

# TECHNICAL PROGRAM SUMMARY

## Presidential Event

PRES

*N. B. Jackson, Program Chair*

Colorado Convention Center	S	M	Tu	W	Th
Empowering Tomorrow's Science Super Heroes**	A				
Science on the Hollywood Screen**	P				
Globalization: The ACS & You**			P		
Honoring the 100th Anniversary of Marie Curie's Nobel Prize for International Year of Chemistry* (PHYS)	D	D	D	D	
Resource-Efficient Chemistry: Energy, Electrochemistry & Environment* (IAC)	P				
Jerry Bell & the Joy of Chemistry* (CHED)		D			
Making Running for Elected Office Part of your Career Path* (SCHB)		P			
Profiles of Past ACS Presidents* (HIST)			P		

## Chemistry of Air, Space & Water

CASW

*R. Cohen, Program Chair*

Colorado Convention Center	S	M	Tu	W	Th
Exploring the Interiors of Planets**	D				
Chemistry of Air, Space & Water Plenary**	P				
Nitrogen & the Human Endeavor: Chemistry, Effects & Solutions** <i>IYC-1</i>			D		
The Kavli Foundation Innovations in Chemistry Lecture <i>IYC-1</i>			P		
Chemistry as a Tool for Space Exploration & Discovery at Mars**			D	D	

## Academic Employment Initiative

AEI

*C. Kuniyoshi, J. Sostaric, Program Chairs*

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

## Division of Agricultural & Food Chemistry

AGFD

*N. Da Costa, Program Chair*

Colorado Convention Center	S	M	Tu	W	Th
Young Scientist Award Symposium <i>IYC-4</i>	A				
Recent Advances in Analysis of Food & Flavors	D	D			
Food for Extreme Environments	P				
AGFD Division Award Symposium		A			
Tropical & Subtropical Fruits: Flavors, Color & Health Benefits <i>IYC-4</i>		P	D		
Sci-Mix		E			
AGFD International Year of Chemistry (IYC) Symposium <i>IYC-4</i>			A		
Food Bioactives & the <i>Journal of Agricultural &amp; Food Chemistry IYC-4</i>			P	D	
General Posters			P		
Future Agricultural Consumer Safety Demands for the Global Market** <i>IYC-1,4</i>				D	
General Papers					A
PET Recycling: Bridging the Gaps through Innovation* (PMSE)	D				
Chemistry of Air, Space & Water Plenary* (CASW)	P				
Nitrogen & the Human Endeavor: Chemistry, Effects & Solutions* (CASW)			D		
Undergraduate Poster Session* (CHED)			P		
A Sustainable Future: Interface of Energy, Food, Water & Climate Sustainability* (COMSCI)				A	
Sterling B. Hendricks Memorial Lectureship Award* (AGRO)				A	
Human Exposure & Responses to Toxins from the Air & Water* (TOXI)					A

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

\*\*Primary organizer of a cosponsored symposium.

\*Probationary division.

IYC: International Year of Chemistry Themes

1 - Environment, 2 - Energy, 3 - Materials, 4 - Health

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## Division of Agrochemicals

### AGRO

A. Barefoot, Program Chair

Colorado Convention Center	S	M	Tu	W	Th
Analytical Challenges for Crop Protection Products**	P				
Bioavailability & Extractability of Pesticide Residues <i>IYC-4</i>	P				
Evaluating Agrochemical Aquatic Exposure Modeling in Relation to Risk Evaluator Needs <i>IYC-4</i>	P	A			
Agrochemical Use on Tribal Lands in the U.S.: Understanding Benefits, Issues & Cultural Influences**		A			
AGRO Education Award Poster Session**		A			
Managed Ecosystems, Pesticides & Biodiversity <i>IYC-1,4</i>		D			
Honoring George P. Lahm for his Contributions to the Discovery of New Insecticides**		D			
Advances in Characterizing Exposure of Humans & Ecosystems to Pesticides in Surface Waters <i>IYC-4</i>	P	A			
New Investigator Symposium**	P				
Sci-Mix	E				
Sterling B. Hendricks Memorial Lectureship Award**			A		
Endangered Species Act & Pesticide Regulation: Scientific & Process Improvements** <i>IYC-1,4</i>			D	D	D
Modern Agriculture & Biotechnology: Tools for Sustainability <i>IYC-1</i>			D		
Advances in Protection of Agricultural Productivity, Public Health & the Environment <i>IYC-4</i>			D		
Parameters for Pesticide QSAR & PBPK/PD Models				D	D
Agriculture & Air Quality: Emission Measurements & Models <i>IYC-1,4</i>				D	D
Black Carbon & Biochar for Soil Fertility & Carbon Sequestration* (ENVR)		D		E	
Veterinary Pharmaceuticals in the Environment* (ENVR)			D	A	
Future Agricultural Consumer Safety Demands for the Global Market* (AGFD)				D	

## Division of Analytical Chemistry

### ANYL

D. Koppenaal, Program Chair

Colorado Convention Center	S	M	T	W	Th
General Papers	A	P	P	P	D
General Posters	A				
New Frontiers in Single Molecules Detection & Single Cell Analysis**	P				
Innovations in Teaching Analytical Chemistry		A			
ACS Award in Chromatography: Honoring Purnendu Dasgupta		A			
ANYL Awards: Honoring 2011 Recipients		P			
ANYL Distinguished Service Award: Celebrating Ted Kuwana's Half-Century of Service to the Analytical Sciences			A		
Advanced Analytical Techniques & Technologies for the Characterization of Biotherapeutics <i>IYC-4</i>			A		
ACS Award in Analytical Chemistry: Honoring Christie G. Enke**			P		
Bioanalytical Platforms in Biomarker Discovery & Development** <i>IYC-4</i>				A	
Frank H. Field & Joe L. Franklin Award for Outstanding Achievement in Mass Spectrometry: Honoring Robert J. Cotter				D	
Analytical Methods in Chemical Forensics <i>IYC-4</i>					A
Bioanalytical & Environmental Applications of Microfluidic Devices <i>IYC-1</i>					P
Computational Approaches to Spectroscopy Analysis* (COMP)	A				
Empowering Tomorrow's Science Super Heroes* (PRES)	A				
Advances in SERS & Molecular Plasmonics* (PHYS)	D	D	D	DE	A
Science on the Hollywood Screen* (PRES)	P				
Advanced Microscopy Techniques for Biophysical Questions* (PHYS)		D	D	D	A
Analytical Chemistry in Nuclear Technology* (NUCL)		D	D	D	A
Undergraduate Poster Session* (CHED)		P			
Bioanalytical Platforms in Biomarker Discovery & Development* (TOXI)				P	

