

TECHNICAL PROGRAM SUMMARY

Presidential Event

PRES

Bassam Z. Shakhshiri, Program Chair

Philadelphia Marriott Downtown/Loews Philadelphia Hotel	S	M	Tu	W	Th
Presidential Plenary Keynote: Chemistry & Climate Change		A			
Communicating Chemistry & Public Engagement: Celebrating the 25th Anniversary of National Chemistry Week**		D			
150 Years of Chemistry at Land Grant Institutions: The Past as Prelude to the Future			A		
Communicating Controversial Science: Honoring Rudy Baum**			D		
Materials for Health & Medicine Plenary* (MAHM)	P				
Symposium in Honor of 2009 & 2010 ACS Fellows in the Industrial & Engineering Chemistry Division* (I&EC)		D			
50 Years of NIGMS-Supported Chemistry Enabling Biomedical Research* (BIOL)		D			
Forensic Chemistry, Science & the Law Presents: Innocence! The Work of the Innocence Project* (CHAL)			D		
Celebrating the Sesquicentennial of the Land Grant College Act* (HIST)		D			
Ensuring the Sustainability of Critical Materials & Alternatives: Addressing the Fundamental Challenges in Separation Science & Engineering* (ANYL)			D		
The Power of Chemistry in Public Health: Drug Development from the Lab Bench to the Consumer* (CHED)			D		
Innovative Chemistry Research for Health & Medicine: East Meets West* (IAC)			D		

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

**Primary organizer of a cosponsored symposium.

MAHM: Materials for Health & Medicine

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

Materials for Health & Medicine

MAHM

X. Jia, Program Chair

Pennsylvania Convention Center	S	M	Tu	W	Th
Materials for Health & Medicine Plenary**	P				
Nanoscience & Nanotechnology for Health & Medicine**		P			
The Kavli Foundation Innovations in Chemistry Lecture		P			
50 Years of NIGMS-Supported Chemistry Enabling Biomedical Research* (BIOL)		D			

Academic Employment Initiative

A E I

C. Kuniyoshi, J. Sostaric, Program Chairs

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

Division of Agricultural & Food Chemistry

AGFD

L. Jackson, Program Chair

Loews Philadelphia Hotel	S	M	Tu	W	Th
Young Scientist Award Symposium	A				
Food Safety: New Technologies for the Protection of the Food Supply**	D	A			
Neuroactive Compounds from Natural Products** MAHM	D				
General Papers	P	P	P		A
Discovering Bioactive Compounds** MAHM		D	D		
Fruit & Vegetable Aroma Precursors		D			
Sci-Mix		E			
AGFD Award Symposium			A		
Sterling Hendricks Memorial Lectureship**			A		
2011 Kenneth A. Spencer Award: Honoring Michael W. Pariza**			P		
General Posters			P		
Essential Oils: Natural Materials for Flavor, Fragrance & Bioactives MAHM					D
Physical Methods in Food Analysis**					D
Natural Products for Pest Management* (AGRO)	A				

Division of Agricultural & Food Chemistry (Continued)

AGFD

L. Jackson, Program Chair

Loews Philadelphia Hotel	S	M	Tu	W	Th
Science & the Law: Analytical Data in Support of Regulation in Health, Food & the Environment* (CINF)	A				
Addressing the Complex Site: Chemistry, Toxicology & Fate of Mixed Pollutants Across Environmental Media* (ENVR)	D			E	
Interactions of Nanomaterials with Emerging Environmental Contaminants* (ENVR)	D	A		E	
Materials for Water Sustainability* (ENVR)	D	D		E	
2012 Kenneth A. Spencer Award: Honoring James N. Seiber* (AGRO)	P				
Innovative Materials & Technologies for Detection & Inactivation of Environmental Pathogens* (ENVR)		A			
International Sustainable Development: Institutional Frameworks* (IAC)		A			
Green Chemistry & the Environment* (ENVR)		D	A	E	
MRLs & Ag Chemicals* (AGRO)		D	A		
Undergraduate Research Posters* (CHED)		P			
Environmental Biotechnology & Sustainability: Applications to Drinking Water, Industrial Waste Treatment & Site Remediation* (ENVR)			D	E	
Is Your Analytical Method Good Enough?*(AGRO)			D	A	
Nanomaterials in Medicine, Food & the Environment* (ENVR)				DE	A
Perfecting Communication of Chemical Risk* (AGRO)				P	
Fate & Exposure of Urban Applied Pesticides in the Context of Human & Ecological Risk Assessments* (AGRO)					A
Human Health & Transgenic Crops* (AGRO)					A

Division of Agrochemicals

AGRO

J. Clark, Program Chair

Loews Philadelphia Hotel	S	M	Tu	W	Th
Natural Products for Pest Management**	D	D			

Division of Agrochemicals (Continued)

AGRO

J. Clark, Program Chair

Loews Philadelphia Hotel	S	M	Tu	W	Th
Pesticide Environmental Fate Properties: Measurement, Prediction, Limitations & Reliability**	D				
2012 Kenneth A. Spencer Award: Honoring James N. Seiber**	P				
Protection of Agricultural Productivity, Public Health & the Environment	P		P		
MRLs & Ag Chemicals**		D	A		
Pesticides & Fumigant Emissions from Agricultural Systems**		D			
AGRO International Research Award: Honoring Thomas C. Sparks for Contributions to the Discovery of New Agrochemicals		D			
AGRO Education Award Poster Session**		P			
Sci-Mix		E			
Integrated Vector & Resistance Management			D		
Is Your Analytical Method Good Enough?***			D	A	
Environmental Fate, Transport & Modeling/Monitoring of Agricultural Chemicals**			D	D	
Reactive Nitrogen (Nr) from Agriculture: Emission, Consequence & Management			P	D	
Mechanisms of Insecticidal Action & Resistance: New Compounds & Recent Advances					D
Synthesis & Chemistry of Agrochemicals				D	
Perfecting Communication of Chemical Risk**				P	
Worker Exposure: Are Your Senses a Proper Evaluation of Hazardous Exposure? MAHM					A
Fate & Exposure of Urban Applied Pesticides in the Context of Human & Ecological Risk Assessments**					D
Human Health & Transgenic Crops**					D
Next-Generation Biofuels & Bioproducts: Advances & Challenges**					D
Addressing the Complex Site: Chemistry, Toxicology & Fate of Mixed Pollutants Across Environmental Media* (ENVR)	D			E	

PROGRAM SUMMARY

Division of Agrochemicals (Continued)

AGRO

J. Clark, Program Chair

Loews Philadelphia Hotel	S	M	Tu	W	Th
Interactions of Nanomaterials with Emerging Environmental Contaminants* (ENVR)	D	A		E	
Materials for Water Sustainability* (ENVR)	D	D		E	
Neuroactive Compounds from Natural Products* (AGFD)	D				
Green Chemistry & the Environment* (ENVR)		D	A	E	
Discovering Bioactive Compounds* (AGFD)		D	D		
Innovative Technologies for Green, Grey, Brown & Black Water Reclamation & Reuse* (ENVR)		P		E	
Sterling Hendricks Memorial Lectureship* (AGFD)			A		
Environmental Biotechnology & Sustainability: Applications to Drinking Water, Industrial Waste Treatment & Site Remediation* (ENVR)			D	E	
2011 Kenneth A. Spencer Award: Honoring Michael W. Pariza* (AGFD)			P		
Nanomaterials in Medicine, Food & the Environment* (ENVR)				DE	A
Measurements & Methods in Environmental Nanotechnology* (ENVR)				E	A

