillors are asked to check in beginning at 7:00 a.m. and proceed to the breakfast area, keeping in mind that the meeting starts promptly at 8:00 a.m.

Council meeting: Check-in and breakfast: 7:00–8:00 a.m.

Council meeting: 8:00 a.m.–1:00 p.m.

2019 ACS National Awards Banquet and Ceremony

As you make your plans, do not forget to purchase your ticket for the 2019 ACS National Awards Banquet and Ceremony. The hour-long banquet will start at 7:30 p.m., followed by the ceremony. Both events will take place at the Hyatt Regency Orlando.

K. Barry Sharpless, recipient of the 2001 Nobel Prize in Chemistry, will deliver the Priestley Medal Address.

The ACS National Awards recognize individual or team accomplishments in the diverse fields of chemical science. During the ceremony, award recipients will make an address to an appropriate division on the scientific work that is being recognized.

**Career Navigator**

Opportunities for career development abound at the ACS Spring 2019 National Meeting and Exposition in Orlando. The ACS Career Navigator offers comprehensive tools that allow you to explore varying career options, find opportunities in your field, and develop your skills to grow in your career. These offerings are applicable throughout your career and can help you achieve your goals, no matter what they are. Consider the offerings below.

ACS Leadership Development System

Whether you are a manager, experienced professional, or new member of the workforce, we invite you to attend an ACS Leadership Development System course held at the ACS National Meeting. Take a course from the list below to gain skills you can immediately apply on the job or in school.

- Collaborating across Boundaries
- Developing Communication Strategies
- Engaging Colleagues in Dialogue
- Fostering Innovation
- Leading Change
- Leading without Authority
- Strategic Planning

ACS Career Pathways

Register for an ACS Career Pathways workshop to help you find a career pathway and a job in the chemical sciences that is right for you. Our career-related workshops will help you with tasks such as improving your résumé, optimizing job performance, and acing an interview. Workshops include the following:

- Careers in Industrial Chemistry: Identifying Your Role in the Industrial Value Chain
- ChemIDP: Planning Your Career
- Finding Your Market, Defining Your Business
- Finding Yourself: Identifying a Career That Matches Your Strengths and Values
- Foreign National Scientists Obtaining a Job in the US

- Higher Ed: Presenting Yourself
- How to Find and Apply for a Chemistry Position in the Federal Government
- Making the Most of Your Interview: Outshining the Competition
- Networking: How to Get Started
- New Technologies to Find Jobs and Manage Your Career
- Opportunities for Chemists in the Federal Government
- Résumé Development: Marketing Your Brand for an Industrial Chemistry Position
- Setting Yourself Up for Success in an Interview
- The Higher Ed Landscape
- Your Sales Marketing and Financing Plan
- Writing Excellent Proposals

ACS Professional Education Short Course

Refresh your skills and branch into new areas of emerging science and advanced applications with an ACS Professional Education in-person short course. The courses available are:

- Analysis and Interpretation of Mass Spectral Data
- Chemical Engineering for Chemists
- Chemistry for Non-Chemists: The Basics, Language, and Function of Chemistry
- Chemometric Techniques for Quantitative Analysis
- Effective Science Communication: How to Use Storytelling and Other Delivery Techniques to Successfully Discuss Your Work with the Public and Colleagues in Unrelated Fields
- Fundamentals of Climate Science and Carbon Mitigation
- Intellectual Property Strategies for Technical Professionals
- Modern HPLC/UHPLC for Practicing Scientists 1: Fundamentals and Pharmaceutical Applications
- Modern HPLC/UHPLC for Practicing Scientists 2: UHPLC, Method Development, HPLC Operation, Troubleshooting and Biopharmaceutical Applications
- Polymer Science and Technology
- Polymeric Coatings
- Statistical Analysis of Laboratory Data
- Survey of Flavor Science

Wear a Catalyzing Career Networking (C2N) ribbon during your time at the national meeting to indicate your career goal, whether you are seeking postdoctoral opportunities, faculty or research group leader positions, or an industry position.

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Governance meetings

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 Orange County Convention Center from noon to 1:00 p.m. on Sunday, March 31. The board will discuss “work-force immigration and its relationship to the US economy, innovation, and global competitiveness.”

ACS COUNCIL. The ACS Council meeting will begin at 8:00 a.m., Wednesday, April 3, at the Hilton Orlando. A continental breakfast for councillors will precede the meeting and begin at 7:00 a.m. Councillors are asked to check in beginning at 7:00 a.m. and proceed to the breakfast area, 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 councillors and division and local section officers are particularly urged to attend.

Committee agenda

Committee meeting formats and structure

ACS governance committees generally operate in one of three formats as 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

Council Policy Committee

The Council Policy Committee will open the floor during its meeting at 9:30 a.m. on Tuesday, April 2, to councillors who would like to raise issues of concern that affect them and/or their local sections or divisions. For further information, contact Lisa Houston, vice chair of CPC, at cpc@acs.org.

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 is 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 councillors 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 officers listed.

► Budget and Finance

Joseph A. Heppert, chair; b_ffedback@acs.org

Open meeting
Saturday, March 30, 8:00–10:30 a.m.,
Hilton Orlando

► Chemical Safety

Ralph Stuart, chair; safety@acs.org

Open executive meeting
Sunday, March 31, 8:00–10:00 a.m.,
Hilton Orlando

► Chemistry and Public Affairs

Raymond E. Forslund, chair; reforslund@me.com

Open meeting
Saturday, March 30, 3:00–4:30 p.m.,
Hilton Orlando

Councilor caucus meetings

District I Councillor Caucus

Sunday, March 31, 6:00–7:00 p.m.,
Hilton Orlando

District II Councillor Caucus

Sunday, March 31, 6:00–7:00 p.m.,
Hilton Orlando

District III Councillor Caucus

Sunday, March 31, 6:00–7:00 p.m.,
Hilton Orlando

District IV Councillor Caucus

Sunday, March 31, 6:00–7:00 p.m.,
Hilton Orlando

District V Councillor Caucus

Sunday, March 31, 6:00–7:00 p.m.,
Hilton Orlando

District VI Councillor Caucus

Sunday, March 31, 6:00–7:00 p.m.,
Hilton Orlando

Division Officers/Councillors Caucus

Tuesday, April 2, 4:00–6:00 p.m.,
Hilton Orlando

► Chemists with Disabilities

James Schiller, chair; james.schiller@merck.com

Combined open and executive meeting
**Sunday, March 31, 8:30 a.m.–4:30 p.m.,
Hilton Orlando**

► Committees

Carolyn Ribes, chair; cribes@dow.com

Open meeting
**Monday, April 1, 1:30–2:00 p.m.,
Hilton Orlando**

► Community Activities

Holly L. Davis, chair; outreach@acs.org

Closed executive meeting
**Sunday, March 31, 6:30 a.m.–noon,
Hilton Orlando**

CCA/LSAC joint open meeting
**Tuesday, April 2, 2:00–3:30 p.m.,
Hilton Orlando**

► Constitution and Bylaws

V. Dean Adams, chair; bylaws@acs.org

Open meeting
**Sunday, March 31, 1:30–1:45 p.m.,
Hilton Orlando**

Executive meeting
**Sunday, March 31, 11:00–11:30 a.m. and
1:45–4:30 p.m., Hilton Orlando**

► Corporation Associates

Robert J. Wolcik, chair; rj@strem.com

Open meeting
**Monday, April 1, 8:00 a.m.–noon,
Hilton Orlando**

► Council Policy

Lisa Houston, vice chair; cpc@acs.org

Open executive meeting
**Tuesday, April 2, 9:30 a.m.–noon,
Hilton Orlando**

► Divisional Activities

James M. Takacs, chair; jtakacs1@unl.edu

Open executive meeting
**Sunday, March 31, 8:00 a.m.–noon,
Hilton Orlando**

► Economic and Professional Affairs

Frank Romano, chair; frank.romano@agilent.com

Executive meeting
**Saturday, March 30, 8:00 a.m.–5:30
p.m., Hilton Orlando**

► Education

Jennifer Nielson, chair; jnielson@chem.byu.edu

Executive meeting
**Friday, March 29, 1:00–5:30 p.m.,
Hilton Orlando**

Open meeting
**Monday, April 1, 3:00–4:00 p.m.,
Hilton Orlando**

► Environmental Improvement

Christopher W. Avery, chair; cei@acs.org

Breakfast/open meeting
**Monday, April 1, 7:45–9:00 a.m.,
Hilton Orlando**

► Ethics

Judith Currano, chair; currano@pobox.upenn.edu

Open executive meeting
**Sunday, March 31, 9:00 a.m.–4:30 p.m.,
Hilton Orlando**

► International Activities

Jens Breffke, chair; intlacts@acs.org

Open meeting
**Saturday, March 30, 1:00–3:00 p.m.,
Hilton Orlando**

► Local Section Activities

Jason Ritchie, chair; jritch@olemiss.edu

Open executive meeting
**Sunday, March 31, 8:00 a.m.–noon,
Hilton Orlando**

LSAC/CCA joint open meeting
**Tuesday, April 2, 2:00–3:30 p.m.,
Hilton Orlando**

► Meetings and Expositions

Kevin J. Edgar, chair; M&E@acs.org

Open meeting
**Sunday, March 31, 7:30–10:00 a.m.,
Orange County Convention Center**

Closed executive meeting
**Sunday, March 31, 10 a.m.–noon,
Orange County Convention Center**

► Membership Affairs

Brian Mathes, chair; mathes@lilly.com

Closed executive meeting
**Sunday, March 31, 8:00 a.m.–3:00 p.m.,
Hilton Orlando**

Open executive meeting
**Sunday, March 31, 3:00–4:00 p.m.,
Hilton Orlando**

► Minority Affairs

Ann Kimble-Hill, chair; ankimble@iu.edu

Closed executive meeting
**Sunday, March 31, 8:00 a.m.–12:30
p.m., Hilton Orlando**

Open meeting
**Sunday, March 31, 12:30–2:00 p.m.,
Hilton Orlando**

► Nomenclature, Terminology, and Symbols

Michelle M. Rogers, chair; michelle.m.rogers@gmail.com

Open executive meeting
**Monday, April 1, 10:00 a.m.–12:30 p.m.,
Hilton Orlando**