# PROGRAM SUMMARY

## Division of Biological Chemistry

### BIOL

*D. McCafferty, J. Bollinger, Program Chairs*

Colorado Convention Center	S	M	Tu	W	Th
Graduate Student & Postdoctoral Researcher Symposium	A				
Goodman Award Symposium <i>IYC-4</i>	P				
Current Topics in Biological Chemistry	E		E		
Pfizer Award Symposium		A			
Lilly Award Symposium		P			
Sci-Mix		E			
Chemistry & Biology of Redox-Mediated Toxicity**			A		
Repligen Award Symposium			P		
Breakthroughs in Biological Chemistry				A	
Gordon Hammes Award Lecture				P	
Structural & Mechanistic Enzymology				P	
Bioinformatics* (COMP)		A			
Advanced Microscopy Techniques for Biophysical Questions* (PHYS)		D	D	D	A
Undergraduate Poster Session* (CHED)		P			
Membranes* (COMP)				A	

## Division of Catalysis Science & Technology (probationary)

### CATL

*B. Zhou, Program Chair*

Colorado Convention Center	S	M	Tu	W	Th
Surface Science of Catalysis	D	D			
General Catalysis		E			
Advances in Catalysis Science: Recent Advances in Au Catalysis			D	A	
Emission Control Technologies in Production & Utilization of Fuels & Energy* (FUEL)	D				
Recycling Carbon: Catalyzed Conversion of Nonfood Biomass to Fuels & Chemicals * (I&EC)	P	D	D		

## Division of Business Development & Management

### BMGT

*D. Daly, Program Chair*

Colorado Convention Center	S	M	Tu	W	Th
Whalen Award	P				
Chemistry Plus [Business] = Opportunity**		P			
Sustainability & Innovation for a Cleaner Environment**			D		
Empowering Tomorrow's Science Super Heroes* (PRES)	A				
Science on the Hollywood Screen* (PRES)	P				
Beyond the Bench: Nontraditional Careers in Chemistry* (CHAL)		A			
Small Businesses Spin-Offs into the Commercial Sector* (SCHB)			A		
True Stories of Success from Chemical Entrepreneurs* (SCHB)			A		
Best Practices for Entrepreneurs Panel Discussion* (SCHB)			P		
Water is the Next "Oil"* (SCHB)				A	

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**Division of Chemical Education**
**CHED**
*I. Levy, J. March, W. Jones, Program Chairs*

Sheraton Denver Downtown Hotel	S	M	Tu	W	Th
Non-Science Major Education	A				
High School Program**	D				
Greening Undergraduate Education: Lecture & Laboratory Innovations** <i>IYC-1</i>	D				
Research in Chemical Education	D	D			
Research at Community Colleges: Strategies for Enhancing Student Transfer & Success**	P				
General Posters	E				
Surviving a Renovation of Chemistry Laboratories: The Good, the Bad, the Ugly		A			
Creating Innovation by Collaboration in Green Chemistry Between Industry University Centers & Students** <i>IYC-1</i>		D			
Jerry Bell & the Joy of Chemistry**		D			
Adventures in Teaching in Physical Chemistry		P			
Undergraduate Poster Session**		P			
Sci-Mix		E			
Successful Student Chapter Posters		E			
Celebrating IYC 2011 <i>IYC</i>			A		
Chemistry by Design: Building at the Molecular Level**			D		
Advances in Teaching Organic Chemistry			D		
Improving the Academic Laboratory Experience			D		
Writing & Peer Review in Large Chemistry Classes			P		
Engaging Chemistry Departments in Preparing Future Teachers**				A	
Personal Response Systems in the Classroom: Clicking Our Way to More Learning?				A	
NSF-Catalyzed Innovations in the Undergraduate Curriculum				D	
Current Practice & Research Using ACS Exams				P	
Science Education & Civic Engagement: The Next Level				P	
Chemical Education for the Masses: Lectures, Labs & Strategies for Large Enrollment Classes					A

**Division of Chemical Education (continued)**
**CHED**
*I. Levy, J. March, W. Jones, Program Chairs*

Sheraton Denver Downtown Hotel	S	M	Tu	W	Th
Animations & Simulations: What Are Their Pedagogic Roles?					D
General Papers					D
Empowering Tomorrow's Science Super Heroes* (PRES)	A				
Science on the Hollywood Screen* (PRES)	P				
Resource-Efficient Chemistry: Energy, Electrochemistry & Environment* (IAC)	P				
Honoring Marie Curie, Local Women Chemists Celebrate IYC* (WCC)		E			
IYC 2011: A Philatelic Celebration* (HIST)			A		

**Division of Chemical Health & Safety**
**CHAS**
*D. Decker, Program Chair*

Colorado Convention Center	S	M	Tu	W	Th
Division of Chemical Health & Safety Awards**	P				
Improving Safety Culture: You, Too, Can Effect Change**		P			
Sci-Mix		E			
Health Effects of Nanotechnology** <i>IYC-4</i>			A		
Field Operations: How Not To Hurt Yourself in the Field**			A		

