



SIGHTSEEING A view of Monument Circle, home to Indianapolis' landmark Soldiers & Sailors Monument.

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 interviews (both on-site and online), one-on-one career assistance, and career-related workshops.

The exposition will feature more than 200 companies showcasing services, instruments,

books, lab equipment, and much more in booths that number more than 300.

And if you're coming to Indianapolis because of the city's reputation for racing, ACS has organized special events at the Indianapolis Motor Speedway. On Sunday, for a fee and with registration, attendees can ride with a professional driver in an Indy 500 pace car or in a Formula 1 sports car.—EMILY BONES

246TH ACS NATIONAL MEETING

INDIANAPOLIS, Sept. 8–12

THIS SEPTEMBER, chemists will gather in the town typically known for race car driving—Indianapolis. Appropriately, the fall ACS national meeting theme is “Chemistry in Motion.” Symposia supporting the theme are organized by thematic program chair Robert A. Weiss, the Hezzleton E. Simmons Professor of Polymer Engineering at the University of Akron.

ACS President Marinda Li Wu will host 29 technical divisions and six committees in original programming over 696 half-day oral sessions and 112 poster sessions that include Sci-Mix. More than 7,000 papers will be presented, and nearly 2,200 poster presentations will take place at the meeting.

In addition to supporting the meeting theme, Wu will continue to support her presidential agenda, “Partners for Progress & Prosperity.” On Monday and Tuesday

she will sponsor symposia that include chemists who have followed nontraditional career paths and who are entrepreneurs.

Actor and science advocate Alan Alda will speak at the ACS Board Open Session at noon on Sunday, Sept. 8. His talk will focus on communicating science, which he supports through the Flame Challenge and his involvement with Stony Brook University's Alan Alda Center for Communicating Science.

C&EN will celebrate its 90th anniversary at the meeting with two special events on Tuesday, Sept. 10. A webinar, which attendees can watch live at the ACS Booth in the exposition hall, will address the authenticity of foods and food labels. Later in the afternoon, attendees can come to a reception with author and Food Network star Alton Brown.

Also on Tuesday, the Arthur C. Cope awardee and scholars will be recognized at a reception at the Hyatt Regency at 5:30 PM.

Many education-focused programs for

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MEETING INFO ON THE WEB
www.acs.org/indy2013

TECHNICAL PROGRAM SUMMARY

Presidential Event

PRES

Marinda Wu, Program Chair

Hyatt Regency Indianapolis	S	M	Tu	W	Th
Career Advancement Opportunities		D			
Innovation & Entrepreneurship			P		
Impact of Diversity & Inclusion* (CMA)	P	A	A		
Opportunities & Challenges of U.S.-China Intellectual Property Agreements* (CHAL)		D			
Identifying & Evaluating Hazards in Research Laboratories* (CHAS)			D		

Chemistry in Motion

MOTION

R. Weiss, Program Chair

Indiana Convention Center	S	M	Tu	W	Th
Chemistry of Motion Plenary	P				
Chemistry of Racing**		D			
Nanoscale & Nanomaterials: Enhanced Motion		P			
The Kavli Foundation Emerging Leader in Chemistry Lecture		P			
The Kavli Foundation Innovations in Chemistry Lecture		P			

Academic Employment Initiative

A E I

C. Kuniyoshi, J. Sostaric, Program Chairs

Indiana Convention Center	S	M	Tu	W	Th
Academic Employment Initiative		E			

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**Primary organizer of a cosponsored symposium.

MOTION: Chemistry in Motion.

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Division of Agricultural & Food Chemistry

AGFD

M. Qian, Program Chair

Indiana Convention Center	S	M	Tu	W	Th
Young Scientist Award Symposium	A				
Advances in the Understanding of Dairy/Cheese Flavors & Related Analytical Techniques	D				
Chemistry of Functional Beverages	P				
General Papers	P				A
Lipid Oxidation		D			
Polyphenolic Chemistry in Food Science: Flavor, Color & Biofunctional Properties		D	A		
Instrumental Methods for the Analysis of Bioactive Molecules <i>MOTION</i>		D	D	A	
Sci-Mix		E			
AGFD Award: Honoring Takayuki Shibamoto			A		
2013 Kenneth A. Spencer Award: Honoring Attila Pavlath**			P		
General Posters			P		
Applications in Counter Current Chromatography				D	
Phenolic Derivatives for Food & Human Health				D	
Advanced Bioanalytical Technologies for GM Detection* (AGRO)	D				
ADME: Motion of Veterinary Drugs & Xenobiotics* (AGRO)	P				
Science-Based Policy Development in the Environment, Food, Health & Transport Sectors* (CINF)		P			
Journal of Agricultural & Food Chemistry Best Paper Awards* (AGRO)			A		
Sterling B. Hendricks Memorial Lectureship Award* (AGRO)			A		
Uptake, Translocation & Distribution of Agrochemicals in Plants* (AGRO)				P	

Division of Agrochemicals

AGRO

S. Duke, Program Chair

Crowne Plaza	S	M	Tu	W	Th
Accurate Mass Analyses in Support of Agricultural Chemical Research & Development	A				
Advanced Bioanalytical Technologies for GM Detection**	D				
Spray Application Technology <i>MOTION</i>	D				
Herbicide-Resistant Crops & Weeds: Current Status	P				
ADME: Motion of Veterinary Drugs & Xenobiotics** <i>MOTION</i>	P				
21st-Century Vision for Testing & Risk Assessment: Implications for Agrochemicals		A			
AGRO International Research Award**	D				
Biopesticides: State of the Art & Future Opportunities**	D	D	A		
Environmental Fate, Transport & Modeling of Agriculturally Related Chemicals** <i>MOTION</i>	D				
Pesticide Regulatory Science in the 21st Century: Merging Research & Regulations**	P				
AGRO Education Award Poster Session**	P				
Sci-Mix	E				
<i>Journal of Agricultural & Food Chemistry</i> Best Paper Awards**			A		
High-Throughput Pesticide Residue Analysis**			A		
Innovation in Chemistry of Agriculture Award**			A		
Sterling B. Hendricks Memorial Lectureship Award**			A		
Pollinators & Pesticides			D		
Ecotoxicological Risk Assessment for Agricultural Use of Chlorpyrifos in the U.S.**			P		
Non-First-Order Dissipation & Time-Dependent Sorption of Organic Chemicals in Soil** <i>MOTION</i>			P		
Protection of Agricultural Productivity, Public Health & the Environment			P		

Division of Agrochemicals (continued)

AGRO

S. Duke, Program Chair

Crowne Plaza	S	M	Tu	W	Th
Pesticide Residues in Food & Feed: Scientific & Regulatory Global Needs**				D	A
Synthesis & Chemistry of Agrochemicals				D	
Terrestrial Field Dissipation Studies in Global Agrochemical Registration Programs** <i>MOTION</i>				D	
Uptake, Translocation & Distribution of Agrochemicals in Plants** <i>MOTION</i>				P	
Air Quality at the Interface**					D
Assessing Potential Ecological & Human Health Effects from Fertilizer & Pesticide Use in Urban Environments**					D
Regulatory Risk Assessment: New Paradigms for Human Health Exposure** <i>MOTION</i>					D
Predicting Molecular Properties of Environmental Contaminants: Empirical & Theoretical Methods* (ENVR)		D	A	E	
Air Monitoring* (ENVR)		P		E	
Water: Global Problems, Local Solutions* (ENVR)			D		
2013 Kenneth A. Spencer Award: Honoring Attila Pavlath* (AGFD)			P		
Status & Trends of Classical & Emerging Contaminants Across the World* (ENVR)			P	E	
Fate & Toxicology of Emerging Environmental Contaminants* (ENVR)				DE	A

Division of Analytical Chemistry

ANYL

T. Rossi, Program Chair

Indiana Convention Center	S	M	Tu	W	Th
Pharmaceutical Analysis	A				
Analytical Challenges & Applications of Nanomaterials	D				
General Posters	P				
Analytical Methods in Chemical Forensics	A				
Optical Spectroscopy of Proteins	A				
Electroanalytical Measurements	D				
Advances in Analytical Techniques for Chemical Forensics	P				

PROGRAM SUMMARY

Division of Analytical Chemistry (continued)

ANYL

T. Rossi, Program Chair

Indiana Convention Center	S	M	Tu	W	Th
Nanoscale Analytical Chemistry		P			
Sci-Mix		E			
Analytical Chemistry for Homeland Security			A		
75 Years of Analytical Chemistry			A		
Mass Spectrometry: New Ionizations & Reactions			A		
ANYL Awards			P		
Frontiers in Omics			P		
Micro/Nanofluidics: Fundamentals & Applications			P		
Advances in Ion Mobility Spectrometry & FAIMS				A	
Terahertz Spectroscopy: Problem Solving for the 21st Century**				A	
Advances in Analytical Spectroscopy				D	
High-Resolution Microscopy for Bioanalysis				P	
Portable Instrumentation For Chemical Analysis <i>MOTION</i>				P	
Developments in Mass Spectrometry					A
Science of Separation					A
Analysis of Living Systems: In Vivo & In Vitro					P
Capillary & Microfluidic Platforms for Bioanalytical Measurements					P
Advanced Bioanalytical Technologies for GM Detection* (AGRO)	D				
Science-Based Policy Development in the Environment, Food, Health & Transport Sectors* (CINF)		P			
Air Monitoring* (ENVR)		P		E	
High-Throughput Pesticide Residue Analysis* (AGRO)			A		
Computational Approaches to Spectroscopy Analysis* (COMP)				P	

Division of Biochemical Technology

BIOT

N. Rathore, E. Boder, Program Chairs

Located with primary sponsor	S	M	Tu	W	Th
Undergraduate Research Posters* (CHED)		P			

Division of Biological Chemistry

BIOL

S. David, Program Chair

Indiana Convention Center	S	M	Tu	W	Th
Current Topics in Biological Chemistry	AE		E		
Pfizer Award in Enzyme Chemistry	P				
Repligen Award in the Chemistry of Biological Processes		A			
Gordon Hammes ACS Biochemistry Lectureship		P			
Protein Motion Along Nucleic Acid Polymers <i>MOTION</i>		P			
Sci-Mix		E			
Goodman Award: Honoring Laura Kiessling			A		
Lilly Award: Honoring M. Disney				A	
Graduate Student & Postdoctoral Research Symposium				P	
20 Years of PME: Honoring Tom Darden, Lee G. Pedersen & Darrin York* (COMP)	D	D			
Recent Advances in Modulating the Epigenome* (MEDI)	D				
Emerging Technologies in Computational Chemistry* (COMP)	P				
Current Topics in Glycobiology* (CARB)	P	A			
Drug Discovery* (COMP)		P	A	A	A
Undergraduate Research Posters* (CHED)		P			
Molecular Mechanics* (COMP)	A	A	A	A	
Expanding Computational Chemistry with GPUs* (COMP)			D	A	
Chemistry & Biology of Metal Toxicity* (TOXI)			P		
Membranes* (COMP)				P	
Computational Study of Water* (COMP)					A

Division of Business Development & Management

BMGT

D. Daly, Program Chair

Located with primary sponsor	S	M	Tu	W	Th
Opportunities & Challenges of U.S.-China Intellectual Property Agreements* (CHAL)		D			
STEM Women in Innovation & Investing* (SCHB)			P		

Division of Carbohydrate Chemistry

CARB

X. Huang, Program Chair

Hyatt Regency Indianapolis	S	M	Tu	W	Th
General Papers	A		P		
Current Topics in Glycobiology**	P	A			
General Posters	E				
Recent Advances in Glyconanomaterials**		P	A		
Sci-Mix		E			

Division of Catalysis Science & Technology

CATL

C. Sievers, P. Christopher, Program Chairs

Indiana Convention Center	S	M	Tu	W	Th
CO ₂ Conversion: Thermo-, Photo- & Electrocatalytic <i>MOTION</i>	A				
Rational Catalyst Design <i>MOTION</i>	D				
Advances in Biocatalysis	P				
2013 ACS Catalysis Lectureship: Honoring John Hartwig**		D			
Electrocatalysis of Energy Generation & Storage <i>MOTION</i>		D	A		
Experimental & Theoretical Studies of Catalysis from Surface Science Point of View: Ex Situ, In Situ & Operando Studies <i>MOTION</i>			D	D	
Computational Catalysis <i>MOTION</i>			P	A	
CATL Poster Session			E		
Catalytic Upgrading of Biomass				P	A
General Catalysis					D
Heterogeneous Catalysis for Environmental & Energy Applications* (ENVR)		D		E	

Division of Cellulose & Renewable Materials

CELL

T. Elder, Program Chair

Hyatt Regency Indianapolis	S	M	Tu	W	Th
Design & Spectroscopy of Bioinspired Nanocomposites & Biopolymers	P				
General Posters	E				
Lightweight Materials from Biopolymers		D			
Sci-Mix		E			

Division of Chemical Education

CHED

J. Smist, I. Levy, T. Miller, Program Chairs

Indianapolis Marriott Downtown	S	M	Tu	W	Th
Strategies for Teaching Chemistry to Diverse Student Bodies	A				
High School Program	D				
Creative Approaches to Physical Chemistry Instruction	D				
What You Need for the First Job, Besides the Ph.D. in Chemistry	D				
General Papers	P				A
General Posters	E				
Software-Intense Projects in Undergraduate Research		A			
Issues in Teaching & Learning in the Chemistry Laboratory		D			
Learning Chemistry in Cyber Environments		D			
Research in Chemical Education		D			
Process-Oriented Guided Inquiry Learning (POGIL)		P			
Undergraduate Research Posters**		P			
Sci-Mix		E			
Successful Student Chapters		E			
Not Just Playing Around: Using Games To Put Back the Fun in Chemistry Fundamentals			A		

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Division of Chemical Education (continued)

CHED

J. Smist, I. Levy, T. Miller, Program Chairs

Indianapolis Marriott Downtown	S	M	Tu	W	Th
Advances in Teaching Organic Chemistry			D		
NSF-Catalyzed Innovations in the Undergraduate Curriculum			D		
The Chemistry of Energy: Minimizing its Input, Maximizing its Output			D		
Physical Chemistry of Macromolecules**			P		
Innovative Laboratory Experiments & Programs for Nonmajors				D	
Innovative Uses of Assessments for Teaching & Research				D	
Integrating Interactive Technology with Lecture to Enhance Learning				D	
Role & Value of Social Networking in Advancing the Chemical Sciences* (CINF)		D			
Before & After Lab: Instructing Students in 'Nonchemical' Research Skills* (CINF)				D	

Division of Chemical Health & Safety

CHAS

L. Stroud, D. Decker, Program Chairs

Indiana Convention Center	S	M	Tu	W	Th
CHAS Awards** <i>MOTION</i>	P				
New Horizons in Chemical Health & Safety**	P				
Managing Reactive Chemistry** <i>MOTION</i>		P			
Identifying & Evaluating Hazards in Research Laboratories**			D		
Air Monitoring* (ENVR)		P		E	