Open meeting
**Monday, April 1, 1:30–5:00 p.m., Hilton
Orlando**

► Nominations and Elections

Amber Hinkle, chair; nomelect@acs.org

Open executive meeting
**Monday, April 1, 11:30 a.m.–noon,
Hilton Orlando**

► Patents and Related Matters

Kirby Drake, chair; kirby.drake@klem-chuk.com

Open meeting
**Saturday, March 30, 9:00 a.m.–4:00
p.m., Hilton Orlando**

► Professional Training

Edgar Arriaga, chair; cpt@acs.org

Open meeting

**Sunday, March 31, 4:00–6:00 p.m.,
Hilton Orlando**

► Project SEED

Don Warner, chair; dwardner@boisestate.edu

Closed executive meeting

**Saturday, March 30, 10:30 a.m.–5:00
p.m., Hilton Orlando**

Open meeting

**Sunday, March 31, 9:30–10:30 a.m.,
Hilton Orlando**► Public Relations and
Communications

Amber Charlebois, chair; afcharleb@gmail.com

Open executive meeting

**Monday, April 1, 8:00 a.m.–1:00 p.m.,
Hilton Orlando**

► Publications

Julia Laskin, chair; jlaskin@purdue.edu

Closed executive meeting

**Friday, March 29, noon–5:00 p.m.,
Hilton Orlando**

► Science

Martin Kociolek, chair; mgk5@psu.edu

Executive meeting

**Saturday, March 30, 8:00 a.m.–4:30
p.m., Hilton Orlando**

► Senior Chemists

Arlene A. Garrison, chair; garrison@utk.edu

Open meeting

**Monday, April 1, 8:30 a.m.–1:30 p.m.,
Hilton Orlando**

► Technician Affairs

Jennifer McCulley, chair; jennifer_mcculley@agilent.com

Open executive meeting

**Sunday, March 31, 7:45 a.m.–1:00 p.m.,
Hilton Orlando**

► Women Chemists

Kimberly A. Woznick, chair; woznick@calu.edu

Closed executive meeting

**Saturday, March 30, 7:30 a.m.–5:00
p.m., Hilton Orlando**

► Younger Chemists

Matt Grandbois, chair; grandboismatthew@gmail.com

Closed executive meeting

**Saturday, March 30, 7:30 a.m.–4:00
p.m., Hilton Orlando**

Open meeting

**Sunday, March 31, 7:30 a.m.–noon,
Hilton Orlando**

KEY TO SUCCESS

Let the ACS Career Navigator™ open the door to new opportunities. To learn how we can help advance your career, visit www.acs.org/keytosuccess.

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Presidential Events

PRES

B. Charpentier, program chair

Orange County Convention Center	S	M	Tu	W	Th
The Chemistry of Disasters **		P			
Bridging the (Safety) Gap between Academia and Industry **			A		
Leadership and Inclusive Excellence in STEM: Impact of Teacher-Scholars on Diversity *(PROF)	P				
LGBTQ+ Graduate Student and Postdoctoral Scholar Research Symposium *(PROF)		D			
Excellence in Graduate Polymer Research *(POLY)		P	DE		
GSSPC: Artificial Molecular Machines and the Next Generation of Molecular Control *(CHED)			D		

Multidisciplinary Program Planning Group

MPPG

M. Meador, L. Roberson, program chairs

Orange County Convention Center	S	M	Tu	W	Th
Chemistry for New Frontiers Opening Session CNF	P				
30th Anniversary of Chemistry of Materials—from 1989 to 2019		A			
Third ACS NASA Symposium: Chemistry for Humanity's Next Giant Leap		D	D		
The Kavli Foundation Emerging Leader in Chemistry Lecture		P			
Pushing to the Extreme: Emerging Trends in Nanoscience, Materials Science and Photonics		P			
The Fred Kavli Innovations in Chemistry Lecture		E			
Applied Materials for New Frontiers: Ten Years of ACS Applied Materials and Interfaces ** CNF			D		
Interdisciplinary Chemistry for New Frontiers in Biology and Medicine *(ANYL)	D	D	A		
Here We Are: Leading and Emerging Black Chemists in Analytical Chemistry *(ANYL)	P				

*Cosponsored symposium with primary organizer shown in parentheses; located with primary organizer.

**Primary organizer of a cosponsored symposium.

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Division of Agricultural and Food Chemistry

AGFD

X. Fan, program chair

Hyatt Regency Orlando	S	M	Tu	W	Th
Recent Advances in Food Fraud and Authenticity Analysis	D	A			
Second Global Symposium on Chemistry and Biological Effects of Maple Food Products	D				
Withycombe: Charalambous Graduate Student Symposium	P				
General Posters	E				
Flavor Chemistry of Chiral Compounds		A			
The Flavor of Subtropical and Tropical Fruits		P	D		
Antibiotic and Fungicide Resistance in Agriculture **		P			
Sci-Mix		E			
Food for Space Travel and Extreme Environments CNF			A		
The Chemistry of Color in Foods			P		
General Papers				D	A
Chemistry of Huanglongbing				D	
Chemical Signaling in Plants *(BIOL)		A			
LGBTQ+ Graduate Student and Postdoctoral Scholar Research Symposium *(PROF)		D			
Undergraduate Research Posters *(CHED)		P			
Chemistry in Space: Future Directions *(YCC)		P			
Advanced Chemistry of "Nontraditional" Polysaccharides *(CELL)			D		
Nanocellulose: From Fundamentals to Function *(CELL)				D	D

Division of Agrochemicals

AGRO

C. Cleveland, program chair

Located with Primary Sponsor	S	M	Tu	W	Th
Chemical Signaling in Plants *(BIOL)		A			
Antibiotic and Fungicide Resistance in Agriculture *(AGFD)		P			
Hemp Processing: From Weed to Values *(CELL)		P			
Valorization of Renewable Resources and Residuals into New Materials and Multiphase Systems *(CELL)				D	D
Additive Manufacturing of Biobased and Renewable Materials *(CELL)					D

Division of Analytical Chemistry

ANYL

K. Agnew-Heard, M. Bush, program chairs

Hyatt Regency Orlando	S	M	Tu	W	Th
Extraterrestrial Organic Analysis: Past, Present and Future ** <i>CNF</i>	A	A			
Advances in Ion Mobility Spectrometry	D	A			
Interdisciplinary Chemistry for New Frontiers in Biology and Medicine ** <i>CNF</i>	D	D	A		
Here We Are: Leading and Emerging Black Chemists in Analytical Chemistry **	P				
New Frontiers in Teaching Analytical and Bioanalytical Chemistry	P				
Analytical Division Poster Session **	E				
Advances in the Characterization of Electronic Nicotine Delivery Systems (ENDS)		D			
Student-Organized Symposium: New Analytical Approaches for Environmental Chemistry		P			
Frank H. Field and Joe L. Franklin Award for Outstanding Achievement in Mass Spectrometry **		P			
Sci-Mix		E			
Frontiers in Forensic Mass Spectrometry			A		
ACS Award in Chromatography **			A		
Advances in Electrochemistry			D	D	
Advances in Mass Spectrometry			P	A	
Advances in Ligand-Binding Assays Involving Integral Membrane Proteins			P	A	
ACS Award in Analytical Chemistry **			P		
Advances in Spectroscopy **				D	A
Advances in Renewable Materials *(CELL)	D	A			
Interplay of Cellulose and Other Biopolymers in Biological and Designed Materials Systems *(CELL)	D	A			
Engineered Lignocellulosic Materials and Multiphase Systems: Anselme Payen Award Symposium in Honor of Orlando Rojas *(CELL)	D	D	D		
New Horizons: Early-Career Researchers in Renewable Materials: Symposium in Honor of the Kingfa and PhD Student Prize Winners *(CELL)	D	D			
Biobased Materials for Energy Conversion and Storage Applications *(CELL)	D				
General Posters *(CELL)	E				
Understanding Cellulose Crystallinity and Noncrystalline Aggregated States of Cellulose *(CELL)		A	D		

Division of Analytical Chemistry
(continued)

ANYL

K. Agnew-Heard, M. Bush, program chairs

Hyatt Regency Orlando	S	M	Tu	W	Th
LGBTQ+ Graduate Student and Postdoctoral Scholar Research Symposium *(PROF)		D			
Emerging Frontiers in Fluorescence Microscopy: From Single Molecules to Superresolution *(PHYS)		P	A	A	D
Ionic-Liquids Processing of Polysaccharides *(CELL)		P	P		
Fluorescence Techniques Applied to Lignocellulose Characterization *(CELL)		P			
Hemp Processing: From Weed to Values *(CELL)		P			
Undergraduate Research Posters *(CHED)		P			
Chemistry in Space: Future Directions *(YCC)		P			
Kathryn C. Hach Award for Entrepreneurial Success *(SCHB)		P			
ACS Sustainable Chemistry and Engineering: Symposium in Honor of Dr. Silvia Vignolini *(CELL)			A		
Planetary and Meteoritic Chemistry *(GEOC)			D	E	
Failed Brilliance in Nanocellulose Science and Technology *(CELL)			D		
Transforming the Undergraduate Chemistry Laboratory to Teach Transferable Skills and Develop Young Scientists *(CHED)			D		
Exploring the Frontiers of Chemistry through NASA Research *(COMSCI)			D		
Advanced Chemistry of "Nontraditional" Polysaccharides *(CELL)			D		
Biobased Gels and Porous Materials *(CELL)				D	D
Nanocellulose: From Fundamentals to Function *(CELL)				D	D
Valorization of Renewable Resources and Residuals into New Materials and Multiphase Systems *(CELL)				D	D
Wood-Based Polymers: From Functional Structures to Applications *(CELL)				D	D
Bioactive Delivery: Frontiers in Biomaterials *(CELL)				D	
Additive Manufacturing of Biobased and Renewable Materials *(CELL)					D

Division of Biochemical Technology

BIOT
J. Neville, B. Pfleger, program chairs

Rosen Centre Hotel	S	M	Tu	W	Th
Emerging Frontiers in BIOT ** <i>CNF</i>	A	A		A	D
Upstream Processes <i>CNF</i>	A	D	DE	D	D
End-to-End Biomanufacturing <i>CNF</i>	A	D	PE	P	D
Biomedical Technologies	D	D	AE	D	
Downstream Processing	D	D	DE	A	D
Spotlights on Research Areas	D	P	D	P	
Biomolecular Technologies **	P		DE	D	A
General Biochemical Technology	E		E		
Sci-Mix		E			
LGBTQ+ Graduate Student and Postdoctoral Scholar Research Symposium *(PROF)		D			
Undergraduate Research Posters *(CHED)		P			
Chemistry in Space: Future Directions *(YCC)		P			
Exploring the Frontiers of Chemistry through NASA Research *(COMSCI)			D		
Polymer Bioconjugates for a Changing World *(POLY)			DE	D	D