Division of Analytical Chemistry

ANYL

C. Larive, Program Chair

Sheraton Philadelphia City Center Hotel	S	M	Tu	W	Th
Analytical Chemistry & Quality Management: Two Sides of the Same Coin** <small>MAHM</small>	A				
ACS Award in Chromatography: Honoring Wolfgang Lindner	D				
Conventional & Differential Ion Mobility Spectrometry**	P	A			
General Posters	E				
Chirality: Analytical Chemistry Challenges & Innovations**		A			
ANYL Awards		P			

Division of Analytical Chemistry (Continued)

ANYL

C. Larive, Program Chair

Sheraton Philadelphia City Center Hotel	S	M	Tu	W	Th
Emerging Quantitative Applications of Nonlinear Optical Measurements to Address Key Bottlenecks in Biological Sciences** <small>MAHM</small>		P	D	A	
Sci-Mix		E			
ACS Award in Analytical Chemistry: Honoring Nick Winograd** <small>MAHM</small>			D		
Ensuring the Sustainability of Critical Materials & Alternatives: Addressing the Fundamental Challenges in Separation Science & Engineering**			D		
Frank H. Field & Joe L. Franklin Award for Outstanding Achievement in Mass Spectrometry: Honoring Scott McLuckey				A	
Harnessing Nanotechnology for Human Health & Environment: How To Exploit Physicochemical Properties of Engineered Nanomaterials for Health & Societal Applications** <small>MAHM</small>				A	
New Directions in Bio & Pharmaceutical Analysis <small>MAHM</small>				P	D
New Directions in Spectroscopic Measurements				P	
New Directions in Mass Spectrometry				P	A
New Directions in Electrochemical Analysis & Sensors					D
New Directions in Analytical Separations					P
Science & the Law: Analytical Data in Support of Regulation in Health, Food & the Environment* (CINF)	A				
Solvent Dynamics at Biomolecular Interfaces: Experiment & Theory* (PHYS)	D	D	D	D	A
Computational Approaches to Spectroscopy Analysis* (COMP)	DE				
Recent Advances in Studies of Molecular Processes at Liquid Interfaces* (COMP)	P	D	D	D	A
Molecular & Supramolecular Chirality* (ORGN)		P			
Abiotic/Biotic Interfaces* (COLL)		P	A	D	D
Structure, Dynamics & Reactivity at Charged Interfaces* (COLL)		P	A	D	D
Undergraduate Research Posters* (CHED)		P			

Division of Analytical Chemistry (Continued)

ANYL

C. Larive, Program Chair

Sheraton Philadelphia City Center Hotel	S	M	Tu	W	Th
Terahertz Spectroscopy Moves from the Laboratory to the Commercial Sector* (SCHB)				D	
Harnessing Nanotechnology for Human Health & Environment: Toxicology & Potential Health Implications of Engineered Nanomaterials* (TOXI)				P	

Division of Biological Chemistry

BIOL

T. Wandless, Program Chair

DoubleTree by Hilton Philadelphia Center City	S	M	Tu	W	Th
Graduate Student & Postdoctoral Researcher Symposium	A				
Breakthroughs in Biological Chemistry	P				
Current Topics in Biological Chemistry	E		E		
50 Years of NIGMS-Supported Chemistry Enabling Biomedical Research** ^{MAHM}		D			
Sci-Mix		E			
Pfizer Award Symposium			A		
Repligen Award Symposium			P		
Lilly Award Symposium				A	
Goodman Award Symposium				P	
Membranes* (COMP)	A				
Drug Discovery* (COMP)	D	D	A	A	A
CSAR 2011-2012 Benchmark Exercise* (COMP)	D				
Molecular Mechanics* (COMP)	D	D	D	D	
Computational Approaches to Spectroscopy Analysis* (COMP)	DE				
Continuum Solvation Modeling in Biological Systems: Developments & Applications* (COMP)	P	D	D	D	D
Recent Advances in Studies of Molecular Processes at Liquid Interfaces* (COMP)	P	D	D	D	A
Cellular Targets & Chemical Biology* (MEDI)		A			

Division of Biological Chemistry (Continued)

BIOL

T. Wandless, Program Chair

DoubleTree by Hilton Philadelphia Center City	S	M	Tu	W	Th
Scripting & Programming: Drug Discovery & High-Performance Computing in the Cloud* (COMP)	A				
Computational Study of Water* (COMP)	D				
Drug Discovery in Tyrosine Kinase Inhibitors & Drug Resistance* (COMP)	P				
Simulations of Crowding, Confinement & Cellular Environments* (COMP)	P	P	P		
Undergraduate Research Posters* (CHED)	P				
Genome Instability* (TOXI)			D		
Glycoscience at the Crossroad of Health, Materials & Energy* (CARB)			D	D	
Modeling of Biomolecular Systems at Multiresolution* (COMP)			D	D	D
Perspectives in Applied Computational Methods* (COMP)			P	D	
Understanding & Predicting the Role of Water in Drug Design* (COMP)			P	P	A
Poster Session* (COMP)			E		

Division of Business Development & Management

BMGT

D. Daly, Program Chair

Pennsylvania Convention Center	S	M	Tu	W	Th
Business Plan Competition for CEC**	A				
2012 Henry F. Whalen Jr. Award: Honoring Nance Dicciani			P		
Analytical Chemistry & Quality Management: Two Sides of the Same Coin* (ANYL)	A				
The Power of Chemistry in Public Health: Drug Development from the Lab Bench to the Consumer* (CHED)			D		

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PROGRAM SUMMARY

Division of Carbohydrate Chemistry

CARB

X. Huang, Program Chair

DoubleTree by Hilton Philadelphia Center City	S	M	Tu	W	Th
Current Topics in Glycoscience	P	D			
General Posters	E				
Sci-Mix		E			
Glycoscience at the Crossroad of Health, Materials & Energy**			D	D	
Renewable Biopolymers: Carbohydrates for Food, Nutrition, Health & Medicine* (CELL)		D	P	D	D
50 Years of NIGMS-Supported Chemistry Enabling Biomedical Research* (BIOL)		D			
Renewable Biopolymers: Developing Renewable Materials for Sustainable Healthy Living* (CELL)			A		

Division of Catalysis Science & Technology

CATL

C. Sievers, Program Chair

DoubleTree by Hilton Philadelphia Center City	S	M	Tu	W	Th
Surface Science of Catalysis	D				
Computational Catalysis	P				
ACS Catalysis Lectureship for the Advancement of Catalytic Science Award Symposium**		D	A		
Progress in Electronic & Vibrational Spectroscopy of Catalytic Materials & Catalytic Reactions		D	D	D	A
Sci-Mix		E			
Catalysts for Biomass Conversion			P		
Synthesis of Catalysts				D	
Catalysis for Renewable Energy* (ENFL)	D	D			
Symposium in Honor of Umit Ozkan: Energy & Fuels Distinguished Researcher* (ENFL)		D	D	D	A
C ₁ Catalytic Chemistry* (ENFL)				D	A
Heterogeneous Catalysis for Environmental & Energy Applications* (ENVR)				DE	