**Division of Chemical Information**
**CINF**
*R. Bienstock, Program Chair*

Colorado Convention Center	S	M	Tu	W	Th
Chemical Environmental Specific Databases & Searching Information Related to the Air, Water & our Environment <i>IYC-1</i>	A				
Nontraditional Careers	P				
CINF Scholarship for Scientific Excellence	E				
Chemistry in Mobile Spaces		D			
Herman Skolnik Award Symposium			D		
General Papers				D	
CINFflash				P	

# PROGRAM SUMMARY

## Division of Chemical Information **C I N F** (continued)

*R. Bienstock, Program Chair*

Colorado Convention Center	S	M	Tu	W	Th
Computational Approaches to Spectroscopy Analysis* (COMP)	A				
Empowering Tomorrow's Science Super Heroes* (PRES)	A				
Science on the Hollywood Screen* (PRES)	P				
Cheminformatics Aspects of High-Throughput Screening: From Robots to Models* (COMP)	P	A			
Bioinformatics* (COMP)		A			
Challenges in Industrial Computational Methods* (COMP)			D	D	
Material Science* (COMP)			P	P	P

## Division of Chemical Toxicology **T O X I**

*S. Sturla, Program Chair*

Colorado Convention Center	S	M	Tu	W	Th
General Papers	A				
Founders Award <i>IYC-4</i>	P				
Young Investigator Symposium		A			
Human Exposure & Responses to Toxins from the Air & Water** <i>IYC-1,4</i>		P		A	
Perspectives Lecture <i>IYC-4</i>		P			
Sci-Mix		E			
Drug Safety** <i>IYC-4</i>			P		
General Posters			E		
Bioanalytical Platforms in Biomarker Discovery & Development**				P	
Chemistry & Biology of Redox-Mediated Toxicity* (BIOL)			A		
Bioanalytical Platforms in Biomarker Discovery & Development* (ANYL)				A	

## Division of Chemistry & the Law **C H A L**

*J. Hasford, K. Bianco, Program Chairs*

Colorado Convention Center	S	M	Tu	W	Th
Strengthening Your Patent Rights in Light of Recent Federal Circuit Court Decisions	A				
Improving Solubility of Orally Available Drugs: Patenting Improvements for a Lifecycle Opportunity	P				
Beyond the Bench: Nontraditional Careers in Chemistry**		A			
Sci-Mix		E			
Forensic Science, Chemistry & the Law			D		
Green & Advanced Technologies: Protection & Regulation				A	
The Many Faces of CHAL: Where Chemistry Meets the Law				P	A
Chemistry Plus [Business] = Opportunity* (BMGT)		P			
Human Exposure & Responses to Toxins from the Air & Water* (TOXI)				A	

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## Division of Colloid & Surface Chemistry

COLL

R. Nagarajan, Program Chair

Colorado Convention Center	S	M	Tu	W	Th
Environmental Impact of Surfactants, Colloids & Nanomaterials** <i>IYC-1,3</i>	A	E			
Energetic Chemistry at Solid & Liquid Interfaces**	D	DE			
Reactive Properties of Environmental Interfaces** <i>IYC-3</i>	D	DE			
Honoring Eli Ruckenstein at 86: Colloid & Surface Chemistry: Looking Back & Looking Forward** <i>IYC</i>	D	D	A		
Basic Research in Colloidal & Nanomaterial Systems	P				
Polyelectrolyte Complexes & Multilayers <i>IYC-3</i>	P	DE	A	D	D
Functional Nanoparticles for Bioanalysis & Bioelectronic Devices <i>IYC-3</i>		DE	A	D	D
Fundamental Research in Colloid & Surface Science <i>IYC-3</i>		E			
Nanomedicine: Colloid & Surface Science <i>IYC-3,4</i>		E	A	D	D
Langmuir Award Lectures <i>IYC-3</i>			P		
Advances in Surfactants & Colloidal Systems <i>IYC-3</i>				D	D
Advances in SERS & Molecular Plasmonics* (PHYS)	D	D	D	DE	A
Gibbs Medal Centennial* (HIST)	P	P			
Heterogeneous Atmospheric Chemistry* (PHYS)	P	D	A	DE	A
Mechanisms of Nonclassical Mineralization: Understanding the Roles of Prenucleation Clusters, Transient Precursor Phases, Aggregation & Oriented Attachment* (GEOC)		D	A		
Assessing the Effective Reactivity of Aggregated Environmental Nanomaterials* (GEOC)			A		

## Division of Computers in Chemistry

COMP

E. Esposito, S. Wildman, Program Chairs

Colorado Convention Center	S	M	Tu	W	Th
Computational Approaches to Spectroscopy Analysis**	A				
Computational Study of Water <i>IYC-1</i>	A	D			
Battery Science & Computational Chemistry <i>IYC-2</i>	D	D			
Computational Modeling of Photocatalysis & Photoinduced Charge Transfer Dynamics on Surfaces	D	D	D	D	D
Molecular Mechanics**	D	A	A		A
Cheminformatics Aspects of High-Throughput Screening: From Robots to Models**	P	A			
Emerging Technologies in Computational Chemistry**	P				
Quantum Chemistry**	P	P	P		A
Bioinformatics**		A			
Mining Protein-Ligand Interaction Space**		P	D		
Sci-Mix		E			
Drug Discovery <i>IYC-4</i>			A	P	D
Challenges in Industrial Computational Methods**			D	D	
Material Science** <i>IYC-1</i>			P	P	P
Chemical Computing Group Excellence Award**			E		
Hewlett-Packard Outstanding Junior Faculty Award**			E		
Poster Session			E		
Drug Discovery: Target-Based				A	
Membranes** <i>IYC-1</i>				A	
Predicting & Disrupting Protein Interactions				D	D
Pushing the Envelope: Computational Chemistry at the Petascale & Beyond* (PHYS)	D	D	D	E	
Reduced Density Matrices in Quantum Chemistry & Physics* (PHYS)	D	D	D	D	A

