

243RD ACS NATIONAL MEETING

SAN DIEGO, March 25-29

SAN DIEGO, known worldwide as one of the best tourist destinations, will host attendees of the American Chemical Society spring national meeting. Symposia supporting the meeting's theme, "Chemistry of Life," are organized by theme program chair Peter D. Senter, vice president of chemistry at Seattle Genetics. The Kavli Foundation Innovations in Chemistry Lecture features Carolyn R. Bertozzi, a professor at the University of California, San Francisco, and a Howard Hughes Medical Institute investigator. Her research focuses on applications of chemistry and nanoscience in the study of cellular processes.

ACS President Bassam Z. Shakhashiri has set an agenda based on the theme "Advancing Chemistry and Communicating Chemistry." He will host 958 half-day oral sessions of original programming by 30 technical divisions and six committees, as well as 150 poster sessions that include Sci-Mix. More than 11,700 papers will be presented.

The majority of the 2012 ACS national awards will be presented during this spring meeting, with Robert S. Langer delivering his Priestley Medal Address at the awards dinner on Tuesday evening at the Hilton San Diego Bayfront hotel. The Arthur C. Cope Award and Cope Scholar Awards are among others that will be presented during the 244th national meeting in Philadelphia.

Education-focused programs for high school teachers, undergraduate and graduate students, postdocs, and chemical professionals who want to expand their options and manage their careers will be offered as well. UC San Diego professor Kimberly A. Prather will discuss her career path and novel research on the impacts of aerosols on climate and the environment as part of the undergraduate program.

Ticketed social events are open to all interested registrants and include receptions and gatherings for meals as well as a few opportunities for further learning.

For job seekers and employers alike, the ACS Career Fair once again will provide opportunities for actual interviews along with one-on-one career assistance. A wide vari-

MEETING INFO ON THE WEB www.acs.org/sandiego2012

PANORAMIC View of San Diego at sunset.

ety of professional development workshops, including four offered by the ACS Leadership Development System, are available for registration and a fee.

Workshops sponsored by the Division of Chemical Health & Safety are offered for a fee and require registration. The National Registry of Certified Chemists will administer certification exams required for chemical hygiene officer posi-

tions. As usual, a range of professional development courses, known as ACS Short Courses, are available with a separate registration and fee. The ever-popular exposition will feature more than 250 companies showcasing services, instruments, books, lab equipment, and much more in over 350 booths.

As they say in San Diego, "Come for the convention. Stay for the vacation."—ARLENE GOLDBERG-GIST

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TECHNICAL PROGRAM SUMMARY

Presidential Event	PRES				S	
Bassam Z. Shakhashir	Bassam Z. Shakhashiri, Program Cho					
Located with Primary Organizer	S	М	Tu	W	Th	
Excellence in Graduate Polymer Research* (POLY)	D	D	Е			
Cellulose-Based Biomimetic & Biomedical Materials* (CELL)	D	A				
Inspiring Science Education: Readiness for the Global Enterprise* (IAC)		D				

Chemistry of Life	Į	_	lF	-	E
P. Sente	r, P	rog	ran	ı Ch	ıair
San Diego Convention Center	S	М	Tu	W	Th
Chemistry of Life Plenary	P				
Epigenetics: From Basic Principles to Drug Development**		A			
Chemical Networks in Biology*		Р			
The Kavli Foundation Innovations in Chemistry Lecture		Р			
Materials as Medicines: A New Direction for Disease Imaging & Treatment**			Р		
Protein Conjugates* (BIOT)	A				
Drug Polypharmacology Prediction & Design* (CINF)	D				

Division of Agricultural & Food Chemistry	I	AGFD			
N. Da Cost	a, P	rog	ran	ı Cl	ıair
Embassy Suites San Diego Bay	S	М	Tu	W	Th
Undergraduate Symposium	A				
Carotenoid Cleavage Products LIFE	D	D			
Recent Advances in Nano/ Microencapsulation of Bioactives LIFE	D	D	A		
Graduate Student Symposium	P				
General Papers		A			A
Hispanic Foods		D	A		

Division of Agricultural & Food	AGFD)			
Chemistry (continued) N. Da Costa, Program Chair							
Embassy Suites San Diego Bay	S	М	Tu	W	Th		
Advances in Food Allergen Detection LIFE		Р	D	D			
Sci-Mix		Е					
Metabolism & Bioavailability of Bioactives							
LIFE			D				
Nanotechnology for Food & Agriculture			P	D			
Cocoa: Science & Technology LIFE			P	D			
General Posters			P				
Chemistry in a Cup o' Java* (SOCED)	A						

Division of Analytical Chemistry	/	4	N	ΥΙ	L				
C. Larive, Program Cha									
San Diego Marriott & Marina	S	М	Tu	W	Th				
Capillary Electrophoresis as a Tool for Bioanalysis <i>LIFE</i>	A								
Bioanalytical Sensors & their Applications** <i>LIFE</i>	P	D	D						
Fluorescence Imaging of Cellular Structure & Dynamics** <i>ufe</i>	P								
General Posters	Е								
Active Learning in the Undergraduate Analytical Chemistry Curriculum**		D							
Sci-Mix		Е							
Advances in Bioanalytical Chemistry LIFE			D	A					
Advances in Environmental Analysis				A					
Challenges in Algal Biofuels: Biochemistry, Lipid Extraction & Analysis** LIFE				P					

LIFE: Chemistry of Life.

A = AM AE = AM/EVE P = PM D = AM/PME = EVE DE = AM/PM/EVE PE = PM/EVE

 $^{{\}rm *Cosponsored\ symposium\ with\ primary\ organizer\ shown\ in\ parentheses;}$ located with primary organizer.

^{**}Primary organizer of a cosponsored symposium.

Division of Analytical Chemistry (continued) C. Larive Program Chair

C. Larive, Program Chair							
San Diego Marriott & Marina	S	М	Tu	W	Th		
Advances & Applications of Metabolomics & Screening				Р			
Advances in Analytical Separations					A		
Advances in Analytical Spectroscopy					A		
Advances in Mass Spectrometry					Р		
Advances in Surface Analysis					Р		
Emerging Environmental Contaminants: Chemistry & Toxicology* (ENVR)	D	D	Р	Е			
WCC Rising Stars Symposium* (WCC)		D					
Undergraduate Research Poster Session* (CHED)		Р					
Microalgae-Derived Products* (I&EC)		Р					
ACS Award in Separations Science & Technology: Honoring Milton Lee* (I&EC)			D				
Environmental Chemistry for a Sustainable World* (ENVR)			D	AE			

Division of Biochemical Technology

P. Cirino, A. Amanullah, Program Chairs							
San Diego Convention Center	S	М	Tu	W	Th		
Protein Conjugates** LIFE	A						
DIC Wang Award for Excellence Biochemical Engineering	A						
Advances in Biofuels Production** LIFE	D	D	P				
Downstream Processes LIFE	D	D	D	D	A		
Stem Cells & Tissue Engineering UFE	D	D	D				
Upstream Processes LIFE	D	D	D	D	D		
Biophysical & Biomolecular Processes LIFE	Р	D	D	D			
BIOT Young Investigator Award Lecture LIFE		A					
David Perlman Lecture		Р					
Sci-Mix		Е					
Advances in Biotechnology Product Development LIFE			A	D	D		
Marvin J. Johnson Award in Microbial & Biochemical Technology Lecture			A				
Poster Session			Е	Е			
Elmer Gaden Award Lecture				A			

Division of Biochemical Technology (continued)

P. Cirino, A. Amanullah, Program Chairs

San Diego Convention Center	S	М	Tu	W	Th
Undergraduate Research Poster Session* (CHED)		Р			
Collaborative Drug Discovery for Neglected Diseases* (COMP)	Р				
Epigenetics: From Basic Principles to Drug Development* (LIFE)		A			
Materials as Medicines: A New Direction for Disease Imaging & Treatment* (LIFE)			Р		
Chemical Networks in Biology* (LIFE)		Р			
Improving Efficiency at Biorefineries* (CELL)				D	

Division of Biological Chemistry

J. Bollinger, D. McCafferty, Program Chairs

San Diego Marriott & Marina	S	М	Tu	W	Th
Graduate Student & Postdoctoral Researcher Symposium LIFE	A				
Nucleic Acid Enzymes LIFE	P				
Current Topics in Biological Chemistry	Е		Е		
Chemistry & Biology of Drug Resistance LIFE		A			
Biochemical Studies of Protein Folding in the Cell** LIFE		P			
Sci-Mix		Е			
Chemical Biology in Natural Product Research LIFE			A		
ACS Chemical Biology Award Lecture & Symposium <i>ufe</i>			P		
Proteases: From Mechanism to Drug Development LIFE				A	
Breakthroughs in Biological Chemistry uff				P	
Challenges in Phenotypic Whole Cell High-Throughput Screening & Medicinal Chemistry Optimization of Hits: Strategies To Discover Novel Antiparasitic & Antimycobacterial Agents* (MEDI)	A				
Collaborative Drug Discovery for Neglected Diseases* (COMP)	Р				
Fluorescence Imaging of Cellular Structure & Dynamics* (ANYL)	Р				

Division of Biological Chemistry BIOL (continued) J. Bollinger, D. McCafferty, Program Chairs S M Tu W Th San Diego Marriott Marquis & Marina Р D D Bioanalytical Sensors & their Applications* (ANYL) Membranes* (COMP) D Drug Discovery* (COMP) D D D D D D D D D Molecular Mechanics* (COMP) D Epigenetics: From Basic Principles to Drug A Development* (LIFE) Undergraduate Research Poster Session* Р (CHED) Chemical Biology: When Two Heads Are D Better Than One* (CHED) D WCC Rising Stars Symposium* (WCC) Р Chemical Networks in Biology* (LIFE) Materials as Medicines: A New Direction for P Disease Imaging & Treatment* (LIFE) GPCR Signaling Revisited with Biased P Ligands* (MEDI) Structural Biology of Carbohydrate-Active Α

BMGT								
Development & Management D. Daly, Program Chai								
S	М	Tu	W	Th				
	A							
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	A							
		P						
		P						
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Enzymes* (CELL)

CARB **Division of Carbohydrate** Chemistry X. Huang, Program Chair S M Tu W Th Omni San Diego Hotel D 2011 Wolfrom, Isbell & Young Investigator Award Symposium LIFE D Р General Papers D A D Carbohydrate-Mediated Host-Pathogen Interactions & Their Interventions LIFE E D 2012 Wolfrom, Isbell & Young Investigator Award Symposium LIFE Frontiers in Nucleic Acid Chemistry, Α D Biology & Drug Discovery LIFE Symposium in Memory of David Y. Gin** LIFE Р D AGeneral Posters Е

Division of Catalysis Science & Technology	(С,	Α -	ΤΙ	L				
B. Zhou, C. Sievers, Program Chair.									
Omni San Diego Hotel	S	М	Tu	W	Th				
Data-Rich Approaches in Catalysis Research	D								
Acid-Base Bifunctional Catalysis		A							
Gabor A. Somorjai Award for Creative Research in Catalysis & the George A. Olah Award in Hydrocarbon or Petroleum Chemistry: Honoring Enrique Iglesia & James A. Dumesic**		D	D	D	A				
Biomimetic/Biocatalysis LIFE		Р							
Sci-Mix		Е							
Electro/Photoelectrocatalysis			Α						
Molecular Insights Toward Novel Catalysts			Р	D	D				
Frontiers in Heterogeneous Catalysis* (PHYS)	D	D		D	A				
High-Throughput Screening Approaches for Catalyst Discovery & Optimization* (PETR)	D								
Life & Death of Catalysts* (PETR)			D						
Selective Oxidations* (PETR)				D	A				

Division of Cellulose & CELL **Renewable Materials** S. Murphy, Program Chair S M Tu W Th **US Grant Hotel** $D \mid D$ Lignin as a Renewable Raw Material LIFE $D \mid D \mid A$ Structural Properties & Surface Interactions of Cellulosic Materials** LIFE Cellulose-Based Biomimetic & Biomedical DA Materials** LIFE DE D D Anselme Payen Award Symposium: Advanced Materials from Cellulose & Renewable Polymers** LIFE CELL Poster Session Е Cellulose Nanomaterials LIFE Р DA Sci-Mix Е D Biosynthesis, Structure & Interactions of Р Α Native Cellulose** LIFE Polysaccharide-Based Hydrocolloids** LIFE Р D Improving Efficiency at Biorefineries** LIFE D Electrospun Fibers From Renewable Р D Materials** LIFE Structural Biology of Carbohydrate-Active Α Enzymes** LIFE Advances in Biofuels Production* (BIOT) Α Biofuels: A Better Choice for the Future?* A Е (ENVR) Microalgae-Derived Products* (I&EC) Р Challenges in Algal Biofuels: Biochemistry, Р

Division of Chemical Education	CHED							
W. Harwood, I. Levy, A. Cannon, Program Chair								
Westin San Diego	S	М	Tu	W	Th			
Green Chemistry Theory & Practice** LIFE	A							
Research in Chemical Education	A							
High School Program	D							
Chemical Education Research	D							
NMR Spectroscopy in the Undergraduate Curriculum**	D							
ACS-CEI Award for Incorporating Sustainability into Chemistry Education**	Р							
Next-Generation PLTL	Р							
General Posters	Е							

Lipid Extraction & Analysis* (ANYL)

CHED **Division of Chemical Education** (continued)

W Harwood, I. Levy, A. Cannon, Program Chairs

W. Harwood, I. Levy, A. Cannon, Program Cha						
Westin San Diego	S	М	Tu	W	Th	
George C. Pimentel Award in Chemical Education: Honoring Diane M. Bunce**		D				
Improving Safety Education in Academic Institutions**		D				
Research in Chemistry Education		D	Α	D		
Chemical Biology: When Two Heads Are Better Than One** LIFE		D				
Undergraduate Research Poster Session**		Р				
Sci-Mix		Е				
Successful Student Chapter Posters**		Е				
NSF-Catalyzed Innovations in the Undergraduate Curriculum			A			
Advances in Teaching Organic Chemistry			D			
Process Oriented Guided Inquiry Learning (POGIL)			D			
ACS Award for Achievement in Research for the Teaching & Learning of Chemistry: Honoring Loretta L. Jones**			P			
GEMs for Chemists: Integrating Green Chemistry into First Year & Introductory Chemistry Courses**			Р			
Chemistry Education: International & Multicultural Perspectives**				A		
Connecting Chemistry to the Public with Informal Science Education				A		
Chemistry for Engineers				Р		
Meaningful Learning from Laboratory Work: Evidence & Assessment				Р		
General Papers					D	
Undergraduates Collaborating for the Future* (I&EC)	D					
A Celebration of Chemical Safety: Jay Young Memorial* (CHAS)	Р					
Active Learning in the Undergraduate Analytical Chemistry Curriculum* (ANYL)		D				

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CHAS **Division of Chemical Health &** Safety L. Stroud, D. Decker, Program Chairs S M Tu W Th San Diego Marriott & Marina Р It's Not All About Power Point** Р A Celebration of Chemical Safety: Jay Young Memorial** Escondido House** Р Е Sci-Mix Research Operations: Supporting the D Whole Research Project** Challenges of Design, Construction & A Transitioning to Operations for New Laboratory Facilities** Transitioning from Design to Operation** P Improving Safety Education in Academic D

Institutions* (CHED)

Division of Chemical Information	(2	11	1	F
R. Bienstoc	k, P	rog	ran	ı Cl	ıair
San Diego Convention Center	S	М	Tu	W	Th
Instructional Tools for Chemical Information	D				
Drug Polypharmacology Prediction & Design** LIFE	D				
CINFlash	P				
CINF Scholarship for Scientific Excellence	Е				
Joint CINF-CSA Trust Symposium**		A			
Computer-Aided Drug Design: Hopes, Reality & Prospects**		D			
Mobile Space & E-Books		Р			
Sci-Mix		Е			
Systems Chemical Biology & Other "Systems" Approaches in Chemistry & Biology Research			D		
Recent Advances in Reaction Searching			D		
Beyond the Database: New Models of Scholarship in an eScience World				A	
InChI Symposium				D	
Libraries & Institutional Research Evaluation				Р	
General Papers					A
Molecular Mechanics* (COMP)	Α		Р	D	D

Division of Chemical Information (continued) R. Bienstock, Program Chair S M Tu W Th San Diego Convention Center D D D DDrug Discovery* (COMP) Collaborative Drug Discovery for Neglected P Diseases* (COMP) Perspectives in Applied Computational D D Methods* (COMP) Р Chemical Networks in Biology* (LIFE) Computational Approaches to D Spectroscopy Analysis* (COMP) Material Science* (COMP) P D

Division of Chemical Toxicology	٦	- (C	Χ	Γ			
S. Sturla, Program Chair								
San Diego Convention Center	S	М	Tu	W	Th			
Collaborative Drug Discovery for Neglected Diseases* (COMP)	P							

Division of Chemistry & the Law	CHAL										
J. Hasford, K. Bianco, Program Chairs											
San Diego Convention Center	S	М	Tu	W	Th						
Strengthening Your Patent Rights in Light of Recent Federal Circuit Court Decisions	A										
Hot Topics in Pharmaceutical Patent Law	P										
Trends in Chemical & Pharmaceutical Patent Law		A									
Recent Developments in Intellectual Property Law: Patents & Trade Secrets		Р									
Sci-Mix		Е									
Forensic Science, Chemistry & the Law				D							

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Division of Chemistry & the Law (continued)

