



ACS NATIONAL MEETING

254th ACS National Meeting

Washington, D.C., August 20–24

“Chemistry’s Impact on the Global Economy” will be the theme in Washington, D.C., this August. Many notable symposia are scheduled, including “Building a Safety Culture Across the Chemical Enterprise” and “Working in the Public Sector: Running for Elected Office.” ACS President Allison A. Campbell will lead an invitation-only ACS Chemistry on the Hill Advocacy Workshop to help younger chemists learn to engage with Congress on Sunday morning, Aug. 20.

Campbell will host 29 technical divisions and five committees in original programming over 1,035 half-day oral sessions and 146 poster sessions, including Sci-Mix. More than 9,370 papers and 2,720 posters will be presented at the meeting.

In concert with the meeting theme, Campbell will sponsor several presidential

events. “Science Communications: The Art of Developing a Clear Message” on Sun., Aug. 20, will help members learn to clearly communicate research. On Tuesday, Aug. 22, “Understanding the Chemistry of Our Planet” will highlight the importance of chemistry to life on Earth. Details on these and other presidential events can be found at www.acs.org/dc2017.

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

The exposition will feature more than 250 companies showcasing services, instruments, books, and lab equipment in more than 300 booths.—ALEXANDRA TAYLOR

Technical program summary

General meeting information

Registration	64
Ticketed events	65
Accommodations	66
ACS greener meetings	67
Travel & transportation	67
ACS member services	68
On-site meeting arrangements	71
Speaker instructions	73
Abstracts & preprints	73
Registration form	82

Special & educational events

Presidential events	74
Student & teacher activities	74
Workshops	75

ACS Career Navigator

ACS Career Fair	77
ACS Short Courses	78
ACS leadership courses	78
Exposition	79

Governance meetings

Board & council meetings	79
Committee agenda	79

MEETING INFO ON THE WEB

www.acs.org/dc2017

Presidential Events

PRES

A. Campbell, Program Chair

Marriott Marquis Washington, DC/ Walter E. Washington Convention Center	S	M	Tu	W	Th
Science Communications: The Art of Developing a Clear Message**	P				
Building a Safety Culture across the Chemistry Enterprise**		D			
Understanding the Chemistry of Our Planet**			D		
Advancing Graduate Education: Opportunities & Challenges* (CHED)	D				
The Road Less Traveled: Career Opportunities in the Government Sector* (YCC)	P				
Sustaining Water Resources: Environmental & Economic Impact* (MPPG)		A			
Biomass to Fuels & Chemicals: Research, Innovation & Commercialization* (ENFL)		D	D		
Chemistry in an Evolving Political Climate: Research Priorities & Career Pathways in Public Policy* (YCC)		D			
Working in the Public Sector: Running for Elected Office* (SCHB)		P			
ACS Pharma Leaders: Working Together to Make a Difference* (MPPG)		P			
Transformative Research & Excellence in Education Award* (COMSCI)		P			
Ladies in Waiting for Nobel Prizes: Overlooked Accomplishments of Women Chemists* (HIST)			D		
GSSPC: Standing on the Shoulders of Giants—Developing Chemistries for Improved Global Health* (CHED)			D		
Journey to Mars: Materials, Energy & Life Sciences* (POLY)			DE	D	
Earle B. Barnes Award for Leadership in Chemical Research Management: Symposium in Honor of Laurie E. Locascio* (ANYL)			P		

Multidisciplinary Program
Planning Group (continued)

MPPG

N. Jackson, Program Chair

Walter E. Washington Convention Center	S	M	Tu	W	Th
2017 C&EN Talented 12**		A			
The Fred Kavli Innovations in Chemistry Lecture		P			
The Kavli Foundation Emerging Leader in Chemistry Lecture		P			
ACS Pharma Leaders: Working Together to Make a Difference**		P			
Nano Commercialization: Views from the Front		P			
ChemRxiv: Publishing in the Age of Preprint Servers: A Joint CSR-ACS Symposium			A		
Merck Research Award Symposium* (WCC)	A				
Biomass to Fuels & Chemicals: Research, Innovation & Commercialization* (ENFL)		D	D		
Journey to Mars: Materials, Energy & Life Sciences* (POLY)			DE	D	
Monitoring Water Quality & Infrastructure to Prevent Future Flints* (ENVR)			P	E	
Economic Impact of Environmental Health Research: A Case Study of the NIEHS Superfund Research Program* (ENVR)				DE	

Academic Employment Initiative

A E I

C. Kuniyoshi, N. Bakowski, Program Chairs

Walter E. Washington Convention Center	S	M	Tu	W	Th
Academic Employment Initiative		E			

Multidisciplinary Program
Planning Group

MPPG

N. Jackson, Program Chair

Walter E. Washington Convention Center	S	M	Tu	W	Th
Chemistry's Impact on the Global Economy Plenary Session	P				
Sustaining Water Resources: Environmental & Economic Impact**		A			

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

**Primary organizer of a cosponsored symposium.

CIGE: Chemistry's Impact on the Global Economy
A = AM AE = AM/EVE D = AM/PM DE = AM/PM/EVE
E = EVE P = PM PE = PM/EVE

Division of Agricultural & Food Chemistry**AGFD***B. Guthrie, Program Chair*

Walter E. Washington Convention Center	S	M	Tu	W	Th
From Fermentation to Fume Hood: The Chemistry of Wine <i>CIGE</i>	D	A			
Food Additives & Packaging	D	D			
Link between Dietary Inputs, Stressors & the Gut Microbiome: Military Perspective	D				
Entrepreneurs in the Agriculture & Food Industries **	P				
General Posters	E				
Food Safety & Labeling: Food & Flavor Regulations, Progress & Challenges in the Pursuit to Serve the Consumer **		D	D		
Impact of Carbonyl & Glycative Stress on Diabetic & Aging-Related Diseases **		D			
General Papers		P			D
Sci-Mix		E			
Journal of Agricultural & Food Chemistry Best Paper Award & Young Scientist Award Symposium **			A		
Advancing Analytical Methods in Food Forensics & Authentication **			D	D	
Advances in Flavor Analysis **			D		
AGFD Award Symposium in Honor of Ronald E. Wrolstad			P		
Food-Borne Toxicants: Formation, Analysis & Toxicology <i>CIGE</i>				D	A
Natural Alternatives to Artificial Food Additives				D	
Nanoscale Sensing in Foods & Other Complex Media **					D
Analysis of Nutrients & Bioactive Compounds in Foods & Dietary Supplements: Methodologies & Challenges for Databases					P
Green Polymer Chemistry: Biobased Materials & Biocatalysis * (POLY)	D	D	D	D	D
Recent Advances toward the Bioeconomy * (CELL)	D				
Preparing for Employment in a Global Workforce * (IAC)	P				
Undergraduate Research Posters * (CHED)		P			
Biological Targets of Botanical Supplements * (TOXI)		P			

Division of Agrochemicals**AGRO***S. Jackson, Program Chair*

Renaissance Washington, DC Downtown	S	M	Tu	W	Th
Advances in Residue Analytical Methods: Innovation, Current Status & Future Prospects **	A				
Mechanistic Modeling & Effectiveness of Buffer Strips for Pesticide Regulatory Frameworks	A				
Risk Assessment & Beyond: Innovative Approaches to Meet FIFRA & ESA Consultation Needs	A				
Roles of Natural Products for Biorational Pesticides in Agriculture	D	A			
Environmental Fate, Transport & Modeling of Agriculturally Related Chemicals **	P	A			
Pesticides, Pollinator Health & Agricultural Sustainability	P	A			
Veterinary Drugs: Research, Residues & Regulations	P	A			
Agrochemical Formulations **	P				
Managing Pesticide Use & Use Data		D	A		
Advances in Insecticide Mode of Action, Chemistry & Resistance		P	D		
Atmospheric Fate & Transport of Agricultural Emissions **		P	D		
2,4-D Human Exposure Data: Lessons from Decades of Study **		P			
Fate & Metabolism of Agrochemicals: Early Career Scientist		P			
Sci-Mix		E			
Application of Spatial Technologies to Advance Exposure Modeling & Risk Assessments **			A		
Sterling Hendricks Memorial Lecture Award			A		
Pesticide Registration, Monitoring & Enforcement			D		
Advanced Techniques for Isolation, Identification & Quantitation of Ag-Pharma-Relevant Compounds from Biological Samples			P		
Tiered Testing for Pollinator Protection: Experiences in Design, Implementation & Interpretation			P		

**Division of Agrochemicals
(continued)****AGRO***S. Jackson, Program Chair*

Renaissance Washington, DC Downtown	S	M	Tu	W	Th
Emerging Mass Spectrometry Trends in Support of Agricultural Research & Development				A	
Analytical, Environmental & Regulatory Challenges with Legalized Cannabis **				A	
Biorational Control of Medical & Veterinary Pests				D	D
AGRO Memorial Symposium: Remembering Bob Krieger & Richard Allen				D	
Developing Pesticide Environmental Risk Assessment Approaches **				D	
Communicating Pesticide Science to the Public <i>CIGE</i>				P	D
Advances in Analysis of Agriculturally Important Chemicals				P	
Environmental Fate of Agrochemicals				P	
Good Laboratory Practices for the Agrochemical Professional **				P	
Pesticide Use & Regulatory Issues				P	
Assessing Human & Ecosystem Health Risks of Agrochemicals				P	
Discoveries in the Chemistry of Pest Control				P	
Pollinators, Pesticides & Risk Assessment				P	
Species Habitat Determination & Chemical Exposure Routes & Timing					A
Synthesis & Chemistry of Agrochemicals **					D
Current Regulatory & Scientific Landscape of Mixture Toxicity & Risk Assessment					P
Ecological & Human Health Impacts of Emerging Environmental Contaminants * (ENVR)	D	A		E	
Measurements & Methods in Environmental Nanotechnology * (ENVR)		D		E	
<i>Journal of Agricultural & Food Chemistry</i> Best Paper Award & Young Scientist Award Symposium * (AGFD)			A		
Changes in Chemical Risk Assessment under Amended TSCA: Approaches & Implementation * (ENVR)				DE	A
Advances in Environmental Analytical Methods for EPA Compliance Reporting & Exposure Risk Assessment * (ENVR)				E	A

**Division of Agrochemicals
(continued)****AGRO***S. Jackson, Program Chair*

Renaissance Washington, DC Downtown	S	M	Tu	W	Th
Nanoscale Sensing in Foods & Other Complex Media * (AGFD)					D

Division of Analytical Chemistry**ANYL***K. Phinney, L. Baker, Program Chairs*

Grand Hyatt Washington	S	M	Tu	W	Th
Advances in Spectroscopy Applied to Biological & Materials Chemistry	A				
Analytical Toxicology in the 21st Century **	A				
Pigments, Coatings & Paper	A				
Nanotechnology & Single-Cell Analysis in Biology & Medicine **	D	D			
New Approaches to Teaching: Strategies, Instrumentation, Standards **	D				
Analytical Chemistry in the Context of Cultural Heritage **	P	D			
Bispecific Antibody Therapeutics	P				
Oxidative Stress & Antioxidants: Measurement Tools & Analytical Challenges **	P				
Analytical Techniques Used to Address FDA Regulatory Questions & Challenges	E	D	D		
Analytical Division Poster Session	E				
Advances in Electrochemistry		D			
Self-Assembly & Noncovalent Interactions: The Fundamental Science of Supramolecular Materials **		D			
Sci-Mix		E			
ANYL Division Award Symposium			A		
Characterization of Macromolecules & Nanoparticles by Hyphenated Separation Approaches			A		

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

**Primary organizer of a cosponsored symposium.

CIGE: Chemistry's Impact on the Global Economy
 A = AM AE = AM/EVE D = AM/PM DE = AM/PM/EVE
 E = EVE P = PM PE = PM/EVE

**Division of Analytical Chemistry
(continued)**

ANYL

K. Phinney, L. Baker, Program Chairs

Grand Hyatt Washington	S	M	Tu	W	Th
Developments in ICP/MS: Advancing Environmental & Clinical Analyses			D		
Nanotechnology: Fabrication, Applications & Impact			D		
Advances in Multidimensional Separations			P		
Earle B. Barnes Award for Leadership in Chemical Research Management: Symposium in Honor of Laurie E. Locascio**			P		
Advances in Analytical Forensic Chemistry & Toxicology**				A	
Decentralized Medicine: Diagnostics in the 21st Century				A	
Graduate Fellows Symposium				A	
Instrumentation & Methods to Characterize Nanomaterials Critical to the Global Economy				D	
Nanopores, Nanopipettes & Nanocapillaries as Tools for Analytical Chemistry				D	
Label-Free Assay of Oncogenic Biomolecules (mRNA, microRNA, Aptamers & Proteins)			P		D
Advances in Separations				P	
Chemical Tools to Quantify the Tumor Microenvironment				P	
Advances in Nanosensors & Terahertz: Current Applications & Future Direction for the 21st Century					A
New Separation Technologies That Advance & Support Bioanalyses					A
Recent Advances in Stationary Phase Design in Liquid Chromatography					A
Advances & Applications of Imaging Mass Spectrometry					P
Advances in Mass Spectrometry					P
Measurements & Methods in Environmental Nanotechnology* (ENVR)		D		E	
Undergraduate Research Posters* (CHED)		P			
Trace Organic Contaminants (TrOCs) in Aquatic Systems: Advancements in Monitoring & Remediation* (ENVR)			A	E	

**Division of Analytical Chemistry
(continued)**

ANYL

K. Phinney, L. Baker, Program Chairs

Grand Hyatt Washington	S	M	Tu	W	Th
Advancing Analytical Methods in Food Forensics & Authentication* (AGFD)			D	D	
GSSPC: Standing on the Shoulders of Giants—Developing Chemistries for Improved Global Health* (CHED)			D		
Advances in Flavor Analysis* (AGFD)			D		
Journey to Mars: Materials, Energy & Life Sciences* (POLY)			DE	D	
Advanced Mass Spectrometric Techniques in Toxicology* (TOXI)				P	
Chemistry in the Age of Cheap Computing* (CHED)					A
Nanoscale Sensing in Foods & Other Complex Media* (AGFD)					D

**Division of Biochemical
Technology**

BIOT

M. O'Malley, V. Roy, Program Chairs

Located with Primary Sponsor	S	M	Tu	W	Th
Recombinant Type Materials* (PMSE)			D	D	
Undergraduate Research Posters* (CHED)		P			

Division of Biological Chemistry

BIOL

L. Hedstrom, S. Kelley, Program Chairs

Walter E. Washington Convention Center	S	M	Tu	W	Th
Repligen Award for the Chemistry of Biological Processes	A				
Gordon Hammes Award Lecture	P				
Mitochondrial Chemical Biology	P				
Eli Lilly Award in Biological Chemistry		A			
Early-Career Investigators in Biological Chemistry**		P	P		
Midcareer Investigators in Biological Chemistry		P		A	
Sci-Mix		E			
Pfizer Award in Enzyme Chemistry			A		
Graduate Student & Postdoctoral Fellow Symposium**			P	P	D

**Division of Biological Chemistry
(continued)****BIOL***L. Hedstrom, S. Kelley, Program Chairs*

Walter E. Washington Convention Center	S	M	Tu	W	Th
Current Topics in Biochemistry			E		
ACS Infectious Diseases Young Investigators Award Symposium **				A	
Chemical Biology of Infectious Disease				P	
Merck Research Award Symposium * (WCC)	A				
Experimental & Computational Advances in Understanding Enzyme Specificity & Promiscuity * (PHYS)	D	D	P	A	
Nanotechnology & Single-Cell Analysis in Biology & Medicine * (ANYL)	D	D			
Science Communications: The Art of Developing a Clear Message * (PRES)	P				
Many Colors of Copper * (INOR)		D	DE	D	
Impact of Carbonyl & Glycative Stress on Diabetic & Aging-Related Diseases * (AGFD)		D			
Building a Safety Culture across the Chemistry Enterprise * (PRES)		D			
Chemistry in an Evolving Political Climate: Research Priorities & Career Pathways in Public Policy * (YCC)		D			
Undergraduate Research Posters * (GHED)		P			
Transformative Research & Excellence in Education Award * (COMSCI)		P			
Trace Organic Contaminants (TrOCs) in Aquatic Systems: Advancements in Monitoring & Remediation * (ENVR)			A	E	
Informatics & Chemical Biology: Identifying Targets & Biological Pathways * (CINF)			A		
Cross-Link DNA Repair * (TOXI)			A		
Understanding the Chemistry of Our Planet * (PRES)			D		
Memorial Symposium Honoring Justine Roth: Oxygen & Isotope Effects in Mechanisms, from Enzymes to Small Molecules * (INOR)			P		
Impact of Materials, Surface Chemistry & Modifications on Biofilm Formation in Environmental Remediation & Engineering Applications * (ENVR)				DE	D

**Division of Business
Development & Management****BMGT***J. Cohen, Program Chair*

Marriott Marquis Washington, DC	S	M	Tu	W	Th
Chemical Angel Network: Chemists Investing in Chemical Companies **	P				
Fostering a Quality Culture in Research & Development **				A	
Biomass to Fuels & Chemicals: Research, Innovation & Commercialization * (ENFL)		D	D		
Building a Safety Culture across the Chemistry Enterprise * (PRES)		D			
How to Get Your First Industrial Job * (YCC)				A	
GSSPC: Standing on the Shoulders of Giants—Developing Chemistries for Improved Global Health * (CHED)			D		
Understanding the Chemistry of Our Planet * (PRES)			D		
Journey to Mars: Materials, Energy & Life Sciences * (POLY)			DE	D	

**Division of Carbohydrate
Chemistry****CARB***N. Snyder, Program Chair*

Grand Hyatt Washington	S	M	Tu	W	Th
Glycomimetics as Antibiotic-Sparing Therapeutics for Infectious Disease **	D				
Carbohydrate-Based Vaccines & Adjuvants **	D				
General Posters	E				
Derek Horton Award in Industrial Carbohydrate Chemistry		A			
Frontiers in Carbohydrate Synthesis **		P			
Sci-Mix		E			
Advances in Glycan Structure & Dynamics **			D	D	
Recent Advances toward the Bioeconomy * (CELL)	D				

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

**Primary organizer of a cosponsored symposium.

CIGE: Chemistry's Impact on the Global Economy

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

E = EVE P = PM PE = PM/EVE

Division of Carbohydrate Chemistry (continued)**CARB***N. Snyder, Program Chair*

Grand Hyatt Washington	S	M	Tu	W	Th
Science Communications: The Art of Developing a Clear Message* (PRES)	P				
Sustainable Design of Polymers from Xylochemicals* (CELL)		A			
Building a Safety Culture across the Chemistry Enterprise* (PRES)		D			
Chemistry in an Evolving Political Climate: Research Priorities & Career Pathways in Public Policy* (YCC)		D			
Understanding the Chemistry of Our Planet* (PRES)			D		

Division of Catalysis Science & Technology**CATL***K. Ramasamy, Program Chair*

Walter E. Washington Convention Center	S	M	Tu	W	Th
Catalytic Transformation of Renewable Plant Biomass to Enhance Global Economy** <i>CIGE</i>	D	A			A
Mixed-Metal-Oxide Catalysis	D	A			
Cooperative Catalysis at Surfaces & Interfaces: Impact on Chemistry & Energy Frontiers** <i>CIGE</i>	D	D	A		
Metal-Support Interactions in Catalysis: Modeling, Characterization & Design	D	D	A		
Advanced Electrocatalysis for Energy Conversion & Storage <i>CIGE</i>	D	D			
Catalysis at the Subnanometer Scale	D				
2017 ACS Catalysis Lectureship for the Advancement of Catalytic Science		A			
Emerging Catalytic Processes for Methane Conversion** <i>CIGE</i>	P	A			
Advances in Computational Catalysis <i>CIGE</i>	P	D	D		
2016 ACS Catalysis Lectureship for the Advancement of Catalytic Science: Honoring Matthias Beller		P			
Sci-Mix		E			
Multimodal Characterization of Functional Energy Materials**			D	D	
New Paradigm for Catalyst Design: From Enzymatic Function to Functional Mimics <i>CIGE</i>			D	D	

Division of Catalysis Science & Technology (continued)**CATL***K. Ramasamy, Program Chair*

Walter E. Washington Convention Center	S	M	Tu	W	Th
Vehicle Emission Control Catalysis: New Era, New Challenges & New Solutions** <i>CIGE</i>			P	D	
Nanoporous Materials for Catalysis in Global Economy <i>CIGE</i>			P	D	
Advances in Carbon Dioxide Utilization**			P	D	
General Catalysis			E		A
Energy & Fuels Storch Award in Fuel Science: Symposium in Honor of Umit S. Ozkan* (ENFL)	D	D			
Electrochemical Technologies for Water Purification* (ENVR)	D			E	
Environmental Applications of Liquid-Phase Catalysis for Green Chemical Processes of Renewable Materials* (ENVR)	P	A		E	
Nano-Enabled Water Treatment Technologies: Applications & Implications* (ENVR)		P	D	E	
Heterogeneous Catalysis for Environmental & Energy Applications* (ENVR)		P		E	
Eminent Scientist Lecture* (SOCED)		P			
Intellectual Property Considerations When Entering into a Joint Venture* (CHAL)		P			
Green Chemistry & the Environment* (ENVR)				DE	