Division of Cellulose & Renewable Materials

CELL

T. Elder, S. Murphy, Program Chairs

Sheraton Philadelphia City Center Hotel	S	M	Tu	W	Th
Advances & New Product Platforms from the Chemical Pulp & Bleaching of Lignocellulosic Materials**	P				
CELL Poster Session	E				
Renewable Biopolymers: Carbohydrates for Food, Nutrition, Health & Medicine** MAHM		D	P	D	D
Sci-Mix		E			
Renewable Biopolymers: Developing Renewable Materials for Sustainable Healthy Living**			A		
Introduction of Macromolecular Science/ Polymeric Materials into the Foundational Course in Organic Chemistry* (CHED)		D			
Simulations of Crowding, Confinement & Cellular Environments* (COMP)		P	P	P	
Glycoscience at the Crossroad of Health, Materials, & Energy* (CARB)			D	D	
Next-Generation Biofuels & Bioproducts: Advances & Challenges* (AGRO)					D

Division of Chemical Education

CHED

D. Rillema, I. Levy, S. Fleming, Program Chairs

Pennsylvania Convention Center	S	M	Tu	W	Th
Practical Applications of Using Visualization Techniques in Chemical Education	A				
High School Program**	D				
Mobile Devices, Augmented Reality & the Mobile Classroom	D				
Public Outreach	D				
Advances in Teaching Inorganic Chemistry in Laboratories	P				
General Posters	E				
Partnerships with Industry		A			
Advances in Teaching Organic Chemistry		D			
Introduction of Macromolecular Science/ Polymeric Materials into the Foundational Course in Organic Chemistry**		D			
Nanomaterials in Undergraduate Education & Research	D				

Division of Chemical Education (Continued)

CHED
D. Rillema, I. Levy, S. Fleming, Program Chairs

Pennsylvania Convention Center	S	M	Tu	W	Th
The Green Chemistry Commitment**		P			
Undergraduate Research Posters**		P			
Sci-Mix		E			
Successful Student Chapter Posters**		E			
Chemistry & the Premedical Curriculum**			D		
Guiding the Trajectory of Chemistry Education Reform: Honoring Susan Hixson			D		
The Power of Chemistry in Public Health: Drug Development from the Lab Bench to the Consumer**			D		
Women in Chemistry**			D		
Chemistry & Art				A	
Process Oriented Guided Inquiry Learning (POGIL)				A	
NSF Catalyzed Innovations in the Undergraduate Curriculum				D	
Research in Chemical Education				D	
Innovation in Nuclear Magnetic Resonance Spectroscopy in Undergraduate Teaching & Research				P	
General Papers					A
Polymer Science of Everyday Things* (POLY)	D	D	E		

Division of Chemical Health & Safety

CHAS
L. Stroud, D. Decker, Program Chairs

Pennsylvania Convention Center	S	M	Tu	W	Th
CHAS Awards** <i>MAHM</i>	P				
Latest Guidance on Laboratory Waste Management** <i>MAHM</i>		A			
Creating a Safety Culture in Academic Institutions** <i>MAHM</i>		P	D		

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Division of Chemical Information

CINF
R. Bienstock, Program Chair

Philadelphia Marriott Downtown	S	M	Tu	W	Th
When Chemists & Computers Collide: Putting Cheminformatics in the Hands of Medicinal Chemists**	A				
Hunting for Hidden Treasures: Chemical Information in Patents & Other Documents**	D	P			
Science & the Law: Analytical Data in Support of Regulation in Health, Food & the Environment** <i>MAHM</i>	D				
Cheminformatics & Drug Repurposing	P				
CINFlash	P				
CINF Scholarship for Scientific Excellence*	E				
Open Notebook Science/Open Chemistry/Electronic Lab Notebook		D			
Future of the History of Chemical Information**		D			
Sci-Mix		E			
Herman Skolnik Award Symposium			D		
Chemical Space: Challengers in Visualization & Mining				A	
Global Opportunities in Chemical Information**				A	
Cheminformatics Opportunities in Personalized Medicine & Chemogenomics				P	
Informatics Approaches to Materials Design				P	
General Papers					A
Legal, Patent & Digital Rights Management in Publishing**					P
Membranes* (COMP)	A				
Drug Discovery* (COMP)	D	D	A	A	A
CSAR 2011-2012 Benchmark Exercise* (COMP)	D				
Material Science* (COMP)	D				
Molecular Mechanics* (COMP)	D	D	D	D	
Computational Approaches to Spectroscopy Analysis* (COMP)	DE				
What You Need To Know About the New U.S. Patent Laws* (SCHB)		A			
Scripting & Programming: Drug Discovery & High-Performance Computing in the Cloud* (COMP)		A			

PROGRAM SUMMARY

Division of Chemical Information **CINF**

R. Bienstock, Program Chair

Philadelphia Marriott Downtown	S	M	Tu	W	Th
Computational Study of Water* (COMP)		D			
Drug Discovery in Tyrosine Kinase Inhibitors & Drug Resistance* (COMP)		P			
Simulations of Crowding, Confinement & Cellular Environments* (COMP)		P	P	P	
Characterization & Screening of Databases of Porous Materials* (COMP)			A		
Perspectives in Applied Computational Methods* (COMP)			P	D	
Understanding & Predicting the Role of Water in Drug Design* (COMP)			P	P	A
Poster Session* (COMP)			E		

Division of Chemical Toxicology **TOXI**

S. Sturla, Program Chair

DoubleTree by Hilton Philadelphia Center City	S	M	Tu	W	Th
Chemical Research in Toxicology Award Symposium	A				
TOXI Founders Award Symposium	P				
Young Investigators Symposium		A			
Drug Safety**		D			
TOXI Keynote Address		P			
Sci-Mix		E			
Genome Instability**			D		
General Posters			E		
General Papers				A	
Harnessing Nanotechnology for Human Health & Environment: Toxicology & Potential Health Implications of Engineered Nanomaterials** <i>MAHM</i>				P	
Science & the Law: Analytical Data in Support of Regulation in Health, Food & the Environment* (CINF)	A				
Material Science* (COMP)	D				
Drug Discovery* (COMP)	P				
The Power of Chemistry in Public Health: Drug Development from the Lab Bench to the Consumer* (CHED)			D		
Poster Session* (COMP)			E		

Division of Chemical Toxicology **TOXI**

S. Sturla, Program Chair

DoubleTree by Hilton Philadelphia Center City	S	M	Tu	W	Th
Harnessing Nanotechnology for Human Health & Environment: How to Exploit Physicochemical Properties of Engineered Nanomaterials for Health & Societal Applications* (ANYL)				A	

