Undergraduate Program Guide
245th ACS National Meeting • New Orleans, LA

All Undergraduate Program events will take place in the Ernest N. Morial Convention Center

SUNDAY, APRIL 7

Undergraduate Hospitality Center
Hall A/Section C
8:30 a.m. – 5:00 p.m.
All undergraduates are invited to the hospitality center to grab breakfast and network with other chemical science students and ACS members. Career information and other free materials will also be available.

Making the Most of Your First ACS National Meeting
Hall A/Section C
9:00 – 9:45 a.m.
Students receive tips on how to get the most out of their national meeting experience — where to go, what to see, things to do — from experienced faculty and students.

Graduate School Reality Check, Step I: Getting in
Room 209/210
10:00 – 11:00 a.m.
A panel of graduate students, faculty, and university recruiters discuss how to select a graduate school and maximize their opportunity for being accepted. Co-sponsored by the ACS Younger Chemists Committee.

Graduate School Reality Check, Step II: You’re in – Now What?
Room 209/210
11:00 a.m. – 12:00 p.m.
A panel of graduate students, faculty, and university recruiters discuss how to have a successful graduate school experience and ultimately earn an MS, PSM, or Ph.D. Co-sponsored by the ACS Younger Chemists Committee.

Chem Demo Exchange
Hall E2/E3
11:00 a.m. – 12:30 p.m.
Student chapters share tips and demonstrate ways to incorporate ordinary household materials into educational hands-on demonstrations for use in outreach activities.

Networking Social with Graduate School Recruiters
Hall A/Section BC
11:00 a.m. – 4:00 p.m.
Students meet representatives from graduate schools who will share information about graduate programs in the chemical sciences and other related disciplines. Snacks will be served.

Technical Symposium: How to Become an Exemplary Teaching Assistant
Rivergate Ballroom
1:00 – 2:30 p.m.
Purdue University Professor George Bodner will discuss how best to share your love of chemistry as a graduate teaching assistant.

Technical Symposium: Computational Neuroscience Advances in Drug Abuse and Addiction
Room 344
1:00 – 2:30 p.m.
Several experts in the field share the latest advances in how the brain reacts to illegal pharmaceutical products.

Workshop Part I: Essential Skills for Success – Oral Presentation of Scientific Results
Room 206/207
2:45 – 4:00 p.m.
Sharing your discoveries through oral presentation is an essential skill. A panel of speaking experts will give tips for crafting an oral presentation to educate your audience.

Workshop Part II: Essential Skills for Success – Write Like a Chemist
Room 206/207
4:00 – 5:15 p.m.
Every chemist needs to write in order to share their discoveries. Get tips on how to improve your writing!

Making Demos Matter Workshop
Rivergate Ballroom
4:00 – 5:30 p.m.
Do your demos teach chemistry to your audience? Learn how to make your demos fun and educational in this workshop! Co-sponsored by ACS Kids & Chemistry.

Student Chapter Awards Ceremony
Hall A/Section D
7:00 – 8:30 p.m.
This annual ceremony honors chapters that have been recognized for their accomplishments during the 2011–2012 academic year.

Undergraduate Social
Hall A/Section A
8:30 a.m. – 11:00 p.m.
All undergraduates are invited to attend. There will be great food, music, and opportunities to network with members from other ACS student chapters.
MONDAY, APRIL 8

Undergraduate Hospitality Center
Hall A /Section C
8:00 a.m. – 5:00 p.m.
Career information and other materials will also be available. Grab breakfast and network with fellow undergraduates.

Chemists Celebrate Earth Day Outreach Ideas
Hall A /Section B
9:45 – 11:15 a.m.
The ACS Committee on Community Activities shares some of its best ideas on Earth Day events.

Understanding Climate Science: A Scientist's Responsibility
Room 206/207
8:30 – 11:30 a.m.
Learn about the web based Climate Science Tool Kit and how it can assist you in communicating with the public.
Sponsored by PRES

Workshop: Employment in Chemistry – Academics, Industry, Small Business and Government
Room R05
9:45 – 11:15 a.m.
A panel of experienced chemists from industry, academia, and government share their experience, tips for finding employment, and news on the current employment outlook. Learn from those who work in the field!