Division of Chemical Information

CINF

J. Garritano, Program Chair

Indiana Convention Center	S	M	Tu	W	Th
Chemistry on Tablet Computers	A				
Current Challenges in Cheminformatics: Exploiting Information & Knowledge in Structured & Unstructured Environments**	D				

Division of Chemical Information (continued)

CINF

J. Garritano, Program Chair

Indiana Convention Center	S	M	Tu	W	Th
Graduate Student Research Symposium in Cheminformatics, Information Science & Library Science**	P				
CINF Scholarship for Scientific Excellence	E				
Integrative Chemogenomics Knowledge Mining Using NIH Open Access Resources		A			
Role & Value of Social Networking in Advancing the Chemical Sciences**		D			
Science-Based Policy Development in the Environment, Food, Health & Transport Sectors**		P			
Joint CINF-CSA Trust Symposium: Semantic Technologies in Translational Medicine & Drug Discovery**		P			
Sci-Mix		E			
Herman Skolnik Award Symposium			D		
Computational Profiling & Repositioning as Promising New Ways of Drug Development**				A	
Exchangeable Molecular & Analytical Data Formats & their Importance in Facilitating Data Exchange**				D	A
Before & After Lab: Instructing Students in 'Nonchemical' Research Skills**				D	
Back to the Future: Print Resources in a Digital World				P	
General Papers					P
Materials Science* (COMP)	A	A			
20 Years of PME: Honoring Tom Darden, Lee G. Pedersen & Darrin York* (COMP)	D	D			
Emerging Technologies in Computational Chemistry* (COMP)	P				
New Horizons in Chemical Health & Safety* (CHAS)	P				
Drug Discovery* (COMP)		P	A	A	A
Molecular Mechanics* (COMP)	A	A	A	A	
Expanding Computational Chemistry with GPUs* (COMP)			D	A	
Developments in Systems Chemical Biology* (COMP)			P		
Membranes* (COMP)				P	

Division of Chemical Toxicology

TOXI

W. Humphreys, Program Chair

Indiana Convention Center	S	M	Tu	W	Th
Chemical Research in Toxicology Young Investigator Award	A				
Founder's Award Lecture & Symposium	P				
Young Investigators Symposium		A			
Challenges in Covalent Drug Design & Development**		P			
Keynote Lecture		P			
Sci-Mix		E			
Metabolomics in Toxicology			A		
Chemistry & Biology of Metal Toxicity**			P		
General Posters			E		
General Papers				A	
Toxicology of Alternate Fuels				P	
Emerging Trends in Drug Metabolism & Disposition: Concerns for the Medicinal Chemist* (MEDI)		A			

Division of Chemistry & the Law

CHAL

J. Hasford, K. Bianco, Program Chairs

Indiana Convention Center	S	M	Tu	W	Th
Strengthening Your Patent Rights in Light of Recent Federal Circuit Court Decisions	A				
Hot Topics in Pharmaceutical & Chemical Law	P				
Opportunities & Challenges of U.S.-China Intellectual Property Agreements**		D			
Sci-Mix		E			
Career Opportunities Resulting from the Enactment of the 2009 Tobacco Control Act			A		
Game-Changing Developments in Europe & the U.S.			P		
U.S. Patent Law after the America Invents Act				A	
Protecting & Capitalizing on Your Intellectual Property				P	
The Many Faces of CHAL: Where Chemistry Meets the Law					A

Division of Colloid & Surface Chemistry

COLL

R. Nagarajan, Program Chair

Indiana Convention Center	S	M	Tu	W	Th
Functional Self-Assembling Molecular Systems	D	A	A		
Graphene Chemistry & Devices	D	E			
Monodisperse Inorganic Nanoparticles for Catalytic & Biomedical Applications	D	AE			
Multifunctional Nanoscience: Fundamental & Applications	D	D			
Supramolecular Nanomaterials	D	DE	A		
Nanoparticle-Based Hybrid Materials in Photovoltaic Processes & Solar Cells	D				
Nanostructured Materials for Next-Generation Energy Storage & Conversion		D	A	D	D
MOTION					
Particles, Colloids & Drops		D	A	D	D
Anisotropic Colloids: Synthesis, Fabrication, Assembly & Applications		P	A	D	D
Basic Research in Colloids, Surfactants & Nanomaterials		P	A	A	
Fundamental Research in Colloid & Surface Science		E			
Langmuir Lectures & Nano Letters Young Investigator Award Lecture			P		
Conjugation of Biomolecules to Interfaces & Nanomaterials				D	D
Surface & Interface Sciences in Biological & Pharmaceutical Fields				D	A
Behavior of Contaminants at Environmental Interfaces				P	D
Emerging Science Frontiers: Young Investigators* (COMSCI)		P			
Recent Advances in Glyconanomaterials* (CARB)		P	A		
Physical Chemistry of Macromolecules* (CHED)			P		

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PROGRAM SUMMARY

Division of Computers in Chemistry

COMP

E. Esposito, S. Wildman, Program Chairs

Indiana Convention Center	S	M	Tu	W	Th
Materials Science**	A	A			
Molecular Mechanics**	A	A	A	A	
Prime Choices	A				
Surface Chemistry for Photocatalysis**	A	D			
20 Years of PME: Honoring Tom Darden, Lee G. Pedersen & Darrin York**	D	D			
Charge Transfer Triggers Surface Reactions**	P				
Chemical Mechanisms in Advanced Materials**	P	D	D	D	A
Emerging Technologies in Computational Chemistry**	P				
Quantum Chemistry**	P	P	P	P	A
Drug Discovery**		P	A	A	A
Sci-Mix		E			
Interface Charge Transfer & Dye-Sensitized Solar Cells**			A		
Expanding Computational Chemistry with GPUs**			D	A	
Developments in Systems Chemical Biology**			P		
Nanostructures for Photovoltaics**			P		
Computational Photocatalysis			E		
NVIDIA GPU Competition			E		
Poster Session			E		
Chemical Computing Group Excellence Award for Graduate Students			E		
OpenEye Outstanding Junior Faculty Award			E		
Organic Semiconductors & Biosystems**				A	
Computational Approaches to Spectroscopy Analysis**				P	
Membranes**				P	
Plasmonic Materials & Nano-Interfaces**				P	
Computational Study of Water**					A
Single-Site Transition-Metal Photocatalysis**					A

Division of Computers in Chemistry (continued)

COMP

E. Esposito, S. Wildman, Program Chairs

Indiana Convention Center	S	M	Tu	W	Th
Current Challenges in Cheminformatics: Exploiting Information & Knowledge in Structured & Unstructured Environments* (CINF)	D				
Graduate Student Research Symposium in Cheminformatics, Information Science & Library Science* (CINF)	P				
Predicting Molecular Properties of Environmental Contaminants: Empirical & Theoretical Methods* (ENVR)		D	A	E	
Undergraduate Research Posters* (CHED)		P			
Computational Profiling & Repositioning as Promising New Ways of Drug Development* (CINF)				A	
Exchangeable Molecular & Analytical Data Formats & their Importance in Facilitating Data Exchange* (CINF)				D	A

Division of Energy & Fuels

ENFL

R. Koodali, Y. Hu, Program Chairs

Indiana Convention Center	S	M	Tu	W	Th
Catalysis & Catalysts for Energy & Fuels	D	D	D		
Fuels, Chemicals, Materials & Energy from Coal, Natural Gas, Oil Shale & other Natural Resources** <small>MOTION</small>	D	A			
Materials & Technologies for CO ₂ Capture, Sequestration & Conversion** <small>MOTION</small>	D	D	D		
Nanotechnology Application in Energy <small>MOTION</small>	D	D	D		
Porous Materials for Energy Conversion & Storage	D	D	A		
Solar Energy Conversion & Utilization** <small>MOTION</small>	D	D			
International Graduate Symposium on Energy Research <small>MOTION</small>	D				
Hydrogen Energy**		D			
1st International Symposium on Mesoporous Zeolites**		P	A		
Sci-Mix		E			
2nd International Symposium on Graphene for Energy & Fuels			D	D	

Division of Energy & Fuels (continued)

ENFL

R. Koodali, Y. Hu, Program Chairs

Indiana Convention Center	S	M	Tu	W	Th
Storch Award: Honoring A. C. Buchanan III			D		
Advances in Batteries, Capacitors & other Energy Storage Devices <i>MOTION</i>			P	D	A
Frontiers in Energy Conversion & Fuel Production <i>MOTION</i>			P	D	A
Advances in Energy & Fuels Processes, Systems, Materials & Utilization			P		
Role of Oxides in Catalysis: Structure, Selectivity & Stability				D	D
Biomass & Biotechnologies for Energy** <i>MOTION</i>				D	A
Theory & Simulation in Energy Production, Storage & Utilization <i>MOTION</i>				D	A
9th International Symposium on Hydrotreating/Hydrocracking Technologies <i>MOTION</i>				D	
Hydrocarbon Resources <i>MOTION</i>					A
Advances in Analytical Methods in Petroleum Upstream Applications <i>MOTION</i>					D
Chemistry & Application of Green Catalysts for Energy Transformation & Emission Control* (ENVR)	P			E	
Heterogeneous Catalysis for Environmental & Energy Applications* (ENVR)		D		E	
Chemistry of Racing* (MOTION)		D			
Materials-Based Technologies for Water & Energy Sustainability: Research Frontiers & Practical Challenges to Adoption* (ENVR)				DE	A
Biofuels in Motion* (SCHB)				P	

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Division of Environmental Chemistry

ENVR

D. Dionysiou, Program Chair

Crowne Plaza	S	M	Tu	W	Th
Biogeochemical Interactions Affecting Bioavailability & Remediation of Hazardous Substances in the Environment**	D	A		E	
Distribution & Fate of Emerging Contaminants in Hydrologic Systems of the Built Environment**	D			E	
Environmental Fate & Reactivity of Highly Condensed Aromatic Carbon** <i>MOTION</i>	D			E	
Chemistry & Application of Green Catalysts for Energy Transformation & Emission Control** <i>MOTION</i>	P			E	
Green Chemistry & the Environment**		D		E	
Heterogeneous Catalysis for Environmental & Energy Applications** <i>MOTION</i>		D		E	
Predicting Molecular Properties of Environmental Contaminants: Empirical & Theoretical Methods**		D	A	E	
Air Monitoring** <i>MOTION</i>		P		E	
Sci-Mix		E			
Advances in Understanding the Aquatic Fate of Metals: Nanomaterials & Natural Organic Materials			A		
Environmental Impacts of Electronic Technologies, Products & Processes: The Search for Sustainable Electronics** <i>MOTION</i>			D	E	
Water: Global Problems, Local Solutions**			D		
C. Ellen Gonter Award Symposium			P		
Status & Trends of Classical & Emerging Contaminants Across the World**			P	E	
Environmental Implications & Effects of Unconventional Gas Development** <i>MOTION</i>				AE	
Materials-Based Technologies for Water & Energy Sustainability: Research Frontiers & Practical Challenges to Adoption** <i>MOTION</i>				DE	A
Membranes for Water Purification**				DE	
Fate & Toxicology of Emerging Environmental Contaminants**				DE	A
Environmental Electrochemistry: Principals & Applications <i>MOTION</i>				PE	

PROGRAM SUMMARY

Division of Environmental Chemistry (continued)

ENVR

D. Dionysiou, Program Chair

Crowne Plaza	S	M	Tu	W	Th
Fate of Environmental Pollutants in Biogeochemical Interfaces**				E	A
General Posters				E	
Fuels, Chemicals, Materials & Energy from Coal, Natural Gas, Oil Shale & other Natural Resources* (ENFL)	D	A			
Materials & Technologies for CO ₂ Capture, Sequestration & Conversion* (ENFL)	D	D	D		
Solar Energy Conversion & Utilization* (ENFL)	D	D			
ADME: Motion of Veterinary Drugs & Xenobiotics* (AGRO)	P				
Geochemistry of Shales: From Gas to Hydraulic Fracturing* (GEOC)		A			
Environmental Fate, Transport & Modeling of Agriculturally Related Chemicals* (AGRO)		D			
Hydrogen Energy* (ENFL)		D			
Science-Based Policy Development in the Environment, Food, Health & Transport Sectors* (GINF)		P			
Biogeochemical Controls on Transition-Metal Concentrations in Natural Waters* (GEOC)		P			
Undergraduate Research Posters* (CHED)		P			
High-Throughput Pesticide Residue Analysis* (AGRO)			A		
Chemical Approaches to Understanding Metabolic Activity of Microorganisms in Environmental Settings through Geological Time* (GEOC)			P		
Biomass & Biotechnologies for Energy* (ENFL)				D	A
Uptake, Translocation & Distribution of Agrochemicals in Plants* (AGRO)				P	
Air Quality at the Interface* (AGRO)					D

Division of Geochemistry

GEOC

A. Stack, Program Chair

Indiana Convention Center	S	M	Tu	W	Th
Geochemistry of Shales: From Gas to Hydraulic Fracturing**	A				
Biogeochemical Controls on Transition-Metal Concentrations in Natural Waters**	P				
Sci-Mix	E				
Kinetics of Mineral Growth & Dissolution from the Nanoscale to the Macroscale			A		
Kinetics of Geochemical & Microbial Reactions in Aqueous Systems			P		
Chemical Approaches to Understanding Metabolic Activity of Microorganisms in Environmental Settings through Geological Time**			P		
Biogeochemical Interactions Affecting Bioavailability & Remediation of Hazardous Substances in the Environment* (ENVR)	D	A		E	
Environmental Fate & Reactivity of Highly Condensed Aromatic Carbon* (ENVR)	D			E	
Environmental Implications & Effects of Unconventional Gas Development* (ENVR)				AE	
Fate of Environmental Pollutants in Biogeochemical Interfaces* (ENVR)				E	A

Division of the History of Chemistry

HIST

S. Rasmussen, Program Chair

Indianapolis Marriott Downtown	S	M	Tu	W	Th
HIST Tutorial & General Papers	A				
HIST Award: Honoring William R. Newman	P				
What's Your Number: A Centennial Remembrance of Henry Moseley		A			
Historical Origins of Mass Spectrometry**		P			
Sci-Mix		E			
Helen Free: Science & Legacy of a Unique Past ACS President			P		

Division of Industrial & Engineering Chemistry

I & E C

M. Moore, P. Smith, Program Chairs

Indianapolis Marriott Downtown	S	M	Tu	W	Th
General Papers	P				
Honoring 2011 & 2012 ACS Fellows in I&EC		D			
Sci-Mix		E			
I&EC Graduate Award Symposia			A		
Recent Advances in Conversion of Intact Biomass to Drop-in Fuels & Valuable Chemicals			P		
How Green Chemistry & Engineering Contribute to Sustainability within the Pharmaceutical Industry				D	
Cross Functional Trends in the Pharmaceutical Industry					A

Division of Inorganic Chemistry

I N O R

S. Koch, N. Radu, Program Chairs

Indiana Convention Center	S	M	Tu	W	Th
Chemistry of Materials	A	A		E	
Environmental & Energy Related Inorganic Chemistry	A		PE		
Inorganic Spectroscopy	A				
Inorganic Catalysts	A			A	
Non-Precious-Metal Catalysis: Opportunities & Impacts	AE	D			
Alfred Werner: Coordination Chemistry a Century after the Nobel Prize	D	P	DE		
New Trends in Molecular Magnetic Materials	P	D	A		
Young Investigator Symposium	P				
Bioinorganic Chemistry	PE		AE	A	
Nanoscience	PE	P	E	PE	
Organometallic Chemistry	PE	D	E	DE	
Coordination Chemistry	E	A	P	DE	
Electrochemistry	E				
Inorganic Chemistry Lectureship Award Symposium		A			
Main-Group Chemistry		P		E	

Division of Inorganic Chemistry (continued)

I N O R

S. Koch, N. Radu, Program Chairs

Indiana Convention Center	S	M	Tu	W	Th
Sci-Mix		E			
Inorganic Nanoscience Award			A		
Synthesis of Solid State Materials: Beyond "Heat-and-Beat"			A	DE	
New Ideas, Materials & Methods for Better Batteries			DE	D	
ExxonMobil Solid State Chemistry Faculty Fellow Award Symposium			P		
Lanthanide & Actinide Chemistry			PE		
Surface Chemistry for Photocatalysis* (COMP)	A	D			
Charge Transfer Triggers Surface Reactions* (COMP)	P				
2013 ACS Catalysis Lectureship: Honoring John Hartwig* (CATL)		D			
Undergraduate Research Posters* (CHED)		P			
Interface Charge Transfer & Dye-Sensitized Solar Cells* (COMP)			A		
Nanostructures for Photovoltaics* (COMP)			P		
Organic Semiconductors & Biosystems* (COMP)				A	
Plasmonic Materials & Nano-Interfaces* (COMP)				P	
Single-Site Transition-Metal Photocatalysis* (COMP)					A

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

**Primary organizer of a cosponsored symposium.

MOTION: Chemistry in Motion.