# PROGRAM SUMMARY

## Division of Environmental Chemistry

ENVR

*D. Dionysiou, Program Chair*

Sheraton Denver Downtown Hotel	S	M	Tu	W	Th
Environmental Implications & Applications of Waste from the Power Industry <i>IYC-1</i>	A			E	
Air-Surface Interactions: Chemistry from Molecular to Global Climate Scales** <i>IYC-1</i>	D	D		E	
Heterogeneous Catalysis for Sustainable Energy Applications** <i>IYC-1,2</i>	D			E	
Environmental Mass Transport Phenomena <i>IYC-1</i>	D			E	
Degradation of Biomolecules in the Environment <i>IYC-1</i>	P			E	
Black Carbon & Biochar for Soil Fertility & Carbon Sequestration** <i>IYC-1</i>		D		E	
Chemistry of Hydroxyl Radicals in Natural & Engineered Aqueous Systems** <i>IYC-1</i>		D		E	
Behavior & Fate of Contaminants in Vadose Zone Environments** <i>IYC-1</i>		D		E	
Sci-Mix		E			
Effects of Wildfire on Watersheds & Water Supply <i>IYC-1</i>			A	E	
Atmospheric Aerosols: Chemistry, Clouds & Climate** <i>IYC-1</i>			D	DE	A
Reaction Mechanisms in Environmental Organic Chemistry** <i>IYC-1</i>			D	AE	
Veterinary Pharmaceuticals in the Environment** <i>IYC-1</i>			D	A	
C. Ellen Gonter Environmental Chemistry Awards Symposium <i>IYC-1</i>			P		
Chemistry of Coastal Zones <i>IYC-1</i>				AE	
Abiotic & Biotic Interactions at Nano-Scale Interfaces** <i>IYC-1</i>				PE	
Interactions between Ionizable Organic Chemicals & Organic Matter <i>IYC-1</i>				PE	
Novel Solutions to Water Pollution <i>IYC-1</i>				PE	A
Emerging Issues & Solutions for Sustainable Water & Wastewater Systems <i>IYC-1</i>				E	D
General Posters				E	
Receptor Modeling for Source Apportionment & Degradation Assessment of Organic Chemicals in the Aquatic Environment <i>IYC-1</i>				E	A

## Division of Environmental Chemistry (continued)

ENVR

*D. Dionysiou, Program Chair*

Sheraton Denver Downtown Hotel	S	M	Tu	W	Th
Urban Greenhouse Gas Emissions, Climate Change & Mitigating Impacts** <i>IYC-1</i>				E	P
Bridging the Gap Between Science & Environmental Policy <i>IYC-1</i>					P
Breakfast & Conversation with Climate Experts* (SCHB)	A				
Environmental Impact of Surfactants, Colloids & Nanomaterials* (COLL)	A				
Global Climate Change* (SCHB)	A				
Exploring the Interiors of Planets* (CASW)	D				
Emission Control Technologies in Production & Utilization of Fuels & Energy* (FUEL)	D				
Greenhouse Gas Emissions: Control, Conversion & Utilization for Fuels & Energy Production* (FUEL)	D	D	P		
Heterogeneous Atmospheric Chemistry* (PHYS)	P	D	A	DE	A
Analytical Challenges for Crop Protection Products* (AGRO)	P				
Chemistry of Air, Space & Water Plenary* (CASW)	P				
Nitrogen & the Human Endeavor: Chemistry, Effects & Solutions* (CASW)		D			
Undergraduate Poster Session* (CHED)		P			
Emerging Energy & Fuel Technologies: Solar Hydrogen Production* (FUEL)		P	A		
Human Exposure & Responses to Toxins from the Air & Water* (TOXI)		P		A	

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## Division of Fluorine Chemistry

FLUO

*M. Etzkorn, Program Chair*

Colorado Convention Center	S	M	Tu	W	Th
Honoring Donald J. Burton: Fluorine Chemistry the Iowa Way	A	A	A	A	A
ACS Award for Creative Work in Fluorine Chemistry: Honoring Alain Tressaud	P	P	P	P	
Poster Session	E				

## Division of Fuel Chemistry

FUEL

*V. Subramani, Program Chair*

Embassy Suites Denver — Downtown Convention Center	S	M	Tu	W	Th
Emerging Energy & Fuel Technologies: Batteries, Solar Cells & Alternative Fuels** <i>IYC-2</i>	D	A			
Hydrogen, Syngas & C1 Catalytic Chemistry** <i>IYC-2</i>	D	D	D		
Computational Methods, Modeling & Simulations in Fuel & Energy Technologies** <i>IYC-2</i>	D	D	D	A	
Greenhouse Gas Emissions: Control, Conversion & Utilization for Fuels & Energy Production** <i>IYC-1,2</i>	D	D	D		
Emission Control Technologies in Production & Utilization of Fuels & Energy: NO <sub>x</sub> , SO <sub>x</sub> , VOC, Heavy Metals & Fine Particulate Matter** <i>IYC-1</i>	D	A			
Recent Advances in Fuels, Energy & Environmental Technologies** <i>IYC-2</i>		P			
Fuel Cells Chemistry & Operation** <i>IYC-2</i>		P	D	D	A
Emerging Energy & Fuel Technologies: Solar Hydrogen Production**		P	D		
Advances in Coal Conversion Chemistry** <i>IYC-2</i>			P	D	A
Green Chemistry for Sustainable Production of Fuels, Chemicals & Energy** <i>IYC-1,2</i>				D	A
Advances in Membranes & Separation Science & Technology for Fuels & Energy Production** <i>IYC-2</i>				D	
Hydrogen Storage: Advances & Future Challenges** <i>IYC-2</i>				D	A