Division of Biological Chemistry

BIOL
P. Bevilacqua, program chair

Orange County Convention Center	S	M	Tu	W	Th
Graduate Student and Postdoctoral Fellow Symposium	A			P	A
Targeting RNA with Drugs	A				
Early-Career Investigators in Biological Chemistry	P				A
Murray Goodman Award: Symposium in Honor of David Beratan	P				
Current Topics	E				
Protein Folding and Aggregation		A			
Chemical Signaling in Plants **		A			
Advances in Metabolic Labeling and Profiling		P			

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Division of Biological Chemistry (continued)

BIOL
P. Bevilacqua, program chair

Orange County Convention Center	S	M	Tu	W	Th
Chemical Signaling Between Organisms		P			
Sci-Mix		E			
ACS Chemical Biology Award Symposium			A		
ACS National Awards: Breslow and Nakanishi			P		
DNA Instability and Repair				A	
Midcareer Investigators in Biological Chemistry				D	
Upstream Processes *(BIOT)	A	D	DE	D	D
Interplay of Cellulose and Other Biopolymers in Biological and Designed Materials Systems *(CELL)	D	A			
Interdisciplinary Chemistry for New Frontiers in Biology and Medicine *(ANYL)	D	D	A		
Biobased Materials for Energy Conversion and Storage Applications *(CELL)	D				
Biomolecular Technologies *(BIOT)	P		DE	D	A
Nucleic Acid-Based Therapeutics *(CARB)		D			
LGBTQ+ Graduate Student and Postdoctoral Scholar Research Symposium *(PROF)		D			
Fluorescence Techniques Applied to Lignocellulose Characterization *(CELL)		P			
Undergraduate Research Posters *(CHED)		P			
MEDI Awards Symposium *(MEDI)			A		
Exploring the Frontiers of Chemistry through NASA Research *(COMSCI)			D		
Advanced Chemistry of "Nontraditional" Polysaccharides *(CELL)			D		
Biobased Gels and Porous Materials *(CELL)				D	D
Nanocellulose: From Fundamentals to Function *(CELL)				D	D
Bioactive Delivery: Frontiers in Biomaterials *(CELL)				D	
Additive Manufacturing of Biobased and Renewable Materials *(CELL)					D

Division of Business Development and Management

BMGT
A. DeMasi, J. Bryant, program chairs

Hilton Orlando	S	M	Tu	W	Th
Chemical Angel Network **	P				

Division of Business Development and Management (continued)

BMGT
A. DeMasi, J. Bryant, program chairs

Hilton Orlando	S	M	Tu	W	Th
ACS: A Place to Do Business **		P			
Chemistry in Space: Future Directions *(YCC)		P			
Beyond the Bench: Nontraditional Careers in Chemistry *(CHAL)		P			
Kathryn C. Hach Award for Entrepreneurial Success *(SCHB)		P			

Division of Carbohydrate Chemistry

CARB
S. Suheck, program chair

Orange County Convention Center	S	M	Tu	W	Th
Wolfrom Award **	A				
Horton Award **	A				
Hudson Award **	P				
Gin New Investigator Award **	P				
Isabell Award **	P				
General Posters **	E				
Chemical Biology of Glycoproteins **		D			
Nucleic Acid-Based Therapeutics **		D			
Sci-Mix		E			
Exploration of Carbohydrate-Protein Interactions/Recognition: The Latest Techniques and Achievements **			D	D	
Opportunities and Challenges in Carbohydrate Synthesis B **			D		
Advances in Renewable Materials *(CELL)	D	A			
Interplay of Cellulose and Other Biopolymers in Biological and Designed Materials Systems *(CELL)	D	A			
Opportunities and Challenges in Carbohydrates *(ORGN)	D				
General Posters *(CELL)	E				
LGBTQ+ Graduate Student and Postdoctoral Scholar Research Symposium *(PROF)		D			
Ionic-Liquids Processing of Polysaccharides *(CELL)		P	P		
Advanced Chemistry of "Nontraditional" Polysaccharides *(CELL)			D		
Bioactive Delivery: Frontiers in Biomaterials *(CELL)				D	

Division of Catalysis Science and Technology

CATL
A. Savara, program chair

Orange County Convention Center	S	M	Tu	W	Th
Data Science for Catalysis Research ** <i>CNF</i>	D	A			
Computational Electrocatalysis **	D	D			
Symposium in Honor of Chuck Peden's Research Career: Catalysis for Energy and the Environment ** <i>CNF</i>	D	D			
Ipatieff Prize: Symposium in Honor of Ive Hermans	D	D			
Elucidation of Mechanisms and Kinetics on Surfaces ** <i>CNF</i>	D	P	D		D
Advances in Methods for Comparing Molecular and Supramolecular Simulations to Experiments ** <i>CNF</i>	D				
Mechano- and Tribochemistry and Catalysis **	D				
Frontiers in Catalysis for Energy and Sustainability ** <i>CNF</i>		D	D		
Gabor A. Somorjai Award for Creative Research in Catalysis: Symposium in Honor of Manos Mavrikakis		D	D		
Recent Advances in Plasma-Enhanced Catalysis ** <i>CNF</i>		D			
Sci-Mix		E			
Elucidating the Roles of Electric Fields in Catalysis ** <i>CNF</i>			D	A	
Well-Defined Materials for Heterogeneous Catalysis: Synthesis, Characterization, and Performance Studies **			D	D	D
Catalytic Chemistry over Metal Oxides <i>CNF</i>			D	D	P
Light-Driven Chemistry: Photoelectrochemistry and Photocatalysis ** <i>CNF</i>			D	D	
General Catalysis			E		D
Chemical Catalysis for Bioenergy Consortium: Addressing Deactivation during Biomass Conversion ** <i>CNF</i>				D	A
Activation of Light (C ₁ -C ₄) Hydrocarbons: Theory and Experiments ** <i>CNF</i>				D	P
Model Catalysis and Materials Complexity Frontiers ** <i>CNF</i>				D	
In Situ and Operando Spectroscopy/ Microscopy Studies of Catalysis <i>CNF</i>					D
Carbon Dioxide Conversion and Utilization *(ENFL)	D	D	D	A	
Innovative Chemistry and Materials for Electrochemical Energy Storage *(ENFL)	D	D	D	D	A

Division of Catalysis Science and Technology (continued)

CATL

A. Savara, program chair

Orange County Convention Center	S	M	Tu	W	Th
ACS Award in Surface Chemistry: Symposium in Honor of Hajo Freund *(COLL)		D	A		
Celebrating 50 Years of ExxonMobil's Corporate Strategic Research Laboratories: A View Forward from a Retrospective *(ENFL)		D			

Division of Cellulose and Renewable Materials

CELL

W. Thielemans, G. Larkin, program chairs

Orange County Convention Center	S	M	Tu	W	Th
Advances in Renewable Materials ** CNF	D	A			
Interplay of Cellulose and Other Biopolymers in Biological and Designed Materials Systems ** CNF	D	A			
Engineered Lignocellulosic Materials and Multiphase Systems: Anselme Payen Award Symposium in Honor of Orlando Rojas ** CNF	D	D	D		
New Horizons: Early-Career Researchers in Renewable Materials: Symposium in Honor of the Kingfa and PhD Student Prize Winners ** CNF	D	D			
Biobased Materials for Energy Conversion and Storage Applications ** CNF	D				
General Posters **	E				
Understanding Cellulose Crystallinity and Noncrystalline Aggregated States of Cellulose ** CNF		A	D		
Ionic-Liquids Processing of Polysaccharides ** CNF		P	P		
Fluorescence Techniques Applied to Lignocellulose Characterization ** CNF		P			
Hemp Processing: From Weed to Values ** CNF		P			
Sci-Mix		E			

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Division of Cellulose and Renewable Materials (continued)

CELL

W. Thielemans, G. Larkin, program chairs

Orange County Convention Center	S	M	Tu	W	Th
ACS Sustainable Chemistry and Engineering: Symposium in Honor of Dr. Silvia Vignolini ** CNF			A		
Failed Brilliance in Nanocellulose Science and Technology ** CNF			D		
Advanced Chemistry of "Nontraditional" Polysaccharides ** CNF			D		
Biobased Gels and Porous Materials ** CNF				D	D
Nanocellulose: From Fundamentals to Function ** CNF				D	D
Valorization of Renewable Resources and Residuals into New Materials and Multiphase Systems ** CNF				D	D
Wood-Based Polymers: From Functional Structures to Applications ** CNF				D	D
Bioactive Delivery: Frontiers in Biomaterials ** CNF				D	
Additive Manufacturing of Biobased and Renewable Materials ** CNF					D
Wolfom Award *(CARB)	A				
Horton Award *(CARB)	A				
Bioenergy and Bioproducts *(ENFL)	D	D	A		
Hudson Award *(CARB)	P				
Gin New Investigator Award *(CARB)	P				
Isabell Award *(CARB)	P				
General Posters *(CARB)	E				
2019 ACS Sustainable Chemistry and Engineering Lectureship Awards: Symposium in Honor of Paul Dauenhauer *(I&EC)		A			
Chemical Biology of Glycoproteins *(CARB)		D			
LGBTQ+ Graduate Student and Postdoctoral Scholar Research Symposium *(PROF)		D			
2019 ACS Sustainable Chemistry and Engineering Lectureship Awards: Symposium in Honor of Kevin Wu *(I&EC)		P			
Exploration of Carbohydrate-Protein Interactions/Recognition: The Latest Techniques and Achievements *(CARB)			D	D	
Opportunities and Challenges in Carbohydrate Synthesis B *(CARB)			D		
Exploring the Frontiers of Chemistry through NASA Research *(COMSCI)			D		