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

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

PROGRAM SUMMARY

Division of Medicinal Chemistry

MEDI

J. Macor, Program Chair

Indiana Convention Center	S	M	Tu	W	Th
Beyond Jet Lag: Targeting Aberrant Circadian Rhythm To Attack Diseases from Diabetes to Depression** <i>MOTION</i>	A				
General Oral Session**	D			D	
Recent Advances in Modulating the Epigenome**	D				
Harnessing the Immune System with Small Molecules To Treat Chronic Diseases**	P				
General Poster Session**	E			E	
Drugs & Drug Candidates From the Next Generation of Middle Space Macrocycles		A			
Emerging Trends in Drug Metabolism & Disposition: Concerns for the Medicinal Chemist**		A			
Finding the Nuggets: Efficient Prosecution of High-Throughput Screening Hits	P				
Targeting Cancer Stem Cells	P				
Sci-Mix	E				
Improving Drug Delivery Through Advanced Material Designs**			A		
Antibody Drug Conjugates: From Bench to Bedside**			A		
MEDI Awards Symposium**			P		
Targeting Cancer through Metabolic Pathways**			P		
New Targets for the Treatment of Alzheimer's Disease**				A	
Medicinal Chemist's Toolbox: Conformation in Drug Design**				A	
First-Time Disclosures of Clinical Candidates**				P	
20 Years of PME: Honoring Tom Darden, Lee G. Pedersen & Darrin York* (COMP)	D	D			
Emerging Technologies in Computational Chemistry* (COMP)	P				
Current Topics in Glycobiology* (CARB)	P	A			

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Division of Medicinal Chemistry (continued)

MEDI

J. Macor, Program Chair

Indiana Convention Center	S	M	Tu	W	Th
Science-Based Policy Development in the Environment, Food, Health & Transport Sectors* (CINF)		P			
Challenges in Covalent Drug Design & Development* (TOXI)		P			
Drug Discovery* (COMP)		P	A	A	A
Undergraduate Research Posters* (CHED)		P			
Molecular Mechanics* (COMP)	A	A	A	A	
Expanding Computational Chemistry with GPUs* (COMP)			D	A	
Developments in Systems Chemical Biology* (COMP)			P		
Computational Study of Water* (COMP)					A

Division of Nuclear Chemistry & Technology

NUCL

K. Nash, J. Braley, Program Chairs

Hyatt Regency Indianapolis	S	M	Tu	W	Th
Nuclear Reactions	D	A			
Actinide Materials	P	D			
General Topics in Nuclear & Radiochemistry		P			
Young Investigators in Nuclear & Radiochemistry			D		
Recent Advances in the Inorganic Chemistry of Technetium & Rhenium				D	

Division of Organic Chemistry

ORGN

A. Abdel-Magid, M. McIntosh, Program Chairs

Indiana Convention Center	S	M	Tu	W	Th
Young Investigators Symposium	A				
Small Splash, Big Waves: Research at Primarily Undergraduate Institutions	A				
Biologically Related Molecules & Processes	D				
Materials, Devices & Switches	D				
Total Synthesis of Complex Molecules	D				

Division of Organic Chemistry (continued)

ORGN

A. Abdel-Magid, M. McIntosh, Program Chairs

Indiana Convention Center	S	M	Tu	W	Th
Modern Methods in Fluorination Chemistry	P				
Young Academic Investigators Award Symposium	P	A			
New Reactions & Methodology, Molecular Recognition & Self-Assembly, Total Synthesis of Complex Molecules	E				
Asymmetric Reactions & Syntheses	A				
Catalysis in the Pharmaceutical Industry	A				
Chemistry in Motion <i>MOTION</i>	A				
Physical Organic Chemistry	D				
New Reactions & Methodology	P	D	D		
Peptides, Proteins & Amino Acids	P				
Tetrahedron Prize for Creativity in Organic Chemistry	P				
Entrepreneurial Skills Interactive Symposium/Workshop	P				
Sci-Mix	E				
Aerobic Oxidation Methods in Organic Synthesis		A			
Advances in Flow Chemistry & Continuous Processing		D			
Arthur C. Cope & Arthur C. Cope Scholars Award Symposium**		D			
Heterocycles & Aromatics		D			
Molecular Recognition & Self-Assembly		P	A		
Heterocycles & Aromatics, Metal-Mediated Reactions & Syntheses		E			
<i>Journal of Organic Chemistry</i> & <i>Organic Letters</i> Lectureship Symposium			A		
Metal-Mediated Reactions & Syntheses			D		
Technical Achievements in Organic Chemistry Award Symposium			D		
Recent Developments in Solvent-Free Organic Reactions			P		
Chemistry in Motion, Asymmetric Reactions & Syntheses, Biologically Related Molecules & Processes, Materials, Devices & Switches, Peptides, Proteins & Amino Acids, Physical Organic Chemistry			E		
General Poster Session* (MEDI)			E		

Division of Physical Chemistry

PHYS

J. Bowman, Program Chair

Indiana Convention Center	S	M	Tu	W	Th
Undergraduate Symposium: Basic Research in Physical Chemistry	A				
Theory & Experiment on Water & Hydration	D	D	A	D	D
Coarse-Graining & Multiscale Modeling	D	D	D	D	
Quantum Mechanics in Many Dimensions	D	D	D	P	
<i>MOTION</i>					
Chemistry at the Space Time Limit <i>MOTION</i>	D	D	P	D	A
Materials & Mechanisms for Efficient Lighting	D	D	A		
Physical Chemistry of Solar Energy Conversion	D	D	D	D	D
Electrostatics & Polarization Effects in Biophysical Chemistry <i>MOTION</i>	P	D	D	A	
Sci-Mix		E			
Chemical Frontiers in Solar System Exploration <i>MOTION</i>			D	D	D
PHYS Awards Symposium			P		
Poster Session				E	
Materials Science* (COMP)	A	A			
Surface Chemistry for Photocatalysis* (COMP)	A	D			
20 Years of PME: Honoring Tom Darden, Lee G. Pedersen & Darrin York* (COMP)	D	D			
Charge Transfer Triggers Surface Reactions* (COMP)	P				
Chemical Mechanisms in Advanced Materials* (COMP)	P	D	D	D	A
Emerging Technologies in Computational Chemistry* (COMP)	P				
Quantum Chemistry* (COMP)	P	P	P	P	A
Molecular Mechanics* (COMP)	A	A	A	A	
Undergraduate Research Posters* (CHED)		P			
Interface Charge Transfer & Dye-Sensitized Solar Cells* (COMP)			A		
Expanding Computational Chemistry with GPUs* (COMP)			D	A	
Nanostructures for Photovoltaics* (COMP)			P		
Physical Chemistry of Macromolecules* (CHED)			P		
Organic Semiconductors & Biosystems* (COMP)				A	

PROGRAM SUMMARY

Division of Physical Chemistry (continued)

PHYS

J. Bowman, Program Chair

Indiana Convention Center	S	M	Tu	W	Th
Computational Approaches to Spectroscopy Analysis* (COMP)				P	
Membranes* (COMP)				P	
Plasmonic Materials & Nano-Interfaces* (COMP)				P	
Single-Site Transition-Metal Photocatalysis* (COMP)					A

Division of Polymer Chemistry

POLY

S. Iacono, S. Lin-Gibson, J. Youngblood, Program Chairs

Hyatt Regency Indianapolis	S	M	Tu	W	Th
AkzoNobel Award for Outstanding Graduate Research in Polymer Chemistry: Honoring Hua Lu	A				
Charles Overberger Award	A				
Sequence-Controlled Polymers	D	D	AE		
Biomacromolecules for Therapeutics & Diagnostics Delivery**	P	D	DE		
Mark Scholars Award: Honoring Rigoberto Advincula	P				
Mark Scholars Young Award: Honoring Rachel O'Reilly		A			
Polymers for Transportation & Aerospace <i>MOTION</i>		D	AE		
2013 Biomacromolecules/Macromolecules Young Investigator Award		P			
Sci-Mix		E			
Herman F. Mark Polymer Chemistry Award: Honoring Kenneth Wagener			D		
DSM Science & Technology Award			P		
Monomer & Polymer Mimicry with Renewables			PE	A	
General Topics: New Synthesis & Characterization of Polymers			E	A	
Sensing & Controlling Motion with Polymeric Materials <i>MOTION</i>			E	D	A
Structural Composites & Biomaterials: Modeling & Experiment			E	P	A
New Synthesis & Characterization of Polymers				D	A

Division of Polymer Chemistry (continued)

POLY

S. Iacono, S. Lin-Gibson, J. Youngblood, Program Chairs

Hyatt Regency Indianapolis	S	M	Tu	W	Th
Polymer Capacitor Dielectrics				P	A
POLY/PMSE Plenary Lecture & Awards Reception** <i>MOTION</i>				E	
Materials Science* (COMP)	A	A			
Chemical Mechanisms in Advanced Materials* (COMP)	P	D	D	D	A
Chemistry of Racing* (MOTION)		D			
Recent Advances in Glyconanomaterials* (CARB)		P	A		
Undergraduate Research Posters* (CHED)		P			
Physical Chemistry of Macromolecules* (CHED)			P		
Joint PMSE/POLY Poster Session* (PMSE)			E		
Membranes for Water Purification* (ENVR)				DE	

Division of Polymeric Materials Science & Engineering

PMSE

A. Nelson, M. Becker, S. Granados-Focil, C. Stafford, Program Chairs

Hyatt Regency Indianapolis	S	M	Tu	W	Th
Roy W. Tess Award: Honoring Gordon P. Bierwagen	A				
Polymer Science Research & Teaching: A Tribute to Jeffrey S. Moore	D	D	D		
Hairy Particles: Theory, Synthesis, Behavior & Applications**	D	D			
<i>Journal of Polymer Science</i> Award: Honoring Ryan Hayward**	P				
AkzoNobel Student Award Symposium**		A			
2nd International Symposium on Polybenzoxazines		D	D	D	
Bioconjugates & Hybrid Biomaterials		P	D	D	
Sci-Mix		E			
Smart Materials for Encapsulation & Controlled Release of Actives**			D	D	
Joint PMSE/POLY Poster Session**			E		
Excellence in Graduate Student Research**				A	
General Papers/New Concepts in Polymeric Materials				P	D

Division of Polymeric Materials Science & Engineering (continued)

PMSE

A. Nelson, M. Becker, S. Granados-Focil, C. Stafford, Program Chairs

Hyatt Regency Indianapolis	S	M	Tu	W	Th
Materials Science* (COMP)	A	A			
Chemical Mechanisms in Advanced Materials* (COMP)	P	D	D	D	A
Chemistry of Racing* (MOTION)		D			
Undergraduate Research Posters* (CHED)		P			
Improving Drug Delivery Through Advanced Material Designs* (MEDI)			A		
Physical Chemistry of Macromolecules* (CHED)			P		
POLY/PMSE Plenary Lecture & Awards Reception* (POLY)				E	

Division of Professional Relations

PROF

R. Libby, Program Chair

Indianapolis Marriott Downtown	S	M	Tu	W	Th
Health Care Reform Update: Implementation of the Affordable Care Act**	P				
Getting Your First Industrial Job**		P			
Current & Future Trends To Provide Equal Access to Chemistry & Science Curricula for Students with Special Needs**			A		
Impact of Diversity & Inclusion* (CMA)	P	A	A		
Best Practices for Success in Start-up & Growing Businesses* (SCHB)		A			
24th Anniversary of the WCC/Eli Lilly & Co. Travel Award* (WCC)		D			
Chemical Angel Network: Chemists Investing in Chemical Companies* (SCHB)		P			
True Stories of Success from Chemical Entrepreneurs* (SCHB)			A		
STEM Women in Innovation & Investing* (SCHB)			P		

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Division of Small Chemical Businesses

SCHB

J. Sabol, Program Chair

Indiana Convention Center	S	M	Tu	W	Th
Small Business Chemistry in Motion <i>MOTION</i>	P				
SCHB Poster Session		A			
Best Practices for Success in Start-up & Growing Businesses**		A			
Chemical Angel Network: Chemists Investing in Chemical Companies**		P			
Sci-Mix		E			
True Stories of Success from Chemical Entrepreneurs**			A		
STEM Women in Innovation & Investing**			P		
Applications of Ionic Liquids from the Small Business Sector				A	
Biofuels in Motion** <i>MOTION</i>				P	
Health Care Reform Update: Implementation of the Affordable Care Act* (PROF)	P				
Opportunities & Challenges of U.S.-China Intellectual Property Agreements* (CHAL)		D			
Role & Value of Social Networking in Advancing the Chemical Sciences* (CINF)		D			
Getting Your First Industrial Job* (PROF)		P			
Current & Future Trends To Provide Equal Access to Chemistry & Science Curricula for Students with Special Needs* (PROF)			A		
Terahertz Spectroscopy: Problem Solving for the 21st Century* (ANYL)				A	

Committee on Chemical Safety

CCS

R. H. Hill, Program Chair

Located with primary sponsor	S	M	Tu	W	Th
CHAS Awards* (CHAS)	P				
New Horizons in Chemical Health & Safety* (CHAS)	P				
Managing Reactive Chemistry* (CHAS)		P			
Identifying & Evaluating Hazards in Research Laboratories* (CHAS)			D		