CHAL

J. Hasford, K. Bianco, Program Chairs

J. Hasjora, R. Blanco, I rogram Ghans								
San Diego Convention Center	S	М	Tu	W	Th			
How the New Patent Reform Law Will Affect Your Organization				A				
Strategies for Designing Around Chemical Patents				Р				
The Many Faces of CHAL: Where Chemistry Meets the Law					D			

Division of Colloid & Surface Chemistry

R Nagarajan Program Chair

R. Nagaraj	an,	Prog	grai	n Cl	ıaiı
Westin Gaslamp Quarter	S	М	Tu	W	Th
Basic Research in Colloids, Surfactants & Nanomaterials*	D	DE	A	D	D
Biomembrane Structure, Mechanics & Dynamics LIFE	D	DE	A	D	D
Particles at Fluid Interfaces	D	A			
Nanomaterials & the Environment: The Chemistry & Materials Perspective***	D	DE	A		
Nanoparticle Enhanced Spectroscopy	D	D			
Proteins at Interfaces LIFE	D	DE	A	D	D
ACS Award for Creative Invention: Honoring Chad A. Mirkin	Р	D			
Surface Chemistry in Oncology LIFE		Р	A		
Biocidal Materials & Interfaces LIFE		Е		D	D
Fundamental Research in Colloid & Surface Science		Е			
ACS Award in Colloid & Surface Chemistry: Honoring Robert J. Hamers			A		
Novel Surface Science Techniques Probing Solid-Liquid & Biological Interfaces			A	D	
ACS Awards Lectures			Р		
Arthur W. Adamson Award for Distinguished Service in the Advancement of Surface Chemistry: Honoring Steven J. Sibener				D	

Division of Colloid & Surface Chemistry (continued)

R. Nagarajan, Program Chair

K. Wagarajan, 1 rogram Gu									
Westin Gaslamp Quarter	S	М	Tu	W	Th				
Interactions of Colloidal & Nano Particles with Textiles & Fibers LIFE				D	A				
Frontiers in Heterogeneous Catalysis* (PHYS)	D	D		D	A				
ACS Award for Encouraging Women into Careers in the Chemical Sciences: Honoring Yves J. Chabal* (WCC)	P								
Atmospheric & Geochemical Interfaces* (GEOC)		D	D	A					
Gabor A. Somorjai Award for Creative Research in Catalysis & the George A. Olah Award in Hydrocarbon or Petroleum Chemistry: Honoring Enrique Iglesia & James A. Dumesic* (CATL)		D	D	D	A				
Polysaccharide-Based Hydrocolloids* (CELL)			Р	D					
ACS Award for Creative Advances in Environmental Science & Technology: Honoring Vicki H. Grassian* (ENVR)				D					

Division of Computers in Chemistry

COMP

E. Esposito, S. Wildman, Program Chairs

San Diego Convention Center	S	М	Tu	W	Th
Drug Discovery** LIFE	D	D	D	D	D
Integrating Theory & Experiment for Discovering the Fundamental Chemistry of the Li-Air & Other Metal-Air Battery Systems	D				
Membranes**	D				
Molecular Mechanics** LIFE	D	D	D	D	D
Molecular Simulations of Ligand-Gated Ion Channels & the Mechanism of General Anesthesia	D				
Quantum Chemistry**	D	D	D	D	D
Symposium in Honor of Andy McCammon	D	D	D	D	
Integration of Computer Simulation with Experiments	D	D			
Collaborative Drug Discovery for Neglected Diseases** LIFE	P				

COMP **Division of Computers in Chemistry (continued)** E. Esposito, S. Wildman, Program Chairs S M Tu W Th San Diego Convention Center D D ACS Award for Computers in Chemical & Pharmaceutical Research: Honoring Weitao Yang** Perspectives in Applied Computational D D Methods** Advancement of Computational Р Approaches in Pharmaceutical Solid-State Chemistry Methods & Applications in Structure-Based P DE Design for Building Novel Molecules Е D DD Applications of Computational Methods to Environmentally Sustainable Solutions Р D D Rational Drug Design LIFE Chemical Computing Group Excellence Е Award** Hewlett-Packard Outstanding Junior Е Faculty Award** Poster Session Е Computational Approaches to D Spectroscopy Analysis** Computational Study of Water** D Α Р Material Science** D Computational Chemistry for D D Α Geochemistry* (GEOC) Computer-Aided Drug Design: Hopes, D Reality & Prospects* (CINF) Structural Properties & Surface Р Interactions of Cellulosic Materials* (CELL) Desktop Modeling for Medicinal Chemists: Α Has It Come Of Age?* (MEDI) GPCR Drug Discovery, High Resolution A

Structures & Modeling* (MEDI)

Division of Environmental Chemistry

ENVR

S. Al-Abed, Program Chair									
Hilton San Diego Bayfront	S	М	Tu	W	Th				
Biofuels: A Better Choice for the Future?**	Α			Е					
Emerging Environmental Contaminants: Chemistry & Toxicology**	D	D	Р	Е					
Special Symposium in Honor of Martin Reinhard**	D	D		Е					
Sustainability & Water Reclamation	D								
Sorption & Transformation of Contaminants in Natural Soil Environment	Р			Е					
Chemistry in Water Treatment & Purification		D	A	Е					
Environmental Fate of Dispersants Used in Oil Spills		D							
Sci-Mix		Е							
Environmental Chemistry for a Sustainable World**			D	AE					
Microbial & Biochemical Transformations of Emerging Contaminants			D	Е					
Nanomaterial Interaction on Biological Interfaces			D	Е					
ACS Award for Creative Advances in Environmental Science & Technology: Honoring Vicki H. Grassian**				D					
Bioassay-Directed Chemical Analysis: Exploring the Unknown Unknowns				DE					
Current Issues in Atmospheric Chemistry				DE					
Nanoparticles at Key Environmental Interfaces				DE					
Fundamental Science & Technological Applications of Bioelectrochemical Systems				PE	D				
Environmental Applications & Ecological Implications of Nanotubes, Nanowires & Fullerenes				Е	D				
General Posters				Е					
Nanoscale Enhanced Environmental Technologies				Е	D				
Environmental Bioinorganic Chemistry					D				

Division of Environmental Chemistry (continued)

ENVR

S. Al-Abed, Program Chair

5. Al-Avea, Frogram Ghan								
Hilton San Diego Bayfront	S	М	Tu	W	Th			
Nanomaterials & the Environment: The Chemistry & Materials Perspective* (COLL)	D	DE	A					
Atmospheric & Geochemical Interfaces* (GEOC)		D	D					
Undergraduate Research Poster Session* (CHED)		Р						
10th Symposium on Nanotechnology & the Environment* (I&EC)			Р	D	D			

Division of Fluorine Chemistry

M Etzkorn Program Chair

M. Elskorn, i rogram Ghan									
Omni San Diego Hotel	S	М	Tu	W	Th				
Poster Session	Е								
ACS Award for Creative Work in Fluorine Chemistry: Honoring David O'Hagan		D	D						
Fluorine-18: Radiochemistry				D					

Division of Fuel Chemistry

Y. Hu, Program Cha										
San Diego Convention Center	S	М	Tu	W	Th					
Hydrogen Production & Application**	D	D	D	A						
Solar Energy Conversion & Utilization for Fuels & Energy Production** LIFE	D	D	D	D	A					
Fuels, Chemicals, Materials & Energy from Biomass, Coal, Natural Gas & other Natural Resources**	D	D	D							
CO ₂ Capture, Sequestration, Conversion & Utilization**	D	D	D	D	D					
Materials & Catalysis in Fuel Cells**	D	D	D							
Symposium in Memory of James A. Franz for his Scientific Contributions**	D									
Theory & Simulation in Energy Production, Storage & Utilization**	D			P	D					
Catalysis for Clean Energy Technologies**		D	D	D	D					
Nanotechnology for a Sustainable Energy Economy**		D	D	D						

Division of Fuel Chemistry (continued)

Y. Hu, Program Chair

San Diego Convention Center	S	М	Tu	W	Th
Sci-Mix**		Е			
Advances in Energy & Fuel Processes, Systems, Materials & Utilizations**			Р		
Microtechnologies for Energy Sustainability**				D	A
Ultraclean Fuels Production & Utilization**				D	D
Biofuels: A Better Choice for the Future?* (ENVR)	A			Е	
High-Throughput Screening Approaches for Catalyst Discovery & Optimization* (PETR)	D				
Renewable Resources for Fuels & Chemicals* (PETR)	D				
Water Photolysis for Hydrogen* (PETR)		A			
Advances in X-to-Liquids Technologies (X = Coal, Natural Gas & Biomass): Chemistry, Reactor & Process Design* (PETR)		D			
Gabor A. Somorjai Award for Creative Research in Catalysis & the George A. Olah Award in Hydrocarbon or Petroleum Chemistry: Honoring Enrique Iglesia & James A. Dumesic* (CATL)		D	D	D	A
Novel Materials for Catalysis & Fuels Processing* (PETR)		D	D		
Chemistry of Petroleum & Emerging Technologies* (PETR)		Р			A
9th International Symposium on Heavy Oil Upgrading, Production & Characterization* (PETR)			D	D	
Life & Death of Catalysts* (PETR)			D		
Selective Oxidations* (PETR)				D	A

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 $[\]hbox{\it **Primary organizer of a cosponsored symposium.}\\$

GFOC **Division of Geochemistry** R. Penn, Program Chair S M Tu W Th San Diego Marriott & Marina Atmospheric & Geochemical Interfaces** LIFE D D D Computational Chemistry for DD Α Geochemistry** Redox Transformations of Metals in DA Sediments at Molecular to Pore Scales LIFE $P \mid D \mid D$ Fate of Petroleum in the Marine Environment: Lessons Learned Two Years after Deepwater Horizon LIFE Е Sci-Mix Р Chemical Evolution on Earth LIFE Redox Processes of Bioactive Molecules in D Aquatic Environments LIFE P Coupled Microbial-Chemical Processes & their Impact on Mineral Formation & Metal Transformation Special Symposium in Honor of Martin DD Е Reinhard* (ENVR)



GEOC **Division of Geochemistry** (continued) R. Penn, Program Chair S M Tu W Th San Diego Marriott & Marina D $D \mid A$ D From Geochemistry to Biochemistry & the Origin of Life* (PHYS) D DE A Nanomaterials & the Environment: The Chemistry & Materials Perspective* Undergrad Research Poster Session* Р (CHED) $P \mid D \mid D$ 10th Symposium on Nanotechnology & the Environment* (I&EC)

Division of the History of Chemistry	ŀ	1	5	} -	Γ
S. Rasmusse	n, P	rog	ran	ı Ch	air
San Diego Marriott & Marina	S	М	Tu	W	Th
HIST Tutorial & General Papers	P				
Chemistry Goes West		Α			
Springerbriefs History of Chemistry Launch Symposium**		Р			
Sci-Mix		Е			
The Double Bind: Minority Women in Science & Update 35 Years Later**			A		

Division of Industrial &	1	&	E	Ξ (2		
Engineering Chemistry M. Moon	re, Program Chai						
Manchester Grand Hyatt	S	М	Tu	W	Th		
Fundamentals & Applications in Hydrometallurgy: From the Molecule to the Process**	D	D					
Ionic Liquids: Science & Applications**	D	Α	DE	D	D		
Undergrads Collaborating for the Future**	D						
Green Solvents & Ionic Liquids as the Next Generation of Green Solvent Systems**	D						
Symposium in Honor of Lawrence L. Tavlarides: Industrial & Engineering Chemistry Fellow**	Р						
E.V. Murphree Award in Industrial & Engineering Chemistry: Honoring Michael F. Doherty**		A					

Division of Industrial & **Engineering Chemistry** (continued)

1 & E C

M. Moore, Program Chair

M. Moore, Program Ghai									
Manchester Grand Hyatt	S	М	Tu	W	Th				
Chemistry, Process Design & Safety for the Nitration Industry**		D	D						
Earle B. Barnes Award for Leadership in Chemical Research Management: Honoring Ben A. Christolini**		D							
Microalgae-Derived Products** иге		P							
Symposium in Honor of Robin D. Rogers: Industrial & Engineering Chemistry Fellow		Р							
Sci-Mix		Е							
ACS Award in Separations Science & Technology: Honoring Milton Lee**			D						
Symposium in Honor of Mark Vineyard: Industrial & Engineering Applied Chemical Technology Fellow**			D						
10th Symposium on Nanotechnology & the Environment**			P	D	D				
General Posters			Е						
ACS Award in Industrial Chemistry: Honoring Thomas F. Degnan Jr.**				D					
Waste Forms for Environmental Remediation**				D	A				
Education for a Sustainable Future: Academic & Industrial Perspectives**				Р					
General Papers					D				
Toward Sustainable Biofuels* (COMSCI)		P							

Division of Inorganic Chemistry S. Koch, N. Radu, Program Chairs S M Tu W Th San Diego Convention Center A PΕ Main Group Chemistry ΑE Е Nanoscience D D Chemistry of Materials ΑE P D Coordination Chemistry AE DE D D ACS Award for Distinguished Service in DE the Advancement of Inorganic Chemistry: Honoring Arnold L. Rheingold ACS Award in the Chemistry of Materials: DE P Honoring Richard B. Kaner

Division of Inorganic Chemistry INOR (continued)

S. Koch, N. Radu, Program Chairs

S. Koch, N. Radu, Program Chair								
San Diego Convention Center	S	М	Tu	W	Th			
Alfred Bader Award in Bioinorganic or Bioorganic Chemistry: Honoring Brian M. Hoffman	DE	P						
${\bf Emerging Developments in Nanomaterials } \\ {\bf for Energy Applications}$	DE	Р	Р					
Undergraduate Research at the Frontiers of Inorganic Chemistry	DE	Р	A					
ACS Award for Affordable Green Chemistry: Honoring William J. Kruper	Р							
Sustainable Inorganic Chemistry	Р	P	D					
ACS Award in Pure Chemistry: Honoring Oleg V. Ozerov	PE	Р	Р	A				
Bioinorganic Chemistry LIFE	PE		Е		A			
Organometallic Chemistry	PE		DE	D	D			
ACS Award in Inorganic Chemistry: Honoring Clifford P. Kubiak	Е		D	A				
ACS Awards Poster Session: Honoring Mitsuo Kira, Christopher A. Reed & Philip P. Power	Е							
Lanthanide & Actinide Chemistry	Е		A		A			
ACS National Awards in Inorganic Chemistry: Plenary Session		D						
ACS Awards: Honoring Mitsuo Kira, Christopher A. Reed & Philip P. Power		Р	D					
Chemical Interactions of Metal-Related Therapeutic Drugs LIFE		P	DE	D				
Sci-Mix		Е						
National Fresenius Award: Honoring Raymond E. Schaak			A					
Geometric & Electronic Structure Contributions to Reactivity			D	D				
Inorganic Catalysts			PE					
Early Transition Metal Chemistry			Е					
Electrochemistry			Е	Α				

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

LIFE: Chemistry of Life.

A = AM AE = AM/EVE P = PM D = AM/PME = EVE DE = AM/PM/EVE PE = PM/EVE

^{**}Primary organizer of a cosponsored symposium.