Division of Cellulose & Renewable Materials**CELL***M. Roman, Program Chair*

Grand Hyatt Washington	S	M	Tu	W	Th
Recent Advances toward the Bioeconomy**	D				
General Posters	E				
Sustainable Design of Polymers from Xylochemicals**		A			
Sci-Mix		E			
Green Polymer Chemistry: Biobased Materials & Biocatalysis* (POLY)	D	D	D	D	D

Division of Cellulose & Renewable Materials (continued)

CELL

M. Roman, Program Chair

Grand Hyatt Washington	S	M	Tu	W	Th
Carbohydrate-Based Vaccines & Adjuvants* (CARB)	D				
Science Communications: The Art of Developing a Clear Message* (PRES)	P				
Building a Safety Culture across the Chemistry Enterprise* (PRES)		D			
Chemistry in an Evolving Political Climate: Research Priorities & Career Pathways in Public Policy* (YCC)		D			
Frontiers in Carbohydrate Synthesis* (CARB)		P			
Advances in Glycan Structure & Dynamics* (CARB)			D	D	
GSSPC: Standing on the Shoulders of Giants—Developing Chemistries for Improved Global Health* (CHED)			D		
Understanding the Chemistry of Our Planet* (PRES)			D		
Green Polymer Chemistry: Biobased Materials & Biocatalysis* (POLY)			E		
Advances in Lignin: Chemicals, Polymers & Materials* (POLY)					A

Division of Chemical Education

CHED

D. Wicht, B. Rios McKee, I. Levy, Program Chairs

Grand Hyatt Washington	S	M	Tu	W	Th
Research in Chemistry Education	A				
Advancing Graduate Education: Opportunities & Challenges**	D				
High School Program**	D				
Undergraduate Research Papers**	P				
General Posters	E				
General Papers		A		D	
Putting CER into Practice: Using Chemistry Education Research to Inform Teaching Strategies		D			

Division of Chemical Education (continued)

CHED

D. Wicht, B. Rios McKee, I. Levy, Program Chairs

Grand Hyatt Washington	S	M	Tu	W	Th
Using Computational Methods to Teach Chemical Principles		D			
Engaging Undergraduates with Raman Spectroscopy		P			
Materials That Impact Our Daily Lives & the Global Economy: Bring Practical Applications into the Chemistry Classroom**		P			
Undergraduate Research Posters**		P			
Successful Student Chapters		E			
Sci-Mix		E			
Increasing Retention of Underrepresented Students in Chemistry**			A		
Innovations in Undergraduate Biochemistry Education			A		
GSSPC: Standing on the Shoulders of Giants: Developing Chemistries for Improved Global Health**			D		
Advances in E-Learning			P		
Metacognition in Chemistry Education: Connecting Research & Practice**			P		
Green Chemistry: Theory & Practice**				A	
Integration of STEM & the Liberal Arts				A	
Games & Active Learning Techniques to Help Students Understand Chemistry				P	
Process-Oriented Guided Inquiry Learning (POGIL)				P	
Assessment Instruments for the ACS-Accredited Degree Program					A
Chemistry in the Age of Cheap Computing**					A
Citizens First!**					A

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

**Primary organizer of a cosponsored symposium.

CIGE: Chemistry's Impact on the Global Economy

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

E = EVE P = PM PE = PM/EVE

**Division of Chemical Education
(continued)****CHED***D. Wicht, B. Rios McKee, I. Levy, Program Chairs*

Grand Hyatt Washington	S	M	Tu	W	Th
New Approaches to Teaching: Strategies, Instrumentation, Standards* (ANYL)	D				
The Nons: Non-Tenure-Track Faculty in a Changing Academic Landscape* (WCC)	P				
Collaborating for Success: Professional Skills Development for Undergraduates, Graduates & Postdocs* (CINF)		D			
Chemistry in an Evolving Political Climate: Research Priorities & Career Pathways in Public Policy* (YCC)		D			
Chemistry & Culture: How Native American Chemists Impact Their Community* (CMA)		P			
Fostering a Quality Culture in Research & Development* (BMGT)				A	

Division of Chemical Health & Safety**CHAS***D. Decker, J. Pickel, F. Wood-Black, Program Chairs*

Walter E. Washington Convention Center	S	M	Tu	W	Th
Soft Skills in Training & Interactions**	P				
Division of Chemical Health & Safety Awards**	P				
Cannabis Processing: Innovations & Legal Protections**		P			
Sci-Mix		E			
Chemophobia: Communicating Chemistry**			A		
Building a Safety Culture across the Chemical Enterprise* (PRES)			P	A	
Emerging Trends in Research Operations**				D	
Building a Safety Culture across the Chemistry Enterprise**		D			
Analytical, Environmental & Regulatory Challenges with Legalized Cannabis* (AGRO)				A	

Division of Chemical Information**CINF***E. Alvaro, Program Chair*

Washington Marriott at Metro Center	S	M	Tu	W	Th
Open Structures: Current Issues & Future Plans	D				
What Do Synthetic Chemists Want from Their Reaction Systems? **	D				
CINF Scholarships for Scientific Excellence: Student Poster Competition	E				
Government(-Funded) Chemical Databases & Open Chemistry		D		D	
Collaborating for Success: Professional Skills Development for Undergraduates, Graduates & Postdocs** <i>CIGE</i>		D			
Sci-Mix		E			
Informatics & Chemical Biology: Identifying Targets & Biological Pathways**			A		
Markush 360: Current & Future of Generic Structures in Chemical Patent Creation, Search & Analysis			A		
Herman Skolnik Award Symposium			P		
Why Open Data? Effective Use Cases & Exemplars for Open Data & Citizen Science			P		
Drug Discovery: Cheminformatic Approaches**				D	
General Papers					A
Science Communications: The Art of Developing a Clear Message* (PRES)	P				
Building a Safety Culture across the Chemistry Enterprise* (PRES)		D			
Chemistry in an Evolving Political Climate: Research Priorities & Career Pathways in Public Policy* (YCC)		D			
<i>Journal of Agricultural & Food Chemistry</i> Best Paper Award & Young Scientist Award Symposium* (AGFD)			A		
Understanding the Chemistry of Our Planet* (PRES)			D		
Drug Design* (COMP)				D	A

Division of Chemical Toxicology

TOXI

T. Spratt, Program Chair

Marriott Marquis Washington, DC	S	M	Tu	W	Th
Chemical Research in Toxicology Young Investigators Award	A				
Founders' Award	P				
TOXI Young Investigators **		A			
Biological Targets of Botanical Supplements **		P			
Sci-Mix		E			
Cross-Link DNA Repair **			A		
Toxicological Considerations in Antibody-Drug Conjugate Design & Development **			P		
General Posters			E		
Keynote Lecture			E		
General Papers				A	
Advanced Mass Spectrometric Techniques in Toxicology **				P	
Analytical Toxicology in the 21st Century * (ANYL)	A				
Advances in Analytical Forensic Chemistry & Toxicology * (ANYL)				A	

Division of Chemistry & the Law

CHAL

K. Bianco, J. Kennedy, Program Chairs

Walter E. Washington Convention Center	S	M	Tu	W	Th
Strengthening Your Patent Rights in Light of Recent Federal Circuit Court Decisions	P				
Recent Developments Regarding Post-Grant Challenges at the U.S. Patent & Trademark Office		A			
Intellectual Property Considerations When Entering into a Joint Venture **		P			
Sci-Mix		E			
Patent Specification Requirements: What's in Common & What's Different in the U.S., Europe & Southeastern Asia? **			A		
Beyond the Bench: Careers in Intellectual Property **			P		
The Many Faces of CHAL: Where Chemistry Meets the Law				D	

Division of Chemistry & the Law
(continued)

CHAL

K. Bianco, J. Kennedy, Program Chairs

Walter E. Washington Convention Center	S	M	Tu	W	Th
Ecological & Human Health Impacts of Emerging Environmental Contaminants * (ENVR)	D	A		E	
Changes in Chemical Risk Assessment under Amended TSCA: Approaches & Implementation * (ENVR)				DE	A
Advances in Environmental Analytical Methods for EPA Compliance Reporting & Exposure Risk Assessment * (ENVR)				E	A

Division of Colloid & Surface Chemistry

COLL

R. Nagarajan, Program Chair

Walter E. Washington Convention Center	S	M	Tu	W	Th
Responsive, Programmable Assembly of Active Colloids for Functional Materials <i>CIGE</i>	D	A	A	A	
Basic Research in Colloids, Surfactants & Nanomaterials <i>CIGE</i>	D	D	A	D	A
Colloidal Metal & Semiconductor Nanostructures: Theory, Synthesis & Application <i>CIGE</i>	D	D	A	D	
Emulsions, Foams & Dispersions: Symposium in Honor of Dominique Langevin at 70 <i>CIGE</i>	D	D			
Self-Assembly of Synthetic & Biological Surfactants: Translating Fundamentals to Applications <i>CIGE</i>	D	D			
Nanotheranostics for Cancer Applications	D				
Noble-Metal Nanoparticles for Bioimaging, Sensing & Actuation <i>CIGE</i>	D				
Fundamental Research in Colloids, Surfaces & Nanomaterials <i>CIGE</i>	E				
Targeted Nanosystems for Therapeutic Applications: New Concepts, Dynamic Properties, Efficiency & Toxicity		D	A	D	A

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

**Primary organizer of a cosponsored symposium.

CIGE: Chemistry's Impact on the Global Economy
A = AM AE = AM/EVE D = AM/PM DE = AM/PM/EVE
E = EVE P = PM PE = PM/EVE

Division of Colloid & Surface Chemistry (continued)

COLL

R. Nagarajan, Program Chair

Walter E. Washington Convention Center	S	M	Tu	W	Th
Photoresponsive Nanoparticles: From Fundamentals of Excitation to Applications	D	A	D	A	
Sci-Mix	E				
In Situ Investigation of Energy Systems Using Ambient-Pressure X-Ray Photoelectron Spectroscopy			A	D	A
Bioconjugate Chemistry Lecturer Award Symposium			A		
Langmuir Lectures, <i>Nano Letters</i> Award Lecture, <i>ACS Materials & Interfaces</i> Award Lecture			P		
Frontier of the Interface of Materials & Biology: Click Chemistry Approaches to Bio-Inspired Materials <i>CIGF</i>				D	A
Multimodal Imaging with Colloids				D	A
Nanotechnology & Single-Cell Analysis in Biology & Medicine * (ANYL)	D	D			
Oxidative Stress & Antioxidants: Measurement Tools & Analytical Challenges * (ANYL)	P				
Science Communications: The Art of Developing a Clear Message * (PRES)	P				
Self-Assembly & Noncovalent Interactions: The Fundamental Science of Supramolecular Materials * (ANYL)			D		
Building a Safety Culture across the Chemistry Enterprise * (PRES)			D		
Chemistry in an Evolving Political Climate: Research Priorities & Career Pathways in Public Policy * (YCC)			D		
Transformative Research & Excellence in Education Award * (COMSCI)			P		
GSSPC: Standing on the Shoulders of Giants—Developing Chemistries for Improved Global Health * (CHED)			D		
Understanding the Chemistry of Our Planet * (PRES)			D		
Journey to Mars: Materials, Energy & Life Sciences * (POLY)			DE	D	
Nanoscale Sensing in Foods & Other Complex Media * (AGFD)					D

Division of Computers in Chemistry

COMP

H. Woodcock, J. Shen, M. Feig, Program Chairs

Washington Marriott at Metro Center	S	M	Tu	W	Th
ACS COMP Symposium in Honor of Peter Pulay**	D	A			
Extending Accuracy & Scales with Emerging Computing Architectures & Algorithms**	D	D	D		
Molecular Recognition: Revealing the Effects Associated with Receptor-Ligand Binding**	D	D	D		
Computational Studies of Water	D				
Modeling & Measuring Protein-Ligand Kinetics & Residence Times		D	A		
Emerging Technologies in Computational Chemistry		P			
Sci-Mix		E			
New Directions in Conformational Sampling Methods			A		
Material Science			P	D	A
Quantum Mechanics			P	D	A
Computational Studies of Membranes & Membrane-Bound Systems**			P	D	
Chemical Computing Group Graduate Student Travel Awards			E		
Poster Session			E		
NVIDIA GPU Award			E		
OpenEye Outstanding Junior Faculty Award			E		
Wiley Computers in Chemistry Outstanding Postdoc Award			E		
Drug Design**				D	A
Molecular Mechanics**				D	A
Merck Research Award Symposium * (WCC)	A				
Electronic Structure Methods for Complex Chemical Systems* (PHYS)	D	D	D		
Experimental & Computational Advances in Understanding Enzyme Specificity & Promiscuity* (PHYS)	D	D	P	A	
What Do Synthetic Chemists Want from Their Reaction Systems?* (CINF)	D				
Undergraduate Research Posters* (CHED)		P			
Transformative Research & Excellence in Education Award * (COMSCI)		P			

Division of Computers in Chemistry (continued)

COMP

H. Woodcock, J. Shen, M. Feig, Program Chairs

Washington Marriott at Metro Center	S	M	Tu	W	Th
Drug Discovery: Cheminformatic Approaches* (CINF)				D	

Division of Energy & Fuels

ENFL

D. Heldebrant, Program Chair

Walter E. Washington Convention Center	S	M	Tu	W	Th
Energy & Fuels Joint Award for Excellence in Publication	A				
Solar Energy & Solar Cells	D	A			
Advanced Nanomaterials Catalysts for Sustainable Energy & Fuels	D	D	D		
Carbon Management: Advances in Carbon Efficiency, Capture, Conversion, Utilization & Storage	D	D			
Energy & Fuels Storch Award in Fuel Science: Symposium in Honor of Umit S. Ozkan ** CIGE	D	D			
Ammonia Economy**	D				
Innovative Chemistry & Materials for Electrochemical Energy Storage	P	D	D	D	A
Biomass to Fuels & Chemicals: Research, Innovation & Commercialization**		D	D		
Advances in Chemistry of Energy & Fuels		P	D	D	A
Two-Dimensional Materials for Energy & Fuels		P	D	D	A
Sci-Mix		E			
Innovative Chemistry & Electrocatalysis for Low-Carbon Energy & Fuels: Discovery to Application			D	D	
Advanced Chemical Technology for Oil & Gas Exploration & Production				D	A
5th International Symposium on Mesoporous Zeolites**				D	
Catalytic Transformation of Renewable Plant Biomass to Enhance Global Economy* (CATL)	D	A			A
Cooperative Catalysis at Surfaces & Interfaces: Impact on Chemistry & Energy Frontiers* (CATL)	D	D	A		

Division of Energy & Fuels (continued)

ENFL

D. Heldebrant, Program Chair

Walter E. Washington Convention Center	S	M	Tu	W	Th
Recent Advances toward the Bioeconomy* (CELL)	D				
Environmental Applications of Liquid-Phase Catalysis for Green Chemical Processes of Renewable Materials* (ENVR)	P	A		E	
Emerging Catalytic Processes for Methane Conversion* (CATL)		P	A		
Transformative Research & Excellence in Education Award* (COMSCI)		P			
Intellectual Property Considerations When Entering into a Joint Venture* (CHAL)		P			
Multimodal Characterization of Functional Energy Materials* (CATL)			D	D	
Vehicle Emission Control Catalysis: New Era, New Challenges & New Solutions* (CATL)			P	D	
Advances in Carbon Dioxide Utilization* (CATL)			P	D	

Division of Environmental Chemistry

ENVR

J. Goldfarb, Program Chair

Renaissance Washington, DC Downtown	S	M	Tu	W	Th
Environmental, Social & Economic Impacts of Aged/Transformed Nanomaterial-Enabled Consumer Products	A			E	
Ecological & Human Health Impacts of Emerging Environmental Contaminants**	D	A		E	
Iron & Manganese Oxides: Their Formation, Structure, Reactivity & Applications	D	A		E	
Electrochemical Technologies for Water Purification**	D			E	
Surface Chemistry of Biochar & Its Applications in Environmental & Related Systems	D			E	

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

**Primary organizer of a cosponsored symposium.

CIGE: Chemistry's Impact on the Global Economy
 A = AM AE = AM/EVE D = AM/PM DE = AM/PM/EVE
 E = EVE P = PM PE = PM/EVE

Division of Environmental Chemistry (continued)

ENVR

J. Goldfarb, Program Chair

Renaissance Washington, DC Downtown	S	M	Tu	W	Th
Environmental Applications of Liquid-Phase Catalysis for Green Chemical Processes of Renewable Materials**	P	A		E	
Advances in Chemical Oxidation for Water & Wastewater Treatment Systems		D		E	
Measurements & Methods in Environmental Nanotechnology**		D		E	
Nano-Enabled Water Treatment Technologies: Applications & Implications**		P	D	E	
Advances & Challenges in Separation & Mixing of Salts for the Sustainable Production of Food, Energy & Water		P		E	
Heterogeneous Catalysis for Environmental & Energy Applications**		P		E	
Sci-Mix		E			
Science & Perception of Climate Change**			A	E	
Trace Organic Contaminants (TrOCs) in Aquatic Systems: Advancements in Monitoring & Remediation**			A	E	
Multiphase Environmental Chemistry of Aerosols			D	DE	D
Advances & Challenges at the Food-Energy-Water Nexus**			D	E	
Fate, Transport & Remediation of Radionuclides in the Environment			P	E	
Monitoring Water Quality & Infrastructure to Prevent Future Flints**			P	E	
C. Ellen Gonter Environmental Graduate Student Award			P		
Environmental Justice: The Role & Impact of Diversity on Environmental Stewardship** <i>CIGE</i>				A	
Changes in Chemical Risk Assessment under Amended TSCA: Approaches & Implementation**				DE	A
Impact of Materials, Surface Chemistry & Modifications on Biofilm Formation in Environmental Remediation & Engineering Applications**				DE	D
Economic Impact of Environmental Health Research: A Case Study of the NIEHS Superfund Research Program**				DE	

Division of Environmental Chemistry (continued)

ENVR

J. Goldfarb, Program Chair

Renaissance Washington, DC Downtown	S	M	Tu	W	Th
Green Chemistry & the Environment**				DE	
Advances in Environmental Analytical Methods for EPA Compliance Reporting & Exposure Risk Assessment**				E	A
General Posters				E	
Advances in Residue Analytical Methods: Innovation, Current Status & Future Prospects* (AGRO)	A				
Recent Advances toward the Bioeconomy* (CELL)		D			
Environmental Fate, Transport & Modeling of Agriculturally Related Chemicals* (AGRO)	P	A			
Agrochemical Formulations* (AGRO)	P				
Sustaining Water Resources: Environmental & Economic Impact* (MPPG)		A			
Biomass to Fuels & Chemicals: Research, Innovation & Commercialization* (ENFL)		D	D		
Atmospheric Fate & Transport of Agricultural Emissions* (AGRO)		P	D		
Undergraduate Research Posters* (CHED)		P			
2,4-D Human Exposure Data: Lessons from Decades of Study* (AGRO)		P			
Application of Spatial Technologies to Advance Exposure Modeling & Risk Assessments* (AGRO)			A		
Journey to Mars: Materials, Energy & Life Sciences* (POLY)			DE	D	
Vehicle Emission Control Catalysis: New Era, New Challenges & New Solutions* (CATL)			P	D	
Advances in Carbon Dioxide Utilization* (CATL)			P	D	
Green Chemistry: Theory & Practice* (CHED)				A	
Developing Pesticide Environmental Risk Assessment Approaches* (AGRO)				D	
Good Laboratory Practices for the Agrochemical Professional* (AGRO)				P	
Nanoscale Sensing in Foods & Other Complex Media* (AGFD)					D

Division of Fluorine Chemistry**FLUO***N. Vasdev, Program Chair*

Located with Primary Sponsor	S	M	Tu	W	Th
Journey to Mars: Materials, Energy & Life Sciences* (POLY)			DE	D	

Division of Geochemistry**GEOC***W. Burgos, Program Chair*

Grand Hyatt Washington	S	M	Tu	W	Th
Engineered Nanomaterials in the Environment: Fate, Behavior & Effects	P				
Water Chemistry Associated with Energy Production & Extraction		A			
Sci-Mix		E			
General Geochemistry			AE		
Sustaining Water Resources: Environmental & Economic Impact* (MPPG)		A			
Chemistry in an Evolving Political Climate: Research Priorities & Career Pathways in Public Policy* (YCC)			D		
Understanding the Chemistry of Our Planet* (PRES)			D		

Division of the History of Chemistry**HIST***S. Rasmussen, Program Chair*

Grand Hyatt Washington	S	M	Tu	W	Th
HIST Tutorial & General Papers	P	P			
History as Outreach: Celebrating the ACS Landmarks Program's 25th Anniversary		A			
Sci-Mix		E			
Ladies in Waiting for Nobel Prizes: Overlooked Accomplishments of Women Chemists**			D		
Analytical Chemistry in the Context of Cultural Heritage* (ANYL)	P	D			

Division of Industrial & Engineering Chemistry**I & EC***C. Abney, Program Chair*

Grand Hyatt Washington	S	M	Tu	W	Th
Structural & Supramolecular Aspects of Metal Ion Separations**	P	D			
Sci-Mix		E			
General Papers			D	A	
General Posters			E		
Ammonia Economy* (ENFL)	D				
Science Communications: The Art of Developing a Clear Message* (PRES)	P				
Sustaining Water Resources: Environmental & Economic Impact* (MPPG)		A			
Building a Safety Culture across the Chemistry Enterprise* (PRES)			D		
Understanding the Chemistry of Our Planet* (PRES)				D	
5th International Symposium on Mesoporous Zeolites* (ENFL)					D