PROGRAM SUMMARY

Committee on Chemists with Disabilities

C W D

K. Booksh, Program Chair

Located with primary sponsor	S	M	Tu	W	Th
Current & Future Trends To Provide Equal Access to Chemistry & Science Curricula for Students with Special Needs* (PROF)			A		

Committee on Environmental Improvement

C E I

R. Lomneth, Program Chair

Located with primary sponsor	S	M	Tu	W	Th
Distribution & Fate of Emerging Contaminants in Hydrologic Systems of the Built Environment* (ENVR)	D			E	
Chemistry & Application of Green Catalysts for Energy Transformation & Emission Control* (ENVR)	P			E	
Green Chemistry & the Environment* (ENVR)		D		E	
Environmental Impacts of Electronic Technologies, Products & Processes: The Search for Sustainable Electronics* (ENVR)			D	E	
Water: Global Problems, Local Solutions* (ENVR)			D		
Status & Trends of Classical & Emerging Contaminants Across the World* (ENVR)			P	E	
Materials-Based Technologies for Water & Energy Sustainability: Research Frontiers & Practical Challenges to Adoption* (ENVR)				DE	A
Air Quality at the Interface* (AGRO)					D

Committee on Minority Affairs

C M A

J. Sarquis, Program Chair

Indianapolis Marriott Downtown	S	M	Tu	W	Th
Impact of Diversity & Inclusion**	P	A	A		
Years of Reflection: Committee on Minority Affairs		P			

Committee on Science

COMSCI

T. Nenoff, Program Chair

Indianapolis Marriott Downtown	S	M	Tu	W	Th
Emerging Science Frontiers: Young Investigators**		P			

Diversity & Inclusion Advisory Board

D & I

T. Quinn-Gray, Program Chair

Located with primary sponsor	S	M	Tu	W	Th
Impact of Diversity & Inclusion* (CMA)	P	A	A		

International Activities Committee

I A C

H. N. Cheng, Program Chair

Located with primary sponsor	S	M	Tu	W	Th
Water: Global Problems, Local Solutions* (ENVR)			D		

Society Committee on Education

S O C E D

A. Jorgensen, Program Chair

Indianapolis Marriott Downtown	S	M	Tu	W	Th
Tracking Changes in the Brain	P				
Making Demos Matter	P				
Eminent Scientist Lecture Featuring Attila Pavlath		P			
Chemistry of Racing* (MOTION)		D			
Undergraduate Research Posters* (CHED)		P			

Women Chemists Committee

W C C

A. Charlebois, A. Debaillie, Program Chairs

Indianapolis Marriott Downtown	S	M	Tu	W	Th
24th Anniversary of the WCC/Eli Lilly & Co. Travel Award**		D			
Arthur C. Cope & Arthur C. Cope Scholars Award Symposium* (ORGN)			D		
STEM Women in Innovation & Investing* (SCHB)			P		

Younger Chemists Committee

Y C C

T. Matos, Program Chair

Located with primary sponsor	S	M	Tu	W	Th
Role & Value of Social Networking in Advancing the Chemical Sciences* (CINF)		D			
Getting Your First Industrial Job* (PROF)		P			
Before & After Lab: Instructing Students in 'NonChemical' Research Skills* (CINF)				D	

GENERAL MEETING INFORMATION

YOUR MEETING REGISTRATION entitles you to a range of programming, including 808 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.

EARLY REGISTRATION:
UP TO JULY 12

STANDARD REGISTRATION:
JULY 13–SEPT. 12

ON-SITE ATTENDEE REGISTRATION:
Indiana Convention Center
Wabash East Lobby

REGISTRATION

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

Early Registration. Attendees with U.S. and Canadian addresses who register by July 12 will receive their badge credentials by mail before the meeting. International registrants must pick up their badge credentials at ACS Attendee Registration.

Standard & On-Site Registration. Attendees who register after July 12 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 Reg-

istration Center before Sept. 6 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/indy2013 until Sept. 12. A valid credit card is required to register online, and online registration is a real-time transaction.

Telephone. Call the ACS National Meeting Registration Center by Sept. 6 at (800) 251-8629 (U.S./Canada only) or (508) 743-9604 (international), Monday to Friday, 9 AM to 5 PM EDT.

Fax/Mail. Submit the registration form (page 60) by fax: (508) 743-9604 or mail: ACS Registration, c/o CDS, 107 Waterhouse Rd., Bourne, MA 02532. Mailed registrations will be accepted until Sept. 6.

On-site. Register during the meeting at ACS Attendee Registration at standard registration rates. ACS Attendee Registration will be open at the Indiana Convention Center, Wabash East Lobby, on Saturday, 3 to 6 PM; Sunday, 7:30 AM to 7:30 PM; Monday, 7:30 AM to 9:30 PM; Tuesday and Wednesday, 7:30 AM to 5:30 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); fax: (508) 743-9604; e-mail: acs@xpressreg.net; or mail: 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 Aug. 16 to guarantee the registrant a full refund less a \$50 administrative fee. Refund requests made after Aug. 16 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 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 (508) 743-9604 (save your fax confirmation sheet).

Social Event Ticket Cancellations/Refunds. Social event cancellations received by Aug. 16 entitle the registrant to a full refund. Refund requests made after Aug. 16 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.

REGISTRATION CATEGORY	FEE	
	EARLY BY JULY 12	STANDARD AFTER JULY 12
MEMBERS		
ACS member or society affiliate	\$370	\$445
Postdoctoral member	370	445
Emeritus or retired member	185	225
50-year member	No fee	No fee
Unemployed member (Dues waiver required)	No fee	No fee
Precollege teacher	95	95
Graduate student	185	185
Undergraduate	95	95
One-day registrant	185	225
NONMEMBERS		
Chemical scientist	\$650	\$780
Postdoctoral scientist	650	780
Visitor: Nonchemical scientist or chemical technician	370	445
Precollege teacher	95	95
Graduate student	370	370
Undergraduate	185	185
One-day registrant	370	445
Guest of registrant ^a	40	40
EXPOSITION-ONLY VISITORS		
Adult, exposition only	\$50	\$50
Student, exposition only	25	25

^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.

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PRESS/MEDIA REGISTRATION. Press registration is complimentary for credentialed members of the news media (restricted to reporters and editors working full-time for print or broadcast news) who are approved by the ACS Office of Communications. Press badges may be picked up with valid media credentials from the Press Room at the Indiana Convention Center, room 211. For more information, visit www.acs.org/pressroom.

EXPO-ONLY ADMISSION. All attendees with a valid badge receive complimentary admittance into the exposition. Individuals who want to visit the exposition without registering for the meeting's technical sessions can register for an expo-only adult badge for \$50 or \$25 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 registra-

tion 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 events and activities, including event locations, at www.acs.org/indy2013.

The following events require a ticket (event number in red), which can be purchased through Attendee Registration. Tickets will remain on sale until the evening prior to the event, if available. All tickets are sold on a first-come, first-served basis. Cancellations or refund requests must be made by Aug. 16. No tickets will be refunded after that date.

SPECIAL EVENTS AT THE INDIANAPOLIS MOTOR SPEEDWAY (IMS)

THE FOLLOWING events have been organized by the Indiana Local Section for attendees to enjoy during the Celebrate Science Indiana event. You must redeem your ACS ticket for the appropriate event ticket upon arrival at IMS.

SUNDAY, SEPT. 8–THURSDAY, SEPT. 12

Indianapolis Motor Hall of Fame Museum/SE-01/\$5
9 AM to 5 PM

SUNDAY, SEPT. 8

IMS 500 Track Lap Experience
(This event provides the ticket holder to a track lap in an Indy 500 pace car on the Indy 500 track with a professional race car driver, and a picture with an Indy 500 race car. Each car will hold three guests and one driver.)
SE-02/\$30 (student)/SE-03/\$50 (member)/SE-04/\$60 (nonmember)
9 to 11 AM
SE-05/\$30 (student)/SE-06/\$50 (member)/SE-07/\$60 (nonmember)
11 AM to 1 PM
SE-08/\$30 (student)/SE-09/\$50 (member)/SE-10/\$60 (nonmember)
1 to 3 PM

Persons participating in this event must be at least 18 years old, possess valid government-issued photo ID, and execute all required consent and liability releases.

IMS Miles Ahead Road Course Experience
(This event provides the ticket holder to a hot lap on the north section of the Formula 1 Road Course in a high performance sports car driven by a professional race car driver, and a picture with a 2013 John Cooper Works MINI Cooper Hardtop. Each car will hold one guest and one driver.)

SE-11/\$25 (member)/SE-12/\$30 (nonmember)

10 AM to noon

SE-13/\$25 (member)/SE-14/\$30 (nonmember)

1 to 3 PM

Persons participating in this event must be at least 18 years old, possess valid government-issued photo ID, and execute all required consent and liability releases.

EVENTS & ACTIVITIES

An updated schedule of events and activities is available at www.acs.org/indy2013.

SATURDAY, SEPT. 7

TOXI Workshop—Mass Spectrometry: Theory, Instrumentation & Applications in Pharmaceuticals & Toxicology/SE-16/\$40

1 to 4 PM, Indiana Convention Center
See description in "Workshops" (page 71)

TOXI Workshop—Nonacademic/Alternative Careers in Science/SE-15/\$40

1 to 4 PM, Indiana Convention Center
See description in "Workshops" (page 71)

SUNDAY, SEPT. 8

CHED High School-College Interface Luncheon/SE-17/\$35

(Included at no charge with high school teacher registration.)

Noon to 1 PM, Indianapolis Marriott Downtown

MONDAY, SEPT. 9

YCC Fun Run & Member Insurance/SE-18/\$30 (regular)/SE-36/\$20 (student)
7 to 10 AM, Indiana Convention Center



ACS
Chemistry for Life®

ADVANCE REGISTRATION FORM
AMERICAN CHEMICAL SOCIETY • 246th NATIONAL MEETING & EXPOSITION
SEPTEMBER 8 – 12, 2013 • INDIANAPOLIS, IN

4 ways to register: (see Registration Procedures)

Online: <http://www.acs.org/meetings> (credit cards only).

Phone: 508-743-0192 or 800-251-8629, Monday - Friday, 9 AM to 5 PM EST (credit cards only) by September 12, 2013.

Mail: completed form with payment to: ACS Registration c/o CDS, 107 Waterhouse Road, Bourne, MA 02532 by July 12, 2013.

Fax: completed form with payment to: 508-743-9604 (credit cards only) by September 12, 2013.

– 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 and exhibitor promotions before and after the meeting? (check all that apply) ☐ Mail ☐ E-mail ☐ Do not contact me for non-official purposes

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

DEMOGRAPHICS

1. Professional Discipline (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. Is this your first ACS National Meeting? ☐ Yes ☐ No

5. 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 hand-on experience
☐ Participate in ACS governance activities
☐ Work during the meeting (staff/exhibitors)
☐ Other _____

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

Hotel _____ Other _____

7. What mode of transportation will you take to attend the meeting?

☐ Plane ☐ Train ☐ Car ☐ Other _____

REGISTRATION CATEGORIES & FEES

ACS Members

	EARLY from May 29	STANDARD after July 12
<input type="checkbox"/> ACS member or Society affiliate	\$370	\$445
<input type="checkbox"/> Postdoctoral	\$370	\$445
<input type="checkbox"/> Emeritus or retired	\$185	\$225
<input type="checkbox"/> 50-year	No Fee	No Fee
<input type="checkbox"/> Unemployed	No Fee	No Fee

(dues waiver required)

<input type="checkbox"/> Graduate student	\$185	\$185
<input type="checkbox"/> Undergraduate Student	\$95	\$95
<input type="checkbox"/> Precollege teacher	\$95	\$95
<input type="checkbox"/> One day member registrant	\$185	\$225
<input type="checkbox"/> Su <input type="checkbox"/> M <input type="checkbox"/> Tu <input type="checkbox"/> W <input type="checkbox"/> Th		

Non-Members

<input type="checkbox"/> Chemical scientist	\$650	\$780
<input type="checkbox"/> Postdoctoral scientist	\$650	\$780
<input type="checkbox"/> Visitor: Non-chemical scientist	\$370	\$445
<input type="checkbox"/> Visitor: Chemical technician	\$370	\$445
<input type="checkbox"/> Graduate Student	\$370	\$370
<input type="checkbox"/> Undergraduate Student	\$185	\$185
<input type="checkbox"/> Pre-College Teacher	\$95	\$95
<input type="checkbox"/> One-day registrant	\$370	\$445
<input type="checkbox"/> Su <input type="checkbox"/> M <input type="checkbox"/> Tu <input type="checkbox"/> W <input type="checkbox"/> Th		

☐ Guest of Registrant (1) \$40 \$40

(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

<input type="checkbox"/> Adult	\$50	\$50
<input type="checkbox"/> Student	\$25	\$25

8. Registration 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 US 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 246th ACS National Meeting in Indianapolis, IN.

Credit Card Number _____ Exp Date _____

Credit Card Billing Address & Zip _____

Card Holder Name _____

Card Holder Signature _____

SOCIAL EVENT FEES

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

9. 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.

10. Abstract Subtotal \$ _____

Abstracts ordered by July 12, 2013, 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. and Canadian street addresses (no P.O. boxes)

GRAND TOTAL

11. Grand Total of 8-10 \$ _____

Registrant Procedures: US and Canadian attendees who register by July 12, 2013, will receive their registration credentials and tickets via mail prior to the meeting. Unless an international attendee has provided a US or Canadian mailing address on their registration form, their credentials must be picked-up onsite at the Attendee Registration. After July 12, 2013, registrations will continue to be accepted at the Standard rate on-line and by phone or fax (credit card payment only) until September 12, 2013.

Registration Cancellation/Refund Policy: By adhering to the following cancellation procedure, cancellations received by August 16, 2013, 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. Refunds are processed within 30 days after the conclusion of the meeting.

1. Submit your written cancellation to the ACS Registration Customer Service Center by mail, fax or e-mail by August 16, 2013.
2. Return your unused registration credentials to ACS by August 16, 2013. If you cancel before receiving your registration credentials, contact the ACS Registration Customer Service Center for further instructions.
3. Refund requests made after August 16, 2013, will not be honored.
4. No cancellation or refund for Abstract flash drives and/or postage charges for mailing will be made.

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

WCC Women in the Chemical Enterprises Breakfast/SE-19/\$40 (regular)/SE-20/\$25 (student)

7:30 to 9 AM, JW Marriott Indianapolis
(A limited number of student tickets are available. Students may purchase regular tickets if student tickets are sold out.)

CMA Reception & Luncheon/SE-21/\$50
11:30 AM to 2 PM, JW Marriott Indianapolis**Undergraduate Program Eminent Scientist Lecture & Lunch/SE-22/\$38**

(Included at no charge with undergraduate registration.)