Division of Chemical Education

CHED

A. Cannon, D. Bromfield-Lee, I. Levy, program chairs

Orange County Convention Center	S	M	Tu	W	Th
International Perspectives on Chemistry Education and Olympiads **	A				
Undergraduate Research Papers	D	D			
Active Learning in Organic Chemistry	D				
Advances in E-learning, Digital Learning and Online Education	D				
Chemistry Teachers Day Program	D				
NMR Spectroscopy in the Undergraduate Curriculum	D				
Strategies Promoting Success of Two-Year College Students **	D				
Underrepresented Minority Groups in Chemistry Education	D				
Green and Sustainable Chemistry Theory and Practice: Chemistry for New Frontiers **	P				
General Posters	E				
Training Professional Teaching Assistants		A			
There's an App for That		A			
Green Chemistry Student Chapters: Stories of Success **		A			
Process-Oriented Guided Inquiry Learning (POGIL)		D			
PolyEd: Incorporating Polymer Chemistry in Undergraduate and High School Curricula **		D			
Chemistry Education Research: Graduate Student Forum		D			
Chemistry and Our Common Future: 2019 George C. Pimentel Award Symposium in Honor of Cathy Middlecamp		D			
New Frontiers for Chemical Education: Digital and Online Tools for Learning		P			
UN Sustainable Development Goals: Unique Opportunities for the Chemical Enterprise **		P			
Undergraduate Research Posters **		P			
Enhancing Chemical Education with 3-D Printing		P			
Successful Student Chapters **		E			
Revamping Practical Chemistry Teaching for the New Frontier **		E			
Sci-Mix		E			
General Papers			A		A
Nanotechnology in Undergraduate Education and Research			A		

Division of Chemical Education
(continued)

CHED

A. Cannon, D. Bromfield-Lee, I. Levy, program chairs

Orange County Convention Center	S	M	Tu	W	Th
ACS-CEI Award for Incorporation of Sustainability into Chemistry Education **			A		
Research in Chemistry Education			D	D	A
Advancing Undergraduate Research in Chemistry: Best Practices for New Frontiers			D		
GSSPC: Artificial Molecular Machines and the Next Generation of Molecular Control **			D		
Transforming the Undergraduate Chemistry Laboratory to Teach Transferable Skills and Develop Young Scientists **			D		
ACS Award for Achievement in Research for the Teaching and Learning of Chemistry **			D		
Green Chemistry as a Pillar of Safety Education **			P		
Perspectives on Climate Change Literacy and Education: Local to International **			P		
Porphyrins and Related Macrocycles in Undergraduate Teaching and Research			P		
Extending the Reach of Outreach				A	
Research on Learning in the Laboratory				A	
Engaging Undergraduates with Raman Spectroscopy				A	
Students as Informal Educators: Student use of NISE Net Explore Science: Let's Do Chemistry Kits				A	
Bridging the Divide: Relating Chemistry to Biology and the Humanities				D	
Core Ideas, Crosscutting Concepts and Science Practices: Three-Dimensional Learning in Chemistry				D	
Curricular Innovations in Undergraduate Chemical Education Impacted by NSF				D	
Designs to Improve Learning Outcomes in an Allied-Health Chemistry Course				P	
Fundamentals of Chemistry Outreach Education: From Program Design to Assessment **				P	
Coexistence of Joy, Motivation, and Learning in Chemistry Classrooms				P	
Observing and Measuring Classroom Instructional Practices					A

Division of Chemical Education (continued)

CHED

A. Cannon, D. Bromfield-Lee, I. Levy, program chairs

Orange County Convention Center	S	M	Tu	W	Th
The Tenure Track and Beyond: Academic Career Perspectives from Young Chemists *(YCC)		A			
LGBTQ+ Graduate Student and Postdoctoral Scholar Research Symposium *(PROF)		D			
Bridging the (Safety) Gap between Academia and Industry *(PRES)			A		

Division of Chemical Health and Safety

CHAS

J. Pickel, D. Decker, program chairs

Orange County Convention Center	S	M	Tu	W	Th
Educating the Educators ** CNF	P				
A Decade Later: The Death of Sheri Sangji as a Catalyst for a Change in Safety Culture ** CNF		A			
Cannabis Chemistry's First Annual ElSohly Award Symposium		P	A		
Sci-Mix		E			
Ask Doctor Safety about New Materials, Processes and Products ** CNF			P		
Improving Academic Safety Culture: Undergraduate and Graduate Student Leadership in Laboratory Safety **			P		
New Frontiers in Cannabis: Analytical Tools, Postprocessing, and Policy Directions				A	
Chemistry in Space: Future Directions *(YCC)		P			
The Chemistry of Disasters *(PRES)		P			
Bridging the (Safety) Gap between Academia and Industry *(PRES)			A		
Green Chemistry as a Pillar of Safety Education *(CHED)			P		

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Division of Chemical Information

CINF

R. Bienstock, S. Cardinal, program chairs

Orange County Convention Center	S	M	Tu	W	Th
Partnering Up in the New Frontier: Libraries and External Partners Working Together CNF	A				
Drug Discovery: Informatics Approaches **	D				
Careers in Chemical Information **	P				
Collaborations and Data Sharing in Rare and Orphan Disease Drug Discovery **	P				
CINF Scholarships for Scientific Excellence: Student Poster Competition **	E				
Web-Based Cheminformatics Platforms		D	A		
Creating a Common Language for Chemistry: IUPAC's Past, Present and Future Roles **		D			
Sci-Mix		E			
Deep Learning **			D	A	
Assessing Chemistry Outreach **			P		
Applications of Cheminformatics to Environmental Science **				D	
Data Science for Catalysis Research *(CATL)	D	A			
Advances in Methods for Comparing Molecular and Supramolecular Simulations to Experiments *(CATL)	D				
Frontiers in Cybersecurity *(SCHB)	P				

Division of Chemistry and the Law

CHAL

K. Bianco, K. McIntyre, program chairs

Orange County Convention Center	S	M	Tu	W	Th
Strengthening Your Patent Rights in Light of Recent Federal Circuit Court Decisions **	P				
The Many Faces of CHAL: Where Chemistry Meets the Law		A			
Beyond the Bench: Nontraditional Careers in Chemistry **		P			
Sci-Mix		E			
Patent Insights for Pharmaceutical Companies **			A		

Division of Colloid and Surface Chemistry

COLL
R. Nagarajan, program chair

Orange County Convention Center	S	M	Tu	W	Th
Surface Chemistry	A			D	A
Biomembrane Synthesis, Structure, Mechanics and Dynamics CNF	D	D	A	D	A
Colloidal Nanoparticle Synthesis and Assembly	D	D	A	D	A
Surface Chemistry of Colloidal Nanocrystals	D	D	A	D	A
Biomaterials and Biointerfaces	D	D	A	P	
Quantitative Particle Cell Interaction CNF	D	D	A		
Nanomaterials	D	D		D	A
Understanding the Inorganic-Organic Interface in Colloidal Nanomaterials	D		D	D	
Novel Functionalization Methods for Textiles and Fibers	DE		P		
Supramolecular Assemblies at Surfaces: Noncovalent, Covalent and Coordination Bonding CNF	PE	D	A		
Fundamental Research in Colloids, Surfaces and Nanomaterials	E				
ACS Award in Surface Chemistry: Symposium in Honor of Hajo Freund ** CNF		D	A		
ACS Award in Colloid Chemistry: Symposium in Honor of Naomi Halas ** CNF		D	A		
Sci-Mix		E			
Basic Research in Colloids, Surfactants and Interfaces			P	D	A
ACS Awards Lectures ** CNF			P		
New Frontiers in Hybrid Nanosized Metallic and Semiconductor Materials CNF				A	
Molecular Processes at Mineral-Water Interfaces: Predictions via Linking Theory and Experiments *(GEOC)	D	A		E	
Interdisciplinary Chemistry for New Frontiers in Biology and Medicine *(ANYL)	D	D	A		
Engineered Lignocellulosic Materials and Multiphase Systems: Anselme Payen Award Symposium in Honor of Orlando Rojas *(CELL)	D	D	D		
LGBTQ+ Graduate Student and Postdoctoral Scholar Research Symposium *(PROF)		D			
Light-Driven Chemistry: Photoelectrochemistry and Photocatalysis *(CATL)			D	D	

Division of Colloid and Surface Chemistry (continued)

COLL
R. Nagarajan, program chair

Orange County Convention Center	S	M	Tu	W	Th
GSSPC: Artificial Molecular Machines and the Next Generation of Molecular Control *(CHED)			D		
Exploring the Frontiers of Chemistry through NASA Research *(COMSCI)			D		
Applied Materials for New Frontiers: Ten Years of ACS Applied Materials and Interfaces *(MPPG)			D		
Nanoparticles in Nature: Detection, Characterization, Origin and Formation Mechanisms *(GEOC)				A	
Producing Equilibrium Amorphous Packings *(PHYS)				D	D
Biobased Gels and Porous Materials *(CELL)				D	D
Environmental Interfaces under Nano-scale Confinement *(GEOC)				D	
Hydrocarbon-Water-Mineral Interactions in the Subsurface *(GEOC)				E	D

Division of Computers in Chemistry

COMP
H. Woodcock, J. Shen, program chairs

Orange County Convention Center	S	M	Tu	W	Th
Drug Design	A			D	D
Molecular Mechanics	A				D
Sampling Conformations and Pathways in Biomolecular Systems: Recent Developments and Applications	D	D	D		
Electron-Molecule and Molecule-Molecule Interactions **	D	D			
Machine Learning in Chemistry	D	D			
Computational Modeling in Two-Dimensional Materials and Heterostructures	D				
Molecular Mechanics: Computational Studies of Transmembrane Proteins	P				
Undergraduate Research Roundtable and Career Panel	P				
Drug Design in the 21st Century: Where Computational Methods Are and Are Not Useful		A			
Simulation of Protein-Membrane Interfaces		D	D	D	

Division of Computers in Chemistry (continued)

COMP
H. Woodcock, J. Shen, program chairs

Orange County Convention Center	S	M	Tu	W	Th
Probing Reactive Intermediates through Chemical Computations		D	D		
ACS Award for Research at an Undergraduate Institution: Symposium in Honor of Carol A. Parish **		P	D		
Quantum Mechanics: Strong Electron Correlation			D	A	
ACS Award for Computers in Chemical and Pharmaceutical Research in Honor of Arnie Hagler **			D		
Chemical Computing Group Graduate Student Travel Awards			E		
COMP Poster Session			E		
NVIDIA GPU Award			E		
OpenEye Outstanding Junior Faculty Award			E		
Wiley Computers in Chemistry Outstanding PostDoc Award **			E		
Materials Science				D	D
Molecular Mechanics: Recent Advances in Simulations of Nucleic Acids				D	
Quantum Mechanics				P	D
Computational Studies of Water					D
Quantum Embedding Electronic Structure Methods *(PHYS)	D	A	A	D	D
Data Science for Catalysis Research *(CATL)	D	A			
Sustainable Software for Computational Molecular Science *(PHYS)	D	D	A	D	D
Advances in Data Collection and Analysis of Biomolecular Structures *(PHYS)	D	D	A		
Carbon Dioxide Conversion and Utilization *(ENFL)	D	D	D	A	
Computational Electrocatalysis *(CATL)	D	D			
Advances in Methods for Comparing Molecular and Supramolecular Simulations to Experiments *(CATL)	D				
Computational Methods in Lanthanide and Actinide Chemistry *(NUCL)	D				