Division of Inorganic Chemistry	INOR				7
(continued) S. Koch, N. Radu	, <i>Ρ</i> γ	ogr	am	Ch	airs
San Diego Convention Center	S	М	Tu	W	Th
Inorganic Spectroscopy			Е		D
Late Transition Metal Chemistry			Е	P	
Nanostructured Electronic Materials			Е	D	
Inorganic Catalysis					D
Chemical Biology: When Two Heads Are Better Than One* (CHED)		D			
10th Symposium on Nanotechnology & the Environment* (I&EC)			Р	D	D
Environmental & Energy Related Inorganic Chemistry			Е	P	Р

Division of Medicinal Chemistry	1	V	Ε	D	
J. Barrisi	h, P	rog	ran	ı Ch	air
San Diego Convention Center	S	М	Tu	W	Th
Challenges in Phenotypic Whole Cell High-Throughput Screening & Medicinal Chemistry Optimization of Hits: Strategies To Discover Novel Antiparasitic & Antimycobacterial Agents** LIFE	A				
General Oral Session**	D		P		A
First Time Disclosures** LIFE	Р				
General Poster Session	Е			Е	
Update on Treating Alzheimer's Disease uff		A			
Diacylglycerol Acyltransferase 1 (DGAT-1) & Metabolic Diseases** LIFE		A			
CETP Inhibition: A Promising Way To Reduce Cardiovascular Risk LIFE		Р			
Strategies, SAR & Case Studies on Clearance LIFE		Р			
Sci-Mix		Е			
Desktop Modeling for Medicinal Chemists: Has It Come Of Age?**			A		
Combating Bacterial Resistance LIFE			D		
Alfred Burger Award in Medicinal Chemistry & George & Christine Sosnovsky Award for Cancer Research: Honoring Frank Ivy Carroll & Lawrence J. Marnett LIFE			P		

MEDI **Division of Medicinal Chemistry** (continued) J. Barrish, Program Chair S M Tu W Th San Diego Convention Center Breaking into New Chemical & Α Physicochemical Space: Conceptions, Implications & Novel Directions** LIFE GPCR Drug Discovery, High Resolution Α Structures & Modeling** LIFE GPCR Signaling Revisited with Biased Р Ligands** LIFE Schizophrenia** LIFE P Playing Well With Others: Successful Α Collaborations Between Pharma & Academia LIFE D D D D Drug Discovery* (COMP) D Membranes* (COMP) D Molecular Mechanics* (COMP) Collaborative Drug Discovery for Neglected P Diseases* (COMP) Epigenetics: From Basic Principles to Drug Α Development* (LIFE) $D \mid D$ Perspectives in Applied Computational Methods* (COMP) D WCC Rising Stars Symposium* (WCC) Р Chemical Networks in Biology* (LIFE) P Undergraduate Research Poster Session* (CHED) P Materials as Medicines: A New Direction for Disease Imaging & Treatment* (LIFE)

Division of Nuclear Chemistry & Technology	NUCL							
K. Nash, J. Braley, Program Chair								
Westin San Diego	S	М	Tu	W	Th			
Legacy of an Extraordinary Alchemist: Albert Ghiorso 1915–2010	A							
Glenn T. Seaborg Award for Nuclear Chemistry: Honoring Silvia S. Jurisson** LIFE	P	D						
A Career in Actinide Science: Tribute to Lester Morss		D	D	D				
Topics in Nuclear Medicine ufe			A					
General Topics in Nuclear & Radiochemistry				A				

Division of Nuclear Chemistry & Technology (continued)

NUCL

K. Nash, J. Braley, Program Chairs

Westin San Diego	S	М	Tu	W	Th			
Colloid-Facilitated Actinide Migration				Р				
Fundamentals & Applications in Hydrometallurgy: From the Molecule to the Process* (I&EC)	D	D						
Waste Forms for Environmental Remediation* (I&EC)				D	A			

Division of Organic Chemistry

ORGN

A. Abdel-Magid, R. Gawley	, Pγ	ogr	am	Ch	airs
San Diego Convention Center	Su	М	Tu	W	Th
Ralph F. Hirschmann Award in Peptide Chemistry: Honoring Jeffery W. Kelly <i>ufe</i>	A				
Asymmetric Reactions & Syntheses	D	D			
Biologically Related Molecules & Processes	D				
New Reactions & Methodology	D	D	D	Р	
Material, Devices & Switches	D	D			
James Flack Norris Award in Physical Organic Chemistry: Symposium to Honor Hans J. Reich	Р				
Understanding Additions to Alkenes	Р				
Material, Devices & Switches, Molecular Recognition, Self-Assembly, Peptides, Proteins, Amino Acids, Physical Organic Chemistry, Total Synthesis of Complex Molecules LIFE	Е				
Playing Ball: Molecular Recognition & Modern Physical Organic Chemistry		A			
Herbert C. Brown Award for Creative Research in Synthetic Organic Chemistry: Honoring Jonathan A. Ellman uff		A			
Chemistry of Life LIFE		D			
Recent Progress & Applications of Multicomponent Reactions**		Р			
Elias J. Corey Award for Outstanding Original Contribution in Organic Synthesis by a Young Investigator: Honoring Jeffrey S. Johnson		Р			

Division of Organic Chemistry (continued)

ORGN

A. Abdel-Magid, R. Gawley, Program Chairs

San Diego Convention Center	Su	М	Tu	W	Th
Sci-Mix		Е			
Chemical Neuroscience LIFE			Α		
Peptides, Proteins & Amino Acids UFE			A		
Ernest Guenther Award in the Chemistry of Natural Products: Honoring Stephen Hanessian LIFE			A		
Metal-Mediated Reactions & Syntheses			D	D	
Molecular Recognition & Self-Assembly			D	D	
Physical Organic Chemistry: Calculations, Mechanisms, Photochemistry & High- Energy Species			D		
ACS Award for Creative Work in Synthetic Organic Chemistry: Honoring Gregory C. Fu			P		
Heterocycles & Aromatics			Р	D	
Nanostructured Electronic Materials			Р		
Asymmetric Reactions & Syntheses, New Reactions & Methodology			Е		
Building Blocks for Chemical Biology LIFE				A	
Ronald Breslow Award for Achievement in Biomimetic Chemistry: Honoring Alanna Schepartz** LIFE				A	
Total Synthesis of Complex Molecules				D	
Chemistry of Life, Biologically Related Molecules & Processes, Heterocycles & Aromatics, Metal-Mediated Reactions & Syntheses LIFE				E	
Chemical Biology: When Two Heads Are Better Than One* (CHED)		D			
WCC Rising Stars Symposium* (WCC)		D			
Symposium in Memory of David Y. Gin* (CARB)			Р	D	A

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 $^{{\}rm *Cosponsored\, symposium\, with\, primary\, organizer\, shown\, in\, parentheses;}$ located with primary organizer.

^{**}Primary organizer of a cosponsored symposium.

Division of Petroleum Chemistry		P	E	ΤI	R
T. Gardne	r, P	rog	ran	n Cl	iair
San Diego Convention Center	Su	М	Tu	W	Th
High-Throughput Screening Approaches for Catalyst Discovery & Optimization**	D				
Renewable Resources for Fuels & Chemicals**	D				
Water Photolysis for Hydrogen**		Α			
Advances in X-to-Liquids Technologies (X = Coal, Natural Gas & Biomass): Chemistry, Reactor & Process Design**		D			
Novel Materials for Catalysis & Fuels Processing**		D	D		
Chemistry of Petroleum & Emerging Technologies**		Р			A
9th International Symposium on Heavy Oil Upgrading, Production & Characterization**			D	D	
Life & Death of Catalysts**			D		
Selective Oxidations**				D	A
Hydrogen Production & Application* (FUEL)	D	D	D	A	
Solar Energy Conversion & Utilization for Fuels & Energy Production* (FUEL)	D	D	D	D	A
Fuels, Chemicals, Materials & Energy from Biomass, Coal, Natural Gas & Other Natural Resources* (FUEL)	D	D	D		
CO ₂ Capture, Sequestration, Conversion & Utilization* (FUEL)	D	D	D	D	D
Materials & Catalysis in Fuel Cells* (FUEL)	D	D	D		
Symposium in Memory of James A. Franz for his Scientific Contributions* (FUEL)	D				
Theory & Simulation in Energy Production, Storage & Utilization* (FUEL)	D			Р	D
Catalysis for Clean Energy Technologies* (FUEL)		D	D	D	D
Nanotechnology for a Sustainable Energy Economy* (FUEL)		D	D	D	
Gabor A. Somorjai Award for Creative Research in Catalysis & the George A. Olah Award in Hydrocarbon or Petroleum Chemistry: Honoring Enrique Iglesia & James A. Dumesic* (CATL)		D	D	D	A

Division of Petroleum Chemistry (continued)			E	ΤΙ	2
T. Gardne	r, P	rog	ran	ı Ch	ıair
San Diego Convention Center	Su	М	Tu	W	Th
Sci-Mix* (FUEL)		Е			
Advances in Energy & Fuel Processes, Systems, Materials & Utilizations* (FUEL)			Р		
Microtechnologies for Energy Sustainability* (FUEL)				D	A
Ultraclean Fuels Production & Utilization* (FUEL)				D	D

Division of Physical Chemistry			H	Υ :	S
M. Gruebele, Program					
San Diego Convention Center	S	М	Tu	W	Th
Frontiers in Heterogeneous Catalysis**	D	D		DE	A
Physical Chemistry of CO ₂ Separation	D	D		DE	
Current Views on Secondary Structure	D	D		DE	
From Geochemistry to Biochemistry & the Origin of Life** $_{\it LIFE}$	D	D		D	A
Single Molecules: Theory Meets Experiment	D	D		DE	A
Nonadiabatic Dynamics: Surface Hopping & Beyond	D	D		DE	A
Water-Mediated Chemical Assembly LIFE	D	D		DE	Α
Sci-Mix		Е			
PHYS Awards Symposium			D		
PHYS Poster Session				Е	
Solar Energy Conversion & Utilization for Fuels & Energy Production* (FUEL)	D	D	D	D	A
Computational Chemistry for Geochemistry* (GEOC)	D	D	A		
Membranes* (COMP)	D				
Molecular Mechanics* (COMP)	D	D	D	D	D
Quantum Chemistry* (COMP)	D	D	D	D	D
Atmospheric & Geochemical Interfaces* (GEOC)		D	D	A	
WCC Rising Stars Symposium* (WCC)		D			
Computational Approaches to Spectroscopy Analysis* (COMP)				D	
Computational Study of Water* (COMP)				D	Α
Material Science* (COMP)				Р	D

POIY **Division of Polymer Chemistry** S. Iacono, S. Lin-Gibson, J. Youngblood, Program Chairs S M Tu W Th Manchester Grand Hyatt Undergraduate Research in Polymer Α Chemistry Photocleavable Polymers & Block A D Е Copolymers Е Excellence in Graduate Polymer Research** D D Е Polymers in Organized Assemblies D D Glycopeptide Polymers LIFE D Α Е D DE D D 11th International Symposium on P Biorelated Polymers LIFE Undergraduate Research in Polymer PΕ Science Frontiers in Polymer Characterization P Sci-Mix Е Herman J. Mark Polymer Chemistry Award: D Honoring Krzysztof Matyjaszewski Memorial Symposium in Honor of Samuel D J. Huang DE D D Poly(2-oxazoline)s & Related Pseudo-Polypeptide Structures DE D D Silicones & Silicone-Modified Materials Е Frontiers in Polymer Chemistry Е General Topics in the Design, Synthesis & Characterization of Polymers Е D Ion-Containing Polymers Federally Funded Polymers Research** DD Paul J. Flory Polymer Education Award: D Honoring Bob Cohen POLY/PMSE Plenary Lecture & Awards Е Reception** DD ACS Polymer Award: Honoring Edwin L. Thomas* (PMSE) Undergraduate Research Poster Session* Р (CHED) Next-Generation Renewable Polymers* D Α (PMSE) Р Material Science* (COMP) D Electrospan Fibers From Renewable P D

Materials* (CELL)

Division of Polymeric Materials: PMSE Science & Engineering

J. Pyun, A. Nelson, C. Stafford, Program Chairs						
Manchester Grand Hyatt	S	М	Tu	W	Th	
Self-Assembled Nanostructures of Biopolymers, Organic Semiconductors & Inorganics	D	D	A			
Nanofabricated Surfaces: Techniques, Materials & Applications	D	D	D			
ACS Polymer Award: Honoring Edwin L. Thomas**	D	D				
New Frontiers in Stimuli-Responsive Supramolecular Assemblies**	D	D				
Fire & Polymers**	DE	D	D			
Polymer-Based Hybrid Materials for Energy Conversion, Storage & Transmission		D	D	D		
Sci-Mix		Е				
Frontiers in Polymer Science & Engineering: Celebrating the PMSE Fellows Program**			D			
Responsive Nanostructured Materials via Self-Assembly			D	D	D	
General Papers/New Concepts in Polymeric Materials			Р	D	A	
Joint PMSE/POLY Poster Session			Е			
Next-Generation Renewable Polymers**				D	A	
Anselme Payen Award Symposium: Advanced Materials from Cellulose & Renewable Polymers* (CELL)	DE	D	D			
WCC Rising Stars Symposium* (WCC)		D				
Undergraduate Research Poster Session* (CHED)		P				
Federally Funded Polymers Research* (POLY)				D	D	
Material Science* (COMP)				Р	D	
Electrospun Fibers From Renewable Materials* (CELL)				Р	D	
POLY/PMSE Plenary Lecture & Awards Reception* (POLY)				Е		

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^{**}Primary organizer of a cosponsored symposium.

Division of Professional Relations) 	₹ (0	F
R. Libb	y, P	rog	ran	ı Cl	air
San Diego Marriott & Marina	S	М	Tu	W	Th
Chemistry Education: The Case for Business Skills**	Р				
ACS Award for Encouraging Disadvantaged Students into Careers in the Chemical Sciences: Honoring Todd Pagano			A		
Mentoring for Success**			Р		
The Patient Protection & Affordable Care Act: Health Care Reform & the Impact on Chemists & the Chemical Community* (SCHB)	A				
Excellence in Graduate Polymer Research* (POLY)	D	D			
True Stories of Success from Chemical Entrepreneurs* (SCHB)		A			
WCC Rising Stars Symposium* (WCC)		D			
Best Practices for Entrepreneurs* (SCHB)			Р		
Making a Science Fellowship Part of Your Career Path* (SCHB)			P		

Division of Small Chemical			C F	4	В
Businesses J. Sabo	ol, P	rog	ran	ı Cl	ıair
San Diego Convention Center	S	М	Tu	W	Th
The Patient Protection & Affordable Care Act: Health Care Reform & the Impact on Chemists & the Chemical Community** LIFE	A				
True Stories of Success from Chemical Entrepreneurs**		A			
Exponential Technologies: Disruptive Influences & Rapid Advancements in Chemistry**		P			
Sci-Mix		Е			
The Emerging Biofuels Industry** LIFE			A		
Best Practices for Entrepreneurs**			Р		
Making a Science Fellowship Part of Your Career Path**			Р		
Chemistry Education: The Case for Business Skills* (PROF)	Р				
Mentoring for Success* (PROF)			P		

Committee on Science	C	01	MS	SC) I
M. Chorghade, D. Nelso	n, Pr	ogr	am	Cho	airs
San Diego Marriott & Marina	S	М	Tu	W	Th
Emerging Models for Strengthening Science Education Toward Scientific Workforce Development: Blurring the Line Between Science & Business Education	P				
Entrepreneurship in Chemistry: Business Plan Presentations for Financing the Start- ups	-	A			
Toward Sustainable Biofuels** LIFE		Р			
Nobel Laureates Forum: Emerging Frontiers in Science			Р		
True Stories of Success from Chemical Entrepreneurs* (SCHB)		A			
Exponential Technologies: Disruptive Influences & Rapid Advancements in Chemistry* (SCHB)		P			
The Emerging Biofuels Industry* (SCHB)			A		
Best Practices for Entrepreneurs* (SCHB)			Р		

International Activities Committee			Α	(2
D. Nelson, M. Hurrey	, Pγ	ogr	am	Cho	airs
San Diego Marriott & Marina	S	М	Tu	W	Th
Inspiring Science Education: Readiness for the Global Enterprise**		D			
Inspiring Science Education: GREETing New Challenges Abroad**			A		
Chemistry Education: International & Multicultural Perspectives* (CHED)				A	

SOCED Society Committee on Education M. Carroll, Program Chair S M Tu W Th San Diego Convention Center A Chemistry in a Cup o' Java** Р International Year of Chemistry Student Chapter Projects & the UN Framework Convention on Climate Change A Nuclear Power Generation** **Eminent Scientist Lecture** P D Undergraduates Collaborating for the Future* (I&EC) Inspiring Science Education: Readiness for D the Global Enterprise* (IAC) P Undergraduate Research Poster Session* (CHED) Successful Student Chapter Posters* E Inspiring Science Education: GREETing A New Challenges Abroad* (IAC) Symposium in Honor of Mark Vineyard: D Industrial & Engineering Applied Chemical Technology Fellow* (I&EC) Education for a Sustainable Future: P Academic & Industrial Perspectives* (I&EC)

Women Chemists Committee	\	N	C	; (С
A. Charlebois, A. DeBaillie	, Pı	ogr	am	Cho	airs
San Diego Marriott & Marina	S	М	Tu	W	Th
ACS Award for Encouraging Women into Careers in the Chemical Sciences: Honoring Yves J. Chabal**	P				
WCC Rising Stars Symposium**		D			
George C. Pimentel Award in Chemical Education: Honoring Diane M. Bunce* (CHED)		D			
Glenn T. Seaborg Award for Nuclear Chemistry: Honoring Silvia S. Jurisson* (NUCL)		P			
Biochemical Studies of Protein Folding in the Cell* (BIOL)		Р			
The Double Bind: Minority Women in Science & Update 35 Years Later* (HIST)			A		
ACS Award for Achievement in Research for the Teaching & Learning of Chemistry: Honoring Loretta L. Jones* (CHED)			Р		
Mentoring for Success* (PROF)			Р		
Ronald Breslow Award for Achievement in Biomimetic Chemistry: Honoring Alanna Schepartz* (ORGN)				A	

Younger Chemists Committee	\	Y	С	(\Box
A. Myer	s, P	rog	ran	ı Cl	ıair
San Diego Marriott & Marina	S	М	Tu	W	Th
Starting a Successful Research Program at a Predominantly Undergraduate Institution	Р				
Excellence in Graduate Polymer Research* (POLY)	D	D			
Collaborative Drug Discovery for Neglected Diseases* (COMP)	Р				
Making a Science Fellowship Part of Your Career Path* (SCHB)			Р		

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 $[\]hbox{\rm **Primary\,organizer\,of\,a\,cosponsored\,symposium.}$

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events require a separate entry fee, as indi-

cated in this program.

STANDARD REGISTRATION: FEB. 7-MARCH 29

ON-SITE ATTENDEE REGISTRATION: San Diego Convention Center

REGISTRATION

ALL ATTENDEES, including speakers and poster presenters, must register for the meeting in order 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 prior to Feb. 6 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 Feb. 6 must pick up their badge credentials on-site.

Registration Changes. Attendees can modify their existing registration or generate a receipt from the registration website by following the instructions in their confirmation message. Attendees can also contact the ACS National Meeting Registration Center before March 29 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.

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Internet. Register online at www.acs. org/sandiego2012 before March 29. A valid credit card is required to register online, and online registrations are real-time transactions.

Telephone. Call the ACS National Meeting Registration Center by March 29 at (800) 251-8629 (U.S./Canada only) or (508) 743-0192 (international), Monday to Friday, 9 AM to 5 PM EST.