Noon to 1:30 PM, Indianapolis Marriott Downtown

CHAL Networking Luncheon/SE-23/\$40
Noon to 1:30 PM, Indiana Convention Center**Chinese-American Chemical Society Social Hour & Dinner/SE-24/\$30**

6:30 to 9:30 PM, Luck Low Seafood Restaurant, 3623 Commercial Dr.

Purdue Alumni Reception/SE-25/No charge

7 to 8 PM, Indiana State Museum, 650 South Washington St.

TUESDAY, SEPT. 10**Senior Chemists Breakfast/SE-26/\$15**
7:30 to 9:30 AM, JW Marriott Indianapolis**University of Minnesota Alumni & Friends Breakfast/SE-27/\$5**

7:30 to 9:30 AM, Indiana Convention Center

CINF Luncheon/SE-28/\$15

Noon to 1:30 PM, Indiana Convention Center

COLL Luncheon/SE-29/\$40

Noon to 1:30 PM, Indiana Convention Center

I&EC Graduate Award Symposia Luncheon/SE-30/\$47

Noon to 1:30 PM, Indianapolis Marriott Downtown

WCC Luncheon/SE-31/\$50 (regular)/SE-32/\$30 (student)

Noon to 1:30 PM, JW Marriott Indianapolis
(A limited number of student tickets are

available. Students may purchase regular tickets if student tickets are sold out.)

C&EN 90th Anniversary Reception/SE-33 (regular)/SE-37 (staff)/No charge

(Celebrate C&EN's 90th anniversary with author and Food Network star Alton Brown. This celebration is open to staff and attendees.)

5 to 7 PM, Indiana Convention Center

ENFL Dinner/SE-34/\$65

6:30 to 9:30 PM, Harry & Izzy's, 123 South Illinois St.

ENVR Dinner & Social/SE-35/\$60

6:30 to 9:30 PM, Shula's Steakhouse, 50 South Capitol Ave.

ACCOMMODATIONS

TAKE ADVANTAGE of special ACS room rates for the national meeting in Indianapolis by reserving hotel rooms directly through Orchid Event Solutions by Aug. 13. Orchid Event Solutions is the official housing bureau endorsed by ACS for the national meeting in Indianapolis. ACS does not endorse booking hotel reservations through any other sources. A listing of official hotels with their guaranteed ACS rates and amenities is on page 62. All attendees who make reservations through Orchid Event Solutions will receive complimentary Internet access in their sleeping rooms and are automatically entered in the ACS Housing Drawing (see ad on page 64 for details).

Late Housing. Some hotels may have rooms available after Aug. 13. A listing of these hotels will be posted on the ACS meeting website at www.acs.org/indy2013. ACS rates and/or availability cannot be guaranteed during late housing.

On-Site Housing. During the meeting, an on-site housing desk will be available at the Indiana Convention Center, Wabash East Lobby, to assist with last-minute housing changes or needs.

RESERVATION METHODS. All registrants will receive confirmation for reservations made directly through Orchid Event Solutions. Review this document carefully for accuracy. Each confirmation contains a unique number that is proof of your reservation through Orchid Event Solutions. 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 Orchid Event Solutions. You will not receive a separate confirmation from the hotel.

Published ACS rates apply to hotel stays between Sept. 2 and 13. To extend your stay beyond these dates, you must reserve additional nights directly through the hotel.

Internet. Reserve online at www.acs.org/indy2013. Online reservations require a valid credit card (American Express, Discover, MasterCard, or VISA), and you will receive a confirmation to your e-mail address within 24 hours.

Telephone. Call Orchid Event Solutions at (866) 847-8570 (U.S./Canada only) or (801) 505-4140 (international), Monday through Friday, 7 AM to 6 PM MDT. Telephone reservations require a valid credit card (American Express, Discover, MasterCard, or VISA), and you will receive an acknowledgment to your e-mail address within 24 hours.

Fax/Mail. Fax the ACS Housing Form (available online) with your valid credit card information to (801) 355-0250 or mail the form with your valid credit card information or a check for the amount of one night's room and tax made payable to Orchid Event Solutions to ACS Housing, c/o Orchid Event Solutions, 175 South West Temple, Suite 140, Salt Lake City, UT 84101. Faxed and mailed reservations 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.

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 Orchid Event Solutions 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 Orchid Event Solutions. The credit card information or check deposit will be forwarded with your reservation to your hotel on Aug. 13 after



American Chemical Society

246th National Meeting and Exposition Participating Hotel List

Hotels in Indianapolis, Ind.

FOR BEST AVAILABILITY, MAKE YOUR RESERVATION ONLINE

www.acs.org/indy2013

OR BY PHONE (866) 847-8570 or (801) 505-4140 (international)

ALL RATES INCLUDE COMPLIMENTARY INTERNET

Hotels*	Single	Double	Triple	Quad	Maximum Occupants Per Room*	No Charge for Children Under This Age	Childcare Information Available	On ACS Shuttle Route	Per Day Hotel Parking Rates	Room-Service Available	Complimentary Internet	Pets Allowed*	Fitness Center	Swimming Pool	Accessible Rooms	Smoking Rooms* Available	Environmentally Friendly
	(1 person)	(2 persons)	(3 persons)	(4 persons)													
1- Comfort Suites City Centre	\$149	\$149	\$159	\$169	4	18	Yes	Yes	\$14	No	Yes	No	Yes	Yes	Yes	No	Yes
2- Conrad Indianapolis	\$229	\$229	N/A	N/A	2	18	Yes	Yes	\$35	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
3- Courtyard by Marriott Downtown Indianapolis	\$160	\$170	\$180	\$190	4	12	Yes	No	\$23/ \$27	Yes	Yes	Service	Yes	Yes	Yes	No	Yes
4- Crowne Plaza	\$172	\$172	\$182	\$192	4	18	No	No	\$22/ \$30	Yes	Yes	Service	Yes	Yes	Yes	No	Yes
5- Embassy Suites Indianapolis - Downtown	\$179	\$179	\$199	\$199	4	18	No	Yes	\$22	Yes	Yes	Service	Yes	Yes	Yes	No	Yes
6- Fairfield Inn & Suites Indianapolis Downtown	\$150	\$160	\$170	\$180	4	12	Yes	No	\$23/ \$27	Yes	Yes	Service	Yes	No	Yes	No	Yes
7- Hampton Inn Downtown	\$153	\$153	\$153	\$153	4	n/a	No	Yes	\$17	Yes	Yes	No	Yes	No	Yes	No	Yes
8- Hilton Indianapolis	\$156	\$156	\$166	\$176	4	18	Yes	Yes	\$15/ \$20	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
9- Holiday Inn Express Hotel & Suites City Centre	\$159	\$159	\$169	\$179	4	18	No	Yes	\$14	No	Yes	Service	Yes	Yes	Yes	No	Yes
10- Homewood Suites by Hilton Downtown	\$179	\$189	\$189	\$189	4	18	No	Yes	\$24	No	Yes	Service	Yes	Yes	Yes	No	Yes
11- Hyatt Regency Indianapolis	\$189	\$209	\$229	\$249	4	18	Yes	No	\$22/ \$30	Yes	Yes	No	Yes	Yes	Yes	No	Yes
12- Indianapolis Marriott Downtown	\$185	\$205	\$225	\$245	4	17	No	No	\$30/ \$35	Yes	Yes	Service	Yes	Yes	Yes	No	Yes
13- JW Marriott Indianapolis	\$214	\$234	\$244	\$254	4	12	Yes	No	\$30/ \$36	Yes	Yes	Service	Yes	Yes	Yes	No	Yes
14- Omni Severin Hotel	\$184	\$184	\$194	\$204	4	12	No	No	\$29	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
15- Sheraton Indianapolis City Centre Hotel	\$178	\$178	\$193	\$208	4	12	No	Yes	\$25/ \$30	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
16- SpringHill Suites Indianapolis Downtown	\$160	\$170	\$180	\$190	4	12	12	No	\$23/ \$27	Yes	Yes	Service	Yes	Yes	Yes	No	Yes
17- Staybridge Suites Indianapolis City Centre	\$159	\$159	\$169	\$179	4	18	No	Yes	\$14	No	Yes	Yes	Yes	Yes	Yes	No	Yes
18- The Alexander	\$179	\$179	\$189	\$199	4	n/a	Yes	Yes	\$20/ \$27	Yes	Yes	Yes	Yes	No	Yes	No	Yes
19- The Westin Indianapolis	\$199	\$219	\$239	\$259	4	17	No	No	\$28/ \$35	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes

The rates listed above do not include the current 17% room and occupancy tax per room per night, which is subject to change.

*Additional fees may apply

If a rollaway bed is required

If there are pets in guestrooms

If smoking occurs in guestrooms

5 PM MDT. Hotels may elect to charge a deposit of one night's room and tax to your credit card prior to your arrival. You will need to handle all payment arrangements directly with your assigned hotel. All hotel rooms are subject to 17% room tax (subject to change).

Reservation changes and cancellations can be made without penalty until Aug.

13. Hotels do not have individual reservations or credit card guarantees yet. After Aug. 13, you may continue to make changes and cancellations through Orchid Event Solutions until Aug. 29; however, canceled reservations may incur a \$25 fee that will be charged by Orchid Event Solutions. A one night's room and tax charge will be charged by the hotel for reservations that

are not canceled 72 hours prior to arrival. Penalties for early departures may be enforced and vary by hotel, so call your hotel for details.

ACCOMMODATIONS FOR GUESTS WITH DISABILITIES. If you require special hotel accommodations because of a disability, please indicate your requirements when



AMERICAN CHEMICAL SOCIETY 246th ACS NATIONAL MEETING & EXPOSITION | SEPTEMBER 8-12, 2013



For information about things to see and do in Indianapolis, go to VisitIndy.com

©Visit Indy 4/13

you make your reservation. Be sure to re-confirm any special room arrangements directly with your hotel.

SUITES. Send your suite requests by e-mail to help@orchideventsolutions.com (Attn.: Katie McLaughlin). They will attempt to find you a suite at an official ACS property that fits your needs.

ECONOMICAL ALTERNATIVE. 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 properties 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.

The Columbia Club, 121 Monument Cir.;

(317) 767-1361; ACS rate \$99 single/double occupancy; \$129 deluxe single/double occupancy.

Hilton Garden Inn, 10 Market St.; (317) 955-9700; ACS rate \$139 single/double occupancy.

KEEP YOUR MEETING COSTS AFFORDABLE. Attendee support of the official hotels allows ACS to utilize 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

MEETING INFO ON THE WEB

Registration, housing, technical programming, special events, participating exhibitors, and other meeting details are available at www.acs.org/indy2013.

through Orchid Event Solutions at www.acs.org/indy2013.

ACS GREENER MEETINGS

THE AMERICAN CHEMICAL SOCIETY

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, convention center, and hotel and vendor partners to reduce our footprint and raise the bar for industry practice.

Interested in learning more about how we're leading the way? Visit www.acs.org/greenermeetings to read about our greener meeting initiatives and access our 2012 Event Sustainability Report.

ACS Wins Green Leader Award. For our



ACS
Chemistry for Life™

Book your hotel for the American Chemical Society
246th National Meeting & Exposition
September 8-12, 2013 in Indianapolis, IN



Enter the ACS Indianapolis, IN Housing Drawing by Staying at a Hotel Booked Through Orchid Event Solutions:

First Prize
A New iPad*

Second Prize
A New iPhone*

Third Prize
A New iPod*

Top Reasons To Book Your Reservation Through Orchid Event Solutions:

1. All sleeping rooms booked through Orchid Event Solutions include complimentary internet access.
2. YOU WILL BE AUTOMATICALLY ENTERED INTO THE DRAWING when you stay at a hotel booked through Orchid Event Solutions.
3. DISCOUNTED RATES at the official hotels.
4. COMPLIMENTARY SHUTTLE SERVICE between Indiana Convention Center and many hotels on the ACS housing list.
5. MAKE YOUR RESERVATION ONLINE OR BY PHONE and receive instant acknowledgment of your reservation.
6. KEEP REGISTRATION FEES LOW by booking rooms through Orchid Event Solutions ultimately helping ACS meet its contractual obligations for the meeting.

Housing Opens May 29, 2013

Online at www.acs.org/indy2013
or by calling 1-866-847-8570

Monday - Friday, 7am - 6pm MST.
Housing will close on Aug 13.

**Rooms are limited, so make your
reservation today.**

DON'T DELAY,
RESERVE YOUR ROOM TODAY!

* Prize Drawing Rules: All winners will be determined on the basis of a random drawing conducted on or about September 19, 2013.
Complete details at www.acs.org/indy2013



efforts, ACS was the proud recipient of the Green Leader Award from the Capital Chapter of the Professional Convention Management Association in 2011 and 2012 for the following reasons:

- Held both 2012 national meetings in LEED-certified convention centers
- Offset shuttle transport emissions (142 tons CO₂ in 2012)
- Audited over 80% of hotel room block, surveying hotels on more than 40 sustainability practices; in 2012, 92% of hotels recycled
- Designated Sci-Mix as “zero waste,” achieving a diversion rate of 86% in Philadelphia
- Partnered with Clean the World to recover 3,500 lb of soaps and bottled amenities from hotel properties to reduce global disease
- Served 61.3% of produce by weight from local farms (<200 miles) at the 244th Attendee Welcome Reception in Philadelphia, and we aim to bring you healthy and local foods in Indianapolis as well
- Partnered with World Travel & Tourism Council for the inaugural application of the Hotel Carbon Measurement Initiative standard carbon footprint calculation for the national meeting in Philadelphia

Be A Catalyst For Change. As an attendee, you play an important role in the sustainability of the ACS national meeting and exposition. As you enjoy your time in Indianapolis, please consider the following choices that can help reduce your environmental impact:

- Bring a reusable water bottle from home and avoid the cost and waste associated with petroleum-based plastic water bottles.
- Responsibly dispose of paper, plastic, glass, and aluminum materials throughout the convention center and hotels.
- Take advantage of linen reuse initiatives at your hotel, decline delivery of unread newspapers, and turn off the lights when you are not in your hotel room.
- Enjoy the city, burn calories, and travel carbon dioxide-neutral by walking to and from your hotel. Walking directions will be posted at all ACS properties.
- When walking isn't an option, use the ACS carbon-offset shuttle service.

Suggestions? Send them to the ACS Committee on Environmental Improvement. Member contact information can be found at www.acs.org/committees or send an e-mail to nationalmeetings@acs.org.

TRAVEL & TRANSPORTATION

INDIANAPOLIS is easily accessible by air or train and the city offers several options to get around, including the ACS shuttle, taxis, and buses.

AIRPORT. Indianapolis International Airport (IND) is located at 7800 Col. H. Weir Cook Memorial Dr., about 15 minutes from the Indiana Convention Center. More information about the airport is available at indianapolisairport.com.

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 Amtrak).

AIRLINES:

American Airlines

aa.com; (800) 433-1790
Promotion code: 8643BY

Delta

delta.com; (800) 221-1212
Meeting event code: NMEZF (U.S.)
NMF26 (international)

United Airlines

united.com; (800) 426-1122
Offer code: ZNVA937265

RENTAL CARS:

Avis

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

Dollar Rent A Car

dollar.com; (800) 800-4000
Corporate #: CM2379

Hertz

hertz.com; (800) 654-2240
Convention number: 02UZO012

TRAIN:

Amtrak

amtrak.com; (800) 872-7245
Reference code: X45P-973 (for phone reservations only)

AIRPORT GROUND TRANSPORTATION.