## Division of Fuel Chemistry (continued)

FUEL

*V. Subramani, Program Chair*

Embassy Suites Denver — Downtown Convention Center	S	M	Tu	W	Th
Heavy Hydrocarbon Resources: Characterization, Upgrading & Utilization** <i>IYC-2</i>				P	A
Empowering Tomorrow's Science Super Heroes* (PRES)	A				
Heterogeneous Catalysis for Sustainable Energy Applications* (ENVR)	D			E	
Nanotechnology in the Oil & Geothermal Industry* (PETR)	D				
Renewable Alternatives to Petroleum: Biomass for Advanced Energy & Fuel Production* (PETR)	D				
Science on the Hollywood Screen* (PRES)	P				
Honoring Chunshan Song, PETR Distinguished Researcher* (PETR)		D	D	A	
7th International Symposium on Hydrotreating/Hydrocracking Technologies* (PETR)			D	D	
Advances in Energy, Fuels & Petroleum Technologies* (PETR)		P			
Flow Assurance To Improve Efficiencies in Upstream Resource Development* (PETR)					A
Chemistry of Petroleum & Emerging Technologies* (PETR)				P	A

## Division of Geochemistry

GEOC

*R. L. Penn, Program Chair*

Sheraton Denver Downtown Hotel	S	M	Tu	W	Th
Uptake & Incorporation of Radionuclides in Minerals	D	A			
Mechanisms of Nonclassical Mineralization: Understanding the Roles of Prenucleation Clusters, Transient Precursor Phases, Aggregation & Oriented Attachment**		D	A		
Sci-Mix		E			
Assessing the Effective Reactivity of Aggregated Environmental Nanomaterials** <i>IYC-1,3</i>			A		



# PROGRAM SUMMARY

## Division of Geochemistry (continued)

### GEOC

*R. L. Penn, Program Chair*

Sheraton Denver Downtown Hotel	S	M	Tu	W	Th
Multiscale Spatiotemporal Complexity in Geologic Carbon Sequestration: Linking Experimentation & Modeling			D	D	
Recent Advances in Nontraditional Stable Isotope Geochemistry			P		
Electron Transfer at Mineral Surfaces & Biogeochemical Implications				D	
Environmental Impact of Surfactants, Colloids & Nanomaterials* (COLL)	A				
Empowering Tomorrow's Science Super Heroes* (PRES)	A				
Nanotechnology in the Oil & Geothermal Industry* (PETR)	D				
Reactive Properties of Environmental Interfaces* (COLL)	D	D			
Science on the Hollywood Screen* (PRES)	P				
Understanding Behavior & Fate of Contaminants in Vadose Zone Environments* (ENVR)		D		E	
Reaction Mechanisms in Environmental Organic Chemistry* (ENVR)			D	AE	
Chemistry by Design: Building at the Molecular Level* (CHED)			D		
Abiotic & Biotic Interactions at Nano-Scale Interfaces* (ENVR)				PE	

## Division of the History of Chemistry

### HIST

*S. Rasmussen, Program Chair*

Sheraton Denver Downtown Hotel	S	M	Tu	W	Th
Gibbs Medal Centennial**	P	P			
General Papers		A			
Sci-Mix		E			
IYC 2011: A Philatelic Celebration**			A		
Profiles of Past ACS Presidents**			P		
Empowering Tomorrow's Science Super Heroes* (PRES)	A				
Science on the Hollywood Screen* (PRES)	P				

## Division of Industrial & Engineering Chemistry

### I & EC

*M. Moore, M. Gonzalez, Program Chairs*

Colorado Convention Center	S	M	Tu	W	Th
Recycling Carbon: Catalyzed Conversion of Nonfood Biomass to Fuels & Chemicals** <i>IYC-2</i>	P	D	D		
Honoring Guerino Sacripante, I&EC Fellow		P			
Sci-Mix		E			
Graduate Symposium <i>IYC</i>			D		
Nanomanufacturing for Energy <i>IYC-2</i>				A	
Water Treatment Chemistry**				D	
General Posters				P	
General Papers					D
Empowering Tomorrow's Science Super Heroes* (PRES)	A				
Hydrogen, Syngas & C <sub>1</sub> Catalytic Chemistry* (FUEL)	D	D	D		
Gibbs Medal Centennial* (HIST)	P	P			
Science on the Hollywood Screen* (PRES)	P				

## Division of Inorganic Chemistry

### INOR

*S. Koch, N. Radu, Program Chairs*

Colorado Convention Center	S	M	Tu	W	Th
Chemistry of Materials <i>IYC-3</i>	AE	A		P	
Lanthanide & Actinide Chemistry	AE	P			
Organometallic Chemistry <i>IYC-3</i>	AE		DE	DE	
Frontiers in C-H Activation & Functionalization	D	D			
Nanoscience	D	D	E	D	
Materials Chemistry for Solar Energy Capture <i>IYC-1,3</i>	DE	D			
Fifty Years of Inorganic Chemistry	P	D	DE		

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†Probationary division.

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

Colorado Convention Center	S	M	Tu	W	Th
Young Investigator Symposium	P				
Inorganic Spectroscopy	PE				
Environmental Aspects of Inorganic Chemistry <i>ICY-1</i>	E		P		
Inorganic Catalysts		A	AE	A	
Electrochemistry		P	E		
Sci-Mix		E			
ExxonMobil Solid State Chemistry Faculty Fellow Award**			A		
Bioinorganic Chemistry			AE		
Toward Earth Abundant Solar Photocatalysis <i>ICY-2</i>			D	DE	
Coordination Chemistry			P	DE	
Inorganic Nanoscience Award: Honoring Catherine J. Murphy**			P		
Main Group Chemistry				AE	
Empowering Tomorrow's Science Super Heroes* (PRES)	A				
Gibbs Medal Centennial* (HIST)	P	P			
Recycling Carbon: Catalyzed Conversion of Nonfood Biomass to Fuels & Chemicals* (I&EC)	P	D	D		
Science on the Hollywood Screen* (PRES)	P				
Resource-Efficient Chemistry: Energy, Electrochemistry & Environment* (IAC)	P				
Celebration of the 100th Anniversary of Marie Curie's Nobel Prize in Chemistry* (NUCL)	P	D	A		
Undergraduate Poster Session* (CHED)		P			
Reaction Mechanisms in Environmental Organic Chemistry* (ENVR)			D	AE	
Chemistry by Design: Building at the Molecular Level* (CHED)			D		