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Division of Computers in Chemistry (continued)

COMP
H. Woodcock, J. Shen, program chairs

Orange County Convention Center	S	M	Tu	W	Th
Modeling Dynamics in Dense Manifolds of Electronic States *(PHYS)	P	D	A	P	D
LGBTQ+ Graduate Student and Postdoctoral Scholar Research Symposium *(PROF)		D			
Undergraduate Research Posters *(CHED)		P			
Deep Learning *(CINF)			D	A	
Division of Physical Chemistry Award Symposium *(PHYS)			P		
From Lab Book to Journal Article: Insights from Editors on the Publication Process *(PHYS)				A	

Division of Energy and Fuels

ENFL
H. Lin, program chair

Orange County Convention Center	S	M	Tu	W	Th
Bioenergy and Bioproducts **	D	D	A		
Carbon Dioxide Conversion and Utilization **	D	D	D	A	
Innovative Chemistry and Materials for Electrochemical Energy Storage **	D	D	D	D	A
Applied Electrocatalysis for Renewable Energy and Synthesis	D	D	D		
George A. Olah Award in Hydrocarbon or Petroleum Chemistry: Symposium in Honor of ChunShan Song	D	D	D		
Simulations of Materials and Processes for Energy Applications	P	D	D	D	A
Sustainable Energy Conversion via Innovative Electrocatalysis and Photocatalysis	P	D	D	D	A
Materials and Processes for Solar Energy	P	D			
Celebrating 50 Years of ExxonMobil's Corporate Strategic Research Laboratories: A View Forward from a Retrospective **		D			
Sci-Mix		E			
ENFL Plenary: Chemistry for New Frontiers of Sustainable Energy and Fuels			A		
Emerging Materials for Renewable Energy CNF			D	A	
Energy Materials in Fuel Conversion and Utilization			P	D	A

Division of Energy and Fuels
(continued)

ENFL

H. Lin, program chair

Orange County Convention Center	S	M	Tu	W	Th
Energy Storage in Chemical Bonds: Advances in Chemistry and Materials for Hydrogen Storage			P	D	
ENFL Poster Session			E		
Lower Alkane Activation and Conversion				D	A
New Frontiers in Petroleum Characterization, Transportation, Processing, Refining and Advanced Materials <i>CNF</i>				D	A
Advanced Functional Materials in Harsh Conditions for Environmental and Energy Applications				P	A
ENFL Distinguished Researcher Award: Symposium in Honor of Anne Gaffney				P	A
Data Science for Catalysis Research *(CATL)	D	A			
Computational Electrocatalysis *(CATL)	D	D			
Symposium in Honor of Chuck Peden's Research Career: Catalysis for Energy and the Environment *(CATL)	D	D			
Elucidation of Mechanisms and Kinetics on Surfaces *(CATL)	D	P	D		D
Frontiers in Catalysis for Energy and Sustainability *(CATL)		D	D		
Recent Advances in Plasma-Enhanced Catalysis *(CATL)		D			
Elucidating the Roles of Electric Fields in Catalysis *(CATL)			D	A	
Well-Defined Materials for Heterogeneous Catalysis: Synthesis, Characterization, and Performance Studies *(CATL)			D	D	D
Light-Driven Chemistry: Photoelectrochemistry and Photocatalysis *(CATL)			D	D	
Exploring the Frontiers of Chemistry through NASA Research *(COMSCI)			D		
Chemical Catalysis for Bioenergy Consortium: Addressing Deactivation during Biomass Conversion *(CATL)				D	A
Activation of Light (C ₁ -C ₄) Hydrocarbons: Theory and Experiments *(CATL)				D	P

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Division of Environmental Chemistry

ENVR

S. Obare, program chair

Orange County Convention Center	S	M	Tu	W	Th
Polymer Degradation Processes in Environmental Systems <i>CNF</i>	A				
Emerging Issues on and Horizon Technologies for Water Disinfection <i>CNF</i>	D	A	P		
Aquatic Photochemistry	D	D	P		
Abiotic and Biotic Pollutant Transformation in Soils	D		P		
Contributions of a Simple Chemist: How Professor Ronald Atlee Hites Changed Environmental Chemistry ** <i>CNF</i>	D		P		
Nanotechnology at the Water-Agriculture-Energy Nexus	D		P		
Science and the Perception of Climate Change <i>CNF</i>	P				
Micro- and Nano-Plastics in the Environment: Detection, Characterization, Fate and Impact <i>CNF</i>		A	P		
Environmental Chemistry Undergraduate Education in the Classroom, Laboratory, and Beyond		A			
Per- and Polyfluoroalkyl Substances in the Environment: From Legacy to Emerging Contaminants <i>CNF</i>		D	D		
Accurate Mass/High-Resolution Mass Spectrometry for Environmental Monitoring and Remediation		D	P		
Photocatalytic and Electrochemical Processes in Green Energy and Environmental Remediation: A Symposium in Honor of Professor Krishnan Rajeshwar <i>CNF</i>		P	D		
Research Experiences in Environmental Chemistry Projects for Undergraduate and Graduate Students		P	P		
Transdisciplinary Approaches to Sustainable Solutions at the Food-Energy-Water Nexus <i>CNF</i>		P	P		
Sci-Mix		E			
Great Achievements in ES&T: James J. Morgan Environmental Science and Technology Early-Career Award Symposium <i>CNF</i>			A		
Current Status of Environmental Research on Water Contaminants			D	D	
Applications and Implications of Nanomaterials and Their Toxic Effects			D		

Division of Environmental Chemistry (continued)**ENVR***S. Obare, program chair*

Orange County Convention Center	S	M	Tu	W	Th
When Chemistry Meets Biology: Novel Solutions for Emerging Challenges in Pollutant Control, Remediation and Resource Recovery CNF			D		
Photooxidation in Engineered and Natural Systems			D		
ACS Award for Creative Advances in Environmental Science and Technology CNF			P	A	
Uptake and Transformation of Contaminants of Emerging Concern in Plants CNF			P	A	
Electrochemical Water Treatment			P	D	A
Green Chemistry and the Environment			P	D	A
Innovative and Practical Approaches for the Treatment of Per- and Polyfluoroalkyl Substances (PFAS)			P	D	A
Combined Biological-Chemical Reactions for Contaminant Transformation CNF			P	P	
True Positives in EPA's Nontargeted Analysis Collaborative Trial (ENTACT) CNF			P	P	
Aqueous Contaminant Separation, Resource Recovery and Clean Energy Generation by Electrochemical Processes			P		A
Opioids and Their Impact on the Environment CNF			P		
General Posters			P		
Innovations, Advances, and Sustainability in Additive Manufacturing for Electrochemical, Energy, and Environmental Applications CNF				D	
Red Tide and Strategies for Detection, Remediation and Environmental Impact					A
Symposium in Honor of Chuck Peden's Research Career: Catalysis for Energy and the Environment *(CATL)	D	D			
Elucidation of Mechanisms and Kinetics on Surfaces *(CATL)	D	P	D		D
Recent Advances in Plasma-Enhanced Catalysis *(CATL)		D			
LGBTQ+ Graduate Student and Postdoctoral Scholar Research Symposium *(PROF)		D	P		
Undergraduate Research Posters *(CHED)		P			
Chemistry in Space: Future Directions *(YCC)		P			

Division of Environmental Chemistry (continued)**ENVR***S. Obare, program chair*

Orange County Convention Center	S	M	Tu	W	Th
Chemical Catalysis for Bioenergy Consortium: Addressing Deactivation during Biomass Conversion *(CATL)				D	A
Activation of Light (C ₁ -C ₄) Hydrocarbons: Theory and Experiments *(CATL)				D	P
Applications of Cheminformatics to Environmental Science *(CINF)				D	

Division of Fluorine Chemistry**FLUO***O. Boltalina, program chair*

Orange County Convention Center	S	M	Tu	W	Th
ACS Award for Creative Work in Fluorine Chemistry: Symposium in Honor of Norio Shibata	DE	D			
Chemistry in Space: Future Directions *(YCC)		P			

Division of Geochemistry**GEOC***N. Kabengi, program chair*

Orange County Convention Center	S	M	Tu	W	Th
Molecular Processes at Mineral-Water Interfaces: Predictions via Linking Theory and Experiments ** CNF	D	A		E	
Understanding Shale-Gas-Fluid Interactions for Water and Energy CNF	D				
General Geochemistry CNF		A		E	
2019 Geochemistry Division Medal Symposium in Honor of Everett Shock ** CNF		D			
Sci-Mix		E			
Chemical Transport and Remediation in Mining Legacy Sites CNF			D	A	
Planetary and Meteoritic Chemistry ** CNF			D	E	
Nanoparticles in Nature: Detection, Characterization, Origin and Formation Mechanisms **				A	
Environmental Interfaces under Nano-scale Confinement ** CNF				D	

Division of Geochemistry
(continued)

GEOC

N. Kabengi, program chair

Orange County Convention Center	S	M	Tu	W	Th
Mineral Crystallization, Aggregation and Dissolution <i>CNF</i>				DE	A
Microbial Interactions in Natural, Geological Processes and Their Application in Remediation of Contaminants				P	
Hydrocarbon-Water-Mineral Interactions in the Subsurface <i>CNF</i>				E	D
Carbon Dioxide Conversion and Utilization *(ENFL)	D	D	D	A	
New Frontiers in the Confluence of Experimental Thermodynamics, Structural Investigations and Theory/Computation *(PHYS)	D	P	A	D	D
LGBTQ+ Graduate Student and Postdoctoral Scholar Research Symposium *(PROF)		D	P		
Undergraduate Research Posters *(CHED)		P			
Chemistry in Space: Future Directions *(YCC)		P			