Division of Inorganic Chemistry**INOR***N. Radu, S. Koch, Program Chairs*

Renaissance Washington, DC Downtown	S	M	Tu	W	Th
Organometallic Chemistry	AE	AE	D	A	
Chemistry of Materials	AE	PE	A	A	
Environmental & Energy-Related Inorganic Chemistry	AE				A
Personal & Global Energy Conversion in Chemistry & Biology	D	D			
Electronic Structure Contributions to Function: From Metals in Biology to Materials Science	DE	A			
Fundamental Aspects of Metal Organic Framework Catalysis	DE	D	D		
Inorganic Nanoscience Award	P				

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

**Primary organizer of a cosponsored symposium.

CIGE: Chemistry's Impact on the Global Economy
 A = AM AE = AM/EVE D = AM/PM DE = AM/PM/EVE
 E = EVE P = PM PE = PM/EVE

**Division of Inorganic Chemistry
(continued)****INOR***N. Radu, S. Koch, Program Chairs*

Renaissance Washington, DC Downtown	S	M	Tu	W	Th
Organometallics Distinguished Author Symposium in Honor of Alexander Miller	P				
Triplet Excited State in Inorganic Chemistry	PE	D			
Center for Enabling New Technologies through Catalysis: Transforming Catalysis through Collaboration	E	D	DE		
Coordination Chemistry	E	D	PE		D
Bioinorganic Chemistry	E		A	A	A
Inorganic Catalysts	E			A	P
Inorganic Spectroscopy	E			A	
Inorganic Chemistry Lectureship		A			
Many Colors of Copper **		D	DE	D	
Inorganic Young Investigator Awards		P			
Sci-Mix		E			
Chemistry of Materials Lectureship & Best Paper Award			A		
Electrochemistry			AE		
Memorial Symposium Honoring Justine Roth: Oxygen & Isotope Effects in Mechanisms, from Enzymes to Small Molecules **			P		
Lanthanide & Actinide Chemistry			PE	P	
Main Group Chemistry			E	D	
Nanoscience			E	P	A
Solid-State Inorganic Chemistry			E		
What Do Synthetic Chemists Want from Their Reaction Systems? * (CINF)	D				
Science Communications: The Art of Developing a Clear Message * (PRES)	P				
Materials Science in Nuclear Waste Disposal * (NUCL)		D	A		
Building a Safety Culture across the Chemistry Enterprise * (PRES)		D			
Undergraduate Research Posters * (CHED)		P			
Transformative Research & Excellence in Education Award * (COMSCI)		P			
Understanding the Chemistry of Our Planet * (PRES)			D		

**Division of Inorganic Chemistry
(continued)****INOR***N. Radu, S. Koch, Program Chairs*

Renaissance Washington, DC Downtown	S	M	Tu	W	Th
Nonconventional Building Blocks in Conjugated Materials: Innovative Designs & New Applications * (POLY)			DE	D	A
Chemistry Past Curium * (NUCL)			P	D	
Nanoscale Sensing in Foods & Other Complex Media * (AGFD)					D

Division of Medicinal Chemistry**MEDI***A. Stamford, Program Chair*

Walter E. Washington Convention Center	S	M	Tu	W	Th
Treatment of Chronic Neuropathic Pain	A				
General Orals	D		P	P	
Biophysical Methods in Drug Discovery	P				
General Posters	E			E	
Insights on Medicinal Chemistry from Hardcore Practitioners		A			
Addiction: The Unmet Medical Need of the 21st Century		A			
Encoded Technologies for Lead Generation, Successes & Challenges		P			
Off Targets No More: CYP450 Enzymes as Drug Discovery Targets		P			
Sci-Mix		E			
Award Symposium			A		
Recent Advances in the Treatment of HIV-1 Infection & Approaches to a Cure			A		
Recent Advancements & Therapeutic Opportunities in Muscarinic Receptors			P		
Unusual Protein-Ligand Interactions in the Design of Novel Pharmaceuticals				A	
First-Time Disclosure of Clinical Candidates					D
Merck Research Award Symposium * (WCC)	A				
What Do Synthetic Chemists Want from Their Reaction Systems? * (CINF)	D				
Glycomimetics as Antibiotic-Sparing Therapeutics for Infectious Disease * (CARB)	D				

**Division of Medicinal Chemistry
(continued)****MEDI***A. Stamford, Program Chair*

Walter E. Washington Convention Center	S	M	Tu	W	Th
Undergraduate Research Posters* (CHED)		P			
Informatics & Chemical Biology: Identifying Targets & Biological Pathways * (CINF)			A		
Innovations in Health Care in the Global Economy* (SCHB)			D		
Toxicological Considerations in Antibody- Drug Conjugate Design & Development* (TOXI)			P		

**Division of Nuclear Chemistry &
Technology****NUCL***J. Terry, Program Chair*

Grand Hyatt Washington	S	M	Tu	W	Th
General Topics in Radiochemistry	D				
Materials Science in Nuclear Waste Disposal**		D	A		
Chemistry Past Curium**			P	D	
Nuclear Forensics				E	D
Structural & Supramolecular Aspects of Metal Ion Separations* (I&EC)	P	D			

Division of Organic Chemistry**ORGN***R. Broene, S. Silverman, Program Chairs*

Walter E. Washington Convention Center	S	M	Tu	W	Th
Flow Chemistry & Continuous Processes	A		E		
Catalysis & Computation	A				
Biologically Related Molecules & Processes	D	A	E		
New Reactions & Methodology	D	D	D	E	
Heterocycles & Aromatics	D			E	
Young Investigator Symposium	D				
JOC OL Lectureship	P				
Small Splash, Big Waves: Research at Primarily Undergraduate Institutions	P				
Physical Organic Chemistry: Calculations, Mechanisms, Photochemistry & High- Energy Species	E	D			

**Division of Organic Chemistry
(continued)****ORGN***R. Broene, S. Silverman, Program Chairs*

Walter E. Washington Convention Center	S	M	Tu	W	Th
Asymmetric Reactions & Syntheses	E	P	D	A	
Peptides, Proteins & Amino Acids	E		A		
Metal-Mediated Reactions & Syntheses	E		P	A	
CH Activation	E			P	A
Organometallics Distinguished Author Award		A			
Modern Chemistry of the Amide Bond		A			
Robert Burns Woodward Centennial Symposium		D			
Cross-Electrophile Coupling		P			
Tetrahedron Prize for Creativity in Organic Chemistry Symposium		P			
Sci-Mix		E			
Process Chemistry: New Developments in Pharmaceutical Process Development (IV)			A		
Arthur C. Cope Award Symposium			D		
Young Academic Investigator Symposium			D		
Using Organic Chemistry to Illuminate Biological Systems			P		
Molecular Recognition & Self-Assembly			E	D	A
Materials, Devices & Switches			E	P	A
Chemistry of Fullerenes, Carbon Nanotubes & Graphene			E		
Nanomaterials			E		
Alfred Bader Award in Bioinorganic or Bioorganic Chemistry: Symposium in Honor of Kim D. Janda					A
Technical Achievements in Organic Chemistry					D
From Bioinspired to Biocompatible Material Design for Organic Electronics					D
Total Synthesis of Complex Molecules					PE A
Photoredox Chemistry					E

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

**Primary organizer of a cosponsored symposium.

CIGE: Chemistry's Impact on the Global Economy
A = AM AE = AM/EVE D = AM/PM DE = AM/PM/EVE
E = EVE P = PM PE = PM/EVE

**Division of Organic Chemistry
(continued)****ORGN***R. Broene, S. Silverman, Program Chairs*

Walter E. Washington Convention Center	S	M	Tu	W	Th
Chemistry of Fullerenes, Carbon Nanotubes, Nanomaterials & Graphene					A
Merck Research Award Symposium * (WCC)	A				
What Do Synthetic Chemists Want from Their Reaction Systems? * (CINF)	D				
Science Communications: The Art of Developing a Clear Message * (PRES)	P				
Building a Safety Culture across the Chemistry Enterprise * (PRES)		D			
Understanding the Chemistry of Our Planet * (PRES)			D		
Synthesis & Chemistry of Agrochemicals * (AGRO)					D

Division of Physical Chemistry**PHYS***J. Shea, Program Chair*

Walter E. Washington Convention Center	S	M	Tu	W	Th
Spectroscopic & Computational Insights into Solid-Liquid Interfaces for Energy Conversion <i>CIGE</i>	D	D	A	A	
Molecules in Space: Linking the Interstellar Medium to (Exo)Planets	D	D	D	D	A
Theoretical Models of Chemical Bonding & Reactivity Spanning the Periodic Table: A Symposium in Honor of Roald Hoffmann <i>CIGE</i>	D	D	D	D	A
Electronic Structure Methods for Complex Chemical Systems **	D	D	D		
Experimental & Computational Advances in Understanding Enzyme Specificity & Promiscuity **	D	D	P	A	
PHYS Awards Symposium	D	D		P	D
Liquid Theory: Symposium in Honor of Ben Widom <i>CIGE</i>	D	D			
Sci-Mix		E			
Physical Chemistry Research at Undergraduate Institutions			D	D	A
Gaseous Ion Chemistry & Surface Reactions <i>CIGE</i>			D	D	A

**Division of Physical Chemistry
(continued)****PHYS***G. Engel, Program Chair*

Walter E. Washington Convention Center	S	M	Tu	W	Th
Membrane Proteins: Structure, Activity & Drug Development			D	D	D
PHYS Poster Session				E	
ACS COMP Symposium in Honor of Peter Pulay * (COMP)	D	A			
Extending Accuracy & Scales with Emerging Computing Architectures & Algorithms * (COMP)	D	D	D		
Molecular Recognition: Revealing the Effects Associated with Receptor-Ligand Binding * (COMP)	D	D	D		
Nanotechnology & Single-Cell Analysis in Biology & Medicine * (ANYL)	D	D			
Transformative Research & Excellence in Education Award * (COMSCI)		P			
Computational Studies of Membranes & Membrane-Bound Systems * (COMP)			P	D	
Molecular Mechanics * (COMP)				D	A

Division of Polymer Chemistry**POLY***T. White, C. Lipscomb, T. Epps, Program Chairs*

Marriott Marquis Washington, DC	S	M	Tu	W	Th
Mark Young Scholar Award in Honor of Garret Miyake	A				
Federally Funded Research	D	A			
Green Polymer Chemistry: Biobased Materials & Biocatalysis **	D	D	DE	D	D
8th Symposium on Controlled Radical Polymerization	D	D	DE	D	A
Metallo-Supramolecular & Metal-Containing Polymers **	D	D	DE	D	
Advances in Wettability & Adhesion	D	D	E		
Polymer Mechanochemistry **	D	D	E		
Materials at the Food-Energy-Water Nexus: Polymers for Soils to Sensors	D		E		
Charles Overberger Award	P				
Young Industrial Polymer Science Award in Honor of Jamie Garcia		A			

**Division of Polymer Chemistry
(continued)****POLY***T. White, C. Lipscomb, T. Epps, Program Chairs*

Marriott Marquis Washington, DC	S	M	Tu	W	Th
Biomacromolecules-Macromolecules Young Investigator Award		A			
General Topics: New Synthesis & Characterization of Polymers		P	DE	D	D
Plastic Packaging Science: Reducing Food Waste to Improving Recyclability		P			
Macromolecules: The Next 50 Years		P			
Sci-Mix		E			
DSM Science & Technology Award			A		
Polymers at the Interface with Biology			D		
Nonconventional Building Blocks in Conjugated Materials: Innovative Designs & New Applications **			DE	D	A
Journey to Mars: Materials, Energy & Life Sciences **			DE	D	
Mark Scholars Award in Honor of Christopher Bowman			P		
Shape-Shifting Polymeric Systems **			E	D	D
Mark Senior Scholar Award in Honor of James Hedrick				A	
Herman F. Mark Award in Honor of Edward Samulski				P	
POLY/PMSE Plenary				E	
Henkel Award for Outstanding Graduate Research in Polymer Chemistry **					A
Advances in Lignin: Chemicals, Polymers & Materials **					A
Polyphosphazenes in Biomedicine, Engineering & Pioneering Synthesis * (PMSE)	D	A			
Sustainable Design of Polymers from Xylochemicals * (CELL)		A			
Materials That Impact Our Daily Lives & the Global Economy: Bring Practical Applications into the Chemistry Classroom * (CHED)		P			
Undergraduate Research Posters * (CHED)		P			
Eminent Scientist Lecture * (SOCED)		P			
GSSPC: Standing on the Shoulders of Giants: Developing Chemistries for Improved Global Health * (CHED)			D		
Joint PMSE/POLY Poster Session * (PMSE)			E		

**Division of Polymer Chemistry
(continued)****POLY***T. White, C. Lipscomb, T. Epps, Program Chairs*

Marriott Marquis Washington, DC	S	M	Tu	W	Th
Polymers for Aerospace Applications: Celebrating the Lifetime Contributions of Charles Lee * (PMSE)				D	

**Division of Polymeric Materials:
Science & Engineering****PMSE***C. Snyder, B. Olsen, X. Jia, M. Becker, A. Norman,
Program Chairs*

Marriott Marquis Washington, DC	S	M	Tu	W	Th
Eastman Chemical Student Award in Applied Polymer Science	A				
Polyphosphazenes in Biomedicine, Engineering & Pioneering Synthesis **	D	A			
Gels & Other Soft Amorphous Solids	D	D	D	A	
Synthesis, Self-Assembly & Applications of Peptides & Polypeptides	D	D	D	A	
Dynamic Chemistry in Polymer Materials	D	D	D	D	
Simulations of Polymeric Materials: Molecular- to Macroscale	D	D			
Materials for Patterning in Two & Three Dimensions	D	P			
1-D Nanomaterials: Synthesis, Assembly, Properties & Applications	D				
Journal of Polymer Science Award: Symposium in Honor of Luis Campos	P				
Recombinant Type Materials **		D	D		
Roy W. Tess Award: Symposium in Honor of Stuart Croll		D			
Sci-Mix		E			
Biomaterials Science & Translational Medicine			D	D	
Polyelectrolyte Coacervates, Precipitates & Multilayers			D	D	
Memorial Symposium in Honor of Les Sperling			D		

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

**Primary organizer of a cosponsored symposium.

CIGE: Chemistry's Impact on the Global Economy
A = AM AE = AM/EVE D = AM/PM DE = AM/PM/EVE
E = EVE P = PM PE = PM/EVE

**Division of Polymeric Materials:
Science & Engineering
(continued)**
PMSE

*C. Snyder, B. Olsen, X. Jia, M. Becker, A. Norman,
Program Chairs*

Marriott Marquis Washington, DC	S	M	Tu	W	Th
Joint PMSE/POLY Poster Session **			E		
General Papers/New Concepts in Polymeric Materials				D	A
Polymers for Aerospace Applications: Celebrating the Lifetime Contributions of Charles Lee **				D	
Merck Research Award Symposium * (WCC)	A				
Metallo-Supramolecular & Metal-Containing Polymers * (POLY)	D	D	DE	D	
Polymer Mechanochemistry * (POLY)	D	D	E		
Sustainable Design of Polymers from Xylochemicals * (CELL)		A			
Materials That Impact Our Daily Lives & the Global Economy: Bring Practical Applications into the Chemistry Classroom * (CHED)		P			
Undergraduate Research Posters * (CHED)		P			
Nonconventional Building Blocks in Conjugated Materials: Innovative Designs & New Applications * (POLY)			DE	D	A
Journey to Mars: Materials, Energy & Life Sciences * (POLY)			DE	D	
Shape-Shifting Polymeric Systems * (POLY)			E	D	D
Henkel Award for Outstanding Graduate Research in Polymer Chemistry * (POLY)					A

Division of Professional Relations
PROF

R. Libby, Program Chair

Marriott Marquis Washington, DC	S	M	Tu	W	Th
Ten Years & Counting: PROF's Professional Subdivisions **		A			
How Volunteering with ACS Can Boost Your Professional Development Skills **		P			
Investing in the Future: Mentoring Underrepresented Students in Chemistry <i>CIGE</i>			A		
Chemists of Courage			P		

**Division of Professional Relations
(continued)**
PROF

R. Libby, Program Chair

Marriott Marquis Washington, DC	S	M	Tu	W	Th
Merck Research Award Symposium * (WCC)	A				
Space Chemistry: How It Helps Space Exploration * (YCC)	A				
Making an Impact on Public Perceptions of Chemistry through Outreach * (SOCED)	A				
Preparing for Employment in a Global Workforce * (IAC)	P				
The Road Less Traveled: Career Opportunities in the Government Sector * (YCC)	P				
The Nons: Non-Tenure-Track Faculty in a Changing Academic Landscape * (WCC)	P				
Science Communications: The Art of Developing a Clear Message * (PRES)	P				
Chemical Angel Network: Chemists Investing in Chemical Companies * (BMGT)	P				
Chemical Entrepreneurs' Impact on the Global Economy * (SCHB)	E				
Social Media for Science Advocacy in Public Policy * (SCHB)	A				
Biomass to Fuels & Chemicals: Research, Innovation & Commercialization * (ENFL)	D	D			
Food Safety & Labeling: Food & Flavor Regulations, Progress & Challenges in the Pursuit to Serve the Consumer * (AGFD)	D	D			
Collaborating for Success: Professional Skills Development for Undergraduates, Graduates & Postdocs * (CINF)	D				
Building a Safety Culture across the Chemistry Enterprise * (PRES)	D				
Early-Career Investigators in Biological Chemistry * (BIOL)	P	P			
Chemistry & Culture: How Native American Chemists Impact Their Community * (CMA)	P				
How to Get Your First Industrial Job * (YCC)			A		
<i>Journal of Agricultural & Food Chemistry</i> Best Paper Award & Young Scientist Award Symposium * (AGFD)			A		

Division of Professional Relations **PROF**
(continued)
R. Libby, Program Chair

Marriott Marquis Washington, DC	S	M	Tu	W	Th
Ladies in Waiting for Nobel Prizes: Overlooked Accomplishments of Women Chemists* (HIST)			D		
Innovations in Health Care in the Global Economy* (SCHB)			D		
Building a Safety Culture across the Chemical Enterprise* (CHAS)			P	A	
Graduate Student & Postdoctoral Fellow Symposium* (BIOL)			P	P	D
The European Research Council's Funding Opportunities to Make Scientists' Dreams Come True* (YCC)			P		
Beyond the Bench: Careers in Intellectual Property* (CHAL)			P		
ACS Infectious Diseases Young Investigators Award Symposium* (BIOL)				A	
Fostering a Quality Culture in Research & Development* (BMGT)				A	

Rubber Division **RUBB**
W. M. Stahl, Program Chair

Located with Primary Sponsor	S	M	Tu	W	Th
Materials That Impact Our Daily Lives & the Global Economy: Bring Practical Applications into the Chemistry Classroom* (CHED)		P			

Division of Small Chemical Businesses **SCHB**
J. Sabol, Program Chair

Marriott Marquis Washington, DC	S	M	Tu	W	Th
Chemical Intellectual Property Protection & Enforcement in the Global Economy** <i>CIGE</i>	P				
Chemical Entrepreneurs' Impact on the Global Economy** <i>CIGE</i>	E				
Social Media for Science Advocacy in Public Policy** <i>CIGE</i>		A			

Division of Small Chemical Businesses (continued) **SCHB**
J. Sabol, Program Chair

Marriott Marquis Washington, DC	S	M	Tu	W	Th
Working in the Public Sector: Running for Elected Office**	P				
Sci-Mix		E			
Innovations in Health Care in the Global Economy** <i>CIGE</i>			D		
Cannabis in the Global Economy <i>CIGE</i>				P	
Entrepreneurs in the Agriculture & Food Industries* (AGFD)	P				
Science Communications: The Art of Developing a Clear Message* (PRES)	P				
Chemical Angel Network: Chemists Investing in Chemical Companies* (BMGT)	P				
Biomass to Fuels & Chemicals: Research, Innovation & Commercialization* (ENFL)		D	D		
Building a Safety Culture across the Chemistry Enterprise* (PRES)		D			
Chemistry in an Evolving Political Climate: Research Priorities & Career Pathways in Public Policy* (YCC)		D			
Intellectual Property Considerations When Entering into a Joint Venture* (CHAL)		P			
Patent Specification Requirements: What's in Common & What's Different in the U.S., Europe & Southeastern Asia?* (CHAL)			A		
Understanding the Chemistry of Our Planet* (PRES)			D		
Journey to Mars: Materials, Energy & Life Sciences* (POLY)			DE	D	
Beyond the Bench: Careers in Intellectual Property* (CHAL)			P		
Fostering a Quality Culture in Research & Development* (BMGT)				A	

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

**Primary organizer of a cosponsored symposium.

CIGE: Chemistry's Impact on the Global Economy
 A = AM AE = AM/EVE D = AM/PM DE = AM/PM/EVE
 E = EVE P = PM PE = PM/EVE

Committee on Chemical Safety

C C S

E. Howson, Program Chair

Located with Primary Sponsor	S	M	Tu	W	Th
Soft Skills in Training & Interactions * (CHAS)	P				
Division of Chemical Health & Safety Awards * (CHAS)	P				
Building a Safety Culture across the Chemistry Enterprise * (PRES)		D			
Cannabis Processing: Innovations & Legal Protections * (CHAS)		P			
Chemophobia: Communicating Chemistry * (CHAS)			A		
Building a Safety Culture across the Chemical Enterprise * (CHAS)			P	A	
Emerging Trends in Research Operations * (CHAS)				D	