Fax/Mail. Submit the registration form on page 80 by fax: (508) 743-9605 or mail: ACS Registration, c/o CDS, 107 Waterhouse Rd., Bourne, MA 02532. Mailed registrations will be accepted until Feb. 6 only.

On-site. Register during the meeting at ACS Attendee Registration at standard registration rates. ACS Attendee Registration will be open at the San Diego Convention Center, Lobby D, 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.

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All cancellations and refund requests must be submitted in writing by Feb. 13 to guarantee the registrant a full refund less a \$50 administrative fee. Refund requests made after Feb. 13 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) 743-9605 (save your fax confirmation sheet).

Social Event Ticket Cancellations/Refunds. Social event cancellations received by March 9 entitle the registrant to a full refund. Refund requests made after March 9 will not be honored. Event tickets and a copy of your registration confirmation must be attached to your request.

		EE
REGISTRATION CATEGORY	EARLY BY FEB. 6	STANDARD AFTER FEB. 6
MEMBERS		
ACS member or	\$360	\$435
society affiliate		
Postdoctoral member	360	435
Emeritus or retired member	180	220
50-year member	No Fee	No Fee
Unemployed member (Dues waiver required)	No Fee	No Fee
Precollege teacher	90	90
Graduate, less than postdoctoral	180	180
Undergraduate	90	90
One-day registrant	180	220
NONMEMBERS		
Chemical scientist	\$640	\$770
Postdoctoral scientist	640	770
Visitor: Nonchemical scientist or chemical technician	360	435
Precollege teacher	90	90
Graduate, less than postdoctoral	360	360
Undergraduate	180	180
One-day registrant	360	435
Guest of registrant ^a	50	50
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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The official ACS housing bureau is The Housing Connection, LLC. ACS does not endorse any other housing company.





Abstract Cancellations/Refunds. Abstract CD-ROMs and their shipping costs are nonrefundable.

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

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

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 San Diego Convention Center. For more information, visit www.acs.org/pressroom.

EXPO-ONLY ADMISSION. All meeting attendees with a valid badge receive complimentary admittance into the exposition as part of their registration. Individuals who

MEETING INFO ON THE WEB

Registration, housing, technical programming, special events, participating exhibitors, and other meeting details are available at www.acs.org/sandiego2012.

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 REGISTRA-

TION. ACS Career Fair Employer registration is handled exclusively through ACS Careers at www.acs.org/careers.

TICKETED EVENTS

A VARIETY of social and special events will be held by event organizers during the meeting. Event participation is open to all interested registrants. View an updated listing of social and special events at www. acs.org/sandiego2012.

The following social events require purchase of 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 March 9. Ticket sales will not be refunded after that date.

SUNDAY, MARCH 25

CHED High School-College Interface Luncheon/SE-01/\$45 (Included at no charge with high school teacher registration.)

12:15 to 1:15 PM, Westin San Diego

Committee on Technician Affairs National Technician Awards Dinner/SE-02/\$60 6 to 9:30 PM, San Diego Marriott Marquis & Marina

MONDAY, MARCH 26

Women in the Chemical Enterprise/SE-03/\$30 (regular)/SE-04/\$15 (student) 7:30 to 9 AM, San Diego Marriott Marquis & Marina

(A limited number of student tickets are available. Students may purchase regular tickets if student tickets are sold out.)

I&EC Awards Luncheon/SE-05/\$30 11 AM to 1:30 PM, Manchester Grand

Hyatt

Committee on Minority Affairs Reception & Luncheon/SE-06/\$35

11:30 AM to 2 PM, San Diego Marriott Marquis & Marina

CHAL Drug & Power Luncheon/SE-07/

Noon to 1:30 PM, San Diego Convention Center

Corporation Associates Awards Luncheon/SE-08/\$55

Noon to 1:30 PM, Westin Gaslamp Quarter

Purdue Chemistry Alumni Luncheon/ SE-09/\$15

Noon to 1:30 PM, San Diego Marriott Marquis & Marina

CARB Wolfrom-Isbell-Gin Awards Dinner/SE-10/\$60

6:30 to 9:30 PM, McCormick & Schmick's, 675 L St.

Chinese-American Chemical Society Social Hour & Dinner/SE-11/\$30

7:30 to 9:30 PM, Jasmine Seafood, 4609 Convoy St.

TUESDAY, MARCH 27

Senior Chemists Breakfast/SE-12/\$15

7:30 to 9:30 AM, San Diego Marriott Marquis & Marina

SCHB Workshop: Business Valuation & the Sale-of-Business Process/SE-13/\$295

9 AM to noon, San Diego Convention Center

See description in "Workshops" (page 92)

CINF Luncheon/SE-14/\$15

Noon to 1:30 PM, San Diego Convention Center

COLL Division Luncheon/SE-15/\$40

Noon to 1:30 PM, Westin Gaslamp Quarter

Women Chemists Committee Luncheon/ SE-16/\$45 (regular)/SE-17/\$20 (student)

Noon to 1:30 PM, San Diego Marriott Marquis & Marina (A limited number of student tickets are



ADVANCE REGISTRATION FORM

AMERICAN CHEMICAL SOCIETY • 243RD NATIONAL MEETING & EXPOSITION MARCH 25 - 29, 2012 • SAN DIEGO, CA

4 ways to register: (see Registration Procedures)

Online: http://www.acs.org/sandiego2012 (credit cards only).

Phone: 508-743-0192 or 800-251-8629, Monday - Friday, 9 AM to 5 PM EST (credit cards only) by March 29, 2012.

Mail completed form with payment to: ACS Registration c/o CDS, 107 Waterhouse Road, Bourne, MA 02532 by February 6, 2012.

Fax completed form with payment to: 508-743-9605 (credit cards only) by March 29, 2012.

- REGISTRANT INFORMATION -			
□ Dr. □ Prof. □ Mr. □ Ms. □ Mrs. AC	CS Membership #	(Required	d for member discount)
Company/Institution/Agency			
Street Address			
City State/Province	Zip/Postal Code		Country
Phone Ext. Fax			·
Emergency Contact Name En	nergency Contact Number		Cell Number
With your approval, ACS show management will be sending meeting alerts & s	pecial offers by text messaging. Re	gular text messaging rat	es may apply. Yes I accept or No I do not accept
How would you like to receive your meeting and exhibitor promotions befor			
Do you require special services or auxiliary aids in order to participate in the meet			
— DEMOGRAPHICS		ODIEC & FEEC	COOLAL EVENT FEEC
DEWINDGRAPHICS	REGISTRATION CATEG		
1. Professional Discipline (check one) □ (a) Academia □ (b) Government □ (c) Industry □ (d) Student □ (e) Other □	ACS Members ACS member or Society affiliate	Early STANDARD from Dec 19 after Feb 6 \$360 \$435	Event No. Qty \$/Ticket \$ TOTAL
Highest Degree Received (check one)	□ Postdoctoral	\$360 \$435	
☐ (A) A.S./A.A.S. (Associate Degree) ☐ (B) B.S./B.A. (Baccalaureate Degree)	☐ Emeritus or retired ☐ 50-year	\$180 \$220 No Fee No Fee	9. Social Event Subtotal \$
□ (C) M.S. □ (D) Ph.D. □ (E) Still in school (degree not completed)	☐ Unemployed	No Fee No Fee	If you register before the social event tickets are available, you can later purchase your tickets by contacting the Customer Service office, at 508-
□ (F) Other	(dues waiver required)		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
3. Professional Concentration (check all that apply)	☐ Graduate student☐ Undergraduate Student	\$180 \$180 \$90 \$90	your confirmation number.
☐ (A) Aerospace/Transportation ☐ (S) Inorganic ☐ (B) Agriculture & Food ☐ (T) Law/Legal Affairs	☐ Precollege teacher	\$90 \$90	- ABSTRACT FEES
□ (C) Analytical □ (U) Lubricants/Oils	One day member registrant	\$180 \$220	ACS Member Non-Member
□ (D) Biochemistry □ (V) Marketing/Sales/Business	□ Su □ M □ Tu □ W □ Th		CD-Rom (pick up) @\$65 ea @\$90 ea. CD-Rom (ship) @\$73 ea @\$98 ea.
☐ (E) Biotechnology ☐ (W) Materials	Non-Members		· · · · · · · · · · · · · · · · · · ·
☐ (F) Chemical Education ☐ (X) Metals/Metal Products ☐ (G) Chemical Information ☐ (Y) Nuclear	☐ Chemical scientist	\$640 \$770	10. Abstract Subtotal \$ Abstracts ordered by February 6, 2012, will be shipped for delivery prior
□ (H) Clinical/Diagnostic □ (Z) Organic	Postdoctoral scientist	\$640 \$770	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
☐ (I) Colloids & Surfaces ☐ (AA) Paint/Coatings	☐ Visitor: Non-chemical scientist☐ Visitor: Chemical technician	\$360 \$435 \$360 \$435	up during the meeting. Abstract CD-ROMs will only be shipped to U.S. and Canadian street addresses (no P.O. boxes)
☐ (J) Combinatorial Chemistry ☐ (BB) Personal Care/Cosmetics	☐ Graduate Student	\$360 \$360	GRAND TOTAL
□ (K) Computing/Molecular Modeling □ (CC) Pharmaceutical/Medicinal □ (CC) Pharmaceutical/Medicinal □ (CC) Pharmaceutical/Medicinal	Undergraduate Student	\$180 \$180	
□ (L) Electronics/Semiconductors □ (DD) Physical □ (M) Energy/Fuels □ (EE) Polymers/Plastics	□ Pre-College Teacher□ One-day registrant	\$90 \$90 \$360 \$435	11. Grand Total of 8-10 \$ Registrant Procedures: US and Canadian attendees who register by
□ (N) Environmental □ (FF) Pulp/Paper/Wood		φ300 φ433	February 6, 2012, will receive their registration credentials and tickets via mail prior to the meeting. Unless an international attendee has provided a
□ (O) Forensics □ (GG) Rubber	☐ Guest of Registrant (1)	\$40 \$40	US or Canadian mailing address on their registration form, their credentials must be picked-up onsite at the Attendee Registration. After February 6,
□ (P) Geochemistry □ (HH) Soap/Detergent/Cleaners	(1) Guest Registration - A Spouse or family	y member of the registering	2012, registrations will continue to be accepted at the Standard rate on-line and by phone or fax (credit card payment only) until March 29, 2012. Mailed
□ (Q) Glass/Ceramics/Composites □ (II) Textiles/Fiber □ (R) Health & Safety □ (JJ) Toxicology	attendee having no affiliation with the field of eligible to become a member of the ACS. Only of		registrations will not be accepted after February 6, 2012. Registration Cancellation/Refund Policy: By adhering to the following
□ (KK) Other	per full or one-day registration.		cancellation procedure, cancellations received by February 13, 2012, are entitled to a full refund, less a \$50 administrative fee. Registrants must
4. Is this your first ACS National Meeting? ☐ Yes ☐ No	Guest Name		return a copy of the registration confirmation along with the original registration credentials before payment will be posted to the account.
What's your primary reason for attending this meeting?	Exposition Visitors		All refunds are issued via the same method used for payment. Refunds are processed within 30 days after the conclusion of the meeting.
☐ Present a paper of poster	☐ Adult☐ Student	\$50 \$50 \$25 \$25	Submit your written cancellation to the ACS Registration Customer Service Center by mail, fax or e-mail by February 13, 2012.
□ Network with other scientists	Student	φ25 φ25	 Return your unused registration credentials to ACS by February 13, 2012. If you cancel before receiving your registration credentials, contact the ACS Registration Customer Service Center for further instructions.
☐ Investigate research or technical topics	8. Registration Subtotal	\$	Refund requests made after February 13, 2012, will not be honored. No cancellation or refund for Abstract CD-ROMs and/or postage
☐ Research or buy products inside Exposition	— PAYMENT ———		charges for mailing will be made.
☐ Search for a job in Career Services ☐ Obtain new skills and hand-on experience		and the state of the state of the state of	in the condition to the ACO National Market O. Francisco
☐ Participate in ACS governance activities	The state of the s	ons by submitting this registrat able in US dollars to Ameri	ion to participate in the ACS National Meeting & Exposition.
☐ Work during the meeting (staff/exhibitors)	,	I MasterCard ☐ America	**
□ Other	21		order to participate in the 243 RD ACS National Meeting in San Diego, CA.
6. Where are you staying (or planning to stay) during the meeting?	Credit Card Number		Exp Date
Hotel Other	Credit Card Billing Address & Zip _		
7. What mode of transportation will you take to attend the meeting?	Card Holder Name		
□ Plane □ Train □ Car □ Other	Card Holder Signature		

Recording meetings events through audiovisual or photographic methods is prohibited at all official ACS events without written consent from ACS. The use of cameras is not permitted during technical sessions. Attendees or exhibitors may photograph their own activity, but permission must be obtained from all involved parties before photographs can be taken of other people or displays at the meeting or exposition. Press representatives must receive media credentials and recording permission from the ACS Office of Communication in the Press Room.

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

MEDI Lunch-n-Learn Case Study: "Desktop Modeling for Medicinal Chemists—Has It Come of Age?"/SE-

Noon to 2 PM, San Diego Convention

ENVR Division Reception/SE-18/\$10 5:30 to 6:30 PM, Hilton San Diego Bayfront

CELL Anselme Payen Award Banquet/ SE-19/\$60

6 to 11 PM, The Prado in Balboa Park, 1549 El Prado

(Bus transportation provided from the US Grant Hotel and back.)

FUEL/PETR Joint Division Dinner/ SF-20/\$60

6 to 9 PM, Casa Guadalajara, 4105 Taylor St.

2012 ACS National Awards Banquet **Ceremony & General Meeting of the** Society/SE-21/\$130

6:30 to 10 PM, Hilton San Diego Bayfront

ACCOMMODATIONS

TAKE ADVANTAGE of special ACS room rates for the national meeting in San Diego by reserving hotel rooms directly through the Housing Connection by Feb. 27. The Housing Connection, a subsidiary of the Salt Lake Convention & Visitors Bureau, is the official housing bureau endorsed by the American Chemical Society for the national meeting in San Diego. ACS does not endorse booking hotel reservations through any other sources. A listing of official hotel rates with their guaranteed ACS rates and amenities is on page 82. All attendees who reserve their room through the Housing Connection will receive complimentary Internet access in their sleeping rooms and are automatically entered in the ACS Housing Drawing (see ad on page 78 for details).

Late Housing. Some hotels may have rooms available after Feb. 27. A listing of these hotels will be posted on the ACS website (www.acs.org/sandiego2012). 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 San Diego Convention Center, in

Lobby D, to assist with last-minute housing changes or needs.

RESERVATION METHODS. All registrants will receive confirmation for reservations made directly through the ACS Housing Connection. Review this document carefully for accuracy. Each confirmation contains a unique number that is proof of your reservation through the ACS Housing Connection. We strongly recommend that you bring your confirmation with you to the meeting. If you lose or do not receive your confirmation, you can obtain another copy online or by contacting the ACS Housing Connection. You will not receive a separate confirmation from the hotel.

Published ACS rates apply to hotel stays between March 20 and 31. To extend your stay beyond these dates, you must reserve additional nights directly through the hotel.

Internet. Reserve online at www.acs. org/sandiego2012. Online reservations require a valid credit card, and you will receive a confirmation to your e-mail address within 24 hours.

Telephone. Call the Housing Connection at (866) 847-8570 or (801) 505-4140 (international), Monday through Friday, 7 AM to 6 PM, MST. Telephone reservations require a valid credit card, 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 guarantee by fax: (801) 355-0250 or mail the form with your valid credit card or check for one night's room and tax made payable to the Housing Connection and mail to ACS Housing, c/o Housing Connection, 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 & CANCEL-LATION POLICY. Hotel reservations can be guaranteed by credit card (American Express, MasterCard, or VISA), check, or money order. Make checks payable in U.S. dollars to the Housing Connection 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 the Housing Connection. The credit information or check deposit will be forwarded with your individual reservation to your hotel on Feb. 27 after 5 PM MST. 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 12.58% room and occupancy tax (subject to change).

Reservation changes and cancellations can be made without penalty until Feb. 27. Hotels do not have individual reservations or credit card guarantees yet. After Feb. 27, individuals may continue to make changes and cancellations through the Housing Connection until March 14; however, canceled reservations may incur a \$25 fee that will be charged by the Housing Connection. A one-night 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 you make your reservation. Be sure to reconfirm any special room arrangements directly with your hotel.

SUITES. Send your suite requests by e-mail to thc@housingregistration.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 may not be included on the ACS shuttle route; therefore, daily transportation costs are the responsibility of the attendee.

Comfort Inn Gaslamp, 660 G St.; (619) 238-4100; ACS rate \$143.96 single occupancy.