Division of the History of Chemistry

HIST

N. Tsarevsky, program chair

Orange County Convention Center	S	M	Tu	W	Th
Tutorial and General Papers	A			D	
Archaeological Chemistry	P	D			
Sci-Mix		E			
Pioneers of Magnetic Resonance			D		
Creating a Common Language for Chemistry: IUPAC's Past, Present and Future Roles *(CINF)		D			
Chemistry in Space: Future Directions *(YCC)		P			

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Division of Industrial and Engineering Chemistry

I & EC

C. Abney, R. Mayes, program chairs

Orange County Convention Center	S	M	Tu	W	Th
I&EC Fellow: Symposium in Honor of Nicholas Peppas	D				
ACS Award in Separations Science and Technology: Symposium in Honor of Sheng Dai	D				
2019 ACS Sustainable Chemistry and Engineering Lectureship Awards: Symposium in Honor of Paul Dauenhauer **		A			
I&EC Fellow: Symposium in Honor of Pete Nickias		D			
2019 ACS Sustainable Chemistry and Engineering Lectureship Awards: Symposium in Honor of Kevin Wu **		P			
I&EC International Fellow: Symposium in Honor of Tom Baker			D	A	
Critical Materials: Rare-Earth Elements			D		
ACS Award in Industrial Chemistry: Symposium in Honor of Guy R. Humphrey **			P		
I&EC General Posters **			E		
Celebrating 50 Years of ExxonMobil's Corporate Strategic Research Laboratories			E		
I&EC Early-Career Fellow: Symposium in Honor of Carter Abney				D	
Second Annual Joint Symposium of the Separations Subdivisions				P	A
I&EC General Papers **					A
Symposium in Honor of Chuck Peden's Research Career: Catalysis for Energy and the Environment *(CATL)	D	D			
Mechano- and Tribochemistry and Catalysis *(CATL)	D				
Celebrating 50 Years of ExxonMobil's Corporate Strategic Research Laboratories: A View Forward from a Retrospective *(ENFL)		D			
Industrial Innovations in Polymer Science *(POLY)		D			
LGBTQ+ Graduate Student and Postdoctoral Scholar Research Symposium *(PROF)		D	P		
Chemistry in Space: Future Directions *(YCC)		P			

Division of Industrial and Engineering Chemistry (continued)

I & E C

C. Abney, R. Mayes, program chairs

Orange County Convention Center	S	M	Tu	W	Th
Process Chemistry: New Developments in Pharmaceutical Process Development *(ORGN)			A		
ACS Sustainable Chemistry and Engineering: Symposium in Honor of Dr. Silvia Vignolini *(CELL)			A		
Light-Driven Chemistry: Photoelectrochemistry and Photocatalysis *(CATL)			D	D	
GSSPC: Artificial Molecular Machines and the Next Generation of Molecular Control *(CHED)			D		
Exploring the Frontiers of Chemistry through NASA Research *(COMSCI)			D		

Division of Inorganic Chemistry

I N O R

S. Koch, N. Radu, program chairs

Orange County Convention Center	S	M	Tu	W	Th
Chemistry of Materials	A	P	AE	D	D
Lanthanide and Actinide Chemistry	A		E		D
Main-Group Chemistry	A		E		P
Bioinorganic Chemistry	AE			P	P
Through the Lens of Inorganic Chemistry: Understanding Heterogeneous Processes in Energy Conversion and Storage	D	P	AE		
ACS Award in Organometallic Chemistry: Symposium in Honor of Alan S. Goldman	D	P			
F. Albert Cotton Award in Synthetic Inorganic Chemistry: Symposium in Honor of Jeffrey R. Long	D	P			
Structure-Property Correlations in Functional Inorganic Materials	DE	P	P		
Undergraduate Research at the Frontiers of Inorganic Chemistry	DE	P			
Harry Gray Award for Creative Work in Inorganic Chemistry by a Young Investigator: Symposium in Honor of Jillian L. Dempsey	DE	P			
National Fresenius Award: Symposium in Honor of Brandi Cossairt	P				

Division of Inorganic Chemistry (continued)

I N O R

S. Koch, N. Radu, program chairs

Orange County Convention Center	S	M	Tu	W	Th
ACS Award for Distinguished Service in the Advancement of Inorganic Chemistry: Symposium in Honor of Debbie C. Crans	PE	P	D		
ACS Award in Inorganic Chemistry: Symposium in Honor of George Christou	PE	P			
Functional Metal Nanostructures for Biomedical Applications	PE				
Alfred Bader Award in Bioinorganic or Bioorganic Chemistry: Symposium in Honor of Joan B. Broderick	E		D	A	
Coordination Chemistry	E		E	D	D
Organometallic Chemistry	E		PE	D	D
Inorganic Spectroscopy	E				A
Nanoscience	E				P
Francis P. Garvan-John M. Olin Medal: Symposium in Honor of Lisa McElwee-White	E		D	A	
ACS National Awards in Inorganic Chemistry: Plenary Session		A			
Chemistry at the Interface of Solution-Processed Inorganic Materials		P	DE	A	
Sci-Mix		E			
Nobel Laureate Signature Award for Graduate Education in Chemistry: Symposium in Honor of Bryan M. Hunter and Harry Gray			A		
Magnetism across Length Scales			D	D	D
Small-Molecule Activation for Oxidative and Reductive Catalysis			DE	A	
Mechanistic Studies of Inorganic Reactions: A Memorial Symposium for Elena Rybak-Akimova			DE	D	
Solid-State Inorganic Chemistry			PE		
Inorganic Catalysts			E	A	A
Environmental and Energy-Related Inorganic Chemistry			E	P	A
Electrochemistry			E		A
Innovative Chemistry and Materials for Electrochemical Energy Storage *(ENFL)	D	D	D	D	A
Elucidation of Mechanisms and Kinetics on Surfaces *(CATL)	D	P	D		D
Computational Methods in Lanthanide and Actinide Chemistry *(NUCL)	D				
Undergraduate Research Posters *(CHED)		P			

Division of Inorganic Chemistry
(continued)

I N O R

S. Koch, N. Radu, program chairs

Orange County Convention Center	S	M	Tu	W	Th
Light-Driven Chemistry: Photoelectrochemistry and Photocatalysis *(CATL)			D	D	
Exploring the Frontiers of Chemistry through NASA Research *(COMSCI)			D		
Applied Materials for New Frontiers: Ten Years of ACS Applied Materials and Interfaces *(MPPG)			D		
Chemical Catalysis for Bioenergy Consortium: Addressing Deactivation during Biomass Conversion *(CATL)				D	A
Activation of Light (C ₁ -C ₄) Hydrocarbons: Theory and Experiments *(CATL)				D	P

Division of Medicinal Chemistry

M E D I

J. Schwarz, program chair

Orange County Convention Center	S	M	Tu	W	Th
Small-Molecule Immunomodulators in Cancer	A				
General Orals	D			P	
Targeted Protein Degradation: A Small- Molecule Game-Changer for Medicine Discovery	P				
General Posters	E			E	
Synthetic Technologies to Enable Medicinal Chemistry		A			
Therapeutic Developments in Health Disparities		A			
Besides Off Rate: The Importance of On Rate and Target Rebinding		P			
Small-Molecule Therapeutics for Neuro- oncology		P			
Sci-Mix		E			
MEDI Awards Symposium **			A		
Recent Advances in Targeting Oncogenic KRAS			A		
Academic Drug Discovery			P		
Ions Count: Acids, Bases and Zwitterionics in Drug Design (Medicinal Chemists' Toolbox Series)			P		
Covalent Inhibition beyond Cysteine				A	
Exploring Cryptic Pockets				A	

Division of Medicinal Chemistry
(continued)

M E D I

J. Schwarz, program chair

Orange County Convention Center	S	M	Tu	W	Th
First-Time Disclosure of Clinical Candidates				D	
The Messy Business of Target (In) Validation: Chemistry's Role and Challenges in Early Discovery				P	
Wolfram Award *(CARB)	A				
Horton Award *(CARB)	A				
Metal-Mediated Reactions and Syntheses *(ORGN)	AE		P		
C-H Activation *(ORGN)	D			E	
Drug Discovery: Informatics Approaches *(CINF)	D				
Asymmetric Reactions and Syntheses *(ORGN)	P			PE	
Hudson Award *(CARB)	P				
Collaborations and Data Sharing in Rare and Orphan Disease Drug Discovery *(CINF)	P				
Gin New Investigator Award *(CARB)	P				
Isabell Award *(CARB)	P				
Nucleic Acid-Based Therapeutics *(CARB)		D			
LGBTQ+ Graduate Student and Postdoctoral Scholar Research Symposium *(PROF)		D	P		
Undergraduate Research Posters *(CHED)		P			
Chemistry in Space: Future Directions *(YCC)		P			
Heterocycles and Aromatics *(ORGN)			A	AE	
Peptides, Proteins and Amino Acids *(ORGN)			A	E	
Total Synthesis of Complex Molecules *(ORGN)				AE	A

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Division of Nuclear Chemistry and Technology

NUCL
A. Hixon, program chair

Orange County Convention Center	S	M	Tu	W	Th
Computational Methods in Lanthanide and Actinide Chemistry **	D				
Glenn T. Seaborg Award for Nuclear Chemistry: Symposium in Honor of Thomas E. Albrecht-Schmitt	P	D	A		
Young Investigators in Nuclear and Radiochemistry **			P		
Crosscutting Research in Environmental Radiochemistry and Nuclear Forensics				D	
General Topics in Nuclear Chemistry and Technology					D
LGBTQ+ Graduate Student and Postdoctoral Scholar Research Symposium *(PROF)		D	P		
Exploring the Frontiers of Chemistry through NASA Research *(COMSCI)			D		

Division of Organic Chemistry

ORGN
S. Silverman, E. McLaughlin, program chairs

Orange County Convention Center	S	M	Tu	W	Th
James Flack Norris Award in Physical Organic Chemistry	A				
Metal-Mediated Reactions and Syntheses	AE		P		
C-H Activation	D			E	
Opportunities and Challenges in Carbohydrates **	D				
New Reactions and Methodology	DE	D		D	A
Asymmetric Reactions and Syntheses	P			PE	
ACS Award for Encouraging Disadvantaged Students into Careers in the Chemical Sciences	P				
Photoredox Chemistry	E			P	
Biologically Related Molecules and Processes		A	E	A	
Ernest Guenther Award in the Chemistry of Natural Products		A			
Physical Organic Chemistry: Calculations, Mechanisms, Photochemistry and High-Energy Species		D	E		