Undergraduate Research Poster Session
Hall D
12:00 – 2:30 p.m.
Undergraduate students will present research posters.
Co-sponsored by ACS Divisions of Agricultural and Food Chemistry; Analytical, Biological, Environmental Chemistry; Geochemistry; and Inorganic, Medicinal, Physical, and Polymer Chemistry

Eminent Scientist Lecture:
Kendall Houk, UCLA
Room 344
3:00 – 4:00 p.m.
Kendall Houk, Saul Winstein Chair in Organic Chemistry at the University of California, Los Angeles, will share his experiences with “Computation and Collaboration for Chemical Discovery.”

Undergraduate Speed Networking with Chemistry Professionals
Hall A /Section A
4:00 – 5:30 p.m.
Students can meet and network with a large number of professional chemists in a fast-paced environment. A variety of chemical fields will be represented. Number of participants will be limited, so arrive early!
Hosted by ACS Corporation Associates. Co-sponsored by the Senior Chemists Committee

The Kavli Foundation Lecture
La Nouvelle Orleans Ballroom/Section C
5:30 – 6:30 p.m.
Dr. Daniel G. Nocera will share his research concerning “The Artificial Leaf.”

Sci-Mix/ Successful Student Chapter Poster Session
Hall D
8:00 – 10:00 p.m.
Successful student chapters will showcase their activities and the event will also feature divisional posters and other exhibits.

TUESDAY, APRIL 9

Water: A Grand Challenge for Science and Society
Rivergate Ballroom
8:30 – 11:00 a.m.
We regularly hear about the challenges much of the world faces in accessing clean and safe water. Speakers will emphasize the opportunities for those in the chemical enterprise to address these challenges.
Sponsored by PRES

Chemistry and the Environment Film Series: Shattered Sky
Room R09
12:00 noon – 2:00 p.m.
In the 1970s and 80s, the hole in the ozone layer was addressed with America leading the way. This documentary explores that historic act and challenges Congress to do the same with climate change. Speak to the filmmaker!
Cosponsored by the Committee on Environmental Improvement

All events are sponsored or co-sponsored by the Society Committee on Education Undergraduate Programs Advisory Board
Chair: Matthew Mio, University of Detroit Mercy, Detroit, MI.
Program Chair: Jeffrey D. Evanseck, Duquesne University, Pittsburgh, PA.
For more information, contact the ACS Undergraduate Programs Office at 1-800-227-5558, ext. 4480, or go to www.acs.org/undergrad.

Scan here for more information on the 245th ACS National Meeting!
Meet the Eminent Scientist Speaker

Dr. Kendall Houk
Professor of Chemistry
Saul Winstein Chair in Organic Chemistry

Professor Kendall Houk is a Professor of Chemistry and the Saul Winstein Chair in Organic Chemistry at the University of California, Los Angeles. Houk is widely recognized as an authority on theoretical organic chemistry and his group is involved in developments of rules to understand reactivity, computer modeling of complex organic reactions, and experimental tests of the predictions of theory.

Professor Houk received his A.B. (1964), M.S. (1966), and Ph.D. (1968) degrees at Harvard 1990 from the University of California, Davis. Houk began work as a Professor for Louisiana State University in 1976 through 1980. Houk joined the faculty at the University of Pittsburgh in 1980, and moved to UCLA to work as a Distinguished Professor in 1987.

Houk is accredited as a Fellow of the American Academy of Arts and Sciences, the American Association for the Advancement of Science, and of the WATOC. Houk has published over 600 articles in refereed journals and was one of the Top 100 Cited Chemists in the period 1981-1997. Additionally, Houk was the 2003 Recipient of the ACS Computers in Chemical and Pharmaceutical Research Award. Currently, Houk is the Director of the UCLA Chemistry-Biology Interface Training Program and Chair of the AAAS Chemistry Section. Houk’s most recent research has investigated antibody-catalyzed reactions, the quantitative modeling of asymmetric reactions used in synthesis, and the molecular dynamics and reactions of hemicarcerands and other host-guest complexes.