Committee on Chemistry & Public Affairs

CCPA

R. Forslund, Program Chair

Located with Primary Sponsor	S	M	Tu	W	Th
Social Media for Science Advocacy in Public Policy * (SCHB)		A			
Chemistry in an Evolving Political Climate: Research Priorities & Career Pathways in Public Policy * (YCC)		D			
Working in the Public Sector: Running for Elected Office * (SCHB)		P			

Committee on Chemists with Disabilities

C W D

L. Hoffman, Program Chair

Located with Primary Sponsor	S	M	Tu	W	Th
Ten Years & Counting: PROF's Professional Subdivisions * (PROF)		A			

Committee on Divisional Activities

D A C

R. Bennett, Program Chair

Located with Primary Sponsor	S	M	Tu	W	Th
Science Communications: The Art of Developing a Clear Message * (PRES)	P				
Building a Safety Culture across the Chemistry Enterprise * (PRES)		D			
Chemistry in an Evolving Political Climate: Research Priorities & Career Pathways in Public Policy * (YCC)		D			
Understanding the Chemistry of Our Planet * (PRES)			D		

Committee on Economic & Professional Affairs

CEPA

R. Ewing, Program Chair

Located with Primary Sponsor	S	M	Tu	W	Th
Science Communications: The Art of Developing a Clear Message * (PRES)	P				
Building a Safety Culture across the Chemistry Enterprise * (PRES)		D			
Chemistry in an Evolving Political Climate: Research Priorities & Career Pathways in Public Policy * (YCC)		D			
Understanding the Chemistry of Our Planet * (PRES)			D		

Committee on Environmental Improvement

C E I

C. Middlecamp, Program Chair

Located with Primary Sponsor	S	M	Tu	W	Th
Electrochemical Technologies for Water Purification * (ENVR)	D			E	
Science Communications: The Art of Developing a Clear Message * (PRES)	P				
Biomass to Fuels & Chemicals: Research, Innovation & Commercialization * (ENFL)		D	D		
Building a Safety Culture across the Chemistry Enterprise * (PRES)		D			
Chemistry in an Evolving Political Climate: Research Priorities & Career Pathways in Public Policy * (YCC)		D			
Undergraduate Research Posters * (CHED)		P			

Committee on Environmental Improvement (continued)

C E I

C. Middlecamp, Program Chair

Located with Primary Sponsor	S	M	Tu	W	Th
Science & Perception of Climate Change* (ENVR)			A	E	
Advances & Challenges at the Food-Energy-Water Nexus* (ENVR)			D	E	
Understanding the Chemistry of Our Planet* (PRES)			D		
Monitoring Water Quality & Infrastructure to Prevent Future Flints* (ENVR)			P	E	
Green Chemistry: Theory & Practice* (CHED)				A	
Environmental Justice: The Role & Impact of Diversity on Environmental Stewardship* (ENVR)				A	
Changes in Chemical Risk Assessment under Amended TSCA: Approaches & Implementation* (ENVR)				DE	A
Green Chemistry & the Environment* (ENVR)				DE	
Citizens First!* (CHED)					A

Committee on Minority Affairs

C M A

J. Sarquis, Program Chair

Marriott Marquis Washington, DC	S	M	Tu	W	Th
Chemistry & Culture: How Native American Chemists Impact Their Community**		P			
Environmental Justice: The Role & Impact of Diversity on Environmental Stewardship* (ENVR)				A	

Committee on Patents & Related Matters

CPRM

S. Shah, Program Chair

Located with Primary Sponsor	S	M	Tu	W	Th
Chemical Intellectual Property Protection & Enforcement in the Global Economy* (SCHB)	P				

Committee on Professional Training

C P T

T. Wenzel, Program Chair

Located with Primary Sponsor	S	M	Tu	W	Th
The Nons: Non-Tenure-Track Faculty in a Changing Academic Landscape* (WCC)	P				

Committee on Ethics

ETHX

K. Vitense, Program Chair

Located with Primary Sponsor	S	M	Tu	W	Th
Building a Safety Culture across the Chemistry Enterprise* (PRES)			D		

International Activities Committee

I A C

E. Tratras Contis, Program Chair

Marriott Marquis Washington, DC	S	M	Tu	W	Th
Preparing for Employment in a Global Workforce** CIGE	P				
Chemistry in an Evolving Political Climate: Research Priorities & Career Pathways in Public Policy* (YCC)			D		

Committee on Public Relations & Communications

CPRC

J. Maclachlan, Program Chair

Located with Primary Sponsor	S	M	Tu	W	Th
Making an Impact on Public Perceptions of Chemistry through Outreach* (SOCED)	A				
Science Communications: The Art of Developing a Clear Message* (PRES)	P				
Social Media For Science Advocacy in Public Policy* (SCHB)		A			

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

**Primary organizer of a cosponsored symposium.

CIGE: Chemistry's Impact on the Global Economy
 A = AM AE = AM/EVE D = AM/PM DE = AM/PM/EVE
 E = EVE P = PM PE = PM/EVE

Committee on Public Relations & Communications (continued)
CPRC
J. Maclachlan, Program Chair

Marriott Marquis Washington, DC	S	M	Tu	W	Th
2017 C&EN Talented 12* (MPPG)		A			
Building a Safety Culture across the Chemistry Enterprise* (PRES)		D			
Chemistry in an Evolving Political Climate: Research Priorities & Career Pathways in Public Policy* (YCC)		D			
Working in the Public Sector: Running for Elected Office* (SCHB)		P			
Understanding the Chemistry of Our Planet* (PRES)			D		

Committee on Science
COMSCI
M. Cesa, Program Chair

Walter E. Washington Convention Center	S	M	Tu	W	Th
Transformative Research & Excellence in Education Award**		P			
Sustaining Water Resources: Environmental & Economic Impact* (MPPG)		A			
Chemistry in an Evolving Political Climate: Research Priorities & Career Pathways in Public Policy* (YCC)		D			

Committee on Technician Affairs
CTA
C. Libby, Program Chair

Located with Primary Sponsor	S	M	Tu	W	Th
Science Communications: The Art of Developing a Clear Message* (PRES)	P				
Building a Safety Culture across the Chemistry Enterprise* (PRES)		D			

Society Committee on Education
SOCED
A. El-Ashmawy, Program Chair

Grand Hyatt Washington	S	M	Tu	W	Th
Making an Impact on Public Perceptions of Chemistry through Outreach** <i>CIGE</i>	A				
Eminent Scientist Lecture**		P			
High School Program* (CHED)	D				
Undergraduate Research Papers* (CHED)	P				
The Nons: Non-Tenure-Track Faculty in a Changing Academic Landscape* (WCC)	P				
Undergraduate Research Posters* (CHED)		P			

Women Chemists Committee
WCC
R. Cole, Program Chair

Marriott Marquis Washington, DC	S	M	Tu	W	Th
Merck Research Award Symposium**	A				
The Nons: Non-Tenure-Track Faculty in a Changing Academic Landscape**	P				
Ten Years & Counting: PROF's Professional Subdivisions* (PROF)		A			
Biomass to Fuels & Chemicals: Research, Innovation & Commercialization* (ENFL)		D	D		
How to Get Your First Industrial Job* (YCC)			A		
Ladies in Waiting for Nobel Prizes: Overlooked Accomplishments of Women Chemists* (HIST)			D		

Younger Chemists Committee
YCC
D. Williams, Program Chair

Marriott Marquis Washington, DC	S	M	Tu	W	Th
Space Chemistry: How It Helps Space Exploration**	A				
The Road Less Traveled: Career Opportunities in the Government Sector**	P				
Chemistry in an Evolving Political Climate: Research Priorities & Career Pathways in Public Policy** <i>CIGE</i>		D			
How to Get Your First Industrial Job**			A		

**Younger Chemists Committee
(continued)**

Y C C

D. Williams, Program Chair

Marriott Marquis Washington, DC	S	M	Tu	W	Th
The European Research Council's Funding Opportunities to Make Scientists' Dreams Come True** <i>CIGE</i>			P		
Making an Impact on Public Perceptions of Chemistry through Outreach* (SOCED)	A				
Science Communications: The Art of Developing a Clear Message* (PRES)	P				
TOXI Young Investigators* (TOXI)		A			
Collaborating for Success: Professional Skills Development for Undergraduates, Graduates & Postdocs* (CINF)		D			
Building a Safety Culture across the Chemistry Enterprise* (PRES)		D			
How Volunteering with the ACS Can Boost Your Professional Development Skills* (PROF)		P			

**Younger Chemists Committee
(continued)**

Y C C

D. Williams, Program Chair

Marriott Marquis Washington, DC	S	M	Tu	W	Th
Understanding the Chemistry of Our Planet* (PRES)			D		
Journey to Mars: Materials, Energy & Life Sciences* (POLY)			DE	D	
Beyond the Bench: Careers in Intellectual Property* (CHAL)			P		

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

**Primary organizer of a cosponsored symposium.

CIGE: Chemistry's Impact on the Global Economy

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

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



254th American Chemical Society National Meeting & Exposition

August 20-24, 2017 • Washington, DC

Chemistry's Impact on the
Global Economy**SYMPOSIA RECOMMENDED BY THE ACS PRESIDENT****ACS Pharma Leaders: Working Together to Make a Difference**

(Sponsored by MPPG and Cosponsored by PRES)

Advancing Graduate Education: Opportunities & Challenges

(Sponsored by CHED and Cosponsored by PRES)

Biomass to Fuels & Chemicals: Research, Innovation & Commercialization

(Sponsored by ENFL and Cosponsored by PRES, ENVR, MPPG, SCHB & WCC)

Earle B. Barnes Award for Leadership in Chemical Research Management Symposium in Honor of Laurie Locascio: Why Not Me? Changing the Face of Leadership in Science

(Sponsored by ANYL and Cosponsored by PRES)

GSSPC: Standing on the Shoulders of Giants: Developing Chemistries for Improved Global Health

(Sponsored by CHED and Cosponsored by PRES, ANYL, BIOT, BMGT, CARB, CELL, COLL, GEAB, MEDI, and POLY; Virginia Tech Institute for Critical Technology and Applied Sciences, Department of Chemistry, College of Science, and the Department of Materials Science and Engineering; BASF; and Accounts of Chemical Research, ACS Biomaterials Science & Engineering, ACS Chemical Biology, ACS Infectious Diseases, ACS Macro Letters, ACS Synthetic Biology, Biochemistry, Bioconjugate Chemistry, Biomacromolecules, The Journal of Organic Chemistry, Journal of Medicinal Chemistry, Macromolecules, ACS Central Science, and Acta Biomaterialia)

Journey to Mars: Materials, Energy & Life Sciences

(Sponsored by POLY and Cosponsored by PRES & MPPG)

Ladies in Waiting for Nobel Prizes: Overlooked Accomplishments of Women Chemists

(Sponsored by HIST and Cosponsored by PRES & PROF)

Sustaining Water Resources: Environmental and Economic Impact

(Sponsored by MPPG and Cosponsored by PRES, ENVR, GEOC & I&EC)

Transformative Research & Excellence in Education [TREE] Award Symposium

(Sponsored by COMSCI and Cosponsored by PRES, BIOL, COLL, COMP, ENFL, INOR & PHYS)

ACS NATIONAL MEETING

General meeting information

Your meeting registration entitles you to a range of programming, including scientific sessions, invited symposia, poster sessions, special lectures and events, award presentations, workshops, and the exposition. Interact with chemical scientists from around the world by participating in social events, networking opportunities, exhibitor sessions, and educational activities, with many events offered at no additional charge. Certain workshops, short courses, and ticketed events require a separate entry fee, as indicated in this program.

Registration

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

Early registration:
Through July 10

Standard registration:
July 11–Aug. 24

On-site attendee registration:
Walter E. Washington Convention
Center, Salons G/H/I

**Satellite registration and program
pickup locations:**
Walter E. Washington Convention
Center, Salons G/H/I
Marriott Marquis Washington DC

Early registration. U.S. residents who register by July 10 will receive their badge credentials by mail before the meeting. International registrants (this includes Canada and Mexico) must pick up their badge credentials at ACS Attendee Registration.

Standard & on-site registration. Attendees who register after July 10 must pick up their badge credentials on-site.

Registration changes. Attendees can modify their existing registration or generate a receipt from the registration website by following the instructions in their confirmation message. Attendees can also contact the ACS National Meeting Registration Center or update their registration on-site

at ACS Attendee Registration. Bring your confirmation and/or badge credentials with you to the meeting for faster processing.

Registration methods. All registrants will receive a confirmation via the original method of registration.

Internet. Register online at www.acs.org/dc2017 until Aug. 24. A valid credit card is

required to register online, and online registrations are real-time transactions.

Telephone. Call the ACS National Meeting Registration Center at (800) 251-8629 (U.S./Canada only) or (508) 743-0192 (international), Monday through Friday, 9 AM to 5 PM EDT.

Fax/mail. Submit the registration form (page 82) via fax by Aug. 24 at (508) 743-9604, or mail it to ACS Registration, c/o CDS, 107 Waterhouse Rd., Bourne, MA 02532.

On-site. Register during the meeting at ACS Attendee Registration at standard registration rates. ACS Attendee Registration will be open at the Walter E. Washington Convention Center, Salons G/H/I, on Saturday, 3 to 6 PM; Sunday, 7:30 AM to 7:30 PM; Monday, 7:30 AM to 9 PM; Tuesday, 7:30 AM to 5 PM; Wednesday, 7:30 AM to 4 PM; and Thursday, 7:30 AM to 1 PM.

REGISTRATION 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 U.S. dollars to the American Chemical Society, and include a completed registration form with each payment. Registration fees should not be combined with any other payment (such as membership dues). Purchase orders and training requests are not accepted. For wire transfer payments, contact the ACS Finance Department at (202) 872-6106 or e-mail bankwires@acs.org. **Registration forms received without payment will not be processed.**

REGISTRATION ASSISTANCE. The ACS National Meeting Registration Center will be available from 9 AM to 5 PM EDT by telephone, fax, mail, or e-mail. Service representatives can be reached at (800) 251-8629 (U.S./Canada only) or (508) 743-0192 (international), by fax at (508) 743-9604, by e-mail at acs@xpressreg.net, or by mail at ACS Registration, c/o CDS, 107 Waterhouse Rd., Bourne, MA 02532.

Registration cancellations/refunds. All cancellations and refund requests must be submitted in writing by July 31 to guarantee the registrant a full refund less a \$50 administrative fee. Refund requests made after July 31 will not be honored. Your registration badge credentials and a copy of your registration confirmation must be attached to your request. All refunds will be issued

REGISTRATION CATEGORY	FEE	
	EARLY BY JULY 10	STANDARD JULY 11
MEMBERS		
ACS member or society affiliate	\$445	\$535
Emeritus or retired member	225	270
50-year member	No fee	No fee
Unemployed member (Dues waiver required)	No fee	No fee
Precollege teacher	110	110
Graduate student	225	225
Undergraduate	110	110
One-day registrant	225	270
NONMEMBERS		
Chemical scientist	\$780	\$935
Visitor: Nonchemical scientist or chemical technician	445	535
Precollege teacher	110	110
Graduate student	445	445
Undergraduate	225	225
One-day registrant	445	535
Guest of registrant ^a	45	45
EXPOSITION-ONLY VISITORS		
Adult, exposition only	\$60	\$60
Student, exposition only	30	30

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

MEETING INFO ON THE WEB

Registration, housing, technical programming, special events, participating exhibitors, and other meeting details are available at www.acs.org/dc2017.

via the original payment method, and refunds will be processed within 30 days after the meeting. Send your request to ACS Registration Cancellation, c/o CDS, 107 Waterhouse Rd., Bourne, MA 02532, or fax it to (508) 743-9604 (save your fax confirmation sheet).

Social event ticket cancellations/refunds. Social event cancellations received by July 31 entitle the registrant to a full refund. Refund requests made after July 31 will not be honored. Event tickets and a copy of your registration confirmation must be attached to your request.

Abstract cancellations/refunds. Abstract USB flash drives (thumb drives) and their shipping costs are nonrefundable.

MEMBER REGISTRATION. You must enter a valid ACS membership number during registration to register as a member and receive your ACS member discount on registration fees. Your registration options will automatically appear in accordance with your current membership status in the ACS membership database. Your ACS membership number can be found on your ACS membership card or your *Chemical & Engineering News* address label. Address questions about your membership status to ACS Member Services at (800) 333-9511 (U.S./Canada only) or (614) 447-3776 (international) or by e-mail at service@acs.org.

NONMEMBER REGISTRATION. Save money on discounted registration fees by joining ACS. You can join ACS now through the online ACS membership application at www.acs.org/join or by contacting ACS Member Services and then registering for the meeting at your member rate. To receive your meeting discount, you must join the society before you register for the meeting. New memberships or questions about membership status should be handled through ACS Member Services at (800) 333-9511 (U.S./Canada only) or (614) 447-3776 (international) or by e-mail at service@acs.org.

PRESS/MEDIA REGISTRATION. Registration is complimentary for credentialed members of the news media who are approved by the ACS Office of Communica-

tions (restricted to reporters and editors working full-time for print or broadcast news). Press badges may be picked up with valid media credentials from the Press Room at the Walter E. Washington Convention Center. For more information, visit www.acs.org/pressroom.

EXPO-ONLY ADMISSION. All meeting attendees with a valid badge receive complimentary admittance into the exposition as part of their registration. Individuals who want to visit the exposition without registering for the meeting's technical sessions can register for an expo-only adult badge for \$60 or \$30 for students with school identification. Register online or in person at ACS Attendee Registration.

EXHIBITOR REGISTRATION. Exhibitor registration is handled exclusively through ACS National Expositions at www.acs.org/expositions.

CAREER FAIR EMPLOYER REGISTRATION. ACS Career Fair employer registration is handled exclusively through ACS Careers at www.acs.org/careers.

Ticketed 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, including event locations, at www.acs.org/dc2017.

The following social events require a ticket, which can be purchased through Attendee Registration. Tickets will remain on sale until the evening before the event, if available. All tickets are sold on a first-come, first-served basis. Cancellations or refund requests must be made by July 31. No tickets will be refunded after that date.

► Sunday, Aug. 20

CHED (Division of Chemical Education) High School-College Interface Luncheon/SE-01/\$45
(Ticket included at no charge with high school teacher registration.)
Noon to 1 PM, Grand Hyatt Washington, Independence D/E

IAC (Committee on International Activities) Networking Globally: Diplomacy & Science/SE-02/no charge
4 to 5:30 PM, Marriott Marquis Washington DC

IAC International Welcome Reception/SE-03/no charge
(International registrants only.)
5:30 to 7:30 PM, Marriott Marquis Washington DC, Independence D-H

Heroes of Chemistry Awards/SE-14/\$130
(Black tie event.)
6:30 to 10 PM, JW Marriott Washington DC, Grand Ballroom

► Monday, Aug. 21

YCC (Younger Chemists Committee) Member Insurance 5K Fun Run/SE-04/\$30 (regular)/SE-05/\$15 (student)
6:45 to 8 AM, Walter E. Washington Convention Center

WCC (Women Chemists Committee) Women in the Chemical Enterprise Breakfast/SE-06/\$40 (regular)/SE-07/\$20 (student)
7:30 to 9 AM, Marriott Marquis Washington DC, Independence E

ACS Women Chemists of Color Networking Event/SE-08/no charge
10 to 11:30 AM, Marriott Marquis Washington DC, Scarlet Oak

Committee on Minority Affairs Luncheon/SE-09/\$50 (regular)/SE-10/\$25 (student)
11:30 AM to 1:30 PM, Marriott Marquis Washington DC, Independence A-D

CHAL (Chemistry & the Law Division) Award & Networking Lunch/SE-11/\$40
Noon to 1:30 PM, Corduroy Restaurant, 1122 9th St. N.W.

Undergraduate Eminent Scientist Lecture & Luncheon/SE-12/\$35
(Ticket included at no charge with undergraduate registration.)
Noon to 1:30 PM, Grand Hyatt Washington, Independence Ballroom A

CACS (Chinese-American Chemical Society) Dinner/SE-13/\$40
6:30 to 9:30 PM, Tony Cheng's Seafood Restaurant, 619 H St. N.W.

YCC Finding Balance between Work & Life Mixer for Younger Chemists/SE-16/no charge
7 to 8 PM, Baby Wale, 1124 9th St. N.W.

ACS Graduate & Postdoctoral Scholars Reception/SE-15/no charge
(All graduate students should receive

a ticket with registration. Postdocs are invited to attend.)

7 to 8:30 PM, Walter E. Washington Convention Center, Ballroom C

► Tuesday, Aug. 22

Senior Chemists Committee Breakfast/ SE-17/\$20

7:30 to 9:30 AM, Marriott Marquis Washington DC, Independence E-H

CINF (Chemical Information Division) Luncheon/SE-18/\$30

Noon to 1:30 PM, Grand Hyatt Washington, Constitution Ballroom B

COLL (Division of Colloid & Surface Chemistry) Luncheon/SE-19/\$45

Noon to 1:30 PM, Renaissance Washington DC Downtown, Mt. Vernon Square A

WCC Luncheon/SE-20/\$50 (regular)/ SE-21/\$25 (student)

Noon to 1:30 PM, Marriott Marquis Washington DC, Independence E-H

ANYL (Division of Analytical Chemistry) Reception/SE-22/\$25 (regular)/SE-23/\$5 (student)

5 to 7 PM, Grand Hyatt Washington, Lafayette Park

ENVR (Division of Environmental Chemistry) Reception/SE-25/\$20

6:30 to 8:30 PM, Pennsylvania 6, 1350 I St. N.W.