Division of Organic Chemistry (continued)

ORGN
S. Silverman, E. McLaughlin, program chairs

Orange County Convention Center	S	M	Tu	W	Th
Innovative Green Chemistry: Striving toward Zero-Waste API Manufacturing	D				
ACS Award for Creative Work in Synthetic Organic Chemistry	P				
Successful Products and Models of Undergraduate-Based Research: Good Science, Better Scientists	P				
Sci-Mix	E				
Heterocycles and Aromatics			A	AE	
Peptides, Proteins and Amino Acids			A	E	
Elias J. Corey Award for Outstanding Original Contribution in Organic Synthesis by a Young Investigator			A		
Process Chemistry: New Developments in Pharmaceutical Process Development **			A		
Molecular Recognition and Self-Assembly			DE		
Herbert C. Brown Award for Creative Research in Synthetic Methods			P		
Chemistry for New Frontiers CNF			PE		
Flow Chemistry and Continuous Processes			E	P	
Materials, Devices and Switches			E		A
Carbon Allotropes and Nanomaterials			E		
Earle B. Barnes Award for Leadership in Chemical Research Management				A	
Total Synthesis of Complex Molecules				AE	A
Wolfrom Award *(CARB)	A				
Horton Award *(CARB)	A				
Hudson Award *(CARB)	P				
Gin New Investigator Award *(CARB)	P				
Isabell Award *(CARB)	P				
LGBTQ+ Graduate Student and Postdoctoral Scholar Research Symposium *(PROF)		D	P		
Opportunities and Challenges in Carbohydrate Synthesis B *(CARB)			D		
GSSPC: Artificial Molecular Machines and the Next Generation of Molecular Control *(CHED)			D		
ACS Award in Industrial Chemistry: Symposium in Honor of Guy R. Humphrey *(I&EC)			P		

Division of Physical Chemistry

PHYS

A. McCoy, program chair

Orange County Convention Center	S	M	Tu	W	Th
Frontiers in Vibrational Spectroscopy: Experiments and Theory <i>CNF</i>	A	D	A	P	D
Quantum Embedding Electronic Structure Methods **	D	A	A	D	D
Materials and Techniques to Advance Redox Flow Batteries <i>CNF</i>	D	A			
Sustainable Software for Computational Molecular Science **	D	D	A	D	D
Advances in Data Collection and Analysis of Biomolecular Structures **	D	D	A		
Structure and Dynamics of Electrolytes: From the Bulk to Interfaces	D	D		D	D
New Frontiers in the Confluence of Experimental Thermodynamics, Structural Investigations and Theory/ Computation ** <i>CNF</i>	D	P	A	D	D
Modeling Dynamics in Dense Manifolds of Electronic States **	P	D	A	P	D
Emerging Frontiers in Fluorescence Microscopy: From Single Molecules to Superresolution ** <i>CNF</i>		P	A	A	D
Sci-Mix		E			
Division of Physical Chemistry Award Symposium **			P		
From Lab Book to Journal Article: Insights from Editors on the Publication Process **				A	
Producing Equilibrium Amorphous Packings **				D	D
PHYS Poster Session				E	
Interdisciplinary Chemistry for New Frontiers in Biology and Medicine *(ANYL)	D	D	A		
Symposium in Honor of Chuck Peden's Research Career: Catalysis for Energy and the Environment *(CATL)	D	D			
Electron-Molecule and Molecule-Molecule Interactions *(COMP)	D	D			
Elucidation of Mechanisms and Kinetics on Surfaces *(CATL)	D	P	D		D
Advances in Methods for Comparing Molecular and Supramolecular Simulations to Experiments *(CATL)	D				
ACS Award in Surface Chemistry: Symposium in Honor of Hajo Freund *(COLL)		D	A		
ACS Award in Colloid Chemistry: Symposium in Honor of Naomi Halas *(COLL)		D	A		

Division of Physical Chemistry (continued)

PHYS

A. McCoy, program chair

Orange County Convention Center	S	M	Tu	W	Th
Recent Advances in Plasma-Enhanced Catalysis *(CATL)		D			
LGBTQ+ Graduate Student and Postdoctoral Scholar Research Symposium *(PROF)		D	P		
Elucidating the Roles of Electric Fields in Catalysis *(CATL)			D	A	
Light-Driven Chemistry: Photoelectrochemistry and Photocatalysis *(CATL)			D	D	
Planetary and Meteoritic Chemistry *(GEOC)			D	E	
GSSPC: Artificial Molecular Machines and the Next Generation of Molecular Control *(CHED)			D		
Exploring the Frontiers of Chemistry through NASA Research *(COMSCI)			D		
Activation of Light (C ₁ -C ₄) Hydrocarbons: Theory and Experiments *(CATL)				D	P
Model Catalysis and Materials Complexity Frontiers *(CATL)				D	
Young Chemist: Earth and Space *(YCC)				D	

Division of Polymer Chemistry

POLY

B. Helms, T. Epps, H. Brown, program chairs

Rosen Centre Hotel	S	M	Tu	W	Th
Polymer-Based Gene and Drug Delivery Systems <i>CNF</i>	D	D	AE		
Poly(2-oxazoline)s and Polypeptoids	D	D	E	D	A
Synthesis and Properties of Densely Grafted Polymers	D	P	E		
New Frontiers in Aerospace Polymers: Advances and Challenges in Experiments and Simulations ** <i>CNF</i>	D		DE	D	A
General Topics: New Synthesis and Characterization of Polymers	D		E	D	P
The Fate of Plastics in Water <i>CNF</i>	D				
ACS Award in Polymer Chemistry in Honor of Tim Swager	D				
ACS Award for Affordable Green Chemistry in Honor of Richard Gross		A			
Transport in Polymer Membranes		D	DE	D	D

Division of Polymer Chemistry (continued)

POLY
B. Helms, T. Epps, H. Brown, program chairs

Rosen Centre Hotel	S	M	Tu	W	Th
Excellence in Graduate Polymer Research** CNF		D	DE		
Industrial Innovations in Polymer Science ** CNF		D			
ACS Award in the Chemistry of Materials in Honor of Krzysztof Matyjaszewski		D			
Sci-Mix		E			
Carl S. Marvel Award for Creative Polymer Chemistry Award in Honor of Matt Becker **			D		
Polymer Bioconjugates for a Changing World ** CNF			DE	D	D
Undergraduate Research in Polymer Science			DE		
Dispersity in Block Copolymers: Synthesis, Characterization, Modeling and the Effects on Self-Assembly **			E	D	D
Polymers and Biomimicry			E	D	D
Antimicrobial and Cell-Penetrating Polymers *(PMSE)	D	D			
PolyEd: Incorporating Polymer Chemistry in Undergraduate and High School Curricula *(CHED)		D			
LGBTQ+ Graduate Student and Postdoctoral Scholar Research Symposium *(PROF)		D	P		
Undergraduate Research Posters *(CHED)	P				
Chemistry in Space: Future Directions *(YCC)		P			
Revamping Practical Chemistry Teaching for the New Frontier *(CHED)		E			
GSSPC: Artificial Molecular Machines and the Next Generation of Molecular Control *(CHED)			D		
Exploring the Frontiers of Chemistry through NASA Research *(COMSCI)			D		
Applied Materials for New Frontiers: Ten Years of ACS Applied Materials and Interfaces *(MPPG)			D		

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Division of Polymeric Materials: Science and Engineering

PMSE
C. Snyder, E. Harth, J. Schaefer, program chairs

Rosen Centre Hotel	S	M	Tu	W	Th
Multicomponent Block Polymer Systems	D	A			
Molecular Engineering of Interphases in Polymeric Materials: Advances in Experiments and Simulations	D	D	D	A	
Hybrid Functional Materials from Controlled Assembly of Polymer and Inorganic Nanoparticles	D	D	D	D	
Antimicrobial and Cell-Penetrating Polymers **	D	D			
General Papers: New Concepts in Polymeric Materials	D			P	A
ACS Award for Team Innovation: Symposium in Honor of Vivek M. Prabhu, Christopher L. Soles, Eric K. Lin and Wen-Li Wu	D				
Recent Trends in Polymer Photochemistry: From Molecular Design to Future Applications	P	D	D	A	
Molecular Engineering of Peptide Assemblies CNF	P	D	D	D	
Biomimetic Materials CNF		D	D		
ACS Award in Applied Polymer Science: Symposium in Honor of Shanti Swarup		D			
Materials for High-Performance Impact Mitigation: Design, Synthesis, Characterization and Validation CNF		P	D	D	
Sci-Mix		E			
Autonomous Processes, Chemomechanics and Active Matter Using Polymers and Soft Materials CNF			D	A	
Innovations in Polymer Crosslinking Technology			D	A	
PMSE-POLY Poster Session			E		
Cooperative Research Award: Symposium in Honor of Christopher Stafford, Edwin Chan, Michael Hickner, Coray Colina, James Sturnfield, Steven Rosenberg and Abhishek Roy				A	
PMSE-POLY Plenary Lecture and Awards Reception				E	
Interdisciplinary Chemistry for New Frontiers in Biology and Medicine *(ANYL)	D	D	A		
Innovative Chemistry and Materials for Electrochemical Energy Storage *(ENFL)	D	D	D	D	A
Poly(2-oxazoline)s and Polypeptoids *(POLY)	D	D	E	D	A

**Division of Polymeric Materials:
Science and Engineering
(continued)****PMSE***C. Snyder, E. Harth, J. Schaefer, program chairs*

Rosen Centre Hotel	S	M	Tu	W	Th
New Frontiers in Aerospace Polymers: Advances and Challenges in Experiments and Simulations *(POLY)	D		DE	D	A
LGBTQ+ Graduate Student and Postdoctoral Scholar Research Symposium *(PROF)		D	P		
Undergraduate Research Posters *(CHED)	P				
Revamping Practical Chemistry Teaching for the New Frontier *(CHED)		E			
Carl S. Marvel Award for Creative Polymer Chemistry Award in Honor of Matt Becker *(POLY)			D		
Exploring the Frontiers of Chemistry through NASA Research *(COMSCI)			D		
Applied Materials for New Frontiers: Ten Years of ACS Applied Materials and Interfaces *(MPPG)			D		
Dispersivity in Block Copolymers: Synthesis, Characterization, Modeling and the Effects on Self-Assembly *(POLY)			E	D	D
Producing Equilibrium Amorphous Packings *(PHYS)				D	D