Division of Chemistry & the Law **CHAL**

J. Hasford, K. Bianco, Program Chairs

Pennsylvania Convention Center	S	M	Tu	W	Th
Strengthening Your Patent Rights in Light of Recent Federal Circuit Court Decisions	A				
IP of Drug Discovery	P				
Forensic Chemistry, Science & the Law Presents: Innocence! The Work of the Innocence Project**		D			
Sci-Mix		E			
Recent Trends in Chemical & Pharmaceutical Law: What Every Company, Practitioner & Researcher Needs To Know			A		
Patent Law: A European Perspective			P		
Beyond the Bench: Nontraditional Careers in Chemistry				A	
Tailoring Your IP: How Small, Medium & Large Companies Can Maximize Patent Value				P	
Structural Analogs, Novel Compounds & the Federal Analog Act					A
The Many Faces of CHAL: Where Chemistry Meets the Law					P
Hunting for Hidden Treasures: Chemical Information in Patents & Other Documents* (CINF)	A				
Science & the Law: Analytical Data in Support of Regulation in Health, Food & the Environment* (CINF)	A				
Detection of Counterfeit Drugs* (SOCED)	A				

Division of Colloid & Surface Chemistry

COLL

R. Nagarajan, Program Chair

Pennsylvania Convention Center	S	M	Tu	W	Th
Basic Research in Colloids, Surfactants & Nanomaterials <i>MAHM</i>	A			D	D
Chemistry & Physics in Tribology	D	D	A		
Functional Nanoparticles for Biomedical Application <i>MAHM</i>	D	DE	A	D	
Inorganic Surfaces & Colloids: Environment, Health & Toxicity <i>MAHM</i>	D	A			
Mineral Scales in Biological & Industrial Systems	D	D			
Molecular Processes at Solid Surfaces	D	D	A		
Half a Century of Fine Particles Science: Honoring Egon Matijevic at 90 <i>MAHM</i>	P	D	A	D	
<i>Nano Letters</i> Young Investigator Lectureship Award Symposium		A			
Abiotic/Biotic Interfaces** <i>MAHM</i>		P	A	D	D
Structure, Dynamics & Reactivity at Charged Interfaces**		P	A	D	D
Fundamental Research in Colloid & Surface Science		E			
Kinetics & Thermodynamics of Self-assembling Systems <i>MAHM</i>		E	A	D	D
<i>Langmuir</i> Award Lectures			P		
Applications of Vibrational Spectroscopy to Studies of Environmental Interfaces				D	
Membranes* (COMP)	A				
Material Science* (COMP)	D				
Recent Advances in Studies of Molecular Processes at Liquid Interfaces* (COMP)	P	D	D	D	A
Nanoscience & Nanotechnology for Health & Medicine* (MAHM)		P			
Simulations of Crowding, Confinement & Cellular Environments* (COMP)		P	P	P	
Emerging Quantitative Applications of Nonlinear Optical Measurements to Address Key Bottlenecks in Biological Sciences* (ANYL)		P	D	A	
Modeling of Biomolecular Systems at Multiresolution* (COMP)			D	D	D
Advances in Methods & Applications of SPM to Polymer Materials* (POLY)			E		
Poster Session* (COMP)			E		

Division of Computers in Chemistry

COMP

E. Esposito, S. Wildman, Program Chairs

Pennsylvania Convention Center/ Philadelphia Marriott Downtown	S	M	Tu	W	Th
Membranes**	A				
Drug Discovery**	D	D	A	A	A
CSAR 2011–2012 Benchmark Exercise**	D				
Exploring Potential Energy Surfaces in Quantum Chemistry: A Tribute to H. Bernhard Schlegel**	D	D	D	D	
Material Science**	D				
Molecular Mechanics**	D	D	D	D	
Computational Approaches to Spectroscopy Analysis**	DE				
Continuum Solvation Modeling in Biological Systems: Developments & Applications**	P	D	D	D	D
Quantum Chemistry**	P	A	A	A	A
Recent Advances in Studies of Molecular Processes at Liquid Interfaces**	P	D	D	D	A
Scripting & Programming: Drug Discovery & High-Performance Computing in the Cloud**		A			
Computational Study of Water**		D			
Drug Discovery in Tyrosine Kinase Inhibitors & Drug Resistance**		P			
Simulations of Crowding, Confinement & Cellular Environments**		P	P	P	
Sci-Mix		E			
Characterization & Screening of Databases of Porous Materials**			A		
Modeling of Biomolecular Systems at Multiresolution**			D	D	D
Perspectives in Applied Computational Methods**			P	D	
Understanding & Predicting the Role of Water in Drug Design**			P	P	A

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PROGRAM SUMMARY

Division of Computers in Chemistry (Continued)

COMP

E. Esposito, S. Wildman, Program Chairs

Pennsylvania Convention Center/ Philadelphia Marriott Downtown	S	M	Tu	W	Th
Chemical Computing Group Excellence Award**			E		
Poster Session**			E		
OpenEye Outstanding Junior Faculty Award**			E		
Undergraduate Research Posters* (CHED)		P			
Entrepreneurship: Drug Discovery Innovation at Start-up, Small & Medium-sized Biotechnology Companies* (SCHB)			D		
The Power of Chemistry in Public Health: Drug Development from the Lab Bench to the Consumer* (CHED)			D		
From Fragments to Leads: Medicinal Chemistry in Fragment-based Drug Discovery* (MEDI)				P	

Division of Energy & Fuels

ENFL

Y. Hu, T. Gardner, Program Chairs

Pennsylvania Convention Center	S	M	Tu	W	Th
Advances in Analytical Methods in Petroleum Upstream Applications	A				
Catalysis for Renewable Energy**	D	D			
1st International Symposium on Graphene for Energy & Fuels	D	D	D		
4th International Symposium on Hydrogen from Renewable Sources & Refinery Applications	D	D	D		
8th International Symposium on Hydrotreating/Hydrocracking Technologies	D	D			
Frontiers in Energy & Fuels Research	D				
Green Chemistry in Energy & Fuels**	D	D			
Nanomaterials & Nanotechnologies for Energy & Fuels	D				
Solar Cells & Solar Energy**	D				
Hydrogen Storage & Utilization	P				
Metal-organic Frameworks for Energy & Fuels		D	D	D	A
Jet Fuels		D			

Division of Energy & Fuels (Continued)

ENFL

Y. Hu, T. Gardner, Program Chairs

Pennsylvania Convention Center	S	M	Tu	W	Th
Symposium in Honor of Eli Ruckenstein for His Catalysis Contributions	D				
Symposium in Honor of Umit Ozkan: Energy & Fuels Distinguished Researcher**	D	D	D	A	
Sci-Mix	E				
Theory & Simulation in Energy & Fuel Production & Utilization			D	D	A
Advances in Fuel Cells			D		
Storch Award: Honoring Michael Siskin			D		
Heavy Hydrocarbon Resources: Characterization, Upgrading & Utilization			D	D	
Spectroscopy & Microscopy in Catalysis: The In Situ Age			D	D	A
1st International Symposium on Excellence in Energy & Fuels Graduate Research		P			
Advances in Energy & Fuel Processes, Systems, Materials & Utilization			P		
Bioenergy & Biofuels				D	A
Advances in Batteries				D	A
C1 Catalytic Chemistry**				D	A
Electron-Transfer Processes in Energy Production & Application				D	A
Characterization & Screening of Databases of Porous Materials* (COMP)			A		
Geochemistry & Environmental Issues Associated with Shale Gas Extraction* (GEOC)			A		
Poster Session* (COMP)			E		