Reprinted largely from the UCLA Chemistry Department page at http://www.chem.ucla.edu/dept/Faculty/houk/biosketch.html
245th ACS National Meeting Information

On-site Registration

To register on-site in New Orleans, visit the ACS Attendee Registration Area in the Great Hall at the Morial Convention Center. On-site registration hours will be:

- Saturday, 3:00 p.m. – 6:00 p.m.
- Sunday, 7:30 a.m. – 7:30 p.m.
- Monday, 7:30 a.m. – 9:30 p.m.
- Tuesday, 7:30 a.m. – 5:30 p.m.
- Wednesday, 7:30 a.m. – 5:30 p.m.
- Thursday, 7:30 a.m. – 1:00 p.m.

Your ACS student member number is required at the start of the registration process in order to receive the ACS undergraduate rate. By completing an application, you can become a student member. After you receive your student member number, you can register online for the national meeting.

<table>
<thead>
<tr>
<th>Registration Fee</th>
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<tbody>
<tr>
<td>Student Member</td>
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<tr>
<td>Undergraduate Student</td>
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(non-member)

Special Services

Tips for a Safe Stay

- Attendees should be aware of their surroundings at all times.
- Don’t wear your meeting badge outside the convention center or hotels.
- Don’t wear fancy jewelry or carry expensive technology in plain sight.
- Carry your briefcase, tote bag, purse, or laptop carrier close to your body.
- Don’t leave valuables in your hotel room. Get a hotel safe deposit box.
- Walk in open and in well-lit areas at night.
- Travel in groups. Don’t be a loner, particularly in the evening.
- Use common sense. If someone or someplace looks suspicious, report it and/or avoid it.
- If an emergency occurs during a meeting event, refer to detailed instructions placed by ACS staff inside each meeting room to follow in case of emergencies. Report emergencies to the nearest security guard or to any ACS Operations Office during the meeting.
- If an emergency occurs outside an ACS event, contact police or emergency assistance by dialing 911 or seeking assistance from the facility where the emergency occurs.
- Should a catastrophic event occur while the meeting is under way, follow safety and security instructions issued by the facility where you are located at the time of the event.

BARRIER-FREE MEETING/SPECIAL SERVICES. The society is dedicated to ensuring that no individual with a disability is excluded, denied services, segregated, or otherwise treated differently due to the absence of auxiliary aids and services identified in the Americans with Disabilities Act (ADA). If you require special accommodations to participate in the meeting, communicate your needs to ACS Meeting Services (e-mail: nationalmeetings@acs.org; fax: (202) 872-4410; or TDD: (202) 872-4557). Keep in mind that ACS may not be able to accommodate last-minute requests. If you have an emergency or need immediate assistance during the meeting, contact any ACS Operations Office.
Other Events of Interest at the 245th ACS National Meeting

Meeting Info on the Web

View the most up-to-date listing of social and special events at http://www.acs.org/neworleans2013

Housing and Transportation

Find the most up-to-date hotel details, local maps, transportation in View the most up-to-date listing of social and special events at http://www.acs.org/neworleans2013.

Social and Special Events

A VARIETY of social and special events will be held by event organizers during the meeting. Event participation is open to all interested registrants. View an updated listing of social and special events at http://www.acs.org/neworleans2013

The following social events require purchase of a ticket (in red), which can be purchased through Attendee Registration. Tickets will remain on sale until the evening prior to the event, if available. All tickets are sold on a first-come, first-served basis. Cancellations or refund requests must be made by March 22, 2013. No tickets will be refunded after that date.

Map of event locations available here.

SUNDAY, APRIL 7
- Green Chemistry: Theory & Practice, 1:30 – 4:25 p.m., Morial Convention Center Room: R01
- The Chemistry of Energy and Food, 3:30 – 6:20 p.m., Morial Convention Center Ballroom C
- Food and Its Environment: What is in What We Eat?, 8:30 – 11:50 a.m., New Orleans Downtown Marriott Room: Julia
- CO2 Capture, Sequestration, Conversion & Utilization, 8:30 a.m. – 4:45 p.m., Morial Convention Center, Rm. 210
- The Hydrogen Economy Is Fueled by Small Businesses, 10:00 – 11:40 a.m., DoubleTree by Hilton New Orleans Room: Crescent B
- Ask Dr. Safety: Dealing with Especially Hazardous Materials, 3:15 – 5:25 p.m. Morial Convention Center, Room: 237
- ACS Career Fair, 9:00 a.m. – 5:30 p.m. Morial Convention Center, Hall B1