**Division of Professional
Relations****PROF***R. Daniel Libby, program chair*

Hilton Orlando	S	M	Tu	W	Th
Leadership and Inclusive Excellence in STEM: Impact of Teacher-Scholars on Diversity**	P				
LGBTQ+ Graduate Student and Postdoctoral Scholar Research Symposium **		D	P		
Sci-Mix		E			
Wolfrom Award *(CARB)	A				
Issues Challenging Entrepreneurs and Start-Ups *(SCHB)	A				
Horton Award *(CARB)	A				
New Horizons: Early-Career Researchers in Renewable Materials: Symposium in Honor of the Kingfa and PhD Student Prize Winners *(CELL)	D	D			

**Division of Professional
Relations (continued)****PROF***R. Daniel Libby, program chair*

Hilton Orlando	S	M	Tu	W	Th
Contributions of a Simple Chemist: How Professor Ronald Atlee Hites Changed Environmental Chemistry *(ENVR)	D				
Chemical Angel Network *(BMGT)	P				
Hudson Award *(CARB)	P				
Starting a Successful Research Program at a PUI *(YCC)	P				
Strengthening Your Patent Rights in Light of Recent Federal Circuit Court Decisions *(CHAL)	P				
Gin New Investigator Award *(CARB)	P				
Isabell Award *(CARB)	P				
CINF Scholarships for Scientific Excellence: Student Poster Competition *(CINF)	E				
A Decade Later: The Death of Sheri Sangji as a Catalyst for a Change in Safety Culture *(CHAS)		A			
2019 Geochemistry Division Medal Symposium in Honor of Everett Shock *(GEOC)		A			
The Tenure Track and Beyond: Academic Career Perspectives from Young Chemists *(YCC)		A			
ACS Award for Research at an Undergraduate Institution: Symposium in Honor of Carol A. Parish *(COMP)		P	D		
Frank H. Field and Joe L. Franklin Award for Outstanding Achievement in Mass Spectrometry *(ANYL)		P			
2019 Geochemistry Division Medal Symposium *(GEOC)		P			
Chemistry in Space: Future Directions *(YCC)		P			
Beyond the Bench: Nontraditional Careers in Chemistry *(CHAL)		P			
Kathryn C. Hach Award for Entrepreneurial Success *(SCHB)		P			
ACS Award in Chromatography *(ANYL)			A		
ACS-CEI Award for Incorporation of Sustainability into Chemistry Education *(CHED)			A		
Bridging the (Safety) Gap between Academia and Industry *(PRES)			A		
ACS Award for Encouraging Women in the Chemical Sciences in Honor of Ruth Baltus *(WCC)			A		

Division of Professional Relations (continued)**PROF***R. Daniel Libby, program chair*

Hilton Orlando	S	M	Tu	W	Th
Patent Insights for Pharmaceutical Companies *(CHAL)			A		
ACS Award for Achievement in Research for the Teaching and Learning of Chemistry *(CHED)			D		
ACS Award for Computers in Chemical and Pharmaceutical Research in Honor of Arnie Hagler *(COMP)			D		
ACS Awards Lectures *(COLL)			P		
ACS Award in Analytical Chemistry *(ANYL)			P		
Improving Academic Safety Culture: Undergraduate and Graduate Student Leadership in Laboratory Safety *(CHAS)			P		
Eli Lilly Travel Awards 30th Anniversary Symposium *(WCC)			P		
Wiley Computers in Chemistry Outstanding PostDoc Award *(COMP)			E		

Rubber Division**RUBB**

Located with Primary Sponsor	S	M	Tu	W	Th
Revamping Practical Chemistry Teaching for the New Frontier *(CHED)		E			

Division of Small Chemical Businesses**SCHB***J. Sabol, program chair*

Hilton Orlando	S	M	Tu	W	Th
Issues Challenging Entrepreneurs and Start-Ups **	A				
Frontiers in Cybersecurity **	P				
Chemical Business Poster Session CNF	E				
Senior Chemists' Career Stories ** CNF		A			

*Cosponsored symposium with primary organizer shown in parentheses; located with primary organizer.

**Primary organizer of a cosponsored symposium.

CNF: Chemistry for New Frontiers

A = AM AE = AM/EVE P = PM D = AM/PM

E = EVE DE = AM/PM/EVE PE = PM/EVE

Division of Small Chemical Businesses (continued)**SCHB***J. Sabol, program chair*

Hilton Orlando	S	M	Tu	W	Th
C&EN's Start-Ups to Watch: Entrepreneurs Discuss Chemistry for New Frontiers CNF		A			
Kathryn C. Hach Award for Entrepreneurial Success **		P			
Sci-Mix		E			
Frontiers in Green Chemistry for Small Businesses ** CNF			D		
Global Entrepreneurship: Business at the Frontiers of Chemistry CNF				A	
Chemical Angel Network *(BMGT)	P				
Careers in Chemical Information *(CINF)	P				
ACS-A Place to Do Business *(BMGT)		P			

Committee on Chemical Safety**C C S***R. Stuart, program chair*

Located with Primary Sponsor	S	M	Tu	W	Th
Educating the Educators *(CHAS)	P				
A Decade Later: The Death of Sheri Sangji as a Catalyst for a Change in Safety Culture *(CHAS)		A			
The Chemistry of Disasters *(PRES)		P			
Bridging the (Safety) Gap between Academia and Industry *(PRES)			A		
Ask Doctor Safety about New Materials, Processes and Products *(CHAS)			P		
Improving Academic Safety Culture: Undergraduate and Graduate Student Leadership in Laboratory Safety *(CHAS)			P		

Committee on Community Activities**C C A***M. McGinnis, program chair*

Located with Primary Sponsor	S	M	Tu	W	Th
Fundamentals of Chemistry Outreach Education: From Program Design to Assessment *(CHED)				P	

Corporation Associates

C A

D. G. Schmidt, program chair

Located with Primary Sponsor	S	M	Tu	W	Th
Bridging the (Safety) Gap between Academia and Industry *(PRES)			A		

Committee on Environmental Improvement

C E I

C. Middlecamp, program chair

Located with Primary Sponsor	S	M	Tu	W	Th
Green and Sustainable Chemistry Theory and Practice: Chemistry for New Frontiers *(CHED)	P				
UN Sustainable Development Goals: Unique Opportunities for the Chemical Enterprise *(CHED)		P			
Undergraduate Research Posters *(CHED)		P			
ACS-CEI Award for Incorporation of Sustainability into Chemistry Education *(CHED)			A		
Frontiers in Green Chemistry for Small Businesses *(SCHB)			D		
Perspectives on Climate Change Literacy and Education: Local to International *(CHED)			P		

International Activities Committee

I A C

J. Breffke, program chair

Located with Primary Sponsor	S	M	Tu	W	Th
International Perspectives on Chemistry Education and Olympiads *(CHED)	A				

Committee on Local Section Activities

L S A C

J. Ritchie, program chair

Located with Primary Sponsor	S	M	Tu	W	Th
Fundamentals of Chemistry Outreach Education: From Program Design to Assessment *(CHED)				P	

Committee on Minority Affairs

C M A

J. Sarquis, program chair

Located with Primary Sponsor	S	M	Tu	W	Th
Here We Are: Leading and Emerging Black Chemists in Analytical Chemistry *(ANYL)	P				
LGBTQ+ Graduate Student and Postdoctoral Scholar Research Symposium *(PROF)		D			

Committee on Science

COMSCI

M. Fisher, program chair

Orange County Convention Center	S	M	Tu	W	Th
Exploring the Frontiers of Chemistry through NASA Research** CNF			D		
Emerging Frontiers in BIOT *(BIOT)	A	A		A	D

Senior Chemists Committee

S C C

T. Beattie, program chair

Located with Primary Sponsor	S	M	Tu	W	Th
Senior Chemists' Career Stories *(SCHB)		A			

Society Committee on Education

SOCED

S. Tremain, program chair

Orange County Convention Center	S	M	Tu	W	Th
Forensic Science: Innovative Applications of Chemistry CNF	A				
Eminent Scientist Lecture CNF		P			
Green Chemistry Student Chapters: Stories of Success *(CHED)		A			
Undergraduate Research Posters *(CHED)		P			
Successful Student Chapters *(CHED)		E			
Fundamentals of Chemistry Outreach Education: From Program Design to Assessment *(CHED)				P	

Committee on Technician Affairs**C T A***C. Libby, program chair*

Located with Primary Sponsor	S	M	Tu	W	Th
Strategies Promoting Success of Two-Year College Students *(CHED)	D				
Here We Are: Leading and Emerging Black Chemists in Analytical Chemistry *(ANYL)	P				
Analytical Division Poster Session *(ANYL)	E				
I&EC General Posters *(I&EC)			E		
Advances in Spectroscopy *(ANYL)				D	A
I&EC General Papers *(I&EC)					A

Women Chemists Committee**W C C***R. Cole, program chair*

Orange County Convention Center	S	M	Tu	W	Th
WCC Rising Star Award Symposium		P			
ACS Award for Encouraging Women in the Chemical Sciences in Honor of Ruth Baltus **			A		
Eli Lilly Travel Awards 30th Anniversary Symposium **			P		
LGBTQ+ Graduate Student and Postdoctoral Scholar Research Symposium *(PROF)		D	P		

Younger Chemists Committee**Y C C***D. Williams, M. Brann, J. Kelly, program chairs*

Orange County Convention Center	S	M	Tu	W	Th
Starting a Successful Research Program at a PUI **	P				
The Tenure Track and Beyond: Academic Career Perspectives from Young Chemists **		A			
Chemistry in Space: Future Directions **		P			
Young Chemist: Earth and Space ** <i>CNF</i>				D	
Extraterrestrial Organic Analysis: Past, Present and Future *(ANYL)	A	A			
Senior Chemists' Career Stories *(SCHB)		A			
LGBTQ+ Graduate Student and Postdoctoral Scholar Research Symposium *(PROF)		D	P		
Beyond the Bench: Nontraditional Careers in Chemistry *(CHAL)		P			
Bridging the (Safety) Gap between Academia and Industry *(PRES)			A		
Assessing Chemistry Outreach *(CINF)			P		
Young Investigators in Nuclear and Radiochemistry *(NUCL)			P		
Fundamentals of Chemistry Outreach Education: From Program Design to Assessment *(CHED)				P	

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