Division of Environmental Chemistry

ENVR

D. Dionysiou, Program Chair

Loews Philadelphia Hotel	S	M	Tu	W	Th
Addressing the Complex Site: Chemistry, Toxicology & Fate of Mixed Pollutants Across Environmental Media** MAHM	D			E	
Interactions of Nanomaterials with Emerging Environmental Contaminants** MAHM	D	A		E	
Materials for Water Sustainability** MAHM	D	D		E	

Division of Environmental Chemistry (Continued)

ENVR

D. Dionysiou, Program Chair

Loews Philadelphia Hotel	S	M	Tu	W	Th
Innovative Materials & Technologies for Detection & Inactivation of Environmental Pathogens** <i>MAHM</i>		A			
Green Chemistry & the Environment**		D	A	E	
Innovative Technologies for Green, Grey, Brown & Black Water Reclamation & Reuse**		P		E	
Sci-Mix		E			
Environmental Biotechnology & Sustainability: Applications to Drinking Water, Industrial Waste Treatment & Site Remediation**			D	E	
Special Symposium in Honor of Paul L. Bishop**			D	E	
Environmental Chemistry of Fe-Oxides & Fe-Hydroxides			D	E	
C. Ellen Gonter Environmental Chemistry Award Symposium			P		
Heterogeneous Catalysis for Environmental & Energy Applications**				DE	
Spectroscopic Identification of Interfacial Chemical Species in Natural & Engineered Environments				DE	
Nanomaterials in Medicine, Food & the Environment** <i>MAHM</i>				DE	A
General Posters				E	
K-12 Environmental Scientists Forum				E	
Measurements & Methods in Environmental Nanotechnology**				E	A
Colloid Transport through Porous Media: Experimental Techniques & Parameterization through Modeling					A
Natural Products for Pest Management* (AGRO)	A				
Pesticide Environmental Fate Properties: Measurement, Prediction, Limitations & Reliability* (AGRO)	A				
Science & the Law: Analytical Data in Support of Regulation in Health, Food & the Environment* (CINF)	A				
Food Safety: New Technologies for the Protection of the Food Supply* (AGFD)	D	A			

Division of Environmental Chemistry (Continued)

ENVR

D. Dionysiou, Program Chair

Loews Philadelphia Hotel	S	M	Tu	W	Th
Kinetics & Mechanism in the Atmosphere* (PHYS)	D	D	D	D	A
Neuroactive Compounds from Natural Products* (AGFD)	D				
Pesticides & Fumigant Emissions from Agricultural Systems* (AGRO)		A			
MRLs & Ag Chemicals* (AGRO)		D	A		
Discovering Bioactive Compounds* (AGFD)		D	D		
Undergraduate Research Posters* (CHED)		P			
Ensuring the Sustainability of Critical Materials & Alternatives: Addressing the Fundamental Challenges in Separation Science & Engineering* (ANYL)			D		
Is Your Analytical Method Good Enough?* (AGRO)			D	A	
Harnessing Nanotechnology for Human Health & Environment: How To Exploit Physicochemical Properties of Engineered Nanomaterials for Health & Societal Applications* (ANYL)				A	
Physical Methods in Food Analysis* (AGFD)				D	
Perfecting Communication of Chemical Risk* (AGRO)				P	
Harnessing Nanotechnology for Human Health & Environment: Toxicology & Potential Health Implications of Engineered Nanomaterials* (TOXI)				P	
Fate & Exposure of Urban Applied Pesticides in the Context of Human & Ecological Risk Assessments* (AGRO)					A
Next Generation Biofuels & Bioproducts: Advances & Challenges* (AGRO)					A

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

**Primary organizer of a cosponsored symposium.

MAHM: Materials for Health & Medicine

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PROGRAM SUMMARY

Division of Geochemistry

GEOC

M. Taillefert, Program Chair

Pennsylvania Convention Center	S	M	Tu	W	Th
Applications of Advanced Analytical Methods in Petroleum Geochemistry		A			
Molecular Approaches To Investigate Processes at the Mineral-Water Interface		P			
Sci-Mix		E			
Geochemistry & Environmental Issues Associated with Shale Gas Extraction**			A		
Trace Metal-Mineral Interactions in the Environment			P		
Undergraduate Research Posters* (CHED)		P			
Poster Session* (COMP)			E		

Division of the History of Chemistry

HIST

S. Rasmussen, Program Chair

Sheraton Philadelphia City Center Hotel	S	M	Tu	W	Th
General Papers	A				
Chemistry Books Edited by E. F. Smith**	P				
Celebrating the Sesquicentennial of the Land Grant College Act**		D			
Sci-Mix		E			
Characters in Chemistry			D		
Marie Maynard Daly: Her Life & Legacy**				P	
Future of the History of Chemical Information* (CINF)		A			

Division of Industrial & Engineering Chemistry

I & E C

M. Moore, Program Chair

Pennsylvania Convention Center	S	M	Tu	W	Th
Hydrocarbons from Biomass: Progress & Perspectives	D				
Thermodynamics & Kinetics: The Basic Science of Separations**	D				
Symposium in Honor of 2009 & 2010 ACS Fellows in I&EC**		D			
Sci-Mix		E			
I&EC Graduate Award Symposium			D		

Division of Industrial & Engineering Chemistry (Continued)

I & E C

M. Moore, Program Chair

Pennsylvania Convention Center	S	M	Tu	W	Th
Extraction of Uranium from Seawater			DE		
General Posters			E		
DfE Chemical Alternatives Assessments, Methodology & Implementation**				A	
General Papers				D	
Industrial Applications in Homogenous Catalysis**					A
Green Chemistry in Energy & Fuels* (ENFL)	A				
Analytical Chemistry & Quality Management: Two Sides of the Same Coin* (ANYL)	A				

Division of Inorganic Chemistry

I N O R

S. Koch, N. Radu, Program Chairs

Pennsylvania Convention Center	S	M	Tu	W	Th
Inorganic Catalysts	A		E		
Coordination Chemistry	A		PE	DE	
2012 Reaxys PhD Prize Winners Symposium	A				
Bioinorganic Chemistry	AE			PE	
Chemistry of Materials	DE			P	
Organometallic Chemistry	DE	P	E	DE	
Nanoscience	P		AE	DE	
Young Investigator Award Symposium	P				
Environmental & Energy Related Inorganic Chemistry	PE			P	
Lanthanide & Actinide Chemistry	PE				
Memorial Symposium for Michelle Millar: Exploration of Enzymes & Their Functions Using Synthetic Inorganic Chemistry**	PE	A			
Advanced Metal Nanostructures for Catalysis	E	D			
Progress & Challenges in Crystal Growth, Design & Characterization of Materials		D	AE		
Biochalcogen Chemistry: The Biological Chemistry of Sulfur, Selenium & Tellurium		D	DE		

MAHM

Division of Inorganic Chemistry (Continued)