ENFL (Division of Energy & Fuels) Awards Dinner/SE-24/\$60

6:30 to 9 PM, Acadiana, 901 New York Ave. N.W.

Journey to Mars Reception/\$60 (member)/\$110 (nonmember)/\$10 (student)

6:30 to 10:30 PM, National Air & Space Museum

ENVR Dinner/SE-26/\$60

7:30 to 9 PM, Pennsylvania 6, 1350 I St. N.W.

Accommodations

ACS has contracted a wide selection of hotel rooms with competitive rates for the national meeting in Washington, D.C. ConferenceDirect is the official housing services provider. ACS does not endorse booking hotel reservations through any other source. Reserve your hotel room directly through ConferenceDirect by July 24. A listing of official

hotels with their guaranteed ACS rates and amenities is on page 68. All attendees who make reservations through ConferenceDirect will receive complimentary internet access in their rooms and are automatically entered in the ACS Housing Drawing (see ad on page 72 for details).

Late housing. Some hotels may have rooms available after July 24. A listing of these hotels will be posted on the ACS meeting website at www.acs.org/dc2017.

On-site housing. An on-site housing desk will be available during the meeting in the Attendee Resource Center at the Walter E. Washington Convention Center, Salon B, to assist with last-minute housing changes or needs.

RESERVATION METHODS. All registrants will receive confirmation for reservations made directly through ConferenceDirect. Review this document carefully for accuracy. Each confirmation contains a unique number that is proof of your reservation through ConferenceDirect. We strongly recommend that you bring your confirmation to the meeting. If you lose or do not receive your confirmation, you can obtain another copy online or by contacting ConferenceDirect. You will not receive a separate confirmation from the hotel. Published ACS rates apply to hotel stays between Aug. 16 and Aug. 26. To extend your stay beyond these dates, you must reserve additional nights directly through the hotel.

Internet. Reserve online at www.acs.org/dc2017. Online reservations require a valid credit card (American Express, Discover, MasterCard, or VISA), and a confirmation will be sent directly to your e-mail address.

Telephone. Call ConferenceDirect at (844) 293-7040 (U.S./Canada only) or (704) 837-4855 (international), Monday through Friday, 8:30 AM to 9 PM EDT. Telephone reservations require a valid credit card (American Express, Discover, MasterCard, or VISA), and you will receive an acknowledgment by e-mail within 24 hours.

Fax/mail. Fax the ACS Housing Form (page 70 and available online) to (704) 927-1439, or mail it to ConferenceDirect, 5600 Seventy-Seven Center Dr., Suite 240, Charlotte, NC 28217. Checks should be made payable to ACS/ConferenceDirect in the amount of one night's room and tax.

Housing forms will be processed on a first-come, first-served basis and require 10 to 14 days to be confirmed. If your requested hotel is no longer available, we will attempt to honor your indicated preference according to cost and location.

CHECK PAYMENT POLICY. Checks may

include the first night's room rate plus tax to hold the reservation or the expected full amount for all rooms for all nights. When sending check(s) for multiple rooms, please list the names and acknowledgment numbers corresponding to each reservation that the check applies to. When paying by check, remember to bring a credit card or cash to the hotel to cover incidental charges to the room(s).

Received by July 14. Make all checks payable to ACS/ConferenceDirect and mail to 5600 Seventy-Seven Center Dr., Suite 240, Charlotte, NC 28217.

July 14 through July 28. Make all checks payable to the hotel, and mail them directly to the hotel where your reservation is being held. Be sure to include "ACS" and your ConferenceDirect acknowledgment number on the check, and attach your acknowledgment/invoice indicating the names corresponding to each reservation. Until the hotel has received your check, make sure you have guaranteed your reservation(s) with a credit card. Please make sure you have sent your check directly to the hotel by July 28 to allow time for processing.

RESERVATIONS, CHANGES & CANCELLATION POLICY.

Hotel reservations can be guaranteed by credit card (American Express, Discover, MasterCard, or VISA), check, or money order. Make checks payable in U.S. dollars to ACS/ConferenceDirect, and include a completed ACS Housing Form with each mailed payment. Housing fees should not be combined with any other payment (such as registration or membership dues). Reservations received without payment will not be processed.

Although a valid credit card or check deposit for one night's room and tax is required to confirm a reservation, a payment will not be charged by ConferenceDirect. Hotels may elect to charge a deposit of one night's room and tax to your credit card before your arrival. If paying by credit card, the payment will be reflected on your credit card statement as early as July 25 or soon after. All hotel rooms are subject to 14.5% room and occupancy tax (subject to change without notice).

Reservation modifications and cancellations can be made with the housing bureau through July 24. After this date, you will need to contact your hotel directly to make any new reservations, modifications, or cancellations. Cancellations must be made at least 72 hours before the scheduled date of arrival at the hotel for refund of one night's room and tax deposit.

In addition to this cancellation policy, the housing services provider, ConferenceDirect, will charge a \$25 cancellation fee for

any cancellations made on or after July 25. Should you cancel, this charge will appear on your credit card statement as “Conference-Direct LLC.”

ACCOMMODATIONS FOR GUESTS WITH DISABILITIES. If you require special hotel accommodations because of a disability, please indicate your requirements when you make your reservation. Be sure to reconfirm any special room arrangements directly with your hotel after July 25.

SUITES. Send your suite requests by e-mail to acshousing@conferencedirect.com (subject: ACS Suite Request). They will attempt to find you a suite at an official ACS property that fits your needs.

ECONOMICAL ALTERNATIVES. The following hotels are not part of the official ACS housing block but may be of interest to attendees on a restricted budget. Make your reservations directly with these hotels, and ask for the listed ACS rate. Properties are not included on the ACS shuttle route; therefore, daily transportation costs are the responsibility of the attendee.

Holiday Inn Washington D.C.—Central/White House, 1501 Rhode Island Ave. N.W. \$169 per night, single/double occupancy (202) 483-2000

Hotel RL Washington D.C., 1823 L St. N.W. \$165 per night, single/double occupancy (202) 223-4320

KEEP YOUR MEETING COSTS AFFORDABLE. Attendee support of the official hotels allows ACS to use meeting space at a discount and to keep registration fees to a minimum. Stay in an official hotel whenever possible, and reserve your hotel room through ConferenceDirect at www.acs.org/dc2017.

ACS greener meetings

The ACS Department of Meetings & Expositions Services and the Committee on Meetings & Expositions are committed to greener meetings. For each national meeting, we collaborate with the destination city, the convention center, and our hotel and vendor partners to reduce our environmental footprint and raise the bar for industry sustainability practices.

Interested in learning more about how we're leading the way? Go to www.acs.org/greenermeetings to read about our greener meeting initiatives and access

On-site program book no longer free

Copies of the on-site program book will be available for \$10 until July 10 through the online registration process. The standard fee of \$20 will apply after July 10. In response to numerous requests, the author index will be included in the printed program booklet. Satellite registration and on-site program purchase/pickup locations will be located at the Walter E. Washington Convention Center, Salons G/H/I, and at the Marriott Marquis Washington DC. Credit cards, debit cards, and checks will be accepted at these locations.

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

our annual Event Sustainability Report.

Here is how ACS is committed to greener meetings:

- ▶ ACS seeks sustainable convention center venues to track energy, waste, and water data for each meeting.
- ▶ ACS offsets staff and event emissions in partnership with American Forests (7,545 trees planted in 2016) and shuttle emissions in partnership with Transportation Management Services (TMS) and Carbonfund.org. In 2016, ACS and its partners indirectly offset 3,270 metric tons of CO₂.
- ▶ ACS engages hotel partners to survey and collect information on sustainability initiatives and perform on-site walkthroughs of hotel room block properties to encourage hotels to increase and validate sustainability efforts. These sustainability initiatives are provided to meeting attendees through the Hotel Sustainability Green Grid, published on the ACS housing page.
- ▶ ACS collaborates with catering partners to bring local, seasonal, and sustainable food items to food and beverage functions during the meeting.

TAKE THE ACS GREENER MEETINGS PLEDGE. In 2016, 13,842 meeting attendees took the Greener Meetings

Pledge. At the 253rd National Meeting & Exposition in San Francisco, 2,897 attendees donated \$1.00 toward American Forests tree planting. Take the Greener Meetings Pledge during registration, and donate to American Forests to offset your emissions!

I pledge to

- ▶ Take advantage of linen reuse initiatives at my hotel, turn off the lights when away from my room, and participate in any incentive programs for declining housekeeping service during my stay.
- ▶ Responsibly dispose of recyclable materials (paper, plastic, glass, aluminum) in the Walter E. Washington Convention Center and hotels.
- ▶ Use the meeting mobile app and digital program instead of the printed on-site program.
- ▶ Enjoy the city, burn calories, and reduce my carbon footprint by walking to and from my hotel.
- ▶ Use the ACS carbon-offset shuttle service provided by TMS when walking is not an option.
- ▶ Bring a reusable water bottle to avoid the cost and waste associated with disposable, petroleum-based plastic water bottles.

Suggestions? Send them to the ACS Committee on Meetings & Expositions at greenermeetings@acs.org.

Travel & transportation

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

AIRLINES:

Delta

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

United Airlines

united.com; (800) 426-1122
Discount code: ZXME244449

TRAIN:

Amtrak

(800) 872-7245
Discount code: X91C-958 (phone reservations only)

Car Rental:

AVIS

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



PARTICIPATING HOTEL LIST

American Chemical Society
 254th National Meeting & Exposition - Aug. 20–24, 2017 - Washington, D.C.
 For best rates and availability, make your reservation at www.acs.org/dc2017
 or by phone at (toll-free) (844) 293-7040 or (international) (704) 837-4855.

All ACS sleeping rooms include complimentary internet.

Room rates listed below do not include applicable occupancy tax of 14.5% (subject to change without notice).

*Additional fees may apply if a rollaway bed is required, if there are pets in guest rooms, if oversized vehicles are parked, or if smoking occurs in guest rooms (all rooms are nonsmoking rooms)

Hotels	Single	Double	Triple	Quad	Maximum Occupants per Room*	No Charge for Children under This Age	Child Care Information Available	On ACS Shuttle Route	Per Day Hotel Parking Rates†	Room Service Available	Annals (Pubs & Services) Allowed‡	Fitness Center	Swimming Pool
	(1 person)	(2 persons)	(3 persons)	(4 persons)									
Cambria Suites Washington DC Convention Center	\$169	\$169	\$189	\$209	4	16	No	Walkable	\$45	No	Yes	Yes	Yes
Capital Hilton	\$224	\$224	\$249	\$274	4	18	No	Yes	\$59	Yes	Service	Yes	No
The Darcy, Curio Collection by Hilton	\$169	\$169	\$194	\$219	4	17	No	Yes	\$50	Yes	Yes	Yes	No
Embassy Suites by Hilton Washington DC Convention Center	\$228	\$248	\$268	\$288	4	18	No	Walkable	\$45	Yes	Service	Yes	Yes
Grand Hyatt Washington	\$239	\$264	\$289	\$314	4	18	Yes	Walkable	\$52	Yes	Service	Yes	Yes
Hampton Inn Washington-Downtown Convention Center	\$211	\$211	\$221	\$231	4	18	No	Walkable	\$42	No	Service	Yes	Yes
Henley Park Hotel	\$219	\$219	-	-	2	18	Yes	Walkable	\$45	Yes	Service	Yes	No
Hilton Garden Inn Washington DC Downtown	\$233	\$255	\$275	\$295	4	5	No	Yes	\$43	Yes	Service	Yes	Yes
IW Marriott Washington DC	\$233	\$233	\$258	\$283	4	12	Yes	Yes	\$59	Yes	Service	Yes	Yes
Loews Madison Hotel	\$219	\$219	\$249	\$279	4	16	Yes	Yes	\$50	Yes	Yes	Yes	No
Marriott Marquis Washington DC	\$233	\$233	\$258	\$283	4	12	No	Walkable	\$55	Yes	Service	Yes	No
The Morrison Clark Historic Inn	\$219	\$219	-	-	2	18	No	Walkable	\$38	Yes	Service	Yes	Yes, off site
Renaissance Washington DC Downtown	\$223	\$223	\$248	\$273	4	12	Yes	Walkable	\$43.10/\$53.10	Yes	Service	Yes	No
Sofitel Washington DC Lafayette Square	\$207	\$207	\$232	\$257	4	12	No	Yes	\$55	Yes	Yes	Yes	No
W Washington DC	\$232	\$232	\$262	\$292	4	18	Yes	Yes	\$55	Yes	Yes	Yes	No
Washington Marriott at Metro Center	\$211	\$211	\$236	\$261	4	12	No	Walkable	\$47	Yes	Service	Yes	Yes
The Westin Washington DC City Center	\$219	\$219	\$239	\$259	4	18	Yes	Yes	\$59	Yes	Yes	Yes	No



Hertz

hertz.com; (800) 654-2240
 Discount code: o2UZ0016

AIRPORT GROUND TRANSPORTATION.

Ronald Reagan Washington National Airport is located across the Potomac River in Virginia and is the closest airport to D.C. It is accessible via its own Metro stop on the Blue and Yellow Lines. To catch a taxi, look for the official taxi stand outside baggage claim. A ride into downtown D.C. will cost \$15–\$20.

Washington Dulles International Airport is 26 miles from D.C. in suburban Virginia. Taxi stands are located outside the main terminal at Doors 2 and 6. A ride into D.C. will cost \$60–\$68. Washington Flyer also offers a Silver Line Express Bus that stops at the Wiehle-Reston East Metro station about 15 minutes away. Silver Line Express Bus fare is \$5 one way. Purchase tickets inside the airport at Arrival Door 4. Please visit bit.ly/2s9qhSQ for more information.

Baltimore-Washington International (BWI) Thurgood Marshall Airport is a bit further out, in Baltimore. BWI is accessible via an Amtrak or MARC train route that stops at D.C.'s Union Station. A reserved seat on the train will cost up to \$30. Please visit bit.ly/1GuPKrv for more information.

TRAVELING TO MEETING VENUES. The Walter E. Washington Convention Center is located at 801 Mt. Vernon Pl. N.W.

Parking. Most hotels have parking facilities, and visitors can find conve-

nient street or garage parking with apps such as ParkWhiz or SpotHero.

Metrorail. The Walter E. Washington Convention Center has a dedicated Metro station serviced by the Yellow and Green Lines. Metro operates from 5 AM to midnight on weekdays and from 7 AM to midnight on weekends.

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

ACS member services

ACS MEMBER SERVICES. ACS staff can assist you on-site with joining ACS, renewing memberships, adjusting member records, and answering general membership questions. ACS members receive discounted rates when registering for the meeting.

ACS Member Services is located in Salons G/H/I near attendee registration in the Walter E. Washington Convention Center and is open Saturday, Aug. 19, 3 to 6 PM; Sunday, Aug. 20, 7:30 AM to 7:30 PM; Monday, Aug. 21, 7:30 AM to 9 PM; Tuesday, Aug. 22, 7:30 AM to 5 PM; Wednesday, Aug. 23, 7:30 AM to 4 PM; and Thursday, Aug. 24, 7:30 AM to 1 PM.

ONLINE SOCIAL NETWORKING TOOLS. Start discussions and connect with other attendees at the ACS Network and the ACS Facebook page. Follow ACS national meetings on Twitter. Read, comment

on, and share C&EN's coverage of ACS meetings.

ATTENDEE NATIONAL MEETING E-NEWSLETTER.

Receive official updates on ACS national meetings, including locations, registration and accommodation dates, information and discounts, resources, and event details. You can sign up and manage your subscriptions with your free ACS ID. Subscribe at www.emailpref.acs.org.

BUSINESS CENTER. The Capital Business Center, located in the main lobby of the Walter E. Washington Convention Center, offers an array of business services and products tailored to meet your needs. The center ships and receives packages under 150 lb and provides faxing, copying, printing, and notary services as well as computer and internet stations.

MEMBER INSURANCE PROGRAM. Do you need help determining the right amount of financial protection for you and your loved ones? Are you confused about how to plan for your family's financial future? Do you have student debt or a mortgage? Visit the ACS Member Insurance kiosk at the ACS exposition booth 1037 and learn how we can help you protect the elements you've built your life around with plans including Life & Health Insurance, International Term Life, Auto & Homeowners Plus, Disability Income, Long-Term Care, Professional Liability, and more.

If you are a chemistry educator, visit us for a complimentary, 15-minute con-



ACS
Chemistry for Life®

254th ACS National Meeting & Exposition

August 20 - 24, 2017 | Washington, DC

www.acs.org/DC2017 | [#acscdc](https://twitter.com/acscdc)

SHUTTLE SERVICE SCHEDULE

HOURS OF OPERATION

SUNDAY, August 20

7:00 AM - 10:00 AM 15 minute intervals
 10:00 AM - 4:00 PM 30 minute intervals
 4:00 PM - 7:00 PM 15 minute intervals
 7:00 PM - 11:00 PM 30 minute intervals

MONDAY, August 21

7:00 AM - 10:00 AM 15 minute intervals
 10:00 AM - 4:00 PM 30 minute intervals
 4:00 PM - 11:00 PM 15 minute intervals

TUESDAY, August 22

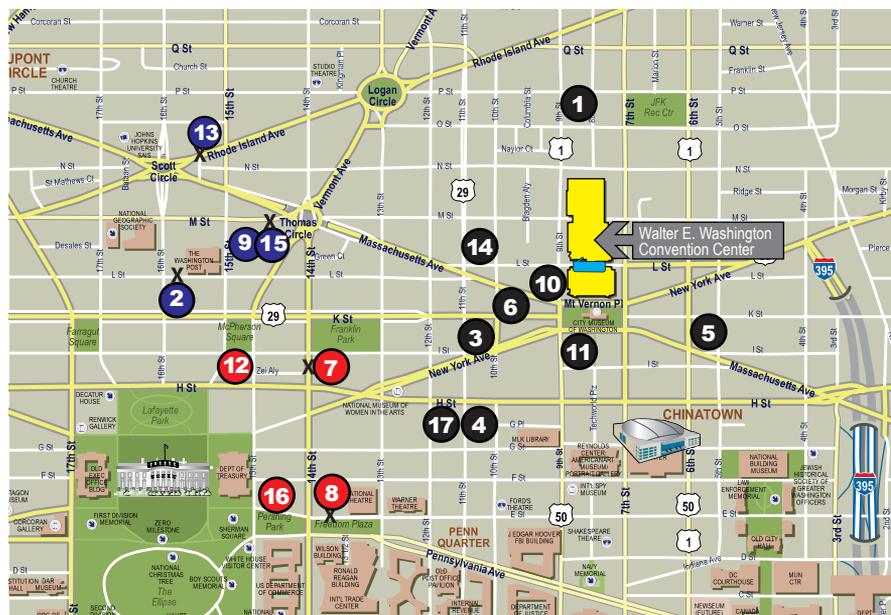
7:00 AM - 10:00 AM 15 minute intervals
 10:00 AM - 4:00 PM 30 minute intervals
 4:00 PM - 11:00 PM 15 minute intervals

WEDNESDAY, August 23

6:30 AM - 11:00 PM 30 minute intervals

THURSDAY, August 24

7:00 AM - 6:00 PM 60 minute intervals



LEGEND

- Route 1
- Route 2
- Walk to Convention Center
- X Boarding Location
- ➔ Shuttle Pickup

Key ... HOTELS	ROUTE	BOARDING LOCATION
1 Cambria Suites Washington DC Convention Center	W	Walk to Walter E. Washington Convention Center
2 Capital Hilton	2	L Street Entrance
3 Embassy Suites by Hilton Washington D.C. - Convention Center	W	Walk to Walter E. Washington Convention Center
4 Grand Hyatt Washington	W	Walk to Walter E. Washington Convention Center
5 Hampton Inn Washington-Downtown-Convention Center	W	Walk to Walter E. Washington Convention Center
6 Henley Park Hotel	W	Walk to Walter E. Washington Convention Center
7 Hilton Garden Inn Washington DC Downtown	1	Main Entrance on 14th Street
8 JW Marriott Washington D.C.	1	Pennsylvania Avenue Entrance
9 Loews Madison Hotel	2	Walk to Westin Washington City Center - M Street
10 Marriott Marquis Washington, DC	W	Walk to Walter E. Washington Convention Center
11 Renaissance Washington, DC Downtown	W	Walk to Walter E. Washington Convention Center
12 Sofitel Washington DC Lafayette Square	1	Walk to Hilton Garden Inn @ 14th & H Street
13 The Darcy, Curio Collection by Hilton	2	Main Entrance - Rhode Island
14 The Morrison Clark Historic Inn	W	Walk to Walter E. Washington Convention Center
15 The Westin Washington DC City Center	2	Main Entrance on M Street - across from hotel
16 W Washington DC	1	Walk to JW Marriott - Pennsylvania Avenue
17 Washington Marriott at Metro Center	W	Walk to Walter E. Washington Convention Center



For all shuttle and wheelchair assistance inquiries, please call:

1-866-439-8564



Scan here to download a copy of this schedule onto your smart phone or device.