Indianapolis International Airport's Ground Transportation Center, located on the first floor of the parking garage, offers connections to bus service, hotel courtesy vehicles, car rentals, and limousines. Curbside taxicab service is available just outside baggage claim.

Shuttle Service. Indianapolis International Airport offers the Go Green Airport

Shuttle. It operates from 8 AM to 11 PM, seven days a week. The one-way fare is \$10. Cash and major credit cards are accepted. Departures from the airport are on the hour and half hour. The shuttle route has several stops in the downtown area including the convention center, Omni Severin Hotel, and Embassy Suites Indianapolis—Downtown.

Taxi. Taxi service is available at the curb on the lower level of the terminal just outside baggage claim. The fare is about \$35 from the airport to downtown. There is a \$15 minimum charge from the airport, regardless of distance. Fares may not exceed the amount shown on the meter.

TRAVELING TO MEETING VENUES.

The Indiana Convention Center is located at 100 South Capitol Ave., Indianapolis, IN 46225.

ACS Shuttle. Complimentary shuttle service will be provided between the Indiana Convention Center and official ACS hotels, with the exception of hotels within walking distance. Buses will run from 7 AM to 11 PM from Sunday to Wednesday and 7 AM to 6 PM on Thursday. Buses will run approximately every 15 to 30 minutes on Sunday to Wednesday and every 60 minutes on Thursday. Visit the meeting website for a route map and to download the shuttle schedule.

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

Parking. For pricing, hours, and more, you can visit the interactive downtown map at indydt.com/parking.cfm or find and reserve parking at parkwhiz.com/lucas-oil-stadium-parking.

GETTING AROUND THE CITY

IndyGo's Flexible Services. IndyGo operates a reservation-based service known as Open Door. Open Door is the ADA paratransit service, and riders must meet certain criteria to ride. For more information, contact IndyGo at (317) 635-3344 or visit indygo.net and check out the online trip planner.

IndyGo's Red Line. Downtown/IUPUI Circulator, connecting the Indiana University-Purdue University, Indianapolis, campus to downtown Indianapolis, operates from 7 AM to 10 PM, Monday through Saturday, for \$1.75 per ride.

Walking. The Indiana Convention Center and ACS hotels are conveniently located in the heart of downtown. Hotels

are located within six blocks of the convention center. Do your part to reduce our environmental impact by walking to ACS properties.

ACS MEMBER SERVICES

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

ACS Member Services is located in Wabash East Lobby, near registration in the Indiana Convention Center, and is open Saturday, Sept. 7, 3 to 6 PM; Sunday, Sept. 8, 7:30 AM to 7:30 PM; Monday, Sept. 9, 7:30 AM to 9:30 PM; Tuesday, Sept. 10 and Wednesday, Sept. 11, 7:30 AM to 5:30 PM; and Thursday, Sept. 12, 7:30 AM to 1 PM.

ONLINE SOCIAL NETWORKING TOOLS.

Start discussions and connect with other attendees on the ACS Network and the ACS Facebook page. Follow ACS national meetings on Twitter. Read and comment on CENtral Science blog posts about ACS meetings.

POCKET GUIDE. View highlights and meeting information for the fall national meeting using the ACS Pocket Guide. Pocket Guides will be available for free throughout the convention center and available at many official ACS hotels.

ATTENDEE NATIONAL MEETING E-NEWSLETTER. Subscribe to the e-mail newsletter at emailpref.acs.org. Look for the latest information on the upcoming national meeting at www.acs.org/indy2013.

RICOH BUSINESS CENTER. Located on the first floor of the Indiana Convention Center, directly across from room 116, the Ricoh Business Center provides a range of services that include shipping, high-volume copying, faxing, badge chains, and color printing. For more information, please call (317) 262-4496 or e-mail ikonbusinesscenter@icclos.com.

MEMBER INSURANCE PROGRAM. Exposition Booth No. 625. The ACS

Member Insurance Program is committed to offering quality comprehensive insurance plans and financial security programs to members and their families. Stop by the Member Insurance station to learn how you can sign up for Life & Health Insurance, Auto & Homeowners Plus, Disability Income, Long-Term Care, Medicare Supplement, Medical Discount Cards, Pet Insurance, Special Event Insurance, and Professional Liability. Complete a survey for a chance to win a Kindle Fire.

We look forward to showing you how you can receive great value for your insurance dollars. For additional information, visit www.acs.org/insurance.

ON-SITE MEETING ARRANGEMENTS

ADA-COMPLIANT MEETING. The Indiana 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 (TDD) hearing-impaired

functions. More information is available at icclos.com.

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: nationalmeetings@acs.org; fax: (202) 872-4410; or TDD: (202) 872-4557 by July 12 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.

“ASK ME” GREETERS. Look for ACS “Ask Me” greeters wearing yellow T-shirts, caps, or scarves; they can help you locate meeting rooms, navigate the on-site program, or assist with other attendee services.

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. Badges and lanyards are recyclable and biodegradable. Please discard appropriately.

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/indy2013. Use the Meeting Mail terminals located in the Indiana Convention Center. Telephone messages left at the ACS Information Booth 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.

AUDIOTAPING, PHOTOGRAPHY & VIDEOTAPING.

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

TIPS FOR A SAFE STAY IN INDIANAPOLIS

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

CHILD CARE. Camp ACS will be available to all meeting attendees free of charge from 7 AM to 6 PM on Sunday, Sept. 8, through Thursday, Sept. 12. 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 Sept. 2 at www.acs.org/indy2013. 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 ACS Indiana Local Section and its members in handling local arrangements. Volunteers have planned many interesting activities; the Host Local Section booth will be located in the Indiana Convention Center, Wabash East Lobby.

INFORMATION BOOTH. Attendees who have meeting questions should visit the ACS Information Booth located in the Indiana Convention Center, Wabash East Lobby. Our information clerks can help you navigate the on-site program, find a particular session or room, and answer basic meeting questions on Saturday from 3 to 6 PM; Sunday to Wednesday from 7:30 AM to 6 PM; and Thursday from 7:30 AM to 1 PM. Lost-and-found items at the convention center should be directed to the ACS Information Booth. Telephone

messages left there will be conveyed to attendees via the electronic message center, but ACS cannot accept responsibility for the delivery of any messages, mail, and packages.

INTERNATIONAL REGISTRANTS. Many international visitors are required to hold a visa prior to 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. Information for international attendees can be found at www.acs.org/indy2013.

INTERNET & COMPUTER SERVICES. Utilize 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 Indiana 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 their table.

LUGGAGE & COAT CHECK. A luggage and coat check station will be available during registration hours from Sunday through Thursday at the Indiana Convention Center, Wabash East Lobby. Items left beyond published hours of operation will be turned over to building security at the end of each day.

MEETING OFFICES. The following ACS offices will be located in the Indiana Convention Center:

Attendee Registration: Wabash East Lobby

Career Fair: Hall A

Exhibitor Registration: Lobby C

Exposition: Halls B–E

Finance Office: Conference Room East
Host Local Section Booth: Wabash East Lobby

Information Center: Wabash East Lobby

Member Services: Wabash East Lobby

Press Center: Room 211

Shuttle Desk: Outside Wabash East Lobby

The following offices are located at the identified properties:

Operations Offices: Indiana Convention Center, Crowne Plaza, Hyatt Regency Indianapolis, Indianapolis Marriott Downtown, JW Marriott Indianapolis, Westin Indianapolis

Governance Office: JW Marriott Indianapolis

Society Programs: JW Marriott Indianapolis

MOTHERS ROOM. For your convenience and privacy, ACS will provide a room for nursing mothers at the Indiana Convention Center. Please see the Operations Office, in Conference Room West, 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 follow-

THANK YOU

The society thanks the many volunteers of the Indiana Local Section who are contributing to the 246th 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.

ing details: the status of your abstract at abstracts.acs.org (using your ACS ID to log in to the system); mode of presentation (oral or poster); and the time, length, and location of your 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. If you need to withdraw your presentation, please send a withdrawal notice to pacs@acs.org and contact your symposium organizer immediately.

TECHNICAL SESSION EQUIPMENT.

Each technical session meeting room will be equipped with the following: LCD projector, screen, podium microphone or lapel microphone, and laser pointer. Speakers need to provide their own laptops or arrange for specialty equipment directly with their symposium organizer and/or division program chair. 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 Saturday and 7 AM to 6 PM 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. The Ricoh Business Center is located on the first floor of the Indiana Convention Center, directly across from room 116, and it provides a range of services including high-volume copying, faxing, and color printing. For more information, please call (317) 262-4496 or e-mail ikonbusinesscenter@icclos.com.

POSTER SESSIONS. All materials must be confined to a 4-foot-high by 8-foot-wide display board in the convention center and 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 and 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 as indicated in the technical program. 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 246th national meeting is now available at www.acs.org/indy2013. You can search by divisions or committees, symposia, speakers, or keywords from abstracts as well as presidential events and the multidisciplinary theme of “Chemistry in Motion.”

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 12 or on-site at the Indiana Convention Center, Wabash East Lobby, from Sept. 7 to 12. The ACS member fee is \$65 each; the non-member fee is \$90 each. Attendees can pick up their abstracts on-site at ACS Attendee Registration at the convention center. You can have a USB flash drive shipped to you if you pay an \$8.00 postage fee per item and provide a valid street address within the U.S. or Canada. 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, DC 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 their meeting rooms.

Energy & Fuels.

Visit proceedings.com/2256.html

Polymer Chemistry. Ashley Ritter, e-mail: ardaltn@vt.edu

Polymeric Materials: Science & Engineering Inc.

Visit pmse.sites.acs.org/pmsepreprints.htm

SPECIAL & EDUCATIONAL EVENTS

PRESIDENTIAL EVENTS

DURING 2013, ACS President Marinda Li Wu has set a presidential theme and agenda based on “Partners for Progress & Prosperity.”

Wu is also supporting “Chemistry in Motion” as the theme for the Indianapolis meeting, organized by the thematic program chair, Robert A. Weiss, the Hezzleton E. Simmons Professor of Polymer Engineering at the University of Akron. The plenary symposium will take place at 4 PM on Sunday, Sept. 8.

Also on Sunday, at 1:30 PM, Wu will host “Science-in-Fiction & Science-in-Theater—the Last 25 Years of Carl Djerassi,” a special celebration honoring the 90th birthday of the chemist, author, poet, and provocateur. A presidential symposium titled “Career Advancement Opportunities” will take place in two sessions on Monday, Sept. 9. It will feature chemists who have successfully pursued nontraditional career paths and who have made an impact on the chemistry enterprise in diverse areas, which include government laboratory scientists, heads of academic institutions, CEOs from the chemical industry, patent attorneys, program officers at federal agencies, entrepreneurs, technical writers, and other careers.

On Tuesday, Sept. 10, an afternoon presidential symposium titled “Innovation & Entrepreneurship” will include entrepreneurs who have made an impact on the chemistry enterprise. Each will reflect on the challenges and opportunities inher-

ent in the chemical enterprise and share personal stories of the path that enabled transformation of innovative ideas into a successful business venture.

Tuesday morning will feature a special presidential workshop, "Advocacy Training," cosponsored with the Committee on Chemistry & Public Affairs.

A presidential symposium titled "The Impact of Diversity & Inclusion" and related events to mark the 20th anniversary of the Committee on Minority Affairs, will take place Sunday, Sept. 8, through Tuesday, Sept. 10.

The International Employment Initiative (IEI) will again provide an opportunity for employers with overseas job opportunities to connect with job seekers at the ACS Career Fair, including the Virtual Career Fair.

Other highlights include The Kavli Foundation Innovations in Chemistry Lecture, "Powering the Planet with Solar Fuel," by Harry B. Gray, the Arnold O. Beckman Professor of Chemistry and the founding director of the Beckman Institute at California Institute of Technology, on Monday, Sept. 9, at 5:30 PM. It is preceded by the foundation's Emerging Leader in Chemistry Lecture at 4 PM by Martin D. Burke, an associate professor of chemistry at the University of Illinois, Urbana-Champaign.

Details of presidential events and other recommended symposia can be found at www.acs.org/indy2013 and in the on-site program.

STUDENT & TEACHER ACTIVITIES

EDUCATION-FOCUSED programs and specialty activities are being held for undergraduate students, graduate students, high school teachers, and chemical professionals. Explore these opportunities in-depth at www.acs.org/indy2013.

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 success, careers in chemistry, and success in graduate school. Eminent Scientist Attila E. Pavlath of the USDA Western Research Center, in Albany, Calif., will present "Life without Chemistry? We Would be Back in the Stone Age."

SUNDAY, SEPT. 8

Undergraduate Hospitality Center, 9 AM to 5 PM

Graduate School Reality Check, Step I: Getting In, 9:45 to 10:45 AM

Student Chapter Adviser Coffee Break, 9:45 to 10:45 AM

Graduate School Reality Check, Step II: You're In—Now What? 10:45 to 11:45 AM

How To Be an Award-Winning Student Chapter, 10:45 AM to noon

Technical Symposium: Tracking Changes in the Brain, 1 to 2 PM

Technical Symposium: Making Demos Matter, 2 to 3:30 PM

Networking Social with Graduate School Recruiters, 3 to 6 PM

Workshop: Careers in Chemistry Pharmaceutical R&D, 3:30 to 5 PM

Chemistry & the Environment Film Series, 7:30 to 9:30 PM

MONDAY, SEPT. 9

Undergraduate Hospitality Center, 9 AM to noon

Technical Symposium: The Chemistry of Racing, 9 to 11:30 AM

Eminent Scientist Lecture & Luncheon, noon to 1:30 PM

Undergraduate Research Poster Session (sponsored by CHED), 2 to 4 PM

Undergraduate Speed Networking with Chemistry Professionals, 4 to 5:30 PM

Sci-Mix/Successful Student Chapter Posters, 8 to 10 PM

All events are sponsored or cosponsored by the Society Committee on Education's Undergraduate Programs Advisory Board. Chair: Matthew Mio, University of Detroit, Mercy. Program Chair: Carmen Collazo, Pontifical Catholic University of Puerto Rico. For more information, go to www.acs.org/undergrad or contact the ACS Undergraduate Programs Office at (800) 227-5558 ext. 4480.

GRADUATE & POSTDOCTORAL PROGRAM. The Graduate & Postdoctoral Scholars Office, with support from the Graduate Education Advisory Board, provides and promotes programs and events for graduate students and postdoctoral scholars. All events will take place at the Indiana Convention Center.

MONDAY, SEPT. 9

Graduate & Postdoctoral Scholars Reception, 7 to 8:30 PM

Academic Employment Initiative, 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 (800) 227-5558 ext. 4588.

HIGH SCHOOL TEACHERS PROGRAM.