**Division of Medicinal Chemistry**
**MEDI**
*J. Barrish, Program Chair*

Colorado Convention Center	S	M	Tu	W	Th
siRNA <i>ICY-4</i>	A				
General Oral Session**	D		A		A

**Division of Medicinal Chemistry  
(continued)**
**MEDI**
*J. Barrish, Program Chair*

Colorado Convention Center	S	M	Tu	W	Th
First Time Disclosure of Clinical Candidate** <i>ICY-4</i>	P				
General Poster Session**	E			E	
Innovation in the 21st Century: The Evolution of Drug Discovery <i>ICY-4</i>		A			
Making a Large Impact Through Medicinal Chemistry on Proteins: Methods, Applications to Drug Discovery & Recent Clinical Results** <i>ICY-4</i>		A			
A Medicinal Chemist's Toolbox: Taking Inventory** <i>ICY-4</i>		P			
E. B. Hershberg Award for Important Discoveries in Medicinally Active Substances: Honoring Richard B. Silverman <i>ICY-4</i>		P			
Antithrombotic Therapy <i>ICY-4</i>		P			
Sci-Mix		E			
MEDI Awards Symposium** <i>ICY-4</i>			A		
GPCR PAMs, NAMs & SAMs: A New Way to Affect GPCR Receptors** <i>ICY-4</i>			P		
Tissue-Selective Therapeutic Agents <i>ICY-4</i>			P		
Targeting Tumor Stem Cells <i>ICY-4</i>				A	
Drug Discovery Research Centers <i>ICY-4</i>				D	
Exploiting the Metabolic Differences between Normal & Cancer Cells <i>ICY-4</i>					P
Huntington's Disease: Recent Advances in Disease Diagnosis & Potential Disease Modifying Therapeutics <i>ICY-4</i>					P
From Paper to PK Profile without Synthesis: Everything a Medicinal Chemist Needs To Know About Predictive DMPK <i>ICY-4</i>					A
Empowering Tomorrow's Science Super Heroes* (PRES)	A				
Science on the Hollywood Screen* (PRES)	P				
Cheminformatics Aspects of High-Throughput Screening: From Robots to Models* (COMP)	P	A			
Bioinformatics* (COMP)		A			
Undergraduate Poster Session* (CHED)		P			
Chemistry by Design* (CHED)				D	
Drug Safety* (TOXI)				P	
Membranes* (COMP)					A

# PROGRAM SUMMARY

## Division of Nuclear Chemistry & Technology NUCL

*M. Bronikowski, K. Nash, Program Chairs*

Colorado Convention Center	S	M	Tu	W	Th
Nuclear Chemistry in Space	A				
Celebration of the 100th Anniversary of Marie Curie's Nobel Prize in Chemistry** <i>IYC</i>	P	D	A		
Analytical Chemistry in Nuclear Technology**		D	D	D	A
Young Investigators Research in Nuclear & Radiochemistry			P	D	A

## Division of Organic Chemistry ORGN

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

Colorado Convention Center	S	M	Tu	W	Th
Young Investigators	A				
Asymmetric Reactions & Syntheses	D	A			
Catalysis Needs for Drug Discovery, Development & Commercialization <i>IYC-4</i>	D				
Metal-Mediated Reactions & Syntheses	D	A			
New Reactions & Methodology	D	D	A		
EPA Presidential Green Chemistry Award Winners: Research & Applications <i>IYC-1</i>	P				
Heterocycles & Aromatics, New Reactions & Methodology	E				
Process Chemistry: New Developments in Pharmaceutical Process Development <i>IYC-4</i>		A			
Supramolecular Chemistry for Organic Materials Design**		D			
Heterocycles & Aromatics		P	D		
Material, Devices & Switches <i>IYC-3</i>		P	D		
Tetrahedron Prize for Creativity in Organic Chemistry		P			
Sci-Mix		E			
Arthur C. Cope & Arthur C. Cope Scholars Award Symposium**			D		
Biologically Related Molecules & Processes			D		
Young Academic Investigators			D		
Molecular Recognition & Self-Assembly			P	D	
Materials, Devices & Switches; Molecular Recognition & Self-Assembly; Physical Organic Chemistry; Total Synthesis of Complex Molecules			E		

## Division of Organic Chemistry (continued) ORGN

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

Colorado Convention Center	S	M	Tu	W	Th
Transition-Metal-Catalyzed Formation of C-X Bonds				A	
Physical Organic Chemistry: Calculations, Mechanisms, Photochemistry & High-Energy Species				D	
Total Synthesis of Complex Molecules				D	
Technical Achievements in Organic Chemistry Symposium				D	
Peptides, Proteins & Amino Acids				P	
Asymmetric Reactions & Processes; Biologically Related Molecules & Processes; Metal-Mediated Reactions & Syntheses; Peptides, Proteins & Amino Acids				E	
General Poster Session* (MEDI)				E	
Metal-Containing & Metallo-Supramolecular Polymers & Materials* (POLY)	D	D	D	D	D
Gibbs Medal Centennial* (HIST)	P	P			
Chemistry by Design: Building at the Molecular Level* (CHED)			D		

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**Division of Petroleum Chemistry**
**P E T R**
*T. Gardner, Program Chair*