Shuttle service managed and operated by
TRANSPORTATION MANAGEMENT SERVICES

Carbon Neutral Shuttles

OFFICIAL HOTEL RESERVATION FORM • DEADLINE: JULY 17, 2017

PLEASE RETURN COMPLETED FORM TO CONFERENCEDIRECT OR CALL ACS HOUSING DIRECTLY TO MAKE YOUR RESERVATION.
Form must be sent via fax or mail due to PCI Compliance Laws.

CONTACT INFORMATION

FIRST NAME		LAST NAME	
COMPANY			
MAILING ADDRESS	CITY	STATE/PROVINCE	ZIP CODE/COUNTRY
E-MAIL ADDRESS	PHONE NUMBER	FAX NUMBER	

OTEL SELECTION: Please list four choices in order of preference. Please reference the Participating Hotel List.

1.	2.
3.	4.

Arrival Date: _____ Departure Date: _____

ROOM TYPE: Single (1 bed/1 person) Double (1 bed/2 persons) Double (2 beds/2 persons) Triple (2 beds/3 persons) Quad (2 beds/4 persons)

List names of all room occupants: 1. _____ 2. _____
3. _____ 4. _____

Check here if you have a disability requiring special services.

Special Requests: _____

- NOTE: Your requests will be honored based on availability. There is no guarantee.

IMPORTANT INFORMATION

DEPOSIT/CANCELLATION POLICY: All reservations require a credit card guarantee. If paying by credit card, a one night's room and tax may be reflected on your credit card statement as early as July 25, 2017 (subject to change). Cancellations must be made at least 72 hours prior to scheduled date of arrival at the hotel for refund of one night's room and tax deposit. In addition to this cancellation policy, the housing bureau, ConferenceDirect, will charge a \$25 cancellation fee for any cancellations made on or after July 25, 2017. Should you cancel, this charge will appear on your credit card statement as "ConferenceDirect LLC."

CHECK PAYMENT POLICY: Checks may include the first night's room rate plus tax to hold the reservation, or the expected full amount for all rooms for all nights. When sending check(s) for multiple rooms, please list the names and acknowledgment numbers corresponding to each reservation that the check applies to. **When paying by check, remember to bring a credit card or cash to the hotel to cover incidental charges to the room(s).**

- Received by July 14th: Make all checks payable to ACS/ConferenceDirect and mail to: 5600 Seventy-Seven Center Dr., Suite 240, Charlotte, NC 28217. CHECKS MUST BE RECEIVED BY July 14, 2017.
- July 14 through July 28: Make all checks payable to the HOTEL and mail them directly to the HOTEL where your reservation is being held as the housing bureau will no longer be accepting checks mailed to our office. Be sure to include "ACS" and your ConferenceDirect acknowledgement number on the check, and attach your acknowledgement/invoice indicating the names corresponding to each reservation. **Until the hotel has received your check, make sure you have guaranteed your reservation(s) with a credit card. PLEASE MAKE SURE TO SEND YOUR CHECK DIRECTLY TO THE HOTEL BY JULY 28 TO ALLOW TIME FOR PROCESSING.**

CREDIT CARD AUTHORIZATION

Credit Card Information (for Deposit): American Express MasterCard VISA Discover

Card # _____ Exp. Date _____

Cardholder Name (Please Print) _____

Cardholder Signature _____

Your hotel reserves the right to charge this card a deposit equal to one night's room and tax for each reservation on or after July 25, 2017.

HOUSING BUREAU CONTACT INFORMATION:

Support E-Mail: acshousing@conferencedirect.com Phone: (844) 293-7040 U.S. Toll-Free or (704) 837-4855 International
Mon.–Fri. 8:30 AM–9:00 PM EDT
Mail: ConferenceDirect 5600 Seventy-Seven Center Dr., Suite 240 Charlotte, NC 28217 Fax: (704) 927-1439

Housing Provided by  ConferenceDirect

sultation about Chemical Educators' Legal Liability and learn how this policy provides the unique coverage necessary for you. Schedule your complimentary consultation at haysconsult.setmore.com.

To learn more about the insurance plans available to you, visit www.acs.org/insurance.

On-site meeting arrangements

ADA-COMPLIANT MEETING. The Walter E. Washington Convention Center provides service ramps to entrances and elevated areas, braille instructions and directions throughout the building, and pay phones on each level of the facility with a telecommunications device with functions for those with hearing impairments. More information is available at www.acs.org/dc2017.

ACS is dedicated to ensuring that no individual with a disability is excluded, denied services, segregated, or otherwise treated differently because of the absence of auxiliary aids and services identified in the Americans with Disabilities Act. If you require special accommodations to participate in the meeting, communicate your needs to ACS Meeting Services by e-mail at nationalmeetings@acs.org, by fax at (202) 872-6128, or by phone at (202) 872-6111 by July 10 to allow enough time to fulfill your request. 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.

ASSISTANCE. Our greeters will be positioned throughout the meeting and can help you navigate the on-site program, find a particular session or room, and answer questions. Lost-and-found items at the convention center should be directed to the ACS Operations Office located in Salon C. Messages left at the ACS Operations Office will be conveyed to attendees via the Meeting Mail system, but ACS cannot accept responsibility for the delivery of any messages, mail, or packages.

ATTENDEE BADGES. Attendees and guests must be registered and display their badges at all times to be admitted to all official ACS sessions and events.

ATTENDEE MESSAGING/MEETING MAIL. After registering for the meeting, you will be assigned a temporary electronic mailbox to exchange personal messages

with other registered attendees via Meeting Mail. Meeting Mail will be available before, during, and after the meeting at www.acs.org/dc2017. Use the Meeting Mail terminals located in the convention center. Telephone messages left at the ACS Information Booths will be conveyed to attendees via the electronic message center, but the society cannot accept responsibility for the delivery of any messages. No one will be paged in meeting rooms.

AUDIO TAPING, PHOTOGRAPHY & VIDEO TAPING. The use of any device to capture images (e.g., cameras, camera phones) or sound (e.g., tape, digital rebroadcast) of speakers or presentations is strictly prohibited at all ACS meetings and events without express written consent from ACS.

CHILD CARE. Camp ACS will be available to all meeting attendees free of charge from 7 AM to 6 PM on Sunday, Aug. 20, through Thursday, Aug. 24. At Camp ACS, children two (and potty trained) to 16 years of age can participate in age-appropriate activities, including arts and crafts and active games, while you enjoy the meeting. To ensure your child's participation, register online by July 29 at www.acs.org/dc2017. For your child's safety, the location of Camp ACS will not be communicated until your registration is confirmed. On-site registration will be accepted on a space-available basis.

ELECTRONIC DEVICES. As a courtesy to other meeting attendees, electronic devices must be operated in silent/vibrate mode within technical or educational sessions. Cell phone conversations are not permitted in meeting rooms.

EMERGENCIES DURING ACS MEETING EVENTS. ACS will place detailed instructions inside each meeting room to be used if an emergency occurs during an ACS meeting event. These instructions will revolve around following the established emergency guidelines of the facility where the emergency occurs. Report emergencies to the nearest security guard or to any ACS Operations Office during the meeting. Should a catastrophic event occur, attendees should follow safety and security instructions issued by the facility where they are located at the time of the event.

HOST LOCAL SECTION. ACS gratefully acknowledges the cooperation and assistance of the Chemical Society of Washington and its members in handling local arrangements. Volunteers have planned many interesting activities; the Host Local Sec-

tion booth will be located in the Walter E. Washington Convention Center L St. South Lobby.

INTERNATIONAL REGISTRANTS. Many international visitors are required to hold a visa before being admitted to the U.S. because of security measures in place at airports and other border crossings. All visa applicants are advised to apply for their visa in their home country as soon as possible. Detailed information for international attendees can be found at www.acs.org/dc2017.

INTERNET & COMPUTER SERVICES. Use our electronic communication services before, during, and after the meeting. Once you get to the meeting, you can access your e-mail and the internet as well as your personal Meeting Mail mailbox from Meeting Mail terminals, which will be located throughout the convention center.

LITERATURE & PRODUCT DISTRIBUTION. Promotions, posters, and literature distribution by attendees, exhibitors, or other groups during the meeting must be done within their own contracted meeting space or exhibit booth and not in public meeting space, with the exception of designated marketing opportunities. No one is authorized to place any promotional items in public meeting space except the ACS Operations Office at a given location. Items left in violation of this policy will be removed and discarded. Literature distribution at specific division tables is under the control of that division, and permission must be secured from the division before placing any items on its table.

LUGGAGE & COAT CHECK. A luggage and coat check station will be available during registration hours Sunday through Thursday at the Walter E. Washington Convention Center, Salons G/H/I. Items left beyond published hours of operation will be turned over to building security at the end of each day.

THANK YOU

The society thanks the many volunteers of the Chemical Society of Washington who are contributing to the 254th ACS National Meeting & Exposition by participating as division officers or program chairs, symposium organizers, session or award presiders, oral and poster presenters, short course or workshop instructors, career consultants, and society governance members.



ACS
Chemistry for Life®

Book your hotel for the American Chemical Society
254th National Meeting & Exposition
August 20-24, 2017 in Washington, DC



HOUSING OPENED **MAY 22, 2017**

Enter the ACS Washington, DC Housing Drawing by staying at a hotel booked through the official ACS Housing Bureau, ConferenceDirect! ACS does not endorse booking reservations through any other housing company.

Top 6 Reasons To Book Through ConferenceDirect:

1. Save with discounted rates at the official hotels
2. Automatically entered into the drawing
3. Complimentary internet access
4. Complimentary shuttle service between the Walter E. Washington Convention Center & many hotels on the ACS housing list
5. Make reservations online or by phone
6. Keep registration fees low helping ACS meet its contractual obligations for the meeting

**DON'T DELAY,
RESERVE YOUR ROOM TODAY!**

www.acs.org/dc2017 or 1-844-293-7040

Monday - Friday, 8:30am - 9pm EDT.
Housing will close July 24, 2017.

Rooms are limited, so make your reservation today.

1st Prize – iPad
2nd Prize – Kindle

Prize Drawing Rules: All winners will be determined on the basis of a random drawing conducted on or about August 31, 2017. Complete details at www.acs.org/dc2017.

Photo courtesy of Destination DC

 **ConferenceDirect®**

MEETING OFFICES. The following ACS offices will be located in the convention center:

Attendee Registration: Salons G/H/I

Career Fair: Halls A/B

Exhibitor Registration: Salons G/H/I

Exposition: Halls A/B

Finance Office: Salon E

Host Local Section Center: L St. South Lobby

Member Services: Salons G/H/I

Press Center: Room 154A

Shuttle Desk: L St.

The following offices are located at the identified properties:

Operations Offices: Walter E. Washington Convention Center, Grand Hyatt Washington, JW Marriott Washington DC, Marriott Marquis Washington DC, Washington Marriott at Metro Center, Renaissance Washington DC Downtown, The Westin Washington DC City Center.

Governance Office: Marriott Marquis Washington DC

Society Programs: Marriott Marquis Washington DC

MOTHERS ROOM. For your convenience and privacy, ACS will provide a room for nursing mothers at the convention center. Please see the Operations Office, Salon C, for access to the room.

SMOKING. ACS policy prohibits smoking in all rooms during ACS functions at the convention center and official hotels. Additionally, the convention center and many of the official hotels are designated as smoke-free environments at all times.

Speaker instructions

All speakers and poster presenters must register and pay the appropriate registration fee to attend the meeting. Invited speakers should contact their symposium organizer or division program chair to clarify terms of their invitation.

All presenters should prepare for their presentation by verifying the following details: the status of their abstract at abstracts.acs.org (using their ACS ID to log in to the system); the mode of presentation (oral or poster); and the time, length, and location of their presentation. Speakers should arrive in their presentation rooms at least 30 minutes before their scheduled speaking time. Poster presenters should set up their poster at least one hour before the start of their poster session. Presenters

who need to withdraw their presentation should send a withdrawal notice to maps@acs.org and contact their symposium organizer immediately.

TECHNICAL SESSION EQUIPMENT. Each technical session meeting room will be equipped with the following: laptop, LCD projector, screen, podium, podium microphone or lapel microphone, and laser pointer. To request other specialty equipment (at the standard fee), contact an ACS Operations Office during the meeting.

SPEAKER READY ROOMS & AUDIO-VISUAL SERVICE CENTERS. Presenters may use the speaker ready rooms to preview their presentation, ensure compatibility with our LCD projectors, or fulfill last-minute audiovisual equipment orders. We strongly recommend that all presenters come to the speaker ready room the day before their presentation to check for connectivity and resolution. The hours of operation will be from 3 to 5 PM on Saturday and 7 AM to 6 PM on Sunday through Thursday. Visit the ACS Operations Office at any ACS property for speaker ready room locations. Speaker ready rooms are not equipped with copy machines. There is a business center located in the main lobby of the convention center that provides a range of services including copying, incoming and outgoing faxes, computer access, laser printing, and shipping.

POSTER SESSIONS. All materials must be

confined to a 4-foot-high by 8-foot-wide display board in the convention center and a 4-foot-high by 6-foot-wide display board in hotels. Presenters must mount their poster one hour before the scheduled session start time. Poster numbers supplied by ACS will be in the upper corner of each poster board; this number corresponds with the number assigned to each poster in the technical program. Pushpins will be available at the poster session. Presenters must remain with their posters for the duration of their scheduled session. All posters must remain up until the session ends and then must be removed within one hour. ACS cannot assume responsibility for materials beyond these time limits.

SCI-MIX POSTER SESSION ONLY. Sci-Mix presenters may begin poster setup at 7:15 PM (45 minutes before the session begins). Each presenter may be accompanied by one assistant only, and both people are required to arrive together when entering the hall. After exiting, presenters will not be permitted to reenter the hall until the session begins at 8 PM.

Abstracts & preprints

ONLINE TECHNICAL PROGRAM. The technical program for the 254th ACS National Meeting is now available at www.acs.org/dc2017. You can search by division or committee, symposium, speaker, or key word from an abstract as well as presiden-

Tips for a safe stay in Washington, D.C.

- ▶ Be aware of you 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 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 has occurred.
- ▶ 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.

tial event and the multidisciplinary theme of “Chemistry’s Impact on the Global Economy.”

ABSTRACTS (USB FLASH DRIVE).

Abstracts of all scientific sessions at the meeting can be purchased in USB flash drive (thumb drive) format through ACS Attendee Registration either online before July 10 or on-site from Aug. 20 to 24. The ACS member fee is \$65 each; the nonmember fee is \$90 each. Attendees can pick up their

abstracts on-site at ACS Attendee Registration at the Walter E. Washington Convention Center. You can have a USB flash drive shipped to you if you place your order before July 10, pay an \$8.00 postage fee per item, and provide a valid street address within the U.S. If you are not attending the meeting, you can purchase abstracts only from the ACS Office of Society Services, 1155 16th St. N.W., Washington, D.C. 20036; (800) 227-5558. Abstract USB flash drives and their shipping costs are nonrefundable.

PREPRINTS/GRAPHICAL ABSTRACTS.

Preprints and graphical abstracts from the following divisions may be ordered directly from each division. You can purchase them via the information below or inquire about these products at the hospitality table for each division near its meeting room.

Energy & Fuels. Visit proceedings.com/2256.html.

Polymer Chemistry. E-mail Kathy Mitchem at kathyl@vt.edu.

Special & educational events

Presidential events

ACS PRESIDENT ALLISON A. CAMPBELL welcomes attendees to the 254th ACS National Meeting. The presidential and cosponsored symposia will focus on areas of significant importance: advocacy and communication, the chemistry of our planet, and the safe practice of science.

Under the presidential theme of science advocacy, President Campbell is hosting an invitation-only ACS Chemistry on the Hill Advocacy Workshop on Sunday morning, Aug. 20. The workshop will provide younger chemists with practical advice on engaging with Congress, as well as hands-on training opportunities via interactive role-playing. Later that afternoon, in conjunction with the Royal Society of Chemistry, “Science Communications: The Art of Developing a Clear Message” will help members share stories on how to positively and effectively communicate chemistry. It will also include an opportunity for audience members to develop and practice an elevator pitch on their chemical research. Also on Sunday, “The Road Less Traveled: Career Opportunities in the Government Sector,” organized by the Younger Chemists Committee, will provide career advice to those looking to expand outside industrial or academic career pathways.

On Monday, the all-day presidential symposium “Building a Safety Culture across the Chemistry Enterprise” will feature a top-down approach in the morning session, followed by grassroots efforts in the afternoon. On the public policy front, the Division of Small Chemical Businesses is organizing the “Working in the Public Sector: Running for Elected Office” symposium, and the Younger Chemists Committee is hosting a symposium on “Chemistry in an

Evolving Political Climate: Research Priorities & Career Pathways in Public Policy.”

“Understanding the Chemistry of Our Planet” will be a highlight symposium all day Tuesday, showcasing renowned researchers discussing the transforming power of chemistry that is ubiquitous to life on Earth. Scientists will present their innovative research on chemistry’s role in our Earth system and humans’ impact to the chemistry of our environment. The National Science Foundation’s Division of Chemistry is organizing an all-day event to talk with members, “The World of Funding Opportunities in Chemistry: A Federal Funders Town Hall,” and “Speed Coaching with Federal Funders.” In the afternoon, the National Academies of Sciences, Engineering & Medicine is hosting a town hall discussion seeking community input for a study on the future of materials research. “Frontiers of Materials Research: A Decadal Survey” will look at defining the frontiers of materials research, ranging from traditional materials science and engineering to condensed-matter physics. Later that evening, the Presidential LGBTQ+ Reception is sure to be a great event with more than 20 committees and divisions cosponsoring.

Nine president-recommended symposia focus on issues of sustainability, highlighting up-and-coming graduate researchers and celebrating diverse practitioners of chemistry. Details of these presidential events and other recommended symposia can be found at www.acs.org/dc2017.

Student & teacher activities

Education-focused programs and specialty

activities are being held for undergraduate students, graduate students and postdoctoral scholars, and high school teachers. Explore these opportunities in depth at www.acs.org/dc2017.

UNDERGRADUATE PROGRAM. A vibrant program designed especially for undergraduate students has been planned by the Society Committee on Education’s Undergraduate Programs Advisory Board. This educational and career-oriented program includes technical symposia and workshops on essential skills for employment in chemistry and success in graduate school. Eminent scientist Mostafa El-Sayed from the Georgia Institute of Technology will present “The Many Great Advantages of Gold Photo-Thermal Therapy of Cancer.”

► Sunday, Aug. 20

Undergraduate Hospitality Center, 8:30 AM to 5 PM

Symposium: Impact of Outreach on the

Future of Chemistry (cosponsored by

YCC, PROF, and CPRC), 9 to 10:30 AM

Graduate School Reality Check, Part I:

Getting In (cosponsored by YCC), 10:30 to 11:45 AM

Graduate School Reality Check, Part II:

You’re In—Now What? (cosponsored by

YCC), 11:45 AM to 1 PM

Networking Basics for Students (cospon-

sored by YCC and PROF), 1 to 2:30 PM

Undergraduate Research Orals 1:30 to

3:30 PM

Networking Social with Graduate School

Recruiters, 2 to 5 PM

ACS on Campus Networking Happy Hour:

Make Connections and Advance Your Career

(sponsored by ACS on Campus), 5:30

to 8:30 PM

► Monday, Aug. 21

Undergraduate Hospitality Center, 8:30 to 10 AM
The Job Hunt: Dos and Don'ts of Applying and Interviewing, 9 to 10:30 AM
Caffeination Station (cosponsored by YCC and PROF), 10:30 to 11:30 AM
Eminent Scientist Lecture & Luncheon with Dr. Mostafa A. El-Sayed, Georgia Institute of Technology (cosponsored by CATL and POLY), noon to 1:30 PM
Undergraduate Research Poster Session (cosponsored by CHED, AGFD, ENVR, INOR, MEDI, PHYS, POLY, GEOC, and BIOT), 2 to 4 PM
Student Speed Networking with Chemistry Professionals, 4 to 5:15 PM
Sci-Mix/Successful Student Chapter Posters, 8 to 10 PM

GRADUATE & POSTDOCTORAL SCHOLARS PROGRAM. The Graduate & Postdoctoral Scholars Office, with support from the Graduate Education Advisory Board, provides and promotes programs and resources for graduate students and postdoctoral scholars.

► Sunday, Aug. 20

ChemIDP: Planning for Your Career, 11:15 AM to 1 PM
Faculty & Postdoc Afternoon Networking Coffee Break, 4 to 6 PM

► Monday, Aug. 21

Student Speed Networking with Chemistry Professionals, 4 to 5:15 PM
Graduate & Postdoctoral Scholars Reception, 7 to 8:30 PM
Academic Employment Initiative (AEI), 8 to 10 PM

For more information about these events and other ACS programs offered to graduate students and postdocs, visit www.acs.org/grad or contact the ACS Graduate & Postdoctoral Scholars Office at graded@acs.org or at (800) 227-5558, ext. 4588.

HIGH SCHOOL CHEMISTRY TEACHER PROGRAM. The Division of Chemical Education and the ACS Education Division are sponsoring the Chemistry Teacher Program. It will include presentations on current pedagogies, resources, and activities. The High School-College Interface Luncheon will bring together educators from all grade levels with the goal of facilitating an exchange of ideas and net-

working among teachers and professors. Deborah Blum, the author of "The Poisoner's Handbook," will present after the luncheon.