The Division of Chemical Education and the ACS Education Division are sponsoring the High School Teachers Program. This special event will feature presentations and activities on ready-to-use classroom resources and programs that enhance high school students' experiences in chemistry and expand teachers' portfolios. The High School/College Interface Luncheon will bring together educators from all grade levels with the goal of facilitating an exchange of ideas and networking among teachers.

High school teachers can register for the program directly through Attendee Registration; the special registration fee includes course materials, lunch, access to the full ACS meeting (Sunday through Thursday), and entry to the exposition (Sunday to Tuesday). Attendees can track professional development (based on clock hours) for sessions attended at the ACS national meeting. Upon completion and submission of ACS forms, participants will be mailed a certificate documenting their participation in the conference.

SUNDAY, SEPT. 8

High School Teachers Program, 8:30 AM to 4:30 PM

For more information, contact the Office of High School Chemistry at education@acs.org or call (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: Early registration (before July 12) \$250, full registration \$325; non-CHAS member: early registration \$300, full registration \$375. Registration is required for all CHAS workshops. Register online at dchas.org.

K-12 Chemical Safety Workshop for Science Teachers. Friday, Sept. 6, 8:30 AM to 4:30 PM. Indiana Convention Center. *Sponsored by CHAS.* Presenter: James Kaufman. Science labs and classroom demonstrations can present serious hazards that teachers can control using known hazard information and control methods. This

workshop will help teachers recognize and manage classroom chemical hazards and associated risks through the development of a comprehensive chemical management system. Preregistration for this event is required. This workshop meets with the Laboratory Safety Workshop. Science teachers can register online at labsafetyinstitute.org. Fee: \$99.

Laboratory Safety Workshop. Friday, Sept. 6, 8:30 AM to 4:30 PM. *Sponsored by CHAS.* Presenters: James Kaufman and Jack Breazeale. This presentation on laboratory safety by the Laboratory Safety Institute has been attended by thousands

of safety professionals. With experience in both industrial and academic laboratories, the presenters take a real-world approach to safety issues in the laboratory. Interactive demonstrations will teach you about issues such as creative wiring in the lab and how to work with administrators to keep a safe working environment. This workshop will provide a forum to speak openly about safety in your workplace.

Laboratory Waste Management. Friday, Sept. 6, 8:30 AM to 4:30 PM. Indiana Convention Center. *Sponsored by CHAS.* Presenter: Russ Phifer. This comprehensive course will identify the various regulatory requirements that apply to laboratories that generate hazardous waste, as well as provide insight to the options for on-site management and off-site disposal. The instructor will include discussion of recycling/reclamation techniques, economical handling of waste, and liability issues.

Going Global—Hazard Communication Meets Global Harmonization. Saturday, Sept. 7, 8:30 AM to 12:30 PM. Indiana Convention Center. *Sponsored by CHAS.* Presenters: Frankie Wood-Black and Peter Black. Changes to OSHA's Hazard Communication Standard, effective March 26, 2012, adopted several aspects related to global harmonization of safety materials. The revised standard includes revised criteria for classification of chemical hazards, new labeling provisions, a specified format for safety data sheets, revisions to definitions, and new training requirements. The new labeling and data sheets require the use of standardized signal words, pictograms, hazard statements, and precautionary statements. The workshop will focus on the requirements of the new rule and provide tips and tools for implementation. The workshop is designed for the practitioner who is responsible for translating the standard to individuals who work in teaching, research, or industrial laboratories. Fee: \$125 for everyone.

Chemical Reactivity Hazards: Laboratory-Scale Recognition & Control. Saturday, Sept. 7, 8:30 AM to 4:30 PM. Indiana Convention Center. *Sponsored by CHAS.* Presenter: Neal Langerman. The Process Safety Alliance, in cooperation with the Occupational Safety & Health Administration, is presenting this workshop. The objective is to provide participants with the knowledge and skill to screen processes for potential hazards, to recognize when reactive hazards

2013 Leadership Development System Course Offerings

The following four-hour facilitated courses, sponsored by the ACS Leadership Development System, require a fee of \$150 each for ACS members and \$300 each for nonmembers. Scholarships are available. For course times, descriptions, scholarship information, or to register, go to www.acs.org/leaderdevelopment. For more information, contact Kareem Redmond, (202) 872-6015, or e-mail leaders@acs.org. Participation is open to all interested registrants. All courses will be held at the JW Marriott Indianapolis.

Coaching & Feedback. Most managers will tell you that coaching is important, and yet they avoid actually coaching anyone. Some who try find it harder than expected. The reason? Many managers lack the skills and confidence to be effective in the coaching role. Yet good coaching is central to your success as a leader and the success of your team members, employees, and volunteers. Coaching will help you increase performance, expand your team's capabilities, and improve relationships and morale. This course provides leaders with a proven process, practical tools, and a hands-on opportunity to coach volunteers and employees more effectively.

Collaborating Across Boundaries. 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 not just a matter of communication but 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.

Developing Communication Strategies. This course focuses on how to communicate successfully with others about issues of importance to you, especially in cases where you want action taken in response to your communication. Working in small interactive groups, you'll have the chance to develop and practice your own effective communication strategy. Most important, you'll learn how to apply your new communication skills to a variety of situations in your workplace, in your community, and at ACS.

Engaging & Motivating Volunteers. Recruiting and engaging volunteers to help accomplish a project are challenges leaders of volunteers face. Leaders must understand what help is needed, what skills are required, and what motivation will excite volunteers to commit to the project. Learn practical tools to engage volunteers and make the assignment successful and rewarding so volunteers will participate in future assignments.

are present, and to 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, Sept. 7, 8:30 AM to 4:30 PM. Indiana Convention Center. *Sponsored by CHAS.* Presenters: Jim Kaufman, Russ Phifer, and George Wahl. Take a close look at the Chemical Hygiene Officer (CHO) position, and prepare at the same time for the CHO Certification exam, which will be held on Sunday, Sept. 8, through the National Registry of Certified Chemists. The instructors provide a different slant to safety issues in the laboratory, focusing on what you do and how you can do it better. The course covers all of the content areas of the certification exam, including a sample test in the same format as the real one.

COACHing Powerful Women Postdocs: Landing that First Job. Saturday, Sept. 7, 8:30 AM to 5 PM. Westin Indianapolis. *Sponsored by COACH.* This workshop is for postdocs to learn how to assimilate fundamentals of responsible negotiations and communication skills. Discussion will be focused on issues relevant to securing an academic position that will put you in

ENVR NRCC CERTIFICATION EXAMS

WHAT: Certification exams of the National Registry of Certified Chemists

WHEN: Sunday, Sept. 8, 8 AM to noon

WHERE: Crowne Plaza

HOW: Advance registration and completion (with approval) of application must be done before Aug. 1.

Requests for applications and registration should be made by e-mail to rphifer@nrcc6.org with the subject line Chemical Hygiene Officer and your mailing address in the body of the e-mail, or request by mail to NRCC, 125 Rose Ann La., West Grove, PA 19390.

Call (610) 322-0657 with questions or visit nrcc6.org.

the best position for success in your new career in academia. This workshop will focus on learning effective communication techniques for interpersonal discussions in the workplace, teaching situations, and scientific research presentations. Topics include communication styles effective for women; how to project confidence and credibility through voice, image, and body language; how to handle difficult conversations; and use of powerful rather than weak words. CV review will also be offered. Pre-register at coach.uoregon.edu. For more information, contact Priscilla Lewis at coach@uoregon.edu or (541) 346-0116. Fee: free (travel assistance is available)

Mass Spectrometry: Theory, Instrumentation & Applications in Pharmaceuticals & Toxicology. Saturday, Sept. 7, 1 to 4 PM. Indiana Convention Center. *Sponsored by TOXI.* Presenters: Angela Goodenough and Olukayode Oluyedun. This session is designed to provide young investigators with an introduction to mass spectrometry and major small-molecule applications relevant to the pharmaceutical industry and toxicology. Topics covered will include basic theory, descriptions of different mass spectrometers, and small-molecule applications such as metabolite profiling, quantitative assay development, and metabolomics. Previous mass spectrometry experience is not required. Fee: \$40.

Nonacademic/Alternative Careers in Science. Saturday, Sept. 7, 1 to 4 PM. Indiana Convention Center. *Sponsored by TOXI.* Presenters: F. Peter Guenerich, Jennifer Griffiths, Steven Baertschi, James Myers, Julie DeSa Lorenz. The presentations will focus on how these individuals obtained their jobs and what they look for in hiring new workers. They will also discuss skill sets and any further training needed for these jobs. Fee: \$40.

ACS PROFESSIONAL EDUCATION SHORT COURSES

ACS SHORT COURSES are the best way to obtain scientific training, face to face, in a few short days. Each course is designed to improve the skills and knowledge of chemical scientists and technicians, and they are taught by expert instructors. ACS member, early registration, and group discounts are available. A course fee and registra-

tion separate from the national meeting are required. Register for a short course in Indianapolis, obtain course and pricing details, or view a full course catalog online at proed.acs.org. If you have questions, call (202) 872-4508, fax (202) 872-6336, or e-mail proed@acs.org.

ANALYTICAL

1-D & 2-D NMR Spectroscopy: Structure Determination of Small-Molecule Organic Compounds, Sept. 7-8

Applications of Bioisosteres in Drug Design, Sept. 6

Capillary Electrophoresis of Biomolecules, Sept. 7-8

Fundamentals of High-Performance Liquid Chromatography, Sept. 6-7

Practical Applications of Mass Spectrometry for Small Molecules, Sept. 7-8

BIOLOGICAL/PHARMACEUTICAL/MEDICINAL CHEMISTRY

Capillary Electrophoresis of Biomolecules, Sept. 7-8

Chemical Toxicology: A Chemist's Roadmap To Reduce Bioactivation Liabilities in Drug Candidates, Sept. 7

Computer Assisted Drug Design, Sept. 7-8

Druglike Properties: Optimizing Pharmacokinetics & Safety in Drug Discovery, Sept. 7-8

Improving Drug Candidates by Design: Physicochemical Properties & Compound Success, Sept. 6

Introduction to Drug Metabolism: Role & Practice in Drug Discovery & Development, Sept. 8

Oral Bioavailability Assessment in Pre-clinical Species & Humans, Sept. 9

Scaling from Milligrams to 1-2 kg: Making the First GMP Batch, Sept. 7-8

COMPUTERS/STATISTICS/ENGINEERING

Applied Computational Modeling, Sept. 6-7

Chemical Engineering for Chemists, Sept. 7-8

Computer Assisted Drug Design, Sept. 7-8

Scaling from Milligrams to 1-2 kg: Making the First GMP Batch, Sept. 7-8

Statistical Analysis of Laboratory Data, Sept. 7-9

GENERAL

Effective Supervision of Scientists & the Technical Staff, Sept. 7-8

Effective Technical Writing, Sept. 6–7

ORGANIC/PHYSICAL CHEMISTRY

1-D & 2-D NMR Spectroscopy: Structure Determination of Small-Molecule Organic Compounds, Sept. 7–8

Dispersions in Liquids: Suspensions, Emulsions & Foams, Sept. 7–8

Essentials of Organic Chemistry, Sept. 8

Mastering the Art of Writing Reasonable Organic Reaction Mechanisms, Sept. 8–9

Organic Synthesis: Methods & Strategies for the 21st-Century Chemist, Sept. 7–8

NMR Spectral Interpretation & Organic Spectroscopy: A Problem-Based Learning Approach, Sept. 6–7

Particle Surface Modification Technologies for Improving Properties & Applications, Sept. 8

POLYMER CHEMISTRY

Polymer Science & Technology, Sept. 7–8

Polymeric Coatings, Sept. 6–7

PROFESSIONAL DEVELOPMENT

Effective Supervision of Scientists & the Technical Staff, Sept. 7–8

Effective Technical Writing, Sept. 6–7

Mastering the Art of Writing Reasonable Organic Research Mechanisms, Sept. 8–9

Practical Approaches to Patents & Other Forms of Intellectual Property, Sept. 8

Project Management for Technical Professionals, Sept. 8–9

REGULATORY/ENVIRONMENTAL

Practical Approaches to Patents & Other Forms of Intellectual Property, Sept. 8

ACS CAREER FAIR ON-SITE AND ONLINE

JOB SEEKERS, are you looking to jumpstart 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, Sept. 8, 9 AM to 5:30 PM; Monday, Sept. 9, 8 AM to 5 PM; and Tuesday, Sept. 10, 8 AM to 5:30 PM, in the Indiana Convention Center, Hall A. The Virtual Career Fair will be held on Sept. 9 and 10, 8 AM to 6 PM. Whether on-site or online, the career fair is the place where the best talent and the best employers in chemistry meet.

During the career fair, participants 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
- Request live and virtual interviews

LET ACS HELP YOU REACH YOUR CAREER GOALS.

ACS will help you prepare for your next career move by providing resources that make it possible to map out a personal job search strategy, strengthen your résumé, and build your interview skills, all with the support of ACS career consultants.

On-site job seekers must be ACS members, be registered for the national meeting, and complete career fair registration at www.acs.org/careers (pick up a career fair registration badge in Hall A of the convention center beginning Sunday, Sept. 8).

Please note: We cannot guarantee that you will secure interviews at the ACS Career Fair or online at the Virtual Career Fair. Interviewing is strictly contingent on the availability of positions and the credentials and qualifications that employers are seeking. All interviews will be held in Hall A only.

GET ONLINE AND OPTIMIZE YOUR JOB SEARCH.

The virtual portion of the ACS Career Fair eliminates geographical barriers, enabling job seekers and employers to connect with each other from their home, from their office, or from the dedicated computer stations at the meeting. Interviews and informal discussions will take place in virtual booths via text and/or video chat. Additionally, job seekers can schedule time with ACS career consultants for one-on-one consultations and attend live events via webcast. In today's tough economy, it makes good sense to enhance your job search by participating fully in both the on-site and online ACS career fairs. Register at www.acs.org/vcf.

IDEAL FOR EMPLOYERS. 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, more than 1,000 global job seekers—from recent grads to seasoned professionals—met with on-site and virtual recruiters seeking to fill positions in all facets of chemistry, pharmaceuticals, and biotechnology. This career fair continues the innovation, with both on-

site and online interviewing opportunities.

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 and online 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 on-site and online networking forums.
- Extend your presence for 90 days after the career fair via the ACS jobs database and your virtual booth, giving you access to all candidates and your correspondence with whom you interacted.

ACS CAREER FAIR AND THE ACS EXPOSITION TEAM HAVE JOINED FORCES.

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 in the Indiana Convention Center, Hall A, to pick up their blue badge. For more information, please visit www.acs.org/careerfair. You can also contact Garretta Rollins at (800) 227-5558 ext. 6209 (U.S./Canada only), (202) 872-6209 (international), or e-mail g_rollins@acs.org.

ONE-ON-ONE CAREER CONSULTING.

Individual 30-minute appointments with career consultants are available both 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 Hall A. Sign-up begins at 9 AM on Sunday, Sept. 8, on a first-come, first-served basis.