INOR
S. Koch, N. Radu, Program Chairs

Pennsylvania Convention Center	S	M	Tu	W	Th
Main Group Chemistry Meets Polymer & Materials Science**		D	E		
Synthetic Inorganic Chemistry: A Great Future Built on 50+ Years of Success		D	DE		
N-Heterocyclic Carbenes in Catalysis		P	D	AE	
Sci-Mix		E			
Inorganic Spectroscopy			A	E	
ExxonMobil Solid State Chemistry Faculty Fellow Award: Honoring Michael Shatruk			P		
Inorganic Nanoscience Award: Honoring Daniel R. Gamelin			P		
2012 Organometallics Symposium**			PE		
Main Group Chemistry				AE	
Electrochemistry				PE	
Material Science* (COMP)	D				
ACS Catalysis Lectureship for the Advancement of Catalytic Science Award Symposium* (CATL)		D	A		
50 Years of NIGMS-Supported Chemistry Enabling Biomedical Research* (BIOL)		D			
Undergraduate Research Posters* (CHED)		P			
Characterization & Screening of Databases of Porous Materials* (COMP)			A		
Main Group Chemistry Meets Polymer & Materials Science* (PMSE)			D		
Poster Session* (COMP)			E		
2012 Organometallics Symposium* (ORGN)				A	
Industrial Applications in Homogenous Catalysis* (I&EC)					A

Division of Medicinal Chemistry

MEDI
J. Barrish, Program Chair

Pennsylvania Convention Center	S	M	Tu	W	Th
Personalized Health Care in Oncology	A				
General Oral Session	D		A	A	
First Time Disclosures of Clinical Candidates	P				
General Poster Session**	E			E	

Division of Medicinal Chemistry (Continued)

MEDI
J. Barrish, Program Chair

Pennsylvania Convention Center	S	M	Tu	W	Th
Cellular Targets & Chemical Biology**	A				
New Strategies for Targeting Parkinson's Disease & Other Neurodegenerative Conditions MAHM	A				
Peptide Hormones & Therapeutics	P				
Validating the Glutamatergic Hypothesis: How Far Have We Come?	P				
Sci-Mix	E				
MEDI Predoctoral Awardees: Where Are They Now?			A		
A Medicinal Chemist's Toolbox: A Tactical & Strategic Inventory			P		
MEDI Awards Symposium			P		
Bioisosteres Redux: Strategic Deployment in the Design & Development of Drug Candidates				A	
Drug Delivery Technologies: Getting Your Compounds to the Clinic MAHM				A	
Process Chemistry: The Role of Organic Synthesis in Early Clinical Drug Development**				P	
From Fragments to Leads: Medicinal Chemistry in Fragment-Based Drug Discovery**				P	
Small-Molecule Modulation of Cell Stress Response Pathways: From Chemical Design to Clinical Opportunities				P	
Membranes* (COMP)	A				
Science & the Law: Analytical Data in Support of Regulation in Health, Food & the Environment* (CINF)	A				
When Chemists & Computers Collide: Putting Cheminformatics in the Hands of Medicinal Chemists* (CINF)	A				
Drug Discovery* (COMP)	D	D	A	A	A

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PROGRAM SUMMARY

Division of Medicinal Chemistry (Continued)

MEDI
J. Barrish, Program Chair

Pennsylvania Convention Center	S	M	Tu	W	Th
CSAR 2011–2012 Benchmark Exercise* (COMP)	D				
Molecular Mechanics* (COMP)	D	D	D	D	
Scripting & Programming: Drug Discovery & High-Performance Computing in the Cloud* (COMP)		A			
Eminent Scientist Lecture & Luncheon* (SOCED)		A			
50 Years of NIGMS-Supported Chemistry Enabling Biomedical Research* (BIOL)	D				
Computational Study of Water* (COMP)	D				
Drug Safety* (TOXI)		D			
Drug Discovery in Tyrosine Kinase Inhibitors & Drug Resistance* (COMP)		P			
Simulations of Crowding, Confinement & Cellular Environments* (COMP)		P	P	P	
Undergraduate Research Posters* (CHED)		P			
Entrepreneurship: Drug Discovery Innovation at Start-up, Small & Medium-Sized Biotechnology Companies* (SCHB)			D		
Glycoscience at the Crossroad of Health, Materials & Energy* (CARB)			D	D	
The Power of Chemistry in Public Health: Drug Development from the Lab Bench to the Consumer* (CHED)			D		
Innovative Chemistry Research for Health & Medicine: East Meets West* (IAC)			D		
Modeling of Biomolecular Systems at Multiresolution* (COMP)			D	D	D
Perspectives in Applied Computational Methods* (COMP)			P	D	
Understanding & Predicting the Role of Water in Drug Design* (COMP)			P	P	A
Poster Session* (COMP)			E		

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Division of Nuclear Chemistry & Technology

NUCL
K. Nash, J. Braley, Program Chairs

Pennsylvania Convention Center	S	M	Tu	W	Th
Celebrating the 100th Anniversary of the Birth of Glenn T. Seaborg & Charles Coryell	D	A			
General Topics in Nuclear & Radiochemistry	P				
Francis P. Garvan-John M. Olin Medal: Honoring Sue B. Clark**		D	D		
Young Investigators in Nuclear & Radiochemistry			P	D	
High-Energy-Density Physics & Chemistry				D	

Division of Organic Chemistry

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

Pennsylvania Convention Center	S	M	Tu	W	Th
Young Investigators	A				
Beckwith Memorial Symposium on Free Radical Chemistry	D				
Heterocycles & Aromatics	D	P	A		
Materials for Health & Medicine <i>MAHM</i>	D				
Total Synthesis of Complex Molecules	D	A			
Asymmetric Reactions & Syntheses	D	A			
Studying the Role of the Protein Backbone through Isosteric Substitution	P				
Asymmetric Reactions & Syntheses, Heterocycles & Aromatics, Total Synthesis of Complex Molecules, Physical Organic Chemistry: Calculations, Mechanisms, Photochemistry & High-Energy Species	E				
Process Chemistry: The Role of Organic Chemistry in Early Clinical Drug Development	A				
Peptides, Proteins & Amino Acids	A				
New Reactions & Methodology	D	D	D		
Physical Organic Chemistry: Calculations, Mechanisms, Photochemistry & High-Energy Species	D				
Celebration of International Chemistry	D				
Biologically Related Molecules & Processes	P	D			
Tetrahedron Prize for Creativity in Organic Chemistry	P				
Molecular & Supramolecular Chirality**	P				