MONDAY, APRIL 8
- Sustainable Energy, Food Risk, & Emerging Pollutants: Expect the Unexpected, 8:00 – 11:25 a.m., New Orleans Downtown Marriott at the Convention Center, Room: Blaine Kern B
- Hot Research Topics and Career Paths for Younger Chemists 8:00 - 11:00 a.m. Hilton Garden Inn Convention Center Room: Camelia
- From Benchtop to Business: Energy Solutions for a Green Future 8:55 a.m. – 12:05 p.m., Morial Convention Center Room: R01
- Vision 2025: How to Succeed in the Global Chemistry Enterprise 9:00 – 11:50 a.m., Morial Convention Center Rivergate Ballroom
- Algae, Biofuels, & CO2, 1:15 – 4:45 p.m., DoubleTree by Hilton New Orleans Room Crescent B
- The Analytical Chemistry of the Deepwater Horizon Spill, 8:30 – 11:25 a.m., New Orleans Downtown Marriott Room Julia
- Food for Thought: Alternative Careers in Chemistry, 1:15 – 5:15 p.m., Morial Convention Center Room 350
- CO2 Capture, Sequestration, Conversion & Utilization, 8:30 a.m. – 4:45 p.m., Morial Convention Center Room 219
- ACS Career Fair, 8:00 a.m. – 5:00 p.m. Morial Convention Center, Hall B1

TUESDAY, APRIL 9
- Ethics Programs in Corporations and Institutions, 8:00 a.m. – 12:05 p.m., Morial Convention Center Room: 205
- True Stories of Success from Chemical Entrepreneurs, 8:00 – 11:50 a.m., DoubleTree by Hilton New Orleans Room Crescent B
- Chemistry of the Bar 8:30 a.m. – 4:00 p.m., DoubleTree by Hilton New Orleans, Room Nottoway A/B
- Beyond the Bench: Non-Traditional Careers in Chemistry, 1:30 – 3:40 p.m., Morial Convention Center, Room 208
- Something’s Brewing in the Bayou, 3:00 – 5:00 p.m., DoubleTree by Hilton New Orleans, Room Crescent B
- Women Chemists of Color in Industry, 1:00 – 4:25 p.m., Morial Convention Center Room: 205
- ACS Career Fair, 8:00 a.m. – 5:30 p.m. Morial Convention Center, Hall B1

WEDNESDAY, APRIL 10
- Advanced Nanoscale & Membrane Technologies in Energy and Food Production, 8:30 – 11:35 a.m., New Orleans Downtown Marriott at the Convention Center Room Blaine Kern B
- Young Investigators in Medical Chemistry, 8:30 – 11:35 a.m., Morial Convention Center Room R08/R09
- Advanced Materials for Clean Energy, 8:15 – 12 noon, Hilton Riverside, Room Grand Salon C15
- Biofuels: Current Issues & Environmental Implications, 1:30 – 8:00 p.m., DoubleTree by Hilton
- Collaborative Drug Discovery for Neglected Diseases, 1:30 – 5:35 p.m., Morial Convention Center, Room: 357
- Food and Its Environment: What is in What We Eat?, 6:00 – 8:00 p.m., New Orleans Downtown Marriott Room Julia
Other Events of Interest at the 245th ACS National Meeting

**ACS Career Fair**
Morial Convention Center- Hall B1

Hours of Operation: Sunday, April 7, 9:00 a.m. – 5:30 p.m.; Monday, April 8, 8:00 a.m. to 5:00 p.m.; Tuesday, April 9, 8:00 a.m. to 5:30 p.m.

Virtual Career Fair: April 8-9

The Career Fair and Virtual Career Fair provide ACS members the opportunity to meet with employers and discuss potential employment positions, as well as enhance their own professional development by participating in mock interviews, resume reviews, and attend over 30 career-oriented workshops. The Career Fair is open to ACS members. Moreover, the Virtual Career Fair eliminates geographical barriers, enabling job seekers and employers to connect with each other no matter where they are. Interviews and informal discussions take place in virtual booths via text or video chat. Additionally, job seekers can schedule time with ACS career consultants for one-on-one consultations and attend live events via webcast.