Embassy Suites Denver—Downtown Convention Center	Su	M	Tu	W	Th
Nanotechnology in the Oil & Geothermal Industry** <i>ICY-2,3</i>	D				
Renewable Alternatives to Petroleum: Biomass for Advanced Energy & Fuel Production** <i>ICY-1,2</i>	D				
Honoring Chunshan Song, PETR Distinguished Researcher** <i>ICY-2</i>		D	D	A	
7th International Symposium on Hydrotreating/Hydrocracking Technologies** <i>ICY-2</i>		D	D		
Advances in Energy, Fuels & Petroleum Technologies**		P			
Flow Assurance To Improve Efficiencies in Upstream Resource Development** <i>ICY-2,3</i>				A	
Chemistry of Petroleum & Emerging Technologies** <i>ICY-2,3</i>				P	A
Emerging Energy & Fuel Technologies: Batteries, Solar Cells & Alternative Fuels* (FUEL)	D	A			
Hydrogen, Syngas & C1 Catalytic Chemistry* (FUEL)	D	D	D		
Computational Methods, Modeling & Simulations in Fuel & Energy Technologies* (FUEL)	D	D	D	A	
Greenhouse Gas Emissions: Control, Conversion & Utilization for Fuels & Energy Production* (FUEL)	D	D	D		
Emission Control Technologies in Production & Utilization of Fuels & Energy* (FUEL)	D	A			
Gibbs Medal Centennial* (HIST)	P	P			
Recent Advances in Fuels, Energy & Environmental Technologies* (FUEL)		P			
Fuel Cells Chemistry & Operation * (FUEL)		P	D	D	A
Emerging Energy & Fuel Technologies: Solar Hydrogen Production* (FUEL)		P	D		
Advances in Coal Conversion Chemistry* (FUEL)			P	D	A
Green Chemistry for Sustainable Production of Fuels, Chemicals & Energy* (FUEL)				D	A

**Division of Petroleum Chemistry (continued)**
**P E T R**
*T. Gardner, Program Chair*

Embassy Suites Denver—Downtown Convention Center	Su	M	Tu	W	Th
Advances in Membranes & Separation Science & Technology for Fuels & Energy Production* (FUEL)				D	
Hydrogen Storage: Advances & Future Challenges* (FUEL)				D	A
Heavy Hydrocarbon Resources: Characterization, Upgrading & Utilization * (FUEL)				P	A

**Division of Physical Chemistry**
**P H Y S**
*S. Hammes-Schiffer, Program Chair*

Colorado Convention Center	S	M	Tu	W	Th
Advances in SERS & Molecular Plasmonics**	D	D	D	DE	A
Excited State Dynamics: Theory & Experiment	D	D	D	DE	A
From Ultrafast Electron Transfer to Single-Molecule Spectroscopy: Forces Driving Contemporary Themes in Physical Chemistry	D	D	P	DE	A
Pushing the Envelope: Computational Chemistry at the Petascale & Beyond**	D	D	D	E	
Reduced Density Matrices in Quantum Chemistry & Physics**	D	D	D	D	A
Honoring the 100th Anniversary of Marie Curie's Nobel Prize for International Year of Chemistry** <i>ICY</i>	D	D	D	D	
Heterogeneous Atmospheric Chemistry**	P	D	A	DE	A
Advanced Microscopy Techniques for Biophysical Questions**		D	D	D	A
Sci-Mix		E			
Physical Chemistry Poster Session				E	
Computational Approaches to Spectroscopy Analysis* (COMP)	A				
Energetic Chemistry at Solid & Liquid Interfaces* (COLL)	A				
Empowering Tomorrow's Science Super Heroes* (PRES)	A				
Air-Surface Interactions: Chemistry from Molecular to Global Climate Scales* (ENVR)	D	D		E	

# PROGRAM SUMMARY

## Division of Physical Chemistry (continued)

**PHYS**

*S. Hammes-Schiffer, Program Chair*

Colorado Convention Center	S	M	Tu	W	Th
Exploring the Interiors of Planets* (CASW)	D				
Molecular Mechanics* (COMP)	D		A		A
Gibbs Medal Centennial* (HIST)	P	P			
New Frontiers in Single Molecules Detection & Single Cell Analysis* (ANYL)	P				
Science on the Hollywood Screen* (PRES)	P				
Quantum Chemistry* (COMP)	P	P	P		A
Chemistry of Air, Space & Water Plenary* (CASW)	P				
Atmospheric Aerosols: Chemistry, Clouds & Climate* (ENVR)			D	DE	A
Chemistry as a Tool for Space Exploration & Discovery at Mars* (CASW)			D	D	
Chemistry by Design: Building at the Molecular Level* (CHED)			D		

## Division of Polymer Chemistry (continued)

**POLY**

*K. Kiick, G. Tew, J. Linhardt, Program Chairs*

Sheraton Denver Downtown Hotel	S	M	Tu	W	Th
DSM Polymer Technology Award: Polymers at the Biology-Materials Science Interface <i>IYC-3</i>			P		
Mark Scholar Award: Honoring Timothy E. Long <i>IYC-3</i>			P		
Polymers in Water Purification <i>IYC-3</i>			P	A	
Mark Senior Scholar Award: Honoring Jimmy Mays <i>IYC-3</i>				A	
Biomimetic Polymers** <i>IYC-4</i>				D	D
Fluorine-Containing Polymers <i>IYC-3</i>				D	A
POLY/PMSE Plenary Lecture & Awards Reception**				E	
Supramolecular Chemistry for Organic Materials Design* (ORGN)		D			
Undergraduate Poster Session* (CHED)		P			

## Division of Polymer Chemistry

**POLY**

*K. Kiick, G. Tew, J. Linhardt, Program Chairs*

Sheraton Denver Downtown Hotel	S	M	Tu	W	Th
Controlled Radical Polymerization** <i>IYC-3</i>	D	D	D	D	A
Polymer Coatings for the Environment, Energy & Sustainability <i>IYC-1,2,3</i>	D	D	A		
$\pi$ -Conjugated Polymers: Synthesis & Applications <i>IYC-3</i>	D	D	A		
Aerospace Applications of Polymers <i>IYC-3</i>	D	D	A		
General Topics in the Design, Synthesis & Characterization of Polymers <i>IYC-3</i>	D	D		P	A
Metal-Containing & Metallo- Supramolecular Polymers & Materials** <i>IYC-3</i>	D	D	D	D	D
Mark Young Scholar Award: Honoring Javid Rzayev <i>IYC-3</i>		P			
Sci-Mix		E			
AkzoNobel Award for Outstanding Graduate Research in Polymer Chemistry** <i>IYC-3</i>			A		
Metal-Containing & Metallo- Supramolecular Polymers & Materials <i>IYC-3</i>			A		
Advances in Polymer Composites <i>IYC-3</i>			DE	D	D