American Chemical Society

243rd National Meeting Participating Hotel List

Hotels in San Diego, CA

FOR BEST AVAILABILITY, MAKE YOUR RESERVATION VIA THE INTERNET www.acs.org/sandiego2012

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

ALL RATES INCLUDE COMPLIMENTARY INTERNET

Single	Double	Triple	Quad		No Charge			Per Day								
										Complimen-		Fitness	Swimming	Accessible		Environ- mentally
(1 person)	(2 persons)	(3 persons)	(4 persons)	Room	Age	Available	Route	Rates	Available	tary Internet	Pets Allowed	Center	Pool	Rooms	Available	Friendly
\$189	\$189	\$209	\$229	4	17	Yes	Yes	\$33	Yes	Yes	Service	Yes	Yes	Yes	No	Yes
\$229	\$229	\$249	\$269	6	18	Yes	Yes	\$29	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
\$209	\$209	\$229	\$249	4	21	Yes	No	\$35	Yes	Yes	Service	Yes	Yes	Yes	No	Yes
\$249	\$249	\$269	\$289	4	18	No	No	\$36	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
								\$27/								
\$269	\$269	\$289	\$309	4	18	No	No	\$36	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
\$209	\$209	\$229	\$249	4	17	No	No	\$36	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
\$189	\$189	\$209	\$229	4	2	No	No	\$25	Yes	Yes	Service	No	No	Yes	No	Yes
6400	6400	6010	6000		10	Na	Na	¢0E	V	Vaa	Vaa	V	Na	Vaa	Na	Yes
\$199	\$199	\$219	\$239	4	18	NO	NO	გათ	res	res	res	res	NO	res	NO	res
\$185	\$185	N/A	N/A	4	18	No	No	\$36	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
\$239	\$239	\$264	\$289	4	18	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
\$259	\$259	\$284	\$309	4	18	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
\$249	\$269	\$289	\$309	4	17	Yes	No	\$29/ \$35	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
\$200	\$200	N/A	N/A	2	18	Yes	No	\$35	No	Yes	Yes	Yes	Yes	Yes	No	Yes
								\$26/								
\$245	\$245	\$270	\$295	5	18	Yes	No	\$36	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
								\$26/								
\$265	\$265	\$290	\$315	5	18	Yes	No	\$36	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
\$209	\$209	\$234	\$259	4	16	No	Yes	\$35	Yes	Yes	Yes	No	Yes	Yes	No	Yes
\$189	\$189	\$214	\$239	5	18	Yes	Yes	\$35	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
								\$15/								
\$199	\$199	\$219	\$239	4	12	Yes	Yes	\$32	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
\$199	\$199	\$219	\$239	4	15	No	Yes	\$19/ \$24	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
	\$189 \$229 \$249 \$269 \$189 \$189 \$185 \$239 \$249 \$249 \$245 \$265 \$209 \$189 \$189	\$189 \$229 \$229 \$229 \$229 \$229 \$229 \$229 \$2	(1 person) (2 person) \$189 \$189 \$209 \$229 \$229 \$249 \$209 \$209 \$229 \$249 \$249 \$269 \$269 \$269 \$289 \$209 \$209 \$229 \$189 \$189 \$209 \$189 \$189 \$209 \$185 \$185 N/A \$239 \$239 \$264 \$259 \$259 \$284 \$249 \$269 \$289 \$200 \$0 N/A \$245 \$245 \$270 \$265 \$265 \$290 \$209 \$209 \$234 \$189 \$189 \$219	Company Comp	Company Comp	State Stat	Company Comp	National National	National	Second Company Compa		No. No. Sacroscope No. No. Sacroscope No. No. Sacroscope No. N		State Stat	Transmin Part Par	

The rates listed above do not include the current 12.58% room and occupancy tax per room per night, which is subject to change.

*Additional fees may apply if:

If a rollaway bed is required

If there are pets in questrooms

If smoking occurs in guestrooms

Hampton Inn San Diego Downtown, 1531 Pacific Hwy.; (619) 233-8408; ACS rate \$139 single/\$149 double.

Holiday Inn on the Bay, 1355 North Harbor Dr.; (619) 232-3861; ACS rate \$159 single/ double.

Holiday Inn Express, 1430–7th Ave.; (619) 696-0911; ACS rate \$144 single/double.

KEEP YOUR MEETING COSTS AFFORD-

ABLE. 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 through the ACS Housing Connection at www.acs.org/sandiego2012.

ENVIRONMENTALLY FRIENDLY INITIATIVES

THE AMERICAN CHEMICAL SOCIETY

is committed to sustainable meetings and event practices that promote social responsibility; support economic development; and reduce the environmental impact locally, nationally, and globally. Since 2008, the ACS Committee on Meetings & Expositions has implemented a number of operational practices and partnered with service contractors that foster sustainability in each host city.

In spring 2011, ACS together with Legacy Sustainability Management implemented the Global Reporting Initiative (GRI) Event Organizer Sector Supplement—the most comprehensive sustainability framework in the meetings and events industry. The data will be collected by Legacy into a comprehensive report and submitted for GRI Grading. During its national meeting and exposition in San Diego, ACS will conduct sustainability audits and event impact studies that include unique on-site data attributes and

American Chemical Society

243rd National Meeting & Exposition

March 25-29





Hotel Downtown San Diego	Walking time (in minutes) from SDCC	Distance (in miles) from SDCC
1 Courtyard by Marriott Downtown: 530 Broadway, San Diego, CA, 92101	14	0.70
2 Embassy Suites San Diego Bay: 601 Pacific Highway, San Diego, CA, 92101	9	0.45
3 Hard Rock Hotel: 207 5th, San Diego, CA, 92101	2	0.09
4 Hilton San Diego Bayfront: One Park Boulevard, San Diego, CA, 92101	1	0.04
5 Hilton Gaslamp Quarter: 401 K Street, San Diego, CA, 92101	1	0.06
6 Horton Grand: 311 Island Avenue, San Diego, CA, 92101	7	0.33
7 Hotel Indigo San Diego Gaslamp Quarter: 509 9th Avenue, San Diego, CA, 92101	14	0.70
8 Hotel Solamar: 435 6th Avenue, San Diego, CA, 92101	5	0.27
9 Manchester Grand Hyatt: One Market Place, San Diego, CA, 92101	6	0.32
10 Omni San Diego Hotel: 675 L Street, San Diego, CA, 92101	2	0.12
11 Residence Inn San Diego/Gaslamp Quarter: 356 6th Avenue, San Diego, CA, 92101	6	0.30
12 San Diego Marriott Marquis & Marina: 333 West Harbor Drive, San Diego, CA, 92101	1	0.05
13 US Grant Hotel: 326 Broadway, San Diego, CA, 92101	13	0.65
14 W San Diego: 421 West B Street, San Diego, CA, 92101	16	0.80
15 Westin Gaslamp Quarter: 910 Broadway Circle, San Diego, CA, 92101	10	0.48
16 Westin San Diego: 400 West Broadway, San Diego, CA, 92101	15	0.60

findings. The findings will enable ACS to leverage its global influence to shape the future of corporate social responsibility standards; spearhead change within the meeting, event, and hospitality industry;

and provide educational platforms that will enhance the sustainable legacy of ACS and its stakeholders for generations to come.

Existing sustainability practices from

the city, the San Diego Convention Center, and ACS meeting hotels will be captured in the GRI. Highlights of these practices and accomplishments from the city and the convention center are as follows:

City of San Diego

- 2004 Climate Protection Award, presented by the U.S. Environmental Protection Agency.
- 2003 Honoree for the City of San Diego International Competition of Sustainable Urban System Design.
- 2001 National Pollution Prevention Award.

San Diego Convention Center

- Recipient of the City of San Diego Recycler of the Year Award (2008, 2010 & 2011).
- Recipient of the U.S. Green Building Council LEED Silver Certification for Existing Buildings: Operations & Maintenance Performance Standards and Practices.
- Recipient of the 2011 Professional Convention Management Association Environmental Leadership Award.
- 2010 American Lung Association Clean Air Circle Honoree.
- 2010 Waste Reduction Awards Program (WRAP) Winner, California Integrated Waste Management Board.

Help Us Lead the Charge

Meeting attendees are our most important partner when it comes to helping ACS exceed its sustainability performance benchmarks for 2012. While attending the meeting in San Diego, we invite you to participate in making the 243rd National Meeting & Exposition the most sustainable event yet! Please consider the following recommendations:

- Opt in to daily linen and towel reuse programs.
- Limit your water use and use in-room recycling containers.
- Recycle admissible items in the proper bins and encourage your fellow colleagues
- Take the ACS Shuttle Service to and from hotels that are not within walking distance to the San Diego Convention Center.
- Reuse materials as often as possible.

Suggestions? Send them to the ACS Committee on Environmental Improvement. Member contact information can be found at www.acs.org/committees.

ACS has partnered with Clean the World to collect and donate gently used soaps to help eliminate diseases in developing countries. Visit the meeting website for details and a list of participating hotels.

TRAVEL & TRANSPORTATION

DISCOUNTS. ACS has negotiated special airline, car rental, and ground transportation discounts with the following partners:

American Airlines

(800) 433-1790; Discount code: 4832BX

Continental Airlines

(800) 468-7022; Discount code: 866539

United Airlines

(800) 521-4041; Discount code: 585OW

(800) 331-1600; AWD code: B923099

(800) 654-2240; Discount Code: CV# 02.UZ0011

SuperShuttle

(800) blue-van (258-3826); Discount Code: MFPQQ

AIRPORT. San Diego International Airport is located 10 minutes from downtown San Diego, depending on the time of day and method of transportation

AIRPORT GROUND TRANSPORTATION

Public Transportation (Bus). Transportation to and from the airport and downtown is available via the Metropolitan Transit System, Route 992, which operates between 5 AM and 11:30 PM, running every 15 minutes on weekdays and every 30 minutes on weekends. One-way fare is \$2.25 and a day pass is \$5.00. Only exact fare is accepted. This service connects with Trolley, COASTER, and Amtrak stations and is wheelchair accessible. Visit www.sdmts. com or call (619) 557-4555 for trip planning and route information.

Rental Cars. Rental car companies are located near the baggage claim areas of Terminals 1 and 2. Use the courtesy phones provided to request shuttle transport to the car rental company of your choice. Car rental shuttles regularly operate at the Terminal 1 center traffic aisle and at the traffic island at the far west end of Terminal 2.

Taxi. Taxi pick-up and drop-off is located at the Transportation Plazas. From inside the airport, follow the signs to the location of the Plaza. A transportation coordinator will place you in the first available taxi, unless a specific company is requested. All companies accept major credit cards upon request.

Shared-Ride Shuttle Service. Shuttles operate regularly from the airport. Individual operators provide prearranged, ondemand, and/or charter services. Shuttle service is available at the Transportation Plazas across from Terminals 1 and 2, and curbside at the Commuter Terminal. A transportation coordinator will place you with the first available shuttle, unless you specify a particular shuttle company. Visit www.san.org for a list of operators, rate information, and destinations.

TRAVELING TO MEETING VENUES

The San Diego Convention Center is located in downtown San Diego at 111 West Harbor Dr., San Diego, CA 92101. For directions to the San Diego Convention Center from the airport visit the center's website at www.visitsandiego.com.

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

Parking. The San Diego Convention Center provides on-site parking for \$10 per day. The center's garage is accessible from Harbor Drive between First and Fifth Avenue. Downtown San Diego offers numerous parking garages and lots, many within walking distance to the center. Lots and garages are individually owned and operated; prices vary by location. For city parking information, visit www.ccdc.com. Parking is also available at each ACS official hotel. View the Hotel Amenities & Pricing table on page 82 for pricing.

GETTING AROUND THE CITY

Walking. The San Diego Convention Center and ACS hotels are conveniently located in the heart of downtown San Diego. Visit the meeting website for downloadable walking directions from ACS hotels to the San Diego Convention Center.

Public Transportation. The Metropolitan Transit System and North County Transit District system offer travelers the option of commuting by bus, trolley, and

rail. Both systems provide convenient transportation to shopping centers, attractions, beaches, hotels, and nearby Mexico. Visit www.sdmts.com or www. gonctd.com for trip planning, route, and fare information.

ACS MEMBER SERVICES

ACS MEMBER SERVICES. ACS staff can assist you with joining ACS, renewing memberships on-site, 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 Lobby D near registration in the San Diego Convention Center and is open Saturday, March 24, 3 to 6 PM; Sunday, March 25, 7:30 AM to 7:30 PM; Monday, March 26, 7:30 AM to 9:30 PM; Tuesday, March 27, and Wednesday, March 28, 7:30 AM to 5:30 PM; and Thursday March 29, 7:30 AM to 1 PM.

MEMBER INSURANCE PROGRAM.

Booth No. 731. 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 and 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, and Professional Liability.

Additionally, the Professional Liability plan administrator will be offering complimentary 15-minute consultations at the Member Insurance Program station. The consultation may be of interest to consultants, small-business owners, part-timers, retired or semiretired professionals, academics providing independent consulting work, and those thinking of starting a business. To schedule your complimentary 15-minute session, visit http://meetme. so/haysaffinity. 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

"ASK ME" GREETERS. Look for ACS "Ask Me" greeters wearing bright-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 in order to be admitted to all official ACS sessions and events.

ATTENDEE MESSAGING/MEETING

MAIL. After registering for the meeting, you will be assigned a temporary electronic mailbox to exchange personal messages with other registered attendees via Meeting Mail. Meeting Mail will be available before, during, and after the meeting at www.acs.org/sandiego2012. Use the Meeting Mail terminals located in the San Diego Convention Center. Telephone messages left at the ACS Information Booth will be conveyed to attendees via the electronic

TIPS FOR A SAFE STAY IN SAN DIEGO

- 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
- ■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.

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. Unauthorized taking of pictures of speakers or presentations will result in the confiscation of equipment by ACS staff or session moderator.

BARRIER-FREE MEETING/SPECIAL

SERVICES. The society is dedicated to ensuring that no individual with a disability is excluded, denied services, segregated, or otherwise treated differently due to the absence of auxiliary aids and services identified in the Americans with Disabilities Act (ADA). If you require special accommodations to participate in the meeting, communicate your needs to ACS Meeting Services (e-mail: nationalmeetings@acs. org; fax: (202) 872-4410; or TDD: (202) 872-4557) by Feb. 6 to allow us enough time to fulfill your request. Keep in mind that ACS may not be able to accommodate lastminute requests. If you have an emergency

or need immediate assistance during the meeting, contact any ACS Operations Office.

CELL PHONES, PAGERS, PDAS & OTHER 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.

CHILD CARE. Camp ACS (child care) will be available to all meeting attendees free of charge from 7 AM to 6 PM on Sunday, March 25, through Thursday, March 29. 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 by March 16 at www.accentregister. com/register/americhem12. Please note that 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.

MOTHERS ROOM. For your convenience and privacy, ACS will

provide a room for nursing mothers at the San Diego Convention Center. Please see the Operations Office at the San Diego Convention Center, Room 14B, for access to the station.

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 San Diego Local Section and its members in handling local arrangements; its volunteers have planned many interesting activities. The Host Local Section Booth will be located in the San Diego Convention Center, Lobby D.

INTERNATIONAL REGISTRANTS. Many international visitors are required to hold a visa prior to being admitted to this country due to the security measures that the U.S. has in place at airports and other border crossings. All visa applicants are advised to apply for their visa in their home country as soon as possible. Detailed information for international attendees can be found at www.acs.org/sandiego2012.

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, POP mail, and the Inter-

THANK YOU

The society thanks the many volunteers of the San Diego Section who are contributing to the 243rd ACS national meeting and 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.

net as well as your personal Meeting Mail mailbox from Meeting Mail terminals and Laptop Lane. These areas will be located throughout the San Diego Convention Center.

LITERATURE & PRODUCT DISTRIBU-

TION. 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 normal registration hours from Sunday through Thursday at the San Diego Convention Center, Lobby D. 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 San Diego Convention Center:

Attendee Registration: Lobby D

Career Fair: Hall C

Exhibitor Registration & Exposition:

Lobby A, Halls A&B

Finance Office: Box Office A **Host Local Section Center:** Lobby D **Information Center:** Lobby D

Member Services: Lobby D Press Center: Room 15A Shuttle Desk: Outside Lobby D

The following offices are located at the identified properties:

Operations Offices: San Diego Convention Center, Courtyard Marriott San Diego, Embassy Suites San Diego Bay, Hilton San Diego Bayfront, Hilton Gaslamp Quarter, Manchester Grand Hyatt, San Diego Marriott Marquis & Marina, US Grant Hotel, Westin Gaslamp Quarter, Westin San Diego Secretary's Office: San Diego Marriott

Marquis & Marina

Society Programs: San Diego Marriott Marquis & Marina

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.

INFORMATION BOOTH. Attendees who have meeting questions should visit the ACS Information Booth located in the San Diego Convention Center, Lobby D. 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 Center. Telephone messages left there will be conveyed to attendees via the electronic message center, but the society cannot accept responsibility for the delivery of any messages, mail, packages, and/or telegrams.

SPEAKER & AUTHOR INSTRUCTIONS

ALL SPEAKERS, authors, 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 checking the following 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 30 minutes 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, lighted podium, 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 & AUDIOVI-SUAL SERVICE CENTERS. Session 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 authors 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; any copies will need to be made in local business centers in or near the hotels and convention center.

POSTER SESSIONS. All materials must be confined to the 4-foot-high by 8-footwide display board in the convention center, and 4-foot-high by 6-foot-wide display board in hotels. Authors must mount their poster one hour before the scheduled session start. 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. Authors 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.

ABSTRACTS & PREPRINTS

ONLINE TECHNICAL PROGRAM. The technical program for the 243rd national meeting is now available at www.acs.org/ sandiego2012. You can search by divisions or committees, symposia, speakers, or keywords from abstracts as well as presidential events and the multidisciplinary theme of "Chemistry of Life."