CAREER AND PROFESSIONAL DEVELOPMENT WORKSHOPS.

More than 30 career-related workshops will help you with everything from building your résumé to optimizing job performance to learning the

ins and outs of higher education, industry, working for yourself, and government employment to ace the interview. Workshop times are subject to change. Please consult the online workshop schedule at www.acs.org/careerfair for final workshop program and times.

All workshops will be held in the convention center. Following is the preliminary schedule.

SUNDAY, SEPT. 8

Working in Industry—Part I, 8:30 to 10:30 AM

Acing the Interview, 8:30 AM to 12:30 PM

Finding Your Path, 8:30 AM to 12:30 PM

Foreign-National Scientist: Obtaining a Job in the U.S., 9 to 10:30 AM

Patents & Intellectual Property, 10:45 AM to noon

Working in Industry—Part II, 10:45 AM to 12:45 PM

Working in Higher Education—Part I, 1:15 to 3:15 PM

Electronic Tools To Enhance Your Job Hunt, 1:30 to 3 PM

Acing the Interview, 1:30 to 5:30 PM

Working in Government, 1:30 to 5:30 PM

Writing Excellent Proposals, 3:30 to 5 PM

Working in Higher Education—Part II, 3:30 to 5:30 PM

MONDAY, SEPT. 9

Working in Higher Education—Part I, 8:30 to 10:30 AM

Working for Yourself, 8:30 AM to 12:30 PM

Working in Government, 8:30 AM to 12:30 PM

Working in Higher Education—Part II, 10:45 AM to 12:45 PM

Working in Industry—Part I, 1:15 to 3:15 PM

Acing the Interview, 1:30 to 5:30 PM

Finding Your Path, 1:30 to 5:30 PM

Working in Industry—Part II, 3:30 to 5:30 PM

PROFESSIONAL ADVANCEMENT OPPORTUNITIES IN INDIANAPOLIS!

Want to discover opportunities to gain valuable skills and advance your career while in Indianapolis? Visit www.proed.acs.org/advance to find out more.

TUESDAY, SEPT. 10

Working in Industry—Part I, 8:30 to 10:30 AM

Acing the Interview, 8:30 AM to 12:30 PM

Finding Your Path, 8:30 AM to 12:30 PM

Working in Industry—Part II, 10:45 AM to 12:45 PM

Working in Higher Education—Part I, 1:15 to 3:15 PM

Working for Yourself, 1:30 to 5:30 PM

Working in Government, 1:30 to 5:30 PM

Working in Higher Education—Part II, 3:30 to 5:30 PM

WEDNESDAY, SEPT. 11

Working in Industry—Part I, 8:30 to 10:30 AM

Acing the Interview, 8:30 AM to 12:30 PM

Finding Your Path, 8:30 AM to 12:30 PM

Working in Industry—Part II, 10:45 AM to 12:45 PM

EXPOSITION

SEE WHAT'S NEW INSIDE THE EXPOSITION. Visit the ACS National Exposition at the Indiana Convention Center, Halls B–E, from Sunday, Sept. 8, through Tuesday, Sept. 10. 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. You can also visit the ACS Career Fair Recruiters Row inside the exposition where employers will showcase their products and services. Also, 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.

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/indy2013 to learn more about exhibiting companies and to download product information.

Free Exhibitor Workshops. Free workshops will be hosted by exhibitors on the

exposition floor and in private rooms inside the Indiana 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 is available at www.acs.org/indy2013.

Presentations, Prizes & Special Events. Visit the Daily Prize Raffle area on Sunday through Tuesday for a chance to win a prize. Also, don't forget to join us on Sunday from 6 to 8:30 PM for the Attendee Welcome Reception and visit the exposition on Monday and Tuesday for morning and afternoon breaks, exciting activities, prizes, and networking opportunities.

Internet & Technology. Utilize free Internet access and leave messages for one another at the Meeting Mail terminals located throughout the meeting. Also, enjoy free Wi-Fi service at designated areas in the Indiana 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 \$50. Students with school identification can obtain an expo-only badge for \$25. Registration can be handled online, by mail, or in person at ACS Attendee Registration at the Indiana Convention Center, Wabash East Lobby.

GOVERNANCE MEETINGS

For the complete list of committee meetings and agendas, please consult www.acs.org/indy2013 or the on-site program distributed during the meeting.

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 Indiana Convention Center from noon to 1 PM on Sunday, Sept. 8.

ACS COUNCIL. The ACS Council meet-

ing will begin at 8 AM, Wednesday, Sept. 11, at the JW Marriott Indianapolis. 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 non-members 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, express interest in, or raise questions about matters over which the committee has purview. The assumption is that participation is welcomed and will be orderly and courteous. Only committee members 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

Pat N. Confalone, chair; 303 Centennial Circle, Wilmington, DE 19807-2131

Open Meeting
Saturday, Sept. 7, 8 to 10:30 AM
JW Marriott Indianapolis

CHEMICAL ABSTRACTS SERVICE

Grace Baysinger, chair; Stanford University, Swain Chemistry & Chemical Engineering Library, 364 Lomita Dr., Stanford, CA 94305-5081

Executive Session
Friday, Sept. 6, 7 to 9 PM
Indianapolis Marriott Downtown

CHEMICAL SAFETY

Robert Hill, chair; safety@acs.org

Combined Open Meeting
and Executive Session
Monday, Sept. 9, 8:30 to 11:30 AM
JW Marriott Indianapolis

CHEMISTRY & PUBLIC AFFAIRS

Connie Murphy, chair; 109 East Haley St., Midland, MI 48640-5907

Open Meeting
Saturday, Sept. 7, 8 AM to 4 PM
JW Marriott Indianapolis

CHEMISTS WITH DISABILITIES

Karl S. Booksh, chair; University of Delaware, Chemistry & Biochemistry Department, Newark, DE 19716

Combined Open Meeting
and Executive Session
Sunday, Sept. 8, 8 AM to 4:30 PM
JW Marriott Indianapolis

COMMITTEES

Dawn A. Brooks, chair; 10762 Forest Lake Ct., Indianapolis, IN 46278

Open Executive Session
Monday, Sept. 9, 1:30 to 2:30 PM
JW Marriott Indianapolis

COMMUNITY ACTIVITIES

George L. Heard, chair; University of North Carolina, Asheville, gheard@unca.edu

CCA/LSAC Joint Open Meeting
Tuesday, Sept. 10, 2 to 3:30 PM
JW Marriott Indianapolis

Executive Session
Saturday, Sept. 7, 5 to 7 PM
JW Marriott Indianapolis

CONSTITUTION & BYLAWS

Harmon B. Abrahamson, chair; University of North Dakota, 151 Cornell St., Stop 9024, Grand Forks, ND 58202-9024

Open Meeting
Sunday, Sept. 8, 1 to 1:30 PM
JW Marriott Indianapolis

Executive Sessions
Sunday, Sept. 8, 8:30 AM to 1 PM and 1:30 to 4:30 PM
JW Marriott Indianapolis

CORPORATION ASSOCIATES

Dawn Mason, chair; 2705 Berkshire La., Kingsport, TN 37660-4769

Open Meeting
Monday, Sept. 9, 8 AM to noon
Conrad Indianapolis

COUNCIL POLICY

Carolyn Ribes, vice chair; cribes@dow.com

Open Meeting
Tuesday, Sept. 10, 9:30 AM to noon
JW Marriott Indianapolis

DIVISIONAL ACTIVITIES

Michael J. Morello, chair; mike.morello@pepsico.com

Open Session
Sunday, Sept. 8, 8 AM to noon
JW Marriott Indianapolis

ECONOMIC & PROFESSIONAL AFFAIRS

Lisa Balbes, chair; lisa@balbes.com or 648 Simmons Ave., Kirkwood, MO 63122-2740

Executive Session
Saturday, Sept. 7, 8 AM to 5:30 PM
The Westin Indianapolis

Open Executive Session
Sunday, Sept. 8, 8 AM to noon
The Westin Indianapolis

EDUCATION

Andy Jorgensen, chair; University of Toledo, Department of Chemistry, MS 602, 2801 West Bancroft St., Toledo, OH 43606-3328

Open Meeting
Monday, Sept. 9, 3 to 4 PM
Indianapolis Marriott Downtown

Executive Session
Friday, Sept. 6, 1 to 5:30 PM
Indianapolis Marriott Downtown

ENVIRONMENTAL IMPROVEMENT

Matt Fisher, chair; St. Vincent College, Department of Chemistry, 300 Fraser Purchase Rd., Latrobe, PA 15650-2667

Open Executive Session
Saturday, Sept. 7, 4 to 6 PM
JW Marriott Indianapolis

COUNCIL POLICY COMMITTEE

The Council Policy Committee will open the floor during its meeting at 11 AM on Tuesday, Sept. 10, to councilors who would like to raise issues of concern that affect them and/or their local sections or divisions. For further information contact Carolyn Ribes, vice chair of CPC, at cribes@dow.com. For more committee meeting details and agendas, please consult the meeting website at www.acs.org/indy2013 or the on-site program distributed during the meeting.

ETHICS

Gregory M. Ferrence, chair; 4160 Department of Chemistry, Illinois State University, Normal, IL 61790-4160

Open Executive Session
Sunday, Sept. 8, 9 AM to 4:30 PM
JW Marriott Indianapolis

INTERNATIONAL ACTIVITIES

H. N. Cheng, chair; c/o ACS Office of International Activities, 1155—16th St., N.W., Washington, DC 20036

Open Meeting
Saturday, Sept. 7, 1 to 5 PM
JW Marriott Indianapolis

Subcommittee Meetings
Saturday, Sept. 7, 9 AM to noon
JW Marriott Indianapolis

LOCAL SECTION ACTIVITIES

Mitchell Bruce, chair; mbruce@maine.edu or Department of Chemistry, University of Maine, Orono, ME 04469

LSAC/CCA Joint Open Meeting
Tuesday, Sept. 10, 2 to 3:30 PM
JW Marriott Indianapolis

Executive Session
Sunday, Sept. 8, 8 AM to noon
JW Marriott Indianapolis

MEETINGS & EXPOSITIONS

Will E. Lynch, chair; Department of Chemistry & Physics, Armstrong Atlantic State University, 11935 Abercorn St., Savannah, GA 31419-1997

Executive Session
Sunday, Sept. 8, 7 to 11 AM
JW Marriott Indianapolis

MEMBERSHIP AFFAIRS

Wayne Jones, chair; Binghamton University (SUNY), Binghamton, Vestal Pkwy. East, P.O. Box 6000, Binghamton, NY 16902

Executive Session
Saturday, Sept. 7, 5 to 7 PM
JW Marriott Indianapolis

Executive Session
Sunday, Sept. 8, 8:30 AM to 3 PM
JW Marriott Indianapolis

Open Meeting
Sunday, Sept. 8, 3:30 to 4:30 PM
JW Marriott Indianapolis

MINORITY AFFAIRS

Al Ribes, chair; aribes@dow.com

Executive Session
Sunday, Sept. 8, 8 AM to noon
JW Marriott Indianapolis

Open Executive Session
Sunday, Sept. 8, 1 to 4 PM
JW Marriott Indianapolis

NOMENCLATURE, TERMINOLOGY & SYMBOLS

Albert C. Censullo, chair; 1595 Cordova Dr., San Luis Obispo, CA 93405

Open Meeting
Monday, Sept. 9, 2 to 5 PM
JW Marriott Indianapolis

NOMINATIONS & ELECTIONS

William H. (Jack) Breazeale Jr., chair; nomelect@acs.org

Open Meeting
Monday, Sept. 9, 11 AM to noon
JW Marriott Indianapolis

PATENTS & RELATED MATTERS

James L. Chao, chair; 7424 Ridgefield Dr., Cary, NC 27519-0503

Open Meeting
Saturday, Sept. 7, 9 AM to 5 PM
JW Marriott Indianapolis



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PRELIMINARY PROGRAM

PROFESSIONAL TRAINING

Anne B. McCoy, chair; Department of Chemistry, Ohio State University, 100 West 18th Ave., Columbus, OH 43210

Open Meeting
Sunday, Sept. 8, noon to 1:30 PM
Indianapolis Marriott Downtown

PROJECT SEED

Sandra Bonetti, chair; Colorado State University, Pueblo, Department of Chemistry, 2200 Bonforte Blvd., Pueblo, CO 81001-4901

Open Meeting
Sunday, Sept. 8, 9:30 to 10:30 AM
JW Marriott Indianapolis

Executive Session (CLOSED)
Saturday, Sept. 7, 10:30 AM to 5 PM
JW Marriott Indianapolis

PUBLIC RELATIONS & COMMUNICATIONS

David S. Gottfried, chair; Georgia Institute of Technology, 791 Atlantic Dr., Atlanta, GA 30332-0269

Open Meeting
Monday, Sept. 9, 8 AM to 1 PM
JW Marriott Indianapolis

PUBLICATIONS

Stephanie Brock, chair; Wayne State University, Chemistry, 5101 Cass Ave., Detroit, MI 48202-3929

Open Meeting
Friday, Sept. 6, 4:30 to 5 PM
Indianapolis Marriott Downtown

Executive Session
Friday, Sept. 6, 1 to 5 PM
Indianapolis Marriott Downtown

SCIENCE

Katherine Glasgow, chair; Nomacorc LLC, 400 Vintage Park Dr., Zebulon, NC 27597-3803

Open Meeting
Saturday, Sept. 7, 9 AM to 5 PM
JW Marriott Indianapolis

SENIOR CHEMISTS

George Heinze, chair; 30 Bunker Hill Run, East Brunswick, NJ 08816-331

Open Meeting
Monday, Sept. 9, 8 AM to noon
JW Marriott Indianapolis

TECHNICIAN AFFAIRS

Mary K. Moore, chair; 512 Locust St., Jonesborough, TN 37659-1020

Executive Session
Sunday, Sept. 8, 8:30 AM to 1:50 PM
JW Marriott Indianapolis

Open Session
Sunday, Sept. 8, 2 to 2:30 PM
JW Marriott Indianapolis

WOMEN CHEMISTS

Judith H. Cohen, chair; wcc@acs.org

Executive Session
Saturday, Sept. 7, 7:30 AM to 5 PM
JW Marriott Indianapolis

YOUNGER CHEMISTS

Dorothy Miller, chair; University of California Office of the President, 1111 Franklin St., Oakland, CA 94607-5201

Open Session
Sunday, Sept. 8, 8 AM to noon
JW Marriott Indianapolis

COUNCILOR CAUCUS MEETINGS

All caucuses will take place at the JW Marriott Indianapolis.

SUNDAY, SEPT. 8

District II Councilor Caucus, 6 to 7 PM
District IV Councilor Caucus, 6 to 7 PM
District V Councilor Caucus, 6 to 7 PM
District VI Councilor Caucus, 6 to 7 PM
Middle Atlantic Councilor Caucus, 6 to 7 PM

TUESDAY, SEPT. 10

Division Officers/Councilors Caucus, 4 to 6 PM
District I Councilor Caucus, 5:30 to 7 PM