**Division of Organic Chemistry
(Continued)**
ORGN
A. Abdel-Magid, R. Gawley, Program Chairs

Pennsylvania Convention Center	S	M	Tu	W	Th
Sci-Mix		E			
Microwave-Assisted Organic Chemistry: Honoring Ajay K. Bose**			A		
Arthur C. Cope & Arthur C. Cope Scholars Award Symposium			D		
Molecular Recognition & Self-Assembly			D	P	
Young Academic Investigators			D		
Material, Devices & Switches			P	D	
Metal-Mediated Reactions & Syntheses			P	D	
Materials for Health & Medicine, Biologically Related Molecules & Processes, Materials Devices & Switches, Metal-Mediated Reactions & Syntheses & Organometallics <i>MAHM</i>			E		
Advances in Biocatalysis				A	
2012 Organometallics Symposium**				A	
Technical Achievements in Organic Chemistry Award Symposium				D	
Advances in Antimicrobial Chemistry & Chemical Biology				P	
Molecular Recognition & Self-Assembly, New Reactions & Methodology, Peptides, Proteins & Amino Acids				E	
Material Science* (COMP)	D				
Chirality: Analytical Chemistry Challenges & Innovations* (ANYL)		A			
50 Years of NIGMS-Supported Chemistry Enabling Biomedical Research* (BIOL)		D			
Entrepreneurship: Drug Discovery Innovation at Start-up, Small & Medium-Sized Biotechnology Companies* (SCHB)			D		
Design & Applications of Organic & Metal-Organic Porous Materials* (PMSE)			D	D	
Glycoscience at the Crossroad of Health, Materials & Energy* (CARB)			D	D	
The Power of Chemistry in Public Health: Drug Development from the Lab Bench to the Consumer* (CHED)			D		
Teva Pharmaceuticals Scholars Inaugural Grant Symposium* (G&A)			P		
2012 Organometallics Symposium* (INOR)			P		
Poster Session* (COMP)			E		

**Division of Organic Chemistry
(Continued)**
ORGN
A. Abdel-Magid, R. Gawley, Program Chairs

Pennsylvania Convention Center	S	M	Tu	W	Th
Process Chemistry: The Role of Organic Synthesis in Early Clinical Drug Development* (MEDI)				P	
General Poster Session* (MEDI)				E	

Division of Physical Chemistry
PHYS
M. Gruebele, Program Chair

Philadelphia Marriott Downtown	S	M	Tu	W	Th
PHYS Undergraduate Workshop	A				
Dynamics & Jamming in Complex Environments	D	D	D	D	A
Kinetics & Mechanism in the Atmosphere**	D	D	D	D	A
Bridging the Gap Between Ab Initio & Classical Simulations	D	D	D	D	
Photochemistry in Biology	D	D	A	D	
Solvent Dynamics at Biomolecular Interfaces: Experiment & Theory**	D	D	D	D	A
Electron & Energy Transfer Phenomena: At the Intersection of Electronic Structure Theory & Chemical Dynamics	D	D	A	D	A
Synthesis, Spectroscopy, Theory & Applications of Nanocrystals & Nanowires	P	D	D	D	A
Sci-Mix		E			
PHYS Postdoctoral Awards			P		
PHYS Awards Symposium			P		
PHYS Poster Session				E	
Membranes* (COMP)	A				
Solar Cells & Solar Energy* (ENFL)	D				
CSAR 2011-2012 Benchmark Exercise* (COMP)	D				
Exploring Potential Energy Surfaces in Quantum Chemistry: A Tribute to H. Bernhard Schlegel* (COMP)	D	D	D	D	
Material Science* (COMP)	D				
Molecular Mechanics* (COMP)	D	D	D	D	
Computational Approaches to Spectroscopy Analysis* (COMP)	DE				

PROGRAM SUMMARY

Division of Physical Chemistry (Continued)

PHYS

M. Gruebele, Program Chair

Philadelphia Marriott Downtown	S	M	Tu	W	Th
Continuum Solvation Modeling in Biological Systems: Developments & Applications* (COMP)	P	D	D	D	D
Conventional & Differential Ion Mobility Spectrometry* (ANYL)	P	A			
Quantum Chemistry* (COMP)	P	A	A	A	A
Recent Advances in Studies of Molecular Processes at Liquid Interfaces* (COMP)	P	D	D	D	A
Computational Study of Water* (COMP)		D			
Simulations of Crowding, Confinement & Cellular Environments* (COMP)		P	P	P	
Emerging Quantitative Applications of Nonlinear Optical Measurements to Address Key Bottlenecks in Biological Sciences* (ANYL)		P	D	A	
Undergraduate Research Posters* (CHED)		P			
Characterization & Screening of Databases of Porous Materials* (COMP)			A		
Modeling of Biomolecular Systems at Multiresolution* (COMP)			D	D	D
Understanding & Predicting the Role of Water in Drug Design* (COMP)			P	P	A
Poster Session* (COMP)			E		

Division of Polymer Chemistry

POLY

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

Sheraton Philadelphia City Center Hotel	S	M	Tu	W	Th
Industrial Polymer Scientist Award: Honoring B. N. Gaddam	A				
Advances in Methods & Applications of SPM to Polymer Materials**	D	D	AE		
Polymer Science of Everyday Things**	D	D	E		
Polymers at the Interface with Biology: Opportunities in Antimicrobial Materials, Immunology, Delivery & Imaging <i>MAHM</i>	D	D	E		
Green Polymer Chemistry: Biocatalysis & Biobased Materials <i>MAHM</i>	P	D	DE	D	A
Sci-Mix		E			
Computational Polymer Modeling			DE	D	D

Division of Polymer Chemistry (Continued)

POLY

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

Sheraton Philadelphia City Center Hotel	S	M	Tu	W	Th
Bioconjugate Polymers			DE	D	
DSM Polymer Technology Award: Advanced Polymer Networks			P		
Energy & Materials			E	D	A
General Topics: New Synthesis & Characterization of Polymers			E		
POLY/PMSE Plenary Lecture & Awards Reception**				E	
Material Science* (COMP)	D				
AkzoNobel Award for Outstanding Graduate Research in Polymer Chemistry: Honoring Garret Miyake* (PMSE)		A			
Renewable Biopolymers: Carbohydrates for Food, Nutrition, Health & Medicine* (CELL)		D	P	D	D
Introduction of Macromolecular Science/ Polymeric Materials into the Foundational Course in Organic Chemistry* (CHED)		D			
Undergraduate Research Posters* (CHED)		P			
Renewable Biopolymers: Developing Renewable Materials for Sustainable Healthy Living* (CELL)			A		
Characterization & Screening of Databases of Porous Materials* (COMP)			A		
Poster Session* (COMP)			E		

Division of Polymeric Materials: Science & Engineering

PMSE

J. Baghdachi, Program Chair

Sheraton Philadelphia City Center Hotel	S	M	Tu	W	Th
PMSE Young Investigator's Symposium	D	P			
ACS Polymer Award: Honoring John Reynolds**	D				

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**Division of Polymeric Materials:
Science & Engineering
(Continued)**
PMSE
J. Baghdachi, Program Chair

Sheraton Philadelphia City Center Hotel	S	M	Tu	W	Th
Polymeric Biomaterials <i>MAHM</i>	D	D	D		
Roy W. Tess Award: Honoring Benny D. Freeman	D	D			
AkzoNobel Student Award Symposium**	P				
Field Responsive Polymeric Materials		A	D		
AkzoNobel Award for Outstanding Graduate Research in Polymer Chemistry: Honoring Garret Miyake**		A			
WCU International Symposium on Energy Storage & Conversion**		D	D	D	
<i>Journal of Polymer Science</i> Award: Honoring Christopher Bielawski**		P			
Sci-Mix		E			
Main Group Chemistry Meets Polymer & Materials Science**			D		
Design & Applications of Organic & Metal-Organic Porous Materials**			D	D	
Joint PMSE/POLY Poster Session			E		
Polymeric Materials & Surfaces for Cell Differentiation** <i>MAHM</i>				D	
General Papers/New Concepts in Polymeric Materials				D	D
Polymers for Personal Care & Cosmetics** <i>MAHM</i>				D	
Polymer Science of Everyday Things* (POLY)	D	P	E		
Material Science* (COMP)	D				
Introduction of Macromolecular Science/ Polymeric Materials into the Foundational Course in Organic Chemistry* (CHED)		D			
Main Group Chemistry Meets Polymer & Materials Science* (INOR)		D			
Undergraduate Research Posters* (CHED)		P			
Characterization & Screening of Databases of Porous Materials* (COMP)			A		
Poster Session* (COMP)			E		
POLY/PMSE Plenary Lecture & Awards Reception* (POLY)				E	