To schedule interviews with potential employers at the Career Fair, you must first create an account before the national meeting at [www.acs.org/careers](http://www.acs.org/careers). At this site, you may also upload your resume and search and apply for jobs by field of specialization, work function, location, etc. and request interviews.

**ACS Career Workshops**

**SUNDAY, APRIL 7**
Careers in Industry—Part I, 8:30 to 10:30 a.m.
Acing the Interview, 8:30 a.m. to 12:30 p.m.
Finding Your Path, 8:30 a.m. to 12:30 p.m.
Foreign-National Scientist: Obtaining a Job In the U.S., 9:00 to 10:30 a.m.
Patents & Intellectual Property, 10:45 a.m. to noon
Careers in Industry—Part II, 10:45 a.m. to 12:45 p.m.
Careers in Higher Education—Part I, 1:15 to 3:15 p.m.
Electronic Tools To Enhance Your Job Hunt, 1:30 to 3:00 p.m.
Acing the Interview, 1:30 to 5:30 p.m.
Careers in Government, 1:30 to 5:30 p.m.
Writing Excellent Proposals, 3:30 to 5:00 p.m.
Careers in Higher Education—Part II, 3:30 to 5:30 p.m.

**MONDAY, APRIL 8**
Careers in Higher Education—Part I, 8:30 to 10:30 a.m.
Careers in Government, 8:30 a.m. to 12:30 p.m.
Working for Yourself, 8:30 a.m. to 12:30 p.m.
Careers in Higher Education—Part II, 10:45 a.m. to 12:45 p.m.
Careers in Industry—Part I, 1:15 to 3:15 p.m.
Acing the Interview, 1:30 to 5:30 p.m.
Finding Your Path, 1:30 to 5:30 p.m.
Careers in Industry—Part II, 3:30 to 5:30 p.m.

**TUESDAY, APRIL 9**
Careers in Industry—Part I, 8:30 to 10:30 a.m.
Acing the Interview, 8:30 a.m. to 12:30 p.m.
Finding Your Path, 8:30 a.m. to 12:30 p.m.
Careers in Industry—Part II, 10:45 a.m. to 12:45 p.m.
Careers in Higher Education—Part I, 1:15 to 3:15 p.m.
Careers in Government, 1:30 to 5:30 p.m.
Working for Yourself, 1:30 to 5:30 p.m.
Careers in Higher Education—Part II, 3:30 to 5:30 p.m.

**WEDNESDAY, APRIL 10**
Careers in Industry—Part I, 8:30 to 10:30 a.m.
Acing the Interview, 8:30 a.m. to 12:30 p.m.
Finding Your Path, 8:30 a.m. to 12:30 p.m.
Careers in Industry—Part II, 10:45 a.m. to 12:45 p.m.
Communication Tools

Meeting Information on the Web

View the most up-to-date listing of social and special events at www.acs.org/neworleans2013.

Meeting Mail

This communications tool enables meeting registrants to exchange personal messages with other registered attendees using e-mail before, during, and after the meeting.

Online Social Networking

Start discussions and connect with other attendees on:

- The ACS Reactions Blog (www.acs.org/undergradblog)
- ACS Undergraduate Student Facebook Group
- C&ENtral Science blog posts about ACS meetings
- Twitter @ACSUndergrad (#ACSNOLA)

Food and Restaurants

ACS Undergraduate Program Events

Hungry and on a tight budget? The Undergraduate Program events listed below offer free food to participants!