ABSTRACTS (CD-ROM). Abstracts of all scientific sessions at the meeting can be purchased in CD-ROM format through ACS Attendee Registration either online

before Feb. 6 or on-site in San Diego from March 25 to 29. The ACS member fee is \$65 each; the nonmember fee is \$90 each. Attendees can pick up their abstracts on-site at ACS Attendee Registration at the San Diego Convention Center. You can also have a CD-ROM shipped to you if you place your order before Feb. 6, pay an \$8.00 postage fee per item, and provide a valid street address located 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 CD-ROMs and their shipping costs are nonrefundable.

PREPRINTS. Preprints from the following divisions may be ordered directly from each division. You can purchase preprints from the addresses below or inquire about these preprints at the hospitality table for each division near their meeting rooms.

Fuel Chemistry. Jonathan Mathews e-mail: jmathews@psu.edu

Petroleum Chemistry. Velu Subramani e-mail: subravelu@hotmail.com

Polymer Chemistry. Kathy Mitchem e-mail: kathyl@vt.edu

Polymeric Materials: Science & Engineering Inc.

Visit the PMSE hospitality table at the meeting.

SPECIAL & EDUCATIONAL EVENTS

PRESIDENTIAL EVENTS

DURING 2012 ACS President Bassam Z. Shakhashiri has set a presidential agenda based on "Advancing Chemistry and Communicating Chemistry."

He is also supporting "Chemistry of Life" as the theme for the San Diego meeting, organized by theme program chair Peter Senter, vice president of chemistry at Seattle Genetics. The plenary symposium will take place on Sunday, March 25, from 3:30 to 6:15 PM.

A special highlight will be a lecture by Carolyn Bertozzi, T. Z. & Irmgard Chu Distinguished Professor of Chemistry at the University of California, Berkeley, for The Kavli Foundation Innovations in Chemistry Lecture on Monday, March 26, at 5:30 PM.

On Saturday, March 24, a presidential public outreach event will take place in conjunction with the San Diego Festival of Science & Engineering Expo Day 2012 at Petco Park.

Two other presidential events will also take place during the meeting: the Presidential Symposium on Communicating Science to the Public, on Monday, March 26, and the Presidential Symposium on Catalysis, sponsored by the Camille & Henry Dreyfus Foundation, on Tuesday, March 27.

Details of presidential events and other recommended symposia can be found at www.acs.org/sandiego2012 and in the onsite program.

2012 NATIONAL AWARDS

THE ACS NATIONAL AWARDS recognize individuals or team accomplishments in diverse fields of the chemical sciences. Award recipients traditionally receive their national award in person during the ACS awards dinner and general meeting and then deliver an award address on the scientific work that is being recognized to an appropriate division.

This year's event will be held on the evening of Tuesday, March 27, at the Hilton San Diego Bayfront Hotel, Indigo Ballroom. Dinner begins at 7:30 PM and the general meeting begins at 8:30 PM. Robert S. Langer will deliver the Priestley Medal Address at the general meeting. (See Ticketed Events on page 81 for ticket information.)

Several awards, such as the Arthur C. Cope Scholar Awards and the Arthur C. Cope Award address, will be presented at the Arthur C. Cope Award Symposium in conjunction with the 244th ACS national meeting in Philadelphia in August.

ACS Award for Achievement in Research in the Teaching & Learning of Chemistry sponsored by Pearson Education, Loretta L. Jones, University of Northern Colorado. Address to be presented before the Division of Chemical Education.

ACS Award for Affordable Green Chemistry sponsored by Dow Chemical and endowed by Rohm and Haas, William J. (Jack) Kruper, Dow Chemical. Address to be presented before the Division of Inorganic Chemistry.

ACS Award for Computers in Chemical & Pharmaceutical Research sponsored by Accelrys, Weitao Yang, Duke University. Address to be presented before the Division of Computers in Chemistry.

ACS Award for Creative Advances in Environmental Science & Technology sponsored by the ACS Division of Environmental Chemistry, Vicki H. Grassian, University of Iowa. Address to be presented before the Division of Environmental Chemistry.

ACS Award for Creative Invention sponsored by ACS Corporation Associates, Chad A. Mirkin, Northwestern University. Address to be presented before the Division of Colloid & Surface Chemistry.

ACS Award for Creative Work in Fluorine Chemistry sponsored by Honeywell, *David* O'Hagan, University of St Andrews, Scotland. Address to be presented before the Division of Fluorine Chemistry.

ACS Award for Creative Work in Synthetic Organic Chemistry sponsored by Aldrich Chemical, Gregory C. Fu, Massachusetts Institute of Technology. Address to be presented before the Division of Organic Chemistry.

ACS Award for Distinguished Service in the Advancement of Inorganic Chemistry sponsored by Strem Chemicals, Arnold L. Rheingold, University of California, San Diego. Address to be presented before the Division of Inorganic Chemistry.

ACS Award for Encouraging Disadvantaged Students into Careers in the Chemical Sciences sponsored by the Camille & Henry Dreyfus Foundation, Todd Pagano, Rochester Institute of Technology/ National Technical Institute for the Deaf. Address to be presented before the Division of Professional Relations.

ACS Award for Encouraging Women into Careers in the Chemical Sciences sponsored by the Camille & Henry Dreyfus Foundation, Yves J. Chabal, University of Texas, Dallas. Address to be presented before the Women Chemists Committee.

ACS Award for Research at an Under-

graduate Institution sponsored by the Research Corporation for Science Advancement, David K. Lewis, Connecticut College. Address to be presented before the Division of Physical Chemistry.

ACS Award for Team Innovation sponsored by ACS Corporation Associates, Raymond E. Boucher Jr., James E. (Jim) Dripps, Donald E. Kelley, and Nick D. Simmons, Dow AgroSciences. Address to be presented before the Division of Agrochemicals.

ACS Award in Analytical Chemistry sponsored by Battelle Memorial Institute, Nicholas Winograd, Pennsylvania State University. Address to be presented before the Division of Analytical Chemistry at the fall 2012 national meeting in Philadelphia.

ACS Award in Applied Polymer Science sponsored by Eastman Chemical, John R. Reynolds, University of Florida. Address to be presented before the Division of Polymeric Materials: Science & Engineering.

ACS Award in Chromatography sponsored by Supleco/Sigma-Aldrich, Wolfgang F. Lindner, University of Vienna, Austria. Address to be presented before the Division of Analytical Chemistry at the fall 2012 national meeting in Philadelphia.

ACS Award in Colloid & Surface Chemistry sponsored by Procter & Gamble, Robert J. Hamers, University of Wisconsin, Madison. Address to be presented before the Division of Colloid & Surface Chemistry.

ACS Award in Industrial Chemistry

sponsored by the ACS Division of Business Development & Management and the ACS Division of Industrial & Engineering Chemistry, Thomas F. Degnan Jr., ExxonMobil Research & Engineering. Address to be presented before the Division of Industrial & Engineering Chemistry and the Division of Business Development & Management.

ACS Award in Inorganic Chemistry sponsored by Aldrich Chemical, Clifford P. Kubiak, University of California, San Diego. Address to be presented before the Division of Inorganic Chemistry.

ACS Award in Organometallic Chemistry sponsored by Dow Chemical Co. Foundation, Philip P. Power, University of California, Davis. Address to be presented before the Division of Inorganic Chemistry.

ACS Award in Polymer Chemistry sponsored by ExxonMobil Chemical, Edwin L. (Ned) Thomas, Rice University. Address to be presented before the Division of Polymeric Materials: Science & Engineering.

ACS Award in Pure Chemistry sponsored by Alpha Chi Sigma Fraternity and the Alpha Chi Sigma Educational Foundation, Oleg V. Ozerov, Texas A&M University. Address to be presented before the Division of Inorganic Chemistry.

ACS Award in Separations Science & Technology sponsored by Waters Corp., Milton L. Lee, Brigham Young University. Address to be presented before the Division of Industrial & Engineering Chemistry, Annual Division of Industrial & Engineering Chemistry Separations Science & Technology Symposium.

ACS Award in the Chemistry of Materials sponsored by E. I. du Pont de Nemours & Co., Richard B. Kaner, University of California, Los Angeles. Address to be presented before the Division of Inorganic Chemistry.

ACS Award in Theoretical Chemistry sponsored by Dell Inc., Peter G. Wolynes, Rice University. Address to be presented before the Division of Physical Chemistry.

Award for Volunteer Service to the **American Chemical Society** sponsored by the American Chemical Society, Ingrid C. Montes, University of Puerto Rico, Rio Piedras. Address to be presented before the ACS ChemLuminary Awards at the fall 2012 national meeting in Philadelphia.

Arthur W. Adamson Award for Distinguished Service in the Advancement of Surface Chemistry sponsored by the ACS Division of Colloid & Surface Chemistry and the ACS Publications journal Langmuir, Steven J. Sibener, University of Chicago. Address to be presented before the Division of Colloid & Surface Chemistry.

Alfred Bader Award in Bioinorganic or Bioorganic Chemistry sponsored by the Alfred R. Bader Fund, Brian M. Hoffman, Northwestern University. Address to be presented before the Division of Inorganic Chemistry.

Earle B. Barnes Award for Leadership in Chemical Research Management sponsored by the Dow Chemical Co. Foundation, Ben A. Christolini, UOP-A Honeywell Company. Address to be presented before the Division of Industrial & Engineering Chemistry.

Ronald Breslow Award for Achievement in Biomimetic Chemistry sponsored by the Ronald Breslow Award Endowment, Alanna Schepartz, Yale University. Address to be presented before the Division of Organic Chemistry.

Herbert C. Brown Award for Creative Research in Synthetic Methods sponsored by the Purdue Borane Research Fund and the Herbert C. Brown Award Endowment, Jonathan A. Ellman, Yale University. Address to be presented before the Division of Organic Chemistry.

Alfred Burger Award in Medicinal Chemistry sponsored by GlaxoSmithKline, Frank Ivy Carroll, Center for Organic & Medicinal Chemistry, Research Triangle Institute. Address to be presented before the Division of Medicinal Chemistry.

James Bryant Conant Award in High School Chemistry Teaching sponsored by Thermo Fisher Scientific, Roxana (Roxie) Allen, St. John's School, Houston. Address to be presented before the Division of Chemical Education.

Arthur C. Cope Award sponsored by the Arthur C. Cope Fund, Chi-Huey Wong, Scripps Research Institute and Academia Sinica, Taiwan. Address to be presented before the Division of Organic Chemistry at the fall 2012 national meeting in Philadelphia.

Arthur C. Cope Scholar Awards sponsored by the Arthur C. Cope Fund, Jeffrey Aubé, University of Kansas; Squire J. Booker, Pennsylvania State University; Timothy F. Jamison, Massachusetts Institute of Technology; Anna K. Mapp, University of Michigan; Egbert W. (Bert) Meijer, Eindhoven University of Technology, Institute for Complex Molecular Systems; David I. Schuster, New York University; Scott A. Snyder, Columbia University; Yi Tang, University of California, Los Angeles; Michael R. Wasielewski, Northwestern University; and Jin-Quan Yu, Scripps Research Institute. Addresses to be presented before the Division of Organic Chemistry at the fall 2012 national meeting in Philadelphia.

Elias J. Corey Award for Outstanding Original Contribution in Organic Synthesis by a Young Investigator sponsored by the Pfizer Endowment Fund, Jeffrey S. Johnson, University of North Carolina, Chapel Hill. Address to be presented before the Division of Organic Chemistry.

F. Albert Cotton Award in Synthetic Inorganic Chemistry sponsored by the F. Albert Cotton Endowment Fund, Christopher A. Reed, University of California, Riverside. Address to be presented before the Division of Inorganic Chemistry.

Peter Debye Award in Physical Chemis**try** sponsored by E. I. du Pont de Nemours & Co., David Chandler, University of California, Berkeley. Address to be presented before the Division of Physical Chemistry.

Frank H. Field & Joe L. Franklin Award for **Outstanding Achievement in Mass Spectrometry** sponsored by Waters Corp., Scott A. McLuckey, Purdue University. Address to be presented before the Division of Analytical Chemistry at the fall 2012 national meeting in Philadelphia.

Francis P. Garvan-John M. Olin Medal sponsored by the Francis P. Garvan-John M. Olin Medal Endowment, Sue B. Clark, Washington State University. Address to be presented before the Division of Nuclear Chemistry & Technology.

James T. Grady-James H. Stack Award for Interpreting Chemistry for the Public sponsored by the American Chemical Society, Paul Raeburn. Address to be presented before the ACS Office of Communications.

Ernest Guenther Award in the Chemistry of Natural Products sponsored by Givaudan, Stephen Hanessian, University of Montreal and University of California, Irvine. Address to be presented before the Division of Organic Chemistry.

Joel Henry Hildebrand Award in the **Theoretical & Experimental Chemistry** of Liquids sponsored by ExxonMobil Research & Engineering, William L. Jorgensen, Yale University. Address to be presented before the Division of Physical Chemistry.

Ralph F. Hirschmann Award in Peptide **Chemistry** sponsored by Merck Research Laboratories, Jeffrey W. Kelly, Scripps Research Institute. Address to be presented before the Division of Organic Chemistry.

Frederic Stanley Kipping Award in Silicon Chemistry sponsored by Dow Corning, Mitsuo Kira, Tohoku University, Japan. Address to be presented before the Division of Inorganic Chemistry and the U.S.-based Silicon Symposium.

Irving Langmuir Award in Chemical Physics sponsored by GE Global Research and the ACS Division of Physical Chemistry, James L. Skinner, University of Wisconsin, Madison. Address to be presented before the Division of Physical Chemistry.

Nobel Laureate Signature Award for Graduate Education in Chemistry sponsored by Avantor Performance Materials, Xin Zhang (student), Scripps Research Institute, and Shu-ou Shan (preceptor), California Institute of Technology. Address to be presented before the Division of Biological Chemistry.

E. V. Murphree Award in Industrial & **Engineering Chemistry** sponsored by ExxonMobil Research & Engineering, Michael F. Doherty, University of California, Santa Barbara. Address to be presented before the Division of Industrial & Engineering Chemistry.

James Flack Norris Award in Physical **Organic Chemistry** sponsored by the ACS Northeastern Section, Hans J. Reich, University of Wisconsin, Madison. Address to be presented before the Division of Organic Chemistry.

George A. Olah Award in Hydrocarbon or **Petroleum Chemistry** sponsored by the George A. Olah Award Endowment, James A. Dumesic, University of Wisconsin, Madison. Address to be presented before the Division of Catalysis Science & Technology.

George C. Pimentel Award in Chemical **Education** sponsored by Cengage Learning and friends and colleagues of George and Jeanne Pimentel, Diane M. Bunce, Catholic University of America. Address to be presented before the Division of Chemical Education.

Priestley Medal sponsored by the American Chemical Society, Robert S. Langer, Massachusetts Institute of Technology. Address to be presented before the ACS

National Awards Banquet Ceremony & General Meeting of the Society.

Glenn T. Seaborg Award for Nuclear **Chemistry** sponsored by the ACS Division of Nuclear Chemistry & Technology, Silvia S. Jurisson, University of Missouri, Columbia. Address to be presented before the Division of Nuclear Chemistry & Technology.

Gabor A. Somorjai Award for Creative Research in Catalysis sponsored by the Gabor A. & Judith K. Somorjai Endowment Fund, Enrique Iglesia, University of California, Berkeley. Address to be presented before the Division of Catalysis Science & Technology.

George & Christine Sosnovsky Award for Cancer Research sponsored by the George & Christine Sosnovsky Endowment Fund, Lawrence J. Marnett, Vanderbilt University. Address to be presented before the Division of Medicinal Chemistry.

E. Bright Wilson Award in Spectroscopy sponsored by the ACS Division of Physical Chemistry, Robert W. Field, Massachusetts Institute of Technology. Address to be presented before the Division of Physical Chemistry.

Ahmed Zewail Award in Ultrafast Science & Technology sponsored by the Ahmed Zewail Endowment Fund established by Newport Corp., Keith A. Nelson, Massachusetts Institute of Technology. Address to be presented before the Division of Physical Chemistry.

National Fresenius Award sponsored by Phi Lamda Upsilon, the National Chemistry Honor Society, Raymond E. (Ray) Schaak, Pennsylvania State University. Address to be presented before the Division of Inorganic Chemistry.

STUDENT & TEACHER ACTIVITIES

EDUCATION-FOCUSED programs and specialty activities are being held for undergraduate students, graduate students, postdoctoral scholars, high school teachers, and chemical professionals. Explore these opportunities in depth at www.acs.org/ sandiego2012.

UNDERGRADUATE PROGRAM A vibrant program designed especially for undergraduate students has been planned by the Society Committee on Education Task Force on Undergraduate Programming. This educational and career-oriented program includes symposia on the chemistry of coffee and on nuclear chemistry as well as workshops on careers in academia and demos that matter. University of California, Davis, professor Kimberly Prather will discuss her career path and novel research on the impacts of aerosols on climate and the environment. All events will take place at the San Diego Convention Center.