Division of Professional Relations
PROF
R. Libby, Program Chair

Philadelphia Downtown Courtyard by Marriott	S	M	Tu	W	Th
International Activities: Here's How We Did It**	P				
Beyond the Bench: Nontraditional Careers in Chemistry**		D			
Sci-Mix		E			
Value of GLBT Diversity & Inclusion to Innovation in the Chemical Enterprise			A		
Ethics in Industry: NOT an Oxymoron!**			P		
True Stories of Success & Best Practices from Chemical Entrepreneurs* (SCHB)	A				
Science & the Law: Analytical Data in Support of Regulation in Health, Food & the Environment* (CINF)	A				
Marketing & Technical Sales for Start-up & Growing Businesses* (SCHB)	P				
Young Chemist International Collaborations* (YCC)	P				
How Small Businesses Increase Sales & Grow Using Social Media* (SCHB)	P				
What You Need To Know About the New U.S. Patent Laws* (SCHB)		A			
Entrepreneurship: Drug Discovery Innovation at Start-up, Small & Medium-Sized Biotechnology Companies* (SCHB)			D		
Global Opportunities in Chemical Information* (CINF)				A	
Legal, Patent & Digital Rights Management in Publishing* (CINF)					P

Rubber Division
RUBB
J. Walker, Program Chair

Located with Primary Sponsor	S	M	Tu	W	Th
Introduction of Macromolecular Science/ Polymeric Materials into the Foundational Course in Organic Chemistry* (CHED)		D			

PROGRAM SUMMARY

Division of Small Chemical Businesses

SCHB

J. Sabol, Program Chair

Philadelphia Downtown Courtyard by Marriott	S	M	Tu	W	Th
True Stories of Success & Best Practices from Chemical Entrepreneurs**	A				
Marketing & Technical Sales for Start-up & Growing Businesses**	P				
How Small Businesses Increase Sales & Grow Using Social Media**	P				
What You Need To Know About the New U.S. Patent Laws**		A			
Making Running for Elected Office a Part of Your Career**		P			
Sci-Mix		E			
Entrepreneurship: Drug Discovery Innovation at Start-up, Small & Medium-Sized Biotechnology Companies**			D		
Terahertz Spectroscopy Moves from the Laboratory to the Commercial Sector**				D	
Hunting for Hidden Treasures: Chemical Information in Patents & Other Documents* (CINF)	A				
Analytical Chemistry & Quality Management: Two Sides of the Same Coin* (ANYL)	A				
International Activities: Here's How We Did It* (PROF)	P				
Memorial Symposium for Michelle Millar: Exploration of Enzymes & Their Functions Using Synthetic Inorganic Chemistry* (INOR)	P	A			
Business Plan Competition for CEC* (BMGT)		A			
Beyond the Bench: Nontraditional Careers in Chemistry* (PROF)		D			
Commercialization through Partnerships with Industry & Investors* (COMSCI)			P		
Ethics in Industry: NOT an Oxymoron!* (PROF)			P		

Division of Small Chemical Businesses (Continued)

SCHB

J. Sabol, Program Chair

Philadelphia Downtown Courtyard by Marriott	S	M	Tu	W	Th
Global Opportunities in Chemical Information* (CINF)				A	

Committee on Environmental Improvement

CEI

R. Lomneth, Program Chair

Pennsylvania Convention Center	S	M	Tu	W	Th
Chemistry & the Environment Film Series**	E				
Ensuring the Sustainability of Critical Materials & Alternatives: Addressing the Fundamental Challenges in Separation Science & Engineering* (ANYL)			D		

Committee on Grants & Awards

G & A

K. Voorhees, Program Chair

Pennsylvania Convention Center	S	M	Tu	W	Th
Teva Pharmaceuticals Scholars Inaugural Grant Symposium** MAHM			P		

Committee on Science

COMSCI

M. Chorgade, Program Chair

Pennsylvania Convention Center	S	M	Tu	W	Th
Young Investigator Awardee Forum		A			
Commercialization through Partnerships with Industry & Investors** MAHM			P		
Business Plan Competition for CEC* (BMGT)		A			
Ensuring the Sustainability of Critical Materials & Alternatives: Addressing the Fundamental Challenges in Separation Science & Engineering* (ANYL)			D		

International Activities Committee

I A C

M. Hurrey, J. Benham, Program Chairs

Philadelphia Marriott Downtown	S	M	Tu	W	Th
International Sustainable Development: Institutional Frameworks**		A			
Innovative Chemistry Research for Health & Medicine: East Meets West** <i>MAHM</i>			D		

Society Committee on Education

SOCED

M. Carroll, Program Chair

Sheraton Philadelphia City Center Hotel/Pennsylvania Convention Center	S	M	Tu	W	Th
Detection of Counterfeit Drugs**	A				
Eminent Scientist Lecture & Luncheon**		A			
Chemistry & the Environment Film Series* (CEI)	E				
Introduction of Macromolecular Science/ Polymeric Materials into the Foundational Course in Organic Chemistry* (CHED)			D		
Undergraduate Research Posters* (CHED)		P			
Successful Student Chapter Posters* (CHED)			E		
Chemistry & the Premedical Curriculum* (CHED)				D	

Women Chemists Committee

W C C

A. Charlebois, A. Debaillie, Program Chairs

Pennsylvania Convention Center	S	M	Tu	W	Th
Past Chairs Celebrating 85 Years of WCC		A			
Women in Chemistry* (CHED)			D		
Francis P. Garvan-John M. Olin Medal: Honoring Sue B. Clark* (NUCL)			D	D	
Marie Maynard Daly: Her Life & Legacy* (HIST)				P	

Younger Chemists Committee

Y C C

A. Myers, T. Matos, Program Chairs

Pennsylvania Convention Center	S	M	Tu	W	Th
Young Chemist International Collaborations**	P				
True Stories of Success & Best Practices from Chemical Entrepreneurs* (SCHB)	A				
How Small Businesses Increase Sales & Grow Using Social Media* (SCHB)	P				
What You Need To Know About the New U.S. Patent Laws* (SCHB)		A			
Beyond the Bench: Nontraditional Careers in Chemistry* (PROF)		D			
Making Running for Elected Office a Part of Your Career* (SCHB)		P			
Entrepreneurship: Drug Discovery Innovation at Start-up, Small & Medium-Sized Biotechnology Companies* (SCHB)			D		
Poster Session* (COMP)			E		

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