Sunday, April 7

- Continental Breakfast: 8:00 – 9:00 a.m. Undergraduate Hospitality Center
- Snacks: 5:00 – 6:00 p.m. Networking Social with Graduate School Recruiters
- Snacks: 8:30 – 11 p.m. Undergraduate Social

Monday, April 8

- Continental Breakfast: 8:00 – 9:00 a.m. Undergraduate Hospitality Center
- Popcorn: noon – 2:30 p.m. Undergraduate Poster Session
- Snacks: 4:00 – 5:30 p.m. Undergraduate Speed Networking Session

Recommendations from yelp.com

$ – under $10/plate
$$ – $10–$20 per plate
$$$ – over $20/plate

$ Ernst Café – 600 S Peters St. - Grab some delicious and non-fussy Creole grub and relax in this 1902 restaurant.
$ Johnny’s PoBoys – 511 Saint Louis St. - Enjoy the favorite sandwich of New Orleans, the Po Boy.
$$ Acme Oyster House – 724 Iberville St. - From fresh to chargrilled, the world literally is your oyster at this establishment.
$$ Napoleon House Café – 500 Charles St. This European-style café offers an assortment of sandwiches, gumbos and more.
$$$ Cochon – 930 Tchoupitoulas St. - Diners are able to select from an array of house made meats which are cooked to order
Transportation Information

AIRLINE AND AUTO DISCOUNTS

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

**AIRCRAFTS:**
- **American Airlines:** [http://aa.com](http://aa.com); (800) 433-1790; Promotion code: 8643BY
- **Delta:** [http://delta.com](http://delta.com); (800) 328-111; Meeting event code: NMEZF (U.S.), NMF26 (International)
- **United Airlines:** [http://united.com](http://united.com); (800) 426-1122; Offer code: ZNVA937265

**RENTAL CARS:**
- **Avis:** [http://avis.com](http://avis.com); (800) 331-1600; AWD code: B923099
- **Dollar Rent A Car** [http://dollar.com](http://dollar.com); (800) 800-4000; Corporate #: CM2379
- **Hertz:** [http://hertz.com](http://hertz.com); (800) 654-2240; Convention number: 02UZ0012

**TRAIN:**
- **Amtrak** amtrak.com; (800) 872-7245
  Reference code: X15N-965 (for phone reservations only)

AIRPORT GROUND TRANSPORTATION.

A ground transportation desk is located in each baggage claim area to assist travelers.

**Public Transportation (bus).** The E2 Airport Route picks up outside door 7 on the upper level near the Delta counter. The fare is $2.00. Route E2 provides service from the airport to the Central Business District on weekdays only between 5:37 AM and 6:14 PM; it takes approximately 35 minutes. For more information about public transit in the area, visit jeffersontransit.org (route E2), or norta.com (downtown New Orleans transportation).

**Rental Cars.** Rental offices are on the lower level in the airport. Please make reservations in advance. ACS discount codes are available for three companies (see above).

**Shuttle Service.** Shuttle service is available from the airport to the Central Business District for $20 per person, one-way, or $38 per person, round-trip. There is a three bag per person limit. Ticket booths are located on the lower level in the baggage claim area. For more information or to make a reservation, visit airportshuttleneworleans.com or call (504) 522-3500.

**Taxi.** Taxi service is available outside the baggage claim area. Taxi fare is $33 from the airport to the Central Business District for one or two passengers and $14 per person for three or more passengers. There may be an additional charge for extra baggage. Taxis are required to offer a credit card payment option.

TRAVELING TO MEETING VENUES

The New Orleans Ernest N. Morial Convention Center is located at 900 Convention Center Blvd., New Orleans, LA 70130.

**ACS Shuttle.** Complimentary shuttle service will be provided between the New Orleans Ernest N. Morial Convention Center and official ACS hotels, with the exception of hotels within walking distance. Buses will run from 7 AM to 11 PM from Sunday to Wednesday and 7 AM to 6 PM on Thursday. Buses will run approximately every 15 to 30 minutes. Visit the meeting website for a route map and to download the shuttle schedule.

If you require wheelchair access or for any other inquiries, please call (800) 523-4046 to schedule.

**Parking.** Daily parking is limited and expensive in downtown New Orleans. You should contact your hotel to inquire about daily parking policies and fees.

GETTING AROUND THE CITY

**Walking.** The New Orleans Ernest N. Morial Convention Center and ACS hotels are conveniently located in the Central Business District of New Orleans. Do your part to reduce our environmental impact by walking to ACS properties.

**New Orleans Regional Transit Authority (RTA).** New Orleans has an accessible public transportation system. You can take an RTA bus or one of the city’s famed streetcars, which travel the Riverfront and Canal Street, for $1.25. To learn more about the bus and streetcar routes and schedule, visit norta.com.