High school and middle school teachers can register for the program directly through Attendee Registration as a precollege teacher; the special registration fee includes program materials, lunch, access to the full ACS meeting, and entry to the exposition.

► Sunday, Aug. 20

Chemistry Teacher Program, 8:30 AM to 4:30 PM

► Monday, Aug. 21

Materials That Impact Our Daily Lives & the Global Economy: Bring Practical Applications into the Chemistry Classroom, 1:30 to 5 PM

For more information, visit www.acs.org/chemistryteacherprogram, or contact the Office of High School Chemistry at education@acs.org or (800) 227-5558 ext. 2105.

Workshops

The following workshops require a separate registration process and/or entry fee to participate in the event, as indicated in this listing. Participation is open to all interested registrants.

Division of Chemical Health & Safety (CHAS)-sponsored workshop fees (unless otherwise indicated). CHAS member: full registration \$375/early registration \$300; non-CHAS member: full registration \$425/early registration \$350. Early registration ends June 26. K-12 science teachers who are American Association of Chemistry Teacher members: \$99. Need-based scholarships are available for K-12 science teachers; contact scholarships@labsafetyinstitute.org.

Registration is required for all CHAS workshops. Register online at dchas.org/workshop-registration-page.

Laboratory Safety: Advanced Concepts.

Friday, Aug. 18, 8 AM to 5 PM. Walter E. Washington Convention Center. The Laboratory Safety Institute will present a new course that is designed to meet the needs of scientists and science educators wanting to learn more about laboratory safety. Laboratory Safety: Beyond the Fundamentals continues where LSI's introductory course (Laboratory Safety Workshop) leaves off and explores new areas in lab safety. There is an emphasis on simple and inexpensive

steps to create more effective lab safety programs and grow the culture of lab safety. The workshop will have extensive opportunity for questions with follow-up by phone and e-mail. This includes a one-hour conference call to help with implementation of course concepts.

Course participants are encouraged to submit in advance five questions or topics they wish to be sure are covered in the course: jim@labsafetyinstitute.org.

Laboratory Waste Management. Friday, Aug. 18, 8 AM to 5 PM. Walter E. Washington Convention Center. CHAS offers the Laboratory Waste Management workshop to assist participants with the various regulatory requirements that apply to laboratories that generate hazardous waste, as well as to provide insight into the options for on-site management and off-site disposal. Focus will include discussion on recycling and reclamation techniques, economical handling of wastes, and liability issues. The workshop will have extensive opportunity for questions with follow-up by phone and e-mail.

Cannabis Extraction. Saturday, Aug. 19, 8 AM to noon. Walter E. Washington Convention Center. CHAS and CANN (Cannabis Chemistry Subdivision) present a Cannabis Extraction workshop, which is a comprehensive review of current methodologies and best practices in the extraction and processing of cannabis. Participants will learn the latest developments in extraction technologies, how to comply with regulations, and how to operate safely. The workshop will have extensive opportunity for questions with follow-up by phone and e-mail.

Cannabis Analysis. Saturday, Aug. 19, 1:30 to 5 PM. Walter E. Washington Convention Center. CHAS and CANN present a Cannabis Analysis workshop, which is a comprehensive review of current testing requirements, methodologies, and best practices in the analysis of cannabis and cannabis-infused products. Participants will learn how to overcome testing challenges, how to comply with standards, and how to operate safely. The workshop will have extensive opportunity for questions with follow-up by phone and email.

Reactive Chemical Management for Laboratories & Pilot Plants. Saturday, Aug. 19, 8 AM to 5 PM. Walter E. Washington Convention Center. Chemical reactivity hazards contribute to a significant number of incidents in laboratories and pilot plants.

This workshop will provide participants with the knowledge and skill to screen processes for potential hazards, recognize when reactive hazards are present, and implement appropriate controls to reduce the risk of an incident associated with the hazards. Workshop attendees will review case studies of actual incidents and do screening examples to understand the screening and recognition process. Group discussions of control methods will allow participants to share their experiences and to evaluate methods for controlling reactivity risks.

How to Be a More Effective Chemical Hygiene Officer. Saturday, Aug. 19, 8 AM to 5 PM. Walter E. Washington Convention Center. CHAS offers the How to Be a More Effective Chemical Hygiene Officer (CHO) workshop to provide participants with a detailed analysis of the CHO position and to prepare for the CHO certification exam. Participants receive a clear perspective on safety issues in the laboratory, focusing on what the CHO does and how to do it better. The workshop covers the content areas of the certification exam, including a sample test in the same format as the real one. Whether you are a new CHO or an “old” one, you will find something to put to real use in this fast-paced presentation. The workshop will have extensive opportunity for questions with follow-up by phone and e-mail.

Using ACS Resources to Teach Lab Safety. Saturday, Aug. 19, Walter E. Washington Convention Center. Over the past few years, ACS has released several important new resources and updated others to support teaching laboratory safety at a variety of academic levels, from secondary school to undergraduate and research settings. They are built around the RAMP paradigm supported by the ACS Committee on Professional Training guidelines.

This two-part workshop will discuss how ACS publications can be used to support chemical safety education and to promote a proactive safety culture in these settings. Each module, which has separate but complementary content, can be taken individually for an early registration price of \$175 (\$99 for AACT members), or both can be taken for \$350 (\$198 for AACT members).

Part 1: ACS Safety Tools for Secondary School and Undergraduate Labs. 8 AM to noon. This module will use a variety of tools available from ACS to cover topics such as recognizing hazards, assessing basic risks, understanding the Globally Harmonized System of Classification and Labeling,

selecting personal protective equipment, engineering controls, and safely managing and storing chemicals and chemical waste. The information presented in this module is appropriate for secondary school teachers (including those who are preservice) as well as undergraduate faculty.

Part 2: ACS Safety Tools for Chemistry Majors and Research Laboratories. 1:30 to 5 PM. In 2016, ACS released an updated web version of its “Identifying and Evaluating Hazards in Research Laboratories” document. The methods outlined in this document are designed to address operations in research laboratory settings, which are less defined and more changeable than those in teaching settings. The workshop focuses on the Job Hazard Analysis and Control Banding tools, which are appropriate for most laboratory research at the undergraduate level. Examples of Lessons Learned programs in the research setting will also be reviewed.

Career Launch & Acceleration for Postdoctoral Associates/COACH-the-COACHes Training. Saturday, Aug. 19, 8 AM to 5 PM. Renaissance Washington DC Downtown. Sponsored by COACH. Learn how to assimilate fundamentals of responsible negotiation and communication skills. Attendees will examine the Best Alternative to a Negotiated Agreement (BATNA) concept as a tool to prepare and build confidence and will learn communication styles that are effective for women, how to project confi-

dence, and how to use powerful rather than weak words. Discussions will focus on making the best impression in the job interview process, succeeding in the negotiating stage, and securing an academic appointment that will position you for career success. This workshop will be held concurrently with the COACH-the-COACHes workshop. Pre-register at coach.uoregon.edu. Registration is free; travel assistance is available. For more information, contact Priscilla Lewis at coach@uoregon.edu or (541) 346-0116.

COACHing Strong Women in Negotiation and Leadership. Saturday, Aug. 19, 8 AM to 5 PM. Renaissance Washington DC Downtown. Build understanding of mutual-interest-based negotiations and problem solving, useful skills in both individual and leadership contexts. The content will focus on understanding the other parties' interests as well as negotiating for what you need to be successful. Skills taught include how to enhance personal presence with verbal and nonverbal use, how to develop options that enhance the chance of reaching an agreement, and how to lead groups using these skills. Participants will evaluate their personal conflict-resolution styles using case studies. The cases reinforce the use of effective negotiating styles and help define patterns of negotiations when choice and stress are factors. Development of supporting data, options, and packaging solutions are examined relative to the case studies.

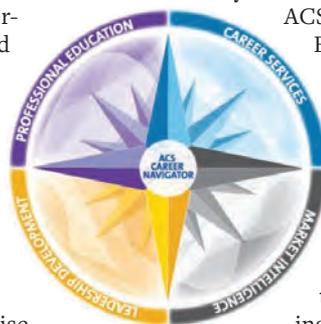
ACS Career Navigator

ACS Career Navigator is your home for career services, leadership development, professional education, and market intelligence resources. We offer comprehensive and easily identified tools to help you achieve your career goals by landing a new job, finding a new career path, comparing your salary, and viewing current trends in the chemistry enterprise to make more informed decisions.

Opportunities abound at the ACS national meeting in Washington, D.C., for career development. Take advantage of the resources and tools the ACS Career Navigator offers to help you succeed in the global scientific enterprise.

Are you ready to get started? Refresh your skills and branch into new areas of emerging science and advanced applications with an ACS Short Course. Take an ACS Leadership Development System course to gain skills that can be immediately applied in school or on the job. If you are an ACS member, stop by the

ACS Career Fair in the Walter E. Washington Convention Center and speak to a personal career consultant or get a professional headshot taken. In short, whatever your career goals, the ACS Career Navigator is here to help you achieve and exceed them. We'll see you in Washington, D.C.



ACS Career Fair

Job seekers, are you looking to jump-start your job search or enhance your professional development?

Employers, are you looking to hire scientists and engineers? Then you need to attend the ACS Career Fair, open Sunday–Wednesday, Aug. 20–23, 9 AM to 5 PM. The career fair is the place where the best talent and the best employers in chemistry meet.

The ACS Career Fair provides on-site activities for job seekers to help them reach their career goals. ACS will help you prepare for your next career move by providing resources that make it possible to map out your personal job search strategy, strengthen your résumé, and build your interview skills, all with the support of career consultants. During the career fair, ACS members can take full advantage of the following:

- ▶ Networking opportunities
- ▶ Résumé reviews
- ▶ One-on-one career consulting
- ▶ Interview practice and skills building
- ▶ More than 30 career-related workshops
- ▶ Keynote speakers presented live and via webcast
- ▶ Live, on-site interviews on request

Not an ACS member? You are welcome to network and engage with employers on the expo floor.

Please note: We cannot guarantee that you will secure interviews at the ACS Career Fair. Interviewing is strictly contingent on the availability of positions and the credentials and qualifications that employers are seeking.

One-on-one career consulting. Individual, 30-minute appointments with career consultants are available on-site and online. These consults can help you strengthen your résumé, improve your interviewing skills, and design a job search or comprehensive professional growth strategy. Please bring a copy of your résumé or CV to all appointments. All one-on-one on-site career consulting sessions will take place in the Résumé Review/Mock Interview area in the ACS Career Fair. Sign-up begins at 9 AM on Sunday, Aug. 20, on a first-come, first-served basis.

Career and professional development workshops. Our career-related workshops on varying topics will help you with everything from improving your résumé to optimizing job performance to acing an interview. Workshop times are subject to change. Please consult the online workshop schedule at www.acs.org/careers for locations.

▶ Sunday, Aug. 20

New Technologies to Find Jobs and Manage Your Career, 9:30 to 11 AM

ChemIDP: Planning for Your Career, 11:15 AM to 1 PM

Careers in Industrial Chemistry: Identifying Your Role in the Industrial Value Chain, 1 to 3 PM

Setting Yourself Up for Success in an Interview, 1 to 3 PM

Finding Yourself: Identifying a Career That Matches Your Strengths and Values, 1 to 4 PM

Making the Most of Your Interview: Outshine the Competition, 3:30 to 5:30 PM

Résumé Development: Marketing Your Brand for an Industrial Chemistry Position, 3:30 to 5:30 PM

Networking: How to Get Started, 4:30 to 5:30 PM

▶ Monday, Aug. 21

Finding Your Market, Defining Your Business, 8 to 10 AM

The Higher-Ed Landscape, 8 to 10 AM

Opportunities for Chemists in the Federal Government, 8 to 10 AM

Higher Ed: Presenting Yourself, 10:30 AM to 12:30 PM

How to Find and Apply for a Chemistry Position in the Federal Government, 10:30 AM to 12:30 PM

Your Sales, Marketing & Financing Plan, 10:30 AM to 12:30 PM

Careers in Industrial Chemistry: Identifying Your Role in the Industrial Value Chain, 1 to 3 PM

Setting Yourself Up for Success in an Interview, 1 to 3 PM

Finding Yourself: Identifying a Career That Matches Your Strengths and Values, 1 to 4 PM

Making the Most of Your Interview: Outshine the Competition, 3:30 to 5:30 PM

Résumé Development: Marketing Your Brand for an Industrial Chemistry Position, 3:30 to 5:30 PM

Networking: How to Get Started, 4:30 to 5:30 PM

▶ Tuesday, Aug. 22

Careers in Industrial Chemistry: Identifying Your Role in the Industrial Value Chain, 8 to 10 AM

Setting Yourself Up for Success in an Interview, 8 to 10 AM

Finding Yourself: Identifying a Career

That Matches Your Strengths and Values, 8 to 11 AM

Making the Most of Your Interview: Outshine the Competition, 10:30 AM to 12:30 PM

Networking: How to Get Started, 11:30 AM to 12:30 PM

Résumé Development: Marketing Your Brand for an Industrial Chemistry Position, 10:30 AM to 12:30 PM

The Higher-Ed Landscape, 1 to 3 PM

Opportunities for Chemists in the Federal Government, 1 to 3 PM

Foreign National Scientist Obtaining a Job in the U.S., 1:30 to 3 PM

Writing Excellent Proposals, 3:30 to 5 PM

How to Find and Apply for a Chemistry Position in the Federal Government, 3:30 to 5:30 PM

Higher Ed: Presenting Yourself, 3:30 to 5:30 PM

▶ Wednesday, Aug. 23

Careers in Industrial Chemistry: Identifying Your Role in the Industrial Value Chain, 8 to 10 AM

Setting Yourself Up for Success in an Interview, 8 to 10 AM

Finding Yourself: Identifying a Career That Matches Your Strengths and Values, 8 to 11 AM

Making the Most of Your Interview: Outshine the Competition, 10:30 AM to 12:30 PM

Résumé Development: Marketing Your Brand for an Industrial Chemistry Position, 10:30 AM to 12:30 PM

Networking: How to Get Started, 11:30 AM to 12:30 PM

Employers: Find the talent you need at the ACS Career Fair. Leading employers around the world trust and depend on ACS to provide them with the talent they need to innovate and excel. At our last event, approximately 1,000 global job seekers—from recent grads to seasoned professionals—met with recruiters seeking to fill positions in all facets of chemistry, pharmaceuticals, and biotechnology.

The ACS Careers Jobs Database can help manage your employer account, post jobs, search for qualified candidates, and schedule career fair interviews. Moreover, participating in the ACS Career Fair enables you to accomplish the following:

- ▶ Connect with top talent via on-site interviews.
- ▶ Screen candidates, and make appointments in advance.
- ▶ Find the personnel your company needs

to thrive, from entry- to executive-level positions.

- ▶ Meet qualified candidates informally via networking forums.
- ▶ Extend your presence for 30 days after the career fair via the ACS jobs database.

Looking for a more traditional career fair experience? Employers can purchase booth space inside the exposition hall, enabling your company to maximize its ability to showcase products and services and connect with job seekers. Employers can sign up for the ACS Career Fair Recruiters Row package online at www.acs.org/careers.

Employers will receive an e-mail confirmation and must visit the ACS Career Fair Information Booth to pick up their blue badge. For more information, please visit www.acs.org/careerfair. You can also contact Heather McNeill at by phone (202) 452-8918 or by e-mail at h_mcnell@acs.org.

ACS Professional Education Short Courses

The following short courses, specifically designed to improve the skills and marketability of chemical scientists and technicians, are offered in conjunction with the national meeting. ACS member, early registration, and group discount rates are available. A course fee and registration separate from the national meeting are required. For more information on ACS Short Courses, to obtain pricing details, or to view a full course catalog, visit www.proed.acs.org. If you have questions, call (202) 872-4508, fax (202) 872-6336, or e-mail proed@acs.org.

ANALYTICAL

Essentials of Modern HPLC/UHPLC 1: Fundamentals & Applications,

Aug. 19

Analysis & Interpretation of Mass Spectral Data, Aug. 19–20

Essentials of Modern HPLC/UHPLC 2: Practice, Operation, Troubleshooting & Method Development, Aug. 20

1-D & 2-D NMR Spectroscopy: Structure Determination of Small-Molecule Organic Compounds, Aug. 22–23

BIOLOGICAL/PHARMACEUTICAL/MEDICINAL CHEMISTRY

Application of Pharmacokinetics & Safety Pharmacology for Chemists in Drug Development, Aug. 19–20

COMPUTERS/STATISTICS/ENGINEERING

Chemical Engineering for Chemists,

Aug. 19–20

Experimental Design for Productivity and Quality in Research & Development,

Aug. 19–21

ORGANIC/PHYSICAL CHEMISTRY

1-D & 2-D NMR Spectroscopy: Structure Determination of Small-Molecule Organic Compounds, Aug. 22–23

Dispersions in Liquids: Suspensions,

Emulsions & Foams, Aug. 21–22

Organic Synthesis: Methods & Strategies for the 21st-Century Chemist, Aug. 19–20

POLYMER CHEMISTRY

Polymeric Coatings, Aug. 19–20

Polymer Science & Technology, Aug. 19–20

PROFESSIONAL DEVELOPMENT

Effective Technical Writing, Aug. 19–20

Project Management for Technical Professionals, Aug. 19–20

Write Your Own Patent Applications,

Aug. 20

Chemistry for Nonchemists: The Basics, Language & Function of Chemistry, Aug. 22–23

REGULATORY/ENVIRONMENTAL

Quality Management of the Laboratory,

Aug. 20

Intellectual Property Strategies for Technical Professionals, Aug. 20

Methods Development, Validation Procedures & Regulatory Compliance Issues,

Aug. 19–20

Write Your Own Patent Applications,

Aug. 20

Highlights of FDA and Other cGMP Regulations, Aug. 21

2017 ACS Leadership Development System course offerings

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. The following four-hour facilitated courses refundable deposit of \$50 each (refunded after attendance) for ACS members and \$300 each for nonmembers. Register for these courses when you register for the meeting. For more information and full course descriptions, visit www.acs.org/leadershipdevelopment.

Collaborating across boundaries. Sunday, Aug. 20, 1 to 5 PM. Do you work with people from other departments or from other countries? As the world becomes more complex, the ability to reach across boundaries to work on projects and share information is critical to organizational success. It's a matter not just of communication but also of genuine collaboration—working in partnership to achieve common goals, create innovative solutions, and share expertise. Learn strategies and tools to be more effective in leading collaborative efforts, and gain practical skills that you can apply immediately in the lab, at school, in the office, or at ACS.

Leading change. Monday, Aug. 21, 8 AM to 12 PM. If you are involved in shifting team priorities, changing the direction of a project, or reconfiguring teams, understanding how people react to change and how to help yourself and others effectively deal with the changes is a key to increasing your professional success. This four-hour course provides you with a stepwise process to lead change and guide others more effectively through the change process.

Strategic planning. Monday, Aug. 21, 1 to 5 PM. Gain understanding of the structure and contents of a strategic plan as well as the impact that strategy has on your work and an organization's success. You will learn how to become a “partner in planning” with other leaders as you develop a plan for your unit that aligns with the executive-level strategic goals.

Fostering innovation. Tuesday, Aug. 22, 8 AM to noon. Keeping pace in an environment of constant change requires innovation. Whether you are part of a nonprofit, business, or academic environment, the ability to contribute to the creation of new ideas, new processes, and new approaches is a key to success. Coming up with new ideas is challenging, and few of us have the tools and skills to do this effectively. This course will teach a proven, systematic process to generate ideas. You will learn your innovation style and how to stimulate innovative thinking among team members and colleagues.

Leading without authority. Tuesday, Aug. 22, 1 to 5 PM. Whether in a lab, in the office, in the classroom, or on a volunteer committee, you will likely find yourself leading others without formal or “positional” authority and need to be able to influence them to accomplish the project. This four-hour, interactive workshop provides

practical tools to help you gain cooperation and engage others in accomplishing the project and team goals.

Exposition

SEE WHAT'S NEW INSIDE THE EXPOSITION. Visit the ACS National Exposition at the Walter E. Washington Convention Center, Halls A & B, from Sunday, Aug. 20, through Tuesday, Aug. 22. The show hours will be Sunday, 6 to 8:30 PM, and Monday and Tuesday, 9 AM to 5 PM.

Companies will showcase services, instruments, books, computer hardware, scientific software, and an array of chromatographic, lab, and safety equipment. Technical personnel will be available to give demonstrations, answer questions, and discuss your specific needs and interests. Join us at the ACS booth in the middle of the exposition floor, where ACS staff units will present the many benefits, services, products, and merchandise offered by ACS.

Visit the revamped ACS Career Fair inside the Exposition where you'll meet recruiters from top employers. Create an online profile and upload your résumé to our database, where recruiters can schedule in-person interviews with you. While at the career fair, network with potential employers and drop off your résumé, attend Career Pathways workshops, and meet with ACS career consultants.



Online exposition. The online exposition is a component within the exhibitor directory that enables attendees to view videos, press releases, brochures, and flyers of participating exhibitors. Access the online exposition at www.acs.org/dc2017 to learn more about exhibiting companies and to download product information.

Free exhibitor workshops. Exhibitors will host free workshops on the exposition floor and in private rooms inside the convention center. These workshops will

introduce new products and services, build skills with specific tools and techniques, and highlight innovative applications that may improve your productivity. Exhibitor workshop registration will be available at www.acs.org/dc2017 on June 16.