SATURDAY, MARCH 24

Reception: Celebrating 75 years of Undergraduates in ACS, 5 to 6:30 PM

SUNDAY, MARCH 25

Undergraduate Hospitality Center, 8 AM

Making the Most of Your First ACS Meeting, 8 to 8:45 AM

Workshop: Careers in Academia, 9 to 10:30 AM

Technical Symposium: Chemistry in a Cup o' Java, 9 to 10:30 AM

Chem Demo Exchange, 10:30 AM to noon Graduate School Reality Check, Step I: Getting In, 1 to 2 PM

Graduate School Reality Check, Step II: You're In-Now What? 2 to 3 PM **Undergraduate Panel: "International Year** of Chemistry Student Chapter Projects

and the United Nations Framework Convention on Climate Change," 2 to 4 PM **Networking Social with Graduate School** Recruiters, 3 to 5 PM

Workshop: Making Demos Matter, 3:30 to 5:30 PM

Student Chapter Awards Ceremony, 7 to 8:30 PM

Undergraduate Social, 8:30 to 11 PM

MONDAY, MARCH 26

Undergraduate Hospitality Center, 8 AM to 5 PM

Graduate School Recruiting Breakfast, 8 to 10 AM

Workshop: Award-Winning Outreach Programs-Chemists Celebrate Earth Day (CCED) Ideas, 9:45 to 11:15 AM

Technical Symposium: Nuclear Power Generation-Lessons from Fukushima Daiichi & Future Directions, 9:45 to 11:15

Undergraduate Research Poster Session (sponsored by CHED), noon to 2:30 PM Eminent Scientist Lecture, 3 to 4 PM **Networking Reception with Industrial** Chemists, 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 Task Force on Undergraduate Programming. Chair: Charles Baldwin, Union University, Jackson, Tenn. Program Chair: Michael Adams, Xavier University of Louisiana. For more information, contact the ACS Undergraduate Programs Office at (800) 227-5558 ext. 4480 or go to acs.org/undergrad.

GRADUATE & POSTDOCTORAL SCHOL-

ARS OFFICE. 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 San Diego Convention Center.

MONDAY, MARCH 26

Graduate & Postdoctoral Scholars Re**ception,** 7 to 8:30 PM.

For more information, contact the ACS Graduate & Postdoctoral Scholars Office at (800) 227-5558 ext. 4588.

SUNDAY, MARCH 25

HIGH SCHOOL TEACHERS PROGRAM,

Westin San Diego, 9 AM to 5 PM. The Division of Chemical Education and the ACS Education Division are sponsoring the High School Teachers Program. This program will contribute to the overarching theme of the San Diego meeting, "Chemistry of Life," by presenting information and activities related to green chemistry. The presentations will explore new methods of teaching, classroom tools, resources, and activities. The High School/College Interface Luncheon will bring together educators from different levels with the goal of facilitating an exchange of ideas and networking among teachers. High school teachers can register for this 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. On completion and submission of ACS forms, participants will be mailed a certificate documenting their participation in the conference.

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

WORKSHOPS

THE FOLLOWING workshops require a separate registration process and/or entry fee in order to participate in the event, as indicated in this listing. Event participation is open to all interested registrants. If registration is required, register through ACS registration at www.acs.org/sandiego 2012 unless instructed otherwise.

Division of Chemical Health & Safety (CHAS)-sponsored workshop fees. Members: Early-bird registration (before Feb. 17) \$250, full registration (after Feb. 17) \$325; nonmembers: early-bird registration \$300, full registration \$375. Registration is required for all workshops. Register online at: https://secure.hostwizard.org/chemical-safety.com/chas/regform.htm.

Laboratory Waste Management. Friday, March 23, 8:30 AM to 4:30 PM, San Diego Convention Center. Sponsored by CHAS. Presenter: Russell Phifer. CHAS offers this workshop to assist participants with the various regulatory requirements that apply to laboratories that generate hazardous waste. Additionally, it provides insight into options for on-site management and off-site disposal. The focus will include discussion of recycling/reclamation techniques, economical handling of wastes, and liability issues.

Laboratory Safety. Friday, March 23, 8:30 AM to 4:30 PM, San Diego Convention Center. Sponsored by CHAS. Presenters: James Kaufman and W. H. (Jack) Breazeale. This classic presentation on laboratory safety by the Laboratory Safety Institute (LSI) 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. Their stories are both

interesting and pertinent. Interactive demonstrations help you deal with everything from creative wiring in the lab to administrators without a vision of what it means to have a safe workplace. This workshop presents an excellent forum to speak openly about safety problems in the workplace.

Hazardous Waste Operations & Emergency Response Operations Annual Refresher. Friday, March 23, 8:30 AM to 4:30 PM, San Diego Convention Center. Sponsored by CHAS. Presenter: Stefan Wawzyniecki, CIH, CHMM, University

of Connecticut. This workshop meets the requirements in OSHA 29 CFR 1910.120 for eight hours of annual refresher training for workers at hazardous waste sites. The course is designed for general site workers who remove hazardous waste or who are exposed or potentially exposed to hazardous substances or health hazards. Topics include HAZWOPER regulations, safety and health plans, hazardous chemical overview, safety hazards, air monitoring, medical surveillance, site control, decontamination, personal protective equipment, and respiratory equipment.

2012 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 descriptions, scholarship information, or to register, go to www.acs. org/professionaldevelopment. For more information, contact Cassaundra Evans, (202) 872-6387, e-mail: c_evans@acs. org. Participation is open to all interested registrants.

Engaging Colleagues in Dialogue. Sunday, March 25, 1–5 PM, Hilton San Diego Bayfront. Have you ever had a project go awry only to learn that miscommunication was the cause? Good communication skills can make all the difference in your success as a leader. This course helps ACS leaders improve their one-on-one communication skills from both sides of the communication exchange—as sender and receiver. You will assess your own communication skills through conversations with colleagues both within ACS and in your workplace.

Leading without Authority. Monday, March 26, 8 AM-noon, Hilton San Diego Bayfront. Leading in a volunteer organization comes with many challenges, not the least of which is having no direct authority over the volunteer members. Therefore, leaders need to be able to engage and influence members to get things done even when they may be putting up barriers or expressing dif-

ferent viewpoints. Learn practical tools to help you gain cooperation without formal authority and motivate your committee, local section, or division members to accomplish important society goals.

Strategic Planning. Monday, March 26, 1-5 PM, Hilton San Diego Bayfront. Setting direction and creating the strategic plan for a local section, national committee, division, or region is a key responsibility of senior ACS leaders. Yet many of us lack the experience in plan development, receive minimal assistance in setting direction, or are unclear about how to align the section, division, or committee's goals to those of the society. This course will help you improve your understanding of the planning process while giving you the opportunity to start developing a plan that aligns with the ACS Board of Directors' strategic goals.

Leading Change. Tuesday, March 27, 1–5 PM, Hilton San Diego Bayfront. Change is a constant today, yet it is often met with resistance. Leading change—whether it is a change in priority, direction, or people—is critical to your success as a leader in your profession and within ACS. This course provides leaders with a stepwise process to lead change and guide committee members, division members, and local section members more effectively through the change process for greater results and efficiency.

How To Be a More Effective Chemical Hygiene Officer. Saturday, March 24, 8:30 AM to 4:30 PM. San Diego Convention Center. Sponsored by CHAS. Presenters: James Kaufman, Russell Phifer, and George H. Wahl Jr. Take a closer look at the Chemical Hygiene Officer (CHO) position, and prepare at the same time for the CHO Certification exam to be held the next day. The presenters will 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 (presented on Sunday through the National Registry of Certified Chemists), including a sample test in the same format as the real one. Request an application packet for the Chemical Hygiene Officer Certification examination online at www.nrcc6.org/cho.htm.

Classroom K-12 Safety. Saturday, March 24, 8:30 AM to 4:30 PM, San Diego Convention Center. Sponsored by CHAS. Instructor: Linda M. Stroud. Science laboratories and classroom demonstrations 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. Hazards associated with common classroom demonstrations and labs will be discussed and will be used to illustrate how to control these hazards and reduce the possibility of an unexpected outcome. There is extensive opportunity for questions both during the workshop and through follow-up by phone and e-mail. Fee is \$100 for both members and nonmembers.

Career Launch & Acceleration: Making the Most of Those First Years in Academia. Saturday, March 24, 8:30 AM to 5 PM, Manchester Grand Hyatt. Sponsored by COACh. Presenter: Geraldine Richmond. The first years as a faculty member in science can be exhilarating, exhausting, stressful, and rewarding. The workshop provides a crash course on strategies and techniques necessary for getting quickly out of the gate and for gaining acceleration as those first years pass. Topics include common mistakes of new faculty members and ways to avoid them, communication methods that are effective in the classroom and in individual and group meetings, effective negotiation techniques for getting

what you need to be productive, effective leadership styles, setting up a network of support and guidance, and marketing yourself and your work. Discussion, role playing, and group problem solving are important components of the workshop. Preregistration is required through http:// coach.uoregon.edu/register. For more information, contact Priscilla Lewis, COACh Coordinator, coach@uoregon.edu or (541) 346-0116.

Why Not? Creating Balance & Value in Your Career Portfolio. Saturday, March 24, 8:30 AM to 5 PM, Manchester Grand Hyatt. Sponsored by COACh. Presenters: Barbara Butterfield and Jane Tucker. Investing time and energy in your career should be as strategic as developing a financial portfolio that is balanced for different stages of your life and reflects your personal priorities. External and internal changes often require reexamination and adjustment of these investments as a career progresses. This session will assist participants in assessing their current career-life portfolio and in planning for changes in this portfolio to better align it with their current and future values and aspirations. Preregistration is required through http://coach.uoregon. edu/register. For more information, contact Priscilla Lewis, COACh Coordinator, coach@uoregon.edu or (541) 346-0116.

Defending Price. Saturday, March 24, 1 to 5 PM, San Diego Convention Center. Sponsored by SCHB. Suppliers in the sciences face a challenging sales environment. Customers are more demanding, pricing pressure is increasing, and margins are contracting. Many suppliers have responded by emphasizing the value they offer customers, but most find it hard to resist competitive pressure or customers' demands for lower prices. This half-day workshop is designed to introduce participants to the concepts and best practices for defending your price from attacks by low-value competitors and to help you develop a plan to become and remain a high-value supplier of premium products and services. This workshop may be used as a preparatory exercise for a company-specific Defending Price workshop, in which a more detailed and customized plan can be developed. Registration is required. Fees: ACS member, \$395; nonmember, \$495.

ENVR NRCC Certification Exams. Sunday, March 25, 8 AM to noon, Hilton San

Diego Bayfront. The certification examinations of the National Registry of Certified Chemists (NRCC) will be administered. Advance registration and completion (with approval) of application must be done prior to March 1. Requests for applications and registration should be made to NRCC, 927 South Walter Reed Dr., No. 11, Arlington, VA 22204; (703) 979-9001; or e-mail nrcc6@aol.com; www.nrcc6.org. Application fee is \$150, examination fee is \$175.

Green Labs for Green Research. Tuesday, March 27, 8 AM to noon, San Diego Convention Center. Sponsored by CHAL. As we enter the second decade of the 21st century with scientific research, energy costs, and environmental sensitivities all on the rise, we need to rethink the way we program and plan our labs. In the past decade, chemistry research has committed to the principles of green chemistry while at the same time, the laboratory planning and design industry has advanced new strategies and technologies that offer the possibility of safe, greener, and more energy-efficient laboratories. However, not once have these two industries joined forces to investigate the potential synergies in their collective approach to greening the planet through a collaborative effort. This workshop will present actual project examples with useful benchmark and metrics data from recently completed and cutting-edge projects currently "on the boards." This workshop is targeted for research faculty, laboratory managers, facility managers, and anyone interested in learning the latest methodologies and technologies supporting a higher level of sustainability in laboratory planning and design. Workshop is free. Preregistration is required. E-mail James Blount at Blount@ elienzweig.com to attend.

Business Valuation & the Sale-of-Business Process. Tuesday, March 27, 9 AM to noon, San Diego Convention Center \$295. Sponsored by SCHB. Presented by Allen Oppenheimer, president, A.M. Oppenheimer Inc. This workshop will detail the step-by-step process on how to value a business and how to increase the future value of the business. Business owners will gain practical tools in learning how to package their business to make it attractive to a buyer; maximizing the potential of the business; and increasing sales through marketing/market research, organizational planning, and more. The step-by-step process will cover practical aspects of the sale

of a business, including how to transfer a business to family and employees, how to target and attract suitable buyers, how to negotiate an increase in price based on favorable deal structuring, examples from the sale-of-business process, and more.

Topics in Structure-Based Drug Discovery. Wednesday, March 28, 4:15 to 6 PM, San Diego Convention Center. This free, two-part hands-on workshop will focus on fragment-based design tools and kinase modeling. The fragment-based design portion will consist of hands-on exercises for scaffold replacement, including protein ligand preparation and applying automatic 2-D and 3-D filtering constraints. Tools for generating fragment databases will also be discussed. In the second half, a kinase modeling application will be explored, focusing on identifying suitable kinase templates for homology modeling that are traditionally missed by standard BLAST-style search methods. The kinase modeling applications include a prealigned kinase structure database and a front end for searching the database by sequence, structure, family, ligand similarity, and so on. Note: Computers will be provided for the hands-on exercises (seats are limited). The molecularmodeling software package MOE will be used during the workshop. The workshop is suitable for both medicinal and computational chemists. To reserve a seat, please e-mail ralvarez@chemcomp.com.

Green Chemistry Workshops. Registration is required. Register through ACS registration.

Green Chemistry 101. Monday, March 26, 9 AM to 12:30 PM. Omni San Diego. Sponsored by ACS Green Chemistry Institute (ACS GCI). This half-day workshop will introduce the concepts of green chemistry, show real-world examples, and make the business case for green chemistry. Learn about greener, safer alternatives; metrics for comparing the greenness of chemicals and processes; and resources available from ACS GCI and others. The course will be led by green chemistry experts from and working with ACS GCI. Key topics include introduction to green chemistry and the 12 principles, examples and case studies of green chemistry, metrics for comparison of greenness, and resources for additional information. Fee: \$450. Special registration rate: Register for Introductory Green Chemistry 101 and Advanced Green Chemistry 201 and receive a discounted total registration of \$800.

Green Chemistry 201. Monday, March 26, 1 to 4:30 PM. Omni San Diego. Sponsored by ACS Green Chemistry Institute (ACS GCI). This half-day advanced workshop will delve more deeply into case studies and tools of green chemistry. This course will be interactive and steered by dialogue among attendees. It will be led by green chemistry experts from and working with ACS GCI. Attendees must have a basic understanding of green chemistry, the principles of green chemistry, industrial applications, and metrics for determining greenness or attendance at Green Chemistry 101 (or other comparable training). Key topics will include an in-depth look at industrially implemented green chemistry examples, hands-on practice with decision-making metrics and tools for assessing greenness, a personalized action plan for implementing green chemistry, and resources for additional information. Fee: \$450. Special registration rate: Register for Green Chemistry 101 Introductory Workshop and Green Chemistry 201 Advanced Workshop and receive a discounted total registration of \$800.

Green Chemistry 601. Tuesday, March 27, 8 AM to 5 PM. Omni San Diego. Sponsored by ACS Green Chemistry Institute (ACS GCI). This full-day advanced workshop will provide participants with in-depth case studies on the application of green chemistry across a variety of areas including energy, water, pharmaceuticals, and more. Participants will examine industrially implemented real-world green chemistry and engineering as well as participate in hands-on practice with several decisionmaking metrics and tools for assessing the impact of their decisions. This course will be highly interactive. Attendees must have a command of the basic principles of green chemistry. Prior experience or attendance at Green Chemistry 201 is highly recommended. Fee: \$1,800.

ACS SHORT COURSES

THE FOLLOWING short courses from the ACS Department of Professional Education, specifically designed to improve the skills and marketability of chemical scientists and technicians, are offered in conjunction with the national meeting in

San Diego. Early registration and group discounts are available. A course fee and registration separate from the national meeting are required. Register for a short course in San Diego, obtain course and pricing details, or view a full course catalog online at ProEd.acs.org; phone (202) 872-4508; fax (202) 872-6336; e-mail: shortcourses@acs.org.

ANALYTICAL Analysis & Interpretation of Mass Spectral Data, March 24-25 Capillary Electrophoresis of Biomolecules, March 27-28 1-D and 2-D NMR Spectroscopy: Structure Determination of Small-Molecule Organic Compounds, March 24-25 **Fundamentals of High-Performance Liq**uid Chromatography, March 26-27 **Groundwater Geochemistry for Chem**ists, March 27–28 **High-Throughput Method Development** for Drug Analysis by LC/MS, March 26 Infrared Spectral Interpretation: A Systematic Approach, March 26-27 **NMR Spectral Interpretation & Organic** Spectroscopy: A Problem-Based Learning Approach, March 27-28 **Practical Applications of Mass Spectrom**etry for Small Molecules, March 24-25 **Spectroscopic Method Development:** Qualitative & Quantitative Techniques,

Ultrahigh-Pressure LC (UHPLC): Concepts, Practices, Issues, Alternatives & How To Get Started, March 25

March 24-25

BIOLOGICAL/PHARMACEUTICAL/ MEDICINAL CHEMISTRY

Capillary Electrophoresis of Biomolecules, March 27–28

Drug-like Properties: Optimizing Pharmacokinetics & Safety in Drug Discovery, March 24–25

Drug Quality Fundamentals, March 24 Essentials of Medicinal Chemistry & Pharmacology, March 24–25

High-Throughput Method Development for Drug Analysis by LC/MS, March 26 Introduction to GLP Regulations & Bioanalytical Method Validation by LC/MS/ MS, March 27

Kinetics of Enzyme Action—Basic Principles for Drug Hunters, March 27–28 Pharmacokinetics & Pharmacodynamics in Drug Discovery for Chemists, March 27–28

Structure-Based Drug Design, March 24–25

COMPUTERS/STATISTICS/ ENGINEERING

Applied Computational Modeling, March 27–28

Chemical Engineering & Process Fundamentals for Chemists, March 24–25 Experimental Design for Productivity & Quality in Research & Development, March 24–26

Statistical Analysis of Laboratory Data, March 24–26

GENERAL

Effective Supervision of Scientists & the Technical Staff, March 24–25 Effective Technical Writing, March 27–28

ORGANIC/PHYSICAL CHEMISTRY

1-D and 2-D NMR Spectroscopy: Structure Determination of Small-Molecule Organic Compounds, March 24–25 Dispersions in Liquids: Suspensions, Emulsions & Foams, March 24–25 Essentials of Organic Chemistry, March 26 Mastering the Art of Writing Reasonable Organic Reaction Mechanisms, March 27–28

NMR Spectral Interpretation & Organic Spectroscopy: A Problem-Based Learning Approach, March 27–28 Organic Synthesis: Methods & Strategies for the 21st Century Chemist, March

Particle Surface Modification Technologies for Improving Properties & Applications, March 26

POLYMER CHEMISTRY

24-25

Polymer Chemistry, March 24–26 **Polymeric Coatings,** March 27–28

PROFESSIONAL DEVELOPMENT

Effective Supervision of Scientists & the Technical Staff, March 24–25 Effective Technical Writing, March 27–28 Mastering the Art of Writing Reasonable ORMs, March 27–28

Practical Approaches to Patents & Other Forms of Intellectual Property, March 26 Project Management for Technical Professionals, March 27–28

REGULATORY/ENVIRONMENTAL

Drug Quality Fundamentals, March 24 Groundwater Geochemistry for Chemists, March 27–28

Introduction to GLP Regulations & Bioanalytical Method Validation by LC/MS/ MS, March 27

Methods Development, Validation Proce-

dures & Regulatory Compliance Issues, March 24–25

Practical Approaches to Patents & Other Forms of Intellectual Property, March 26 Qualification & Validation of Laboratory Instruments & Equipment for Regulatory & QS Compliance (IQ, OQ, PQ), March 26

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, March 25, 9 AM to 5:30 PM; Monday and Tuesday, March 26–27, 8 AM to 5:30 PM, in Hall C of the San Diego Convention Center. The Virtual Career Fair will be held March 26–27. Whether online or on-site, the career fair is the place where the best talent and the best employers in chemistry meet.

During the career fair in San Diego, 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 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 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 career fair registration badge in Hall C of the convention center beginning Sunday, March 25).

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

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 no matter where they are. Interviews and informal discussions take place in virtual booths via text or video chat. Additionally, job seekers can schedule time with ACS career consultants for one-on-one consultations and attend live events via webcast. Job seekers can connect to the ACS Career Fair from their home, office, or from the dedicated computer stations on hand at the meeting. In today's tough economy, it makes good sense to enhance your job search by participating fully in both the on-site and online sections of the ACS Career Fair. Register at www.acs.org/sandiego2012.

IDEAL FOR EMPLOYERS. Leading employers around the world trust and depend upon ACS to provide them with the talent they need to innovate and excel. At our last Virtual Career Fair, more than 2,000 global job seekers—from recent grads to seasoned professionals—met with on-site 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 30 days after the career fair via the ACS jobs database and your virtual booth.

ACS CAREER FAIR AND THE ACS EXPOSITION TEAM HAVE JOINED

FORCES. Employers can purchase booth space inside the exposition hall, enabling you to maximize your ability to showcase your company's products and services and connect with job seekers. You can sign up for the ACS Career Fair Recruiters Row package online at www.acs.org/

Employers will receive an e-mail con-

firmation and must visit the ACS Career Fair Information Booth in Hall C of the San Diego Convention Center to pick up their blue badge. For registration information, please visit www.acs.org/careers. You can also contact Garretta Rollins at (800) 227-5558 ext. 6209, (202) 872-6209 (outside the U.S.), or e-mail g_rollins@acs.org.

ONE-ON-ONE CAREER CONSULTING.

Individual half-hour appointments with expert 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 of Hall C. Sign-up begins at 9 AM on Sunday, March 25, on a first-come, first-served basis.

CAREER AND PROFESSIONAL DEVEL-OPMENT WORKSHOPS. More than 30 career-related workshops will help you with everything from building your résumé to optimizing your job search to learning the ins and outs of academia, industry, and government employment. Workshop times are subject to change. Please consult the Web version of the workshop schedule at www.acs.org/careerfair or the "Guide to the ACS Career Fair" on-site brochure for final workshop program and times.

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

SUNDAY, MARCH 25

Planning Your Job Search, $8:30-9:45\,\mathrm{AM}$ Foreign-National Scientist Obtaining a Job In the U.S., $9-10:30\,\mathrm{AM}$ Preparing a Résumé, $10-11:15\,\mathrm{AM}$ Writing Excellent Proposals, 10:45-n00n Effective Interviewing, $11:30\,\mathrm{AM}-12:45\,\mathrm{PM}$ Planning Your Job Search, $1-2:15\,\mathrm{PM}$ Career Pathways—Introduction, $1:30-5:30\,\mathrm{PM}$

Preparing a Résumé, 2:30–3:45 PM Effective Interviewing, 4–5:15 PM

MONDAY, MARCH 26

Planning Your Job Search, 8:30-9:45 AM

Career Pathways—Government, 8:30 AM–12:30 PM

Preparing a Résumé, 10–11:15 AM Effective Interviewing, 11:30 AM–12:45 PM Planning Your Job Search, 1–2:15 PM Career Pathways—Industry, 1:30–5:30 DM

Effective Interviewing, 4-5:15 PM

TUESDAY, MARCH 27

Planning Your Job Search, 8:30–9:45 AM Career Pathways—Higher Education, 8:30 AM-12:30 PM

Preparing a Résumé, 10–11:15 AM Effective Interviewing, 11:30 AM–12:45 PM Planning Your Job Search, 1–2:15 PM Career Pathways—Working for Yourself, 1:30–5:30 PM

Preparing a Résumé, 2:30-3:45 PM Effective Interviewing, 4-5:15 PM

WEDNESDAY, MARCH 28

Planning Your Job Search, 8:30–9:45 AM Career Pathways—Interviewing, 8:30 AM–12:30 PM

Preparing a Résumé, 10–11:15 AM Effective Interviewing, 11:30 AM–12:45 PM

EXPOSITION

SEE WHAT'S NEW INSIDE THE EXPOSI-

TION. Take time to visit the ACS National Exposition at the San Diego Convention Center, Halls A and B from Sunday, March 25 through Tuesday, March 27. The new show hours will be Sunday, 6 to 8:30 PM and Monday and Tuesday from 9 AM to 5 PM.

Companies will showcase services, instruments, books, computer hardware, scientific software, and a wide 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 & Virtual Career Fair & Exposi-

tion. You can access the Online Exposition at www.acs.org/sandiego2012 to learn more about the exhibiting companies and download product information that meets your needs. Stayed tuned for additional information on the Virtual Career Fair & Exposition where you can schedule realtime discussions and review in-depth company information.

Free Exhibitor Workshops. Free workshops will be hosted by exhibitors inside the San Diego 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. Preregister at www.acs.org/sandiego2012 to reserve your seat. Preregistered attendees will be entered into a prize drawing; winners will be announced during the session.

Presentations, Prizes & Special Events. Visit the Daily Prize Raffle area from Sunday through Tuesday to enter prize raffles. Join us on Sunday from 6 to 8:30 PM for the Attendee Welcome Reception and then take part in the Attendee Networking Breaks scheduled for Monday and Tuesday afternoon. Look inside your meeting registration credentials for further information.

Exhibitor Passport Check-in. Find the flyer inside your registration credentials listing the exhibitors participating in the Exhibitor Passport or pick up your copy at Exhibitor Registration located in Lobby A. Have each participating exhibitor stamp their block, then bring your completed card to the Exhibitor Passport Check-in area to be entered for a chance to win a prize.

Internet & Technology. Utilize free Internet access and leave messages for one another at the Meeting Mail terminals located throughout the meeting. Also, enjoy free WiFi service at the San Diego 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 exposition 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 expoonly badge for \$25. Registration can be handled online, by mail, or in person at ACS Registration.

GOVERNANCE **MEETINGS**

For the complete list of committee meetings and agendas, please consult www.acs.org/sandiego2012 or the onsite 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 San Diego Convention Center from noon to 1 PM on Sunday, March 25.

ACS COUNCIL. The ACS council meeting will begin at 8 AM, Wednesday, March 28, in the San Diego Marriott Marquis & Marina Hotel. The meeting will be preceded by a continental breakfast for councilors beginning at 7 AM. Councilors are asked to check in beginning at 7 AM and proceed to the breakfast area, keeping in mind that the meeting starts promptly at 8 AM. Space will be available for ACS members and nonmembers to observe the council in action. We hope that many will take advantage of this opportunity to learn firsthand of the society's operation. Alternate councilors and division and local section officers are particularly urged to attend.

COMMITTEE AGENDA

THE COMMITTEE ON COMMITTEES

has clarified the 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 the 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 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; vice president, Du-Pont Global R&D, Stine-Haskell Research Center, 1090 Elkton Rd., S200, Newark, DE 19711-3510

Open Meeting

Saturday, March 24, 8 AM to noon San Diego Marriott Marquis & Marina

CHEMICAL ABSTRACTS SERVICE

Spiro Alexandratos, chair; Department of Chemistry, Hunter College, City University of New York, 695 Park Ave., New York, NY 10021

Executive Session

Friday, March 23, 6:30 to 8:30 PM San Diego Marriott Marquis & Marina

CHEMICAL SAFETY

Robert Hill, chair; 5795 Nash Commons Dr., Stone Mountain, GA, 30087-2869

Combined Open Meeting and **Executive Session** Monday, March 26, 8:30 to 11:30 AM San Diego Marriott Marquis & Marina

CHEMISTRY & PUBLIC AFFAIRS

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

Open Meeting

Monday, March 26, 8 AM to 4 PM San Diego Marriott Marquis & Marina

CHEMISTS WITH DISABILITIES

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

> Combined Open Meeting and Executive Session

Monday, March 26, 8 AM to 4:30 PM San Diego Marriott Marquis & Marina

COMMITTEES

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

Open Session Monday, March 26, 1 to 2 PM San Diego Marriott Marquis & Marina

COUNCIL POLICY COMMITTEE

The Council Policy Committee will open the floor during its meeting on Tuesday, March 27, at 11 AM to councilors who would like to bring to the committee issues of concern to them and/or their local sections or divisions. Please contact Carolyn Ribes, vice chair of CPC, for further information. She can be reached at cribes@dow. com. For more committee meeting details and agendas, please consult the meeting website at www.acs.org/ sandiego2012 or the on-site program distributed during the meeting.

COMMUNITY ACTIVITIES

Lynn Hogue, chair; 9076 Arrowhead Ct., Cincinnati, OH 45231

> CCA/LSAC Joint Open Meeting Tuesday, March 27, 2 to 3:30 PM **Manchester Grand Hyatt**

Executive Session Saturday, March 24, 5 to 7 PM **Manchester Grand Hyatt**

CONSTITUTION & BYLAWS

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

Open Meetings Sunday, March 25, 1 to 1:30 PM San Diego Marriott Marquis & Marina

Executive Sessions Sunday, March 25, 9 AM to 1 PM and 1:30 to 5 PM; Wednesday, March 28, end of council to 2:30 PM San Diego Marriott Marquis & Marina

CORPORATION ASSOCIATES

Anne S. DeMasi, chair; 2909 South 19th St., Philadelphia, PA 19145-4741

Open Meeting Monday, March 26, 8 AM to noon **Westin Gaslamp Quarter**

COUNCIL POLICY

Carolyn Ribes, vice chair; cribes@dow. com

Open Meeting Tuesday, March 27, 9:30 AM to noon San Diego Marriott Marquis & Marina

DIVERSITY & INCLUSION ADVISORY BOARD

Teri Quinn Gray, chair; DuPont Crop Protection, 1090 Elkton Rd., Newark, DE 19711

Executive Session Friday, March 23, 8 AM to noon San Diego Marriott Marquis & Marina

Open Meeting Friday, March 23, 1 to 4 PM San Diego Marriott Marquis & Marina

DIVISIONAL ACTIVITIES

John Pochan, chair; johnpochan@hotmail.

Open Session Sunday, March 25, 7:30 AM to noon San Diego Marriott Marquis & Marina

ECONOMIC & PROFESSIONAL AFFAIRS

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

Executive Session Saturday, March 24, 8 AM to 5:30 PM San Diego Marriott Marquis & Marina

Open Executive Session Sunday, March 25, 8 AM to noon San Diego Marriott Marquis & Marina

EDUCATION

Mary Carroll, chair; Department of Chemistry, Union College, Schenectady, NY 12308

Open Meeting Monday, March 26, 3 to 4 PM San Diego Marriott Marquis & Marina

Executive Session Friday, March 23, 1 to 5:30 PM San Diego Marriott Marquis & Marina

ENVIRONMENTAL IMPROVEMENT

Laura E. Pence, chair; University of Hartford, Department of Chemistry, 200 Bloomfield Ave., West Hartford, CT 06117

Open Executive Session Saturday, March 24, 4 to 6 PM San Diego Marriott Marquis & Marina

ETHICS

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

Open Executive Session Sunday, March 25, 9 AM to 4:30 PM San Diego Marriott Marquis & Marina

INTERNATIONAL ACTIVITIES

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

Open Meeting Saturday, March 24, 1 to 4 PM San Diego Marriott Marquis & Marina

Subcommittee Meetings Saturday, March 24, 9 AM to noon San Diego Marriott Marquis & Marina

LOCAL SECTION ACTIVITIES

Lee Latimer, chair; 56 Sheridan Rd., Oakland, CA 94618

> LSAC /CCA Joint Open Meeting Tuesday, March 27, 2 to 3:30 PM Manchester Grand Hvatt

> **Executive Session** Sunday, March 25, 8 AM to noon **Manchester Grand Hyatt**

MEETINGS & EXPOSITIONS

Dee Ann Casteel, chair, Department of Chemistry, Bucknell University, Lewisburg, PA 17837

Executive Session Saturday, March 24, 3 to 5:30 PM San Diego Marriott Marquis & Marina

Combined Open Meeting and Executive Session Sunday, March 25, 7 AM to noon San Diego Marriott Marquis & Marina

MEMBERSHIP AFFAIRS

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

Executive Session Sunday, March 25 San Diego Marriott Marquis & Marina

Open Meeting Monday, March 26, 1 to 2 PM San Diego Marriott Marquis & Marina

MINORITY AFFAIRS

Al Ribes, chair; Dow Benelux BV, P.O. Box 48, Haven Nummer 446, Aa Terneuzen, Netherlands 4530

Executive Session

Sunday, March 25, 8:30 AM to noon San Diego Marriott Marquis & Marina

Executive/Open Session Sunday, March 25, noon to 5 PM San Diego Marriott Marquis & Marina

NOMENCLATURE. **TERMINOLOGY & SYMBOLS**

Peter Rusch, chair; 162 Holland Ct., Mountain View, CA 94040-3864

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Executive Session

Monday, March 26, 2 to 5 PM San Diego Marriott Marquis & Marina

NOMINATIONS & ELECTIONS

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

Open Meeting

Monday, March 26, 11 AM to noon San Diego Marriott Marquis & Marina

PATENTS & RELATED MATTERS

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

Open Meeting

Saturday, March 24, 9 AM to 5 PM San Diego Marriott Marquis & Marina

PROFESSIONAL TRAINING

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

> Open Executive Session Sunday, March 25, 4 to 5 PM **Manchester Grand Hyatt**

PROJECT SEED

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

Open Meeting

Sunday, March 25, 9:30 to 10:30 AM San Diego Marriott Marquis & Marina

Executive Session

Saturday, March 24, 10:30 AM to 5 PM San Diego Marriott Marquis & Marina

PUBLICATIONS

Ned D. Heindel, chair; Lehigh University, Department of Chemistry, 6 East Packer Ave., Bethlehem, PA 18015-3172

Open Meeting

Friday, March 23, 4:30 to 5 PM San Diego Marriott Marquis & Marina Executive Session

Friday, March 23, 1 to 5 PM San Diego Marriott Marquis & Marina

SCIENCE

Sadig Shah, chair; Office of Research & Economic Development, Western Kentucky University, 1906 College Heights Blvd., Bowling Green, KY 42101

Open Meeting

Saturday, March 24, 9 AM to 5 PM San Diego Marriott Marquis & Marina

TECHNICIAN AFFAIRS

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

Executive Session

Sunday, March 25, 9 AM to 1:50 PM San Diego Marriott Marquis & Marina

Open Session

Sunday, March 25, 2 to 3 PM San Diego Marriott Marquis & Marina

WOMEN CHEMISTS

Judith H. Cohen, chair; Johnson & Johnson Pharmaceutical Research & Development, Spring House, PA 19477

Executive Session

Saturday, March 24, 8 AM to 5 PM San Diego Marriott Marquis & Marina

Open Meeting

Sunday, March 25, 3 to 4:30 PM San Diego Marriott Marquis & Marina

YOUNGER CHEMISTS

Dorothy Miller, chair; Environmental Protection Agency, 1200 Pennsylvania Ave., N.W., MC 8102R, Washington, DC 20460

Executive Session

Sunday, March 25, 8 AM to noon San Diego Marriott Marquis & Marina

Open Meeting

Sunday, March 25, noon to 1 PM San Diego Marriott Marquis & Marina