Special events. Join us for several ACS division poster sessions on the expo floor. Don't forget to visit us on Sunday from 6 to 8:30 PM for the Attendee Welcome Reception. Have an afternoon break while meeting the ACS president-elect candidates inside the exposition on Monday from 1 to 3 PM. Take another afternoon break on Tuesday from 3 to 5 PM and visit the exhibitors before the exposition closes.

Internet & technology. Use free internet access and leave messages for one another at the Meeting Mail terminals located throughout the meeting and inside the exposition. Also enjoy free Wi-Fi service at the convention center.

Admission requirements & expo-only registration. Exposition admission is complimentary for all national meeting registrants; however, you are required to wear your badge. Individuals who want to visit the exhibits without registering for the technical component of the national meeting can obtain an expo-only badge for \$60. Students with school identification can obtain an expo-only badge for \$30. Registration can be handled online, by mail, or in person at ACS Attendee Registration at the convention center.

Governance meetings

Board & council meetings

ACS BOARD OF DIRECTORS. The ACS Board of Directors meeting, open to members who wish to participate, will be held in the Walter E. Washington Convention Center from 11:45 AM to 1 PM on Sunday, Aug. 20.

ACS COUNCIL. The ACS Council meeting will begin at 8 AM, Wednesday, Aug. 23, at the Marriott Marquis Washington DC. The meeting will be preceded by a continental breakfast for councilors beginning at 7 AM. Councilors are asked to check in beginning at 7 AM and proceed to the breakfast area, keeping in mind that the meeting starts promptly at 8 AM. 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 of the society's operation. Alternate councilors and division and local section officers are particularly urged to attend.

Committee agenda

The Committee on Committees has clarified three types of committee meetings:

Open. May be attended by any ACS member. At these sessions, 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

For the complete list of committee meetings and agendas, please consult www.acs.org/dc2017.

is that participation is welcomed and will be orderly and courteous. Only committee members can vote.

Executive. Attendance and participation are limited to officially appointed/elected committee members, associates, advisers, consultants, staff liaisons, and the appointed Committee on Committees liaison. Liaisons from other groups and ex officio and elected councilors may attend; participation by these groups would be at the invitation of the chair. Only committee members can vote.

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

During the open and executive committee meetings, ACS members are given a chance to express their views on issues under consideration before these issues are acted on by the board or the council or to bring up other subjects that deserve attention. Members are urged to examine the agenda and make known any opinions or ideas they may have. If you cannot attend the particular sessions involved, write to the officers listed or ask someone attending the session to speak on your behalf. For further information, contact the officers listed.

► Budget & Finance

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

Open Session
Saturday, Aug. 19, 8 to 10:30 AM
Marriott Marquis Washington DC

► Chemical Safety

Elizabeth M. Howson, chair; safety@acs.org

Open Executive Session
Saturday, Aug. 19, 8:15 to 9:45 PM
Marriott Marquis Washington DC
and
Monday, Aug. 21, 7 to 8:30 AM
Marriott Marquis Washington DC

► Chemistry & Public Affairs

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

Open Session
Saturday, Aug. 19, 3 to 4:30 PM
Marriott Marquis Washington DC

► Chemists with Disabilities

John J. Johnston, chair; USDA-FSIS, 2150 Centre Ave., Fort Collins, CO 80526-8116

Open Executive Session
Sunday, Aug. 20, 8:30 AM to 4:30 PM
Marriott Marquis Washington DC

► Committees

Wayne E. Jones Jr., chair; Department of Chemistry, Binghamton University, SUNY, 4400 Vestal Pkwy. East, Binghamton, NY 13902-6000

Open Session
Monday, Aug. 21, 1:30 to 2:15 PM
Marriott Marquis Washington DC

► Community Activities

Michael B. McGinnis, chair; dean, College of Science & Mathematics, Norwich University, 158 Harmon Dr., Northfield, VT 05663; outreach@acs.org

Closed Executive Session
Sunday, Aug. 20, 10 AM to noon
Marriott Marquis Washington DC

CCA/LSAC Joint Open Session
Tuesday, Aug. 22, 2 to 3:30 PM
Marriott Marquis Washington DC

► Constitution & Bylaws

James C. Carver, chair; the Carver Law Firm, 451 Florida St., Suite 750, Baton Rouge, LA 70801; bylaws@acs.org

Executive Session
Sunday, Aug. 20, 10 to 11:30 AM and 1:45 to 4:30 PM
Marriott Marquis Washington DC

Open Session
Sunday, Aug. 20, 1:30 to 1:45 PM
Marriott Marquis Washington DC

► Corporation Associates

Diane Grob Schmidt, chair;
d_schmidt@acs.org

Open Session
Monday, Aug. 21, 8 AM to noon
Marriott Marquis Washington DC

► Council Policy

Mary K. Carroll, vice chair; cpc@acs.org

Open Executive Session
Tuesday, Aug. 22, 9:30 AM to noon
Marriott Marquis Washington DC

► Divisional Activities

Rodney M. Bennett, chair;
rodbennett@acs.org

Open Session
Sunday, Aug. 20, 8 AM to noon
Marriott Marquis Washington DC

► Economic & Professional Affairs

Rick Ewing, chair; ewingwre@comcast.net

Executive Session
Saturday, Aug. 19, 8 AM to 3 PM
JW Marriott Washington DC

Open Session
Saturday, Aug. 19, 3 to 5:30 PM
JW Marriott Washington DC

► Education

Diane Krone, chair;
kroned@alumni.stevens.edu

Executive Session
Friday, Aug. 19, 1 to 5:30 PM
Marriott Marquis Washington DC

Open Session
Monday, Aug. 21, 3 to 4 PM
Marriott Marquis Washington DC

► Environmental Improvement

Anthony (Tony) Noce, chair; cei@acs.org

Breakfast/Open Session
Monday, Aug. 21, 7:45 to 9 AM
Renaissance Washington DC

► Ethics

Keith Vitense, chair; Physical Science Department, Cameron University, 2800 West Gore Blvd., Lawton, OK 73505-6320

Open Executive Session
Sunday, Aug. 20, 9 AM to 4:30 PM
Marriott Marquis Washington DC

► International Activities

Ellene Tratras Contis, chair; c/o ACS Office of International Activities, 1155 16th St. N.W., Washington, DC 20036

Open Session
Saturday, Aug. 19, 1 to 3 PM
Marriott Marquis Washington DC

▶ Local Section Activities

Jason Ritchie, chair; Department of Chemistry & Biochemistry, the University of Mississippi, 222 Coulter Hall, University, MS 38677; jritchie@olemiss.edu

Open Executive Session
Sunday, Aug. 20, 8 AM to noon
 Marriott Marquis Washington DC

LSAC/CCA Joint Open Session
Tuesday, Aug. 22, 2 to 3:30 PM
 Marriott Marquis Washington DC

▶ Meetings & Expositions

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

Open Executive Session
Sunday, Aug. 20, 7:30 to 10 AM
 Walter E. Washington Convention Center

Closed Executive Session
Sunday, Aug. 20, 10 AM to noon
 Walter E. Washington Convention Center

▶ Membership Affairs

Margaret J. Schooler, chair; 5 Alexander Ct., Hockessin, DE 19707

Closed Session
Sunday, Aug. 20, 7:15 AM to 3 PM
 Marriott Marquis Washington DC

Open Session
Sunday, Aug. 20, 3 to 4 PM
 Marriott Marquis Washington DC

▶ Minority Affairs

Madeleine Jacobs, chair;
 madeleine.s.jacobs@gmail.com

Closed Executive Session
Sunday, Aug. 20, 8 AM to 12:30 PM
 Marriott Marquis Washington DC

Open Session
Sunday, Aug. 20, 12:30 to 2 PM
 Marriott Marquis Washington DC

▶ Nomenclature, Terminology & Symbols

Michael D. Mosher, chair; University of Northern Colorado; michael.mosher@unco.edu

Open Session

Monday, Aug. 21, 2 to 5 PM
 Marriott Marquis Washington DC

▶ Nominations & Elections

Les W. McQuire, chair; nomelect@acs.org

Open Executive Session
Monday, Aug. 21, 11:30 AM to noon
 Marriott Marquis Washington DC

▶ Patents & Related Matters

Sadiq Shah, chair; sadiq@utpa.edu

Open Session
Saturday, Aug. 19, 9 AM to 4 PM
 Marriott Marquis Washington DC

▶ Professional Training

Thomas J. Wenzel, chair; Department of Chemistry, Bates College, 2 Andrews Rd., Lewiston, ME 04240; cpt@acs.org

Open Session
Sunday, Aug. 20, 4 to 5 PM
 JW Marriott Washington DC

▶ Project SEED

Anna G. Cavinato, chair; Department of Chemistry, Eastern Oregon University, 1 University Blvd., LaGrande, OR 97850-2807

Closed Executive Session
Saturday, Aug. 19, 10:30 AM to 5 PM
 Marriott Marquis Washington DC

Open Session
Sunday, Aug. 20, 8 to 9 AM
 Marriott Marquis Washington DC

▶ Public Relations & Communications

Jennifer Maclachlan, chair; PID Analyzers, 2 Washington Cir., Sandwich, MA 02563; pidgirl@gmail.com

Open Executive Session
Tuesday, Aug. 22, 8 AM to 1 PM
 Marriott Marquis Washington DC

▶ Publications

Nicole S. Sampson, chair; Department of Chemistry, Stony Brook University, 100 Nicolls Rd., Stony Brook, NY 11794-3400

Executive Session

Friday, Aug. 18, 1 to 4:30 PM
 Walter E. Washington Convention Center

Open Session

Friday, Aug. 18, 4:30 to 5 PM
 Walter E. Washington Convention Center

▶ Science

Mark C. Cesa, chair; markcesa@comcast.net

Open Session
Saturday, Aug. 19, 8:30 AM to 4:30 PM
 Marriott Marquis Washington DC

▶ Senior Chemists

Thomas R. Beattie, chair;
 silvercircle@acs.org

Open Executive Session
Monday, Aug. 21, 8 AM to 1 PM
 Marriott Marquis Washington DC

▶ Technician Affairs

Kara M. Allen, chair; cta@acs.org

Closed Executive Session
Sunday, Aug. 20, 8 AM to 2 PM
 Marriott Marquis Washington DC

Open Executive Session
Sunday, Aug. 20, 2 to 2:30 PM
 Marriott Marquis Washington DC

▶ Women Chemists

Laura Sremaniak, chair; wcc@acs.org

Executive Session
Saturday, Aug. 19, 8 AM to 5 PM
 Marriott Marquis Washington DC

▶ Younger Chemists

Natalie A. LaFranzo, chair;
 nlafranzo@gmail.com

Closed Session
Saturday, Aug. 19, 8 AM to 3 PM
 Marriott Marquis Washington DC



ACS
Chemistry for Life®

ADVANCE REGISTRATION FORM
AMERICAN CHEMICAL SOCIETY • 254TH NATIONAL MEETING & EXPOSITION
AUGUST 20 – 24, 2017 • WASHINGTON, D.C.

4 ways to register: (see Registration Procedures)

Online: <http://www.acs.org/dc2017> (credit cards only).
Phone: 508-743-0192 or 800-251-8629, Monday - Friday, 9 AM to 5 PM EST (credit cards only) by August 24, 2017.
Mail: completed form with payment to: ACS Registration c/o CDS, 107 Waterhouse Road, Bourne, MA 02532 by July 10, 2017.
Fax: completed form with payment to: 508-743-9604 (credit cards only) by August 24, 2017.

– REGISTRANT INFORMATION

Dr. Prof. Mr. Ms. Mrs. ACS Membership # _____ (Required for member discount)

First Name _____ Last Name _____ Title _____

Company/Institution/Agency _____

Street Address _____

City _____ State/Province _____ Zip/Postal Code _____ Country _____

Phone _____ Ext. _____ Fax _____ E-mail Address _____

Emergency Contact Name _____ Emergency Contact Number _____ Cell Number _____

With your approval, ACS show management will be sending meeting alerts & special offers by text messaging. Regular text messaging rates may apply. Yes I accept or No I do not accept
How would you like to receive your meeting announcements, networking connections, and exhibitor promotions before, during, and after the meeting?

(check all that apply) Mail E-mail Do not contact me

Do you require special services or auxiliary aids in order to participate in the meeting? Yes No Describe _____

DEMOGRAPHICS

1. Professional Affiliation (check one)
 (a) Academia (b) Government (c) Industry (d) Student
 (e) Other _____

2. Highest Degree Received (check one)
 (A) A.S./A.A.S. (Associate Degree) (B) B.S./B.A. (Baccalaureate Degree)
 (C) M.S. (D) Ph.D. (E) Still in school (degree not completed)
 (F) Other _____

3. Professional Concentration (check all that apply)

<input type="checkbox"/> (A) Aerospace/Transportation	<input type="checkbox"/> (S) Inorganic
<input type="checkbox"/> (B) Agriculture & Food	<input type="checkbox"/> (T) Law/Legal Affairs
<input type="checkbox"/> (C) Analytical	<input type="checkbox"/> (U) Lubricants/Oils
<input type="checkbox"/> (D) Biochemistry	<input type="checkbox"/> (V) Marketing/Sales/Business
<input type="checkbox"/> (E) Biotechnology	<input type="checkbox"/> (W) Materials
<input type="checkbox"/> (F) Chemical Education	<input type="checkbox"/> (X) Metals/Metal Products
<input type="checkbox"/> (G) Chemical Information	<input type="checkbox"/> (Y) Nuclear
<input type="checkbox"/> (H) Clinical/Diagnostic	<input type="checkbox"/> (Z) Organic
<input type="checkbox"/> (I) Colloids & Surfaces	<input type="checkbox"/> (AA) Paint/Coatings
<input type="checkbox"/> (J) Combinatorial Chemistry	<input type="checkbox"/> (BB) Personal Care/Cosmetics
<input type="checkbox"/> (K) Computing/Molecular Modeling	<input type="checkbox"/> (CC) Pharmaceutical/Medicinal
<input type="checkbox"/> (L) Electronics/Semiconductors	<input type="checkbox"/> (DD) Physical
<input type="checkbox"/> (M) Energy/Fuels	<input type="checkbox"/> (EE) Polymers/Plastics
<input type="checkbox"/> (N) Environmental	<input type="checkbox"/> (FF) Pulp/Paper/Wood
<input type="checkbox"/> (O) Forensics	<input type="checkbox"/> (GG) Rubber
<input type="checkbox"/> (P) Geochemistry	<input type="checkbox"/> (HH) Soap/Detergent/Cleaners
<input type="checkbox"/> (Q) Glass/Ceramics/Composites	<input type="checkbox"/> (II) Textiles/Fiber
<input type="checkbox"/> (R) Health & Safety	<input type="checkbox"/> (JJ) Toxicology
<input type="checkbox"/> (KK) Other _____	

4. Product Interest (check all that apply)

<input type="checkbox"/> (A) Academic & Educational Svcs	<input type="checkbox"/> (H) R&D and Manufacturing Svcs
<input type="checkbox"/> (B) Accessible/Barrier-Free Products	<input type="checkbox"/> (I) Sci. Computing & Data Mgmt
<input type="checkbox"/> (C) Analytical Research	<input type="checkbox"/> (J) Technical Literature, Websites & Databases
<input type="checkbox"/> (D) Business Mgmt & Service	<input type="checkbox"/> (K) Testing & Measuring Instrumentation
<input type="checkbox"/> (E) Career Development & Training	<input type="checkbox"/> (L) Other _____
<input type="checkbox"/> (F) Chemicals, Reagents & Raw Materials	
<input type="checkbox"/> (G) Laboratory Equipment & Svcs	

5. Is this your first ACS National Meeting? Yes No

6. What's your primary reason for attending this meeting?

- Present a paper or poster
- Network with other scientists
- Investigate research or technical topics
- Research or buy products inside Exposition
- Search for a job in Career Services
- Obtain new skills and hands-on experience
- Participate in ACS governance activities
- Work during the meeting (staff/exhibitors)
- Other _____

7. Where are you staying (or planning to stay) during the meeting?

Hotel _____ Other _____

8. What mode of transportation will you take to attend the meeting? Plane Train Car
 Other _____

REGISTRATION CATEGORIES & FEES

ACS Members	EARLY <small>from May 22</small>	STANDARD <small>after July 10</small>
<input type="checkbox"/> ACS member or Society affiliate	\$445	\$535
<input type="checkbox"/> Emeritus or retired	\$225	\$270
<input type="checkbox"/> 50-year	No Fee	No Fee
<input type="checkbox"/> Unemployed (dues waiver required)	No Fee	No Fee
<input type="checkbox"/> Graduate student	\$225	\$225
<input type="checkbox"/> Undergraduate Student	\$110	\$110
<input type="checkbox"/> Precollege teacher	\$110	\$110
<input type="checkbox"/> One day member registrant	\$225	\$270
	<input type="checkbox"/> Su <input type="checkbox"/> M <input type="checkbox"/> Tu <input type="checkbox"/> W <input type="checkbox"/> Th	

Non-Members	EARLY <small>from May 22</small>	STANDARD <small>after July 10</small>
<input type="checkbox"/> Chemical scientist	\$780	\$935
<input type="checkbox"/> Visitor: Non-chemical scientist	\$445	\$535
<input type="checkbox"/> Visitor: Chemical technician	\$445	\$535
<input type="checkbox"/> Graduate Student	\$445	\$445
<input type="checkbox"/> Undergraduate Student	\$225	\$225
<input type="checkbox"/> Pre-College Teacher	\$110	\$110
<input type="checkbox"/> One-day registrant	\$445	\$535
	<input type="checkbox"/> Su <input type="checkbox"/> M <input type="checkbox"/> Tu <input type="checkbox"/> W <input type="checkbox"/> Th	

Guest of Registrant (1) \$45 \$45
(1) Guest Registration - A Spouse or family member of the registering attendee having no affiliation with the field of chemical science and is not eligible to become a member of the ACS. Only one guest registration allowed per full or one-day registration.

Guest Name _____

Exposition Visitors	EARLY <small>from May 22</small>	STANDARD <small>after July 10</small>
<input type="checkbox"/> Adult	\$60	\$60
<input type="checkbox"/> Student	\$30	\$30

9. Registration Subtotal \$ _____

PROGRAM BOOK FEE

Early rate \$10.00 (May 22, 2017 – July 10, 2017) Qty _____
Standard/Onsite rate \$20.00 (July 11, 2017 – Aug 24, 2017) Qty _____

The hardcopy pricing of the Onsite Program includes an online version of the Author index that will be available 1 week before the meeting.

10. Program Book Subtotal \$ _____

PAYMENT

You agree to accept all terms and conditions by submitting this registration to participate in the ACS National Meeting & Exposition.
Paid by: Check - (made payable in U.S. dollars to American Chemical Society)

Credit Card Type: VISA MasterCard American Express Diners

By signing below, the credit card holder agrees to pay the charges listed above in order to participate in the 254th ACS National Meeting in Washington, D.C.

Credit Card Number _____ Exp Date _____

Credit Card Billing Address & Zip _____

Card Holder Name _____ Card Holder Signature _____

SOCIAL EVENT FEES

Event No.	Qty	\$/Ticket	\$ TOTAL
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

11. Social Event Subtotal \$ _____

If you register before the social event tickets are available, you can later purchase your tickets by contacting the Customer Service office, at 508-743-0192 or 1-800-251-8629. If you are paying by check or money. If you are paying by credit card, you can update your registration online by using your confirmation number.

ABSTRACT FEES

	ACS MEMBER	NON-MEMBER
Flash Drive (pick up) _____	@\$65 ea.	@\$90 ea.
Flash Drive (ship) _____	@\$73 ea.	@\$98 ea.

12. Abstract Subtotal \$ _____

Abstracts ordered by July 10, 2017, will be shipped for delivery prior to the meeting. All other abstracts will be available for pick-up onsite at Attendee Registration. ACS will not be responsible for abstracts not picked up during the meeting. Abstract flash drives will only be shipped to U.S. street addresses (no P.O. boxes)

GRAND TOTAL

13. Grand Total of 9-12 \$ _____

Registrant Procedures: U.S. attendees who register by July 10, 2017, will receive their registration credentials and tickets via mail prior to the meeting. Unless an international attendee has provided a U.S. mailing address on their registration form, their credentials must be picked-up onsite at the Attendee Registration (this includes Canada and Mexico). After July 10, 2017, registrations will continue to be accepted at the standard rate on-line and by phone or fax (credit card payment only) until August 24, 2017.

Registration Cancellation/Refund Policy: By adhering to the following cancellation procedures, cancellations received by July 31, 2017, are entitled to a full refund, less a \$50 administrative fee. Registrants must return a copy of the registration confirmation along with the original registration credentials before payment will be posted to the account. All refunds are issued via the same method used for payment.

ADDITIONAL INFORMATION

Would you like add your twitter handle to be included on your registration badge? yes or no.

Twitter handle: _____

Peer Finder is a private networking tool through the ACS Washington, D.C. mobile app that will help you connect with other meeting attendees and exhibitors. Peer Finder is prepopulated with content that helps you find the right contacts to maximize your networking efforts. The filtering and searching options help you find new professional connections based on program area, location, name, etc.

Yes, I would like to use Peer Finder. No, I would not like to use Peer Finder.

Are you an ACS Publications Author? yes or no

Are you an ACS Publications Reviewer? yes or no

If so, you will receive a pin with your registration.