## Division of Polymeric Materials: Science & Engineering

**PMSE**

*J. Pyun, A. Nelson, C. Stafford, Program Chairs*

Sheraton Denver Downtown Hotel	S	M	Tu	W	Th
ACS Award for Team Innovation: Honoring Patricia Burns, Chieh-Min Cheng, Grazyna Kmiciek-Lawrynowicz & Tie Hwee Ng** <i>IYC-3</i>	D	A			
PET Recycling: Bridging the Gaps through Innovation** <i>IYC-1,3</i>	D				
Roy W. Tess Award: Honoring Dean C. Webster** <i>IYC-3</i>	D				
Joint PMSE/POLY Poster Session	D	D	D	D	
Function through Macromolecular Assembly** <i>IYC-2</i>		D	D	A	
Porous Polymers <i>IYC-3</i>		D	D	A	

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## Division of Polymeric Materials: Science & Engineering (continued)

PMSE

*J. Pyun, A. Nelson, C. Stafford, Program Chairs*

Sheraton Denver Downtown Hotel	S	M	Tu	W	Th
AkzoNobel Student Award Symposium** <i>IYC-3</i>		P			
Sci-Mix		E			
Symposium in Memory of Professor Anne Hiltner <i>IYC-3</i>			D	D	
Dynamics of Nanostructured Polymers <i>IYC-3</i>				P	D
General Papers/New Concepts in Polymeric Materials				P	D
Metal-Containing & Metallo-Supramolecular Polymers & Materials* (POLY)	D	D	D	D	D
Supramolecular Chemistry for Organic Materials Design* (ORGN)		D			
Fuel Cells Chemistry & Operation* (FUEL)		P	D	D	A
Undergraduate Poster Session* (CHED)		P			
AkzoNobel Award for Outstanding Graduate Research in Polymer Chemistry* (POLY)			A		
Material Science* (COMP)			P	P	P

## Division of Professional Relations

PROF

*R. Libby, Program Chair*

Colorado Convention Center	S	M	Tu	W	Th
On the Tenure Track: Was That in My Job Description?*	P				
Empirical Studies on Women of Color in STEM**		A			
Town Hall Forum & Poster Session			P		
Global Climate Change* (SCHB)	A				
Empowering Tomorrow's Science Super Heroes* (PRES)	A				
Science on the Hollywood Screen* (PRES)	P				
Celebration of the 100th Anniversary of Marie Curie's Nobel Prize in Chemistry* (NUCL)	P	D	A		
Issues in Intellectual Property Affecting Small Businesses* (SCHB)		A			

## Division of Professional Relations (continued)

PROF

*R. Libby, Program Chair*

Colorado Convention Center	S	M	Tu	W	Th
Getting Your First Industrial Job* (YCC)		A			
Health Care Reform: Impact on Chemists & the Chemical Industry* (SCHB)		P			
Making Running for Elected Office Part of your Career Path* (SCHB)		P			
Honoring Marie Curie, Local Women Chemists Celebrate IYC* (WCC)		E			
Small Businesses Spin-Offs into the Commercial Sector* (SCHB)			A		
True Stories of Success from Chemical Entrepreneurs* (SCHB)			A		
Best Practices for Entrepreneurs Panel Discussion* (SCHB)			P		

## Division of Small Chemical Businesses

SCHB

*J. Sabol, Program Chair*

Colorado Convention Center	S	M	Tu	W	Th
Breakfast & Conversation with Climate Experts** <i>IYC-1</i>	A				
Global Climate Change**	A				
A Critical Look at Global Warming Data	P				
Issues in Intellectual Property Affecting Small Businesses**		A			
Health Care Reform: Impact on Chemists & the Chemical Industry**		P			
Making Running for Elected Office Part of your Career Path**		P			
Sci-Mix		E			
Small Businesses Spin-Offs into the Commercial Sector**			A		
True Stories of Success from Chemical Entrepreneurs**			A		
Best Practices for Entrepreneurs Panel Discussion**			P		
Water is the Next "Oil": How Small Businesses Are Tapping In** <i>IYC-1</i>				A	
Terahertz Spectroscopy in Materials Characterization <i>IYC-3</i>				P	

# PROGRAM SUMMARY

## Committee on Science

### COMSCI

*D. Nelson, Program Chair*

Hyatt Regency Denver at Colorado Convention Center	S	M	Tu	W	Th
Financing Your Intellectual Property for Commercialization		P			
A Sustainable Future: Interface of Energy, Food, Water & Climate Sustainability** <i>IYC-1</i>			A		
Empowering Tomorrow's Science Super Heroes* (PRES)	A				
Gibbs Medal Centennial* (HIST)	P	P			
Science on the Hollywood Screen* (PRES)	P				

## International Activities Committee

### I A C

*J. Benham, Program Chair*

Colorado Convention Center	S	M	Tu	W	Th
Resource-Efficient Chemistry: Energy, Electrochemistry & Environment**	P				

## Society Committee on Education

### SOCED

*M. Carroll, Program Chair*

Sheraton Denver Downtown Hotel	S	M	Tu	W	Th
Technical Symposium: Pharmaceutical Chemistry <i>IYC-4</i>	A				
Careers in Chemistry	P				
Eminent Scientist Lecture & Luncheon		A			
PET Recycling: Bridging the Gaps through Innovation* (PMSE)	A				
High School Program* (CHED)	D				
Undergraduate Poster Session* (CHED)		P			
Honoring Marie Curie, Local Women Chemists Celebrate IYC* (WCC)		E			
Engaging Chemistry Departments in Preparing Future Teachers* (CHED)				A	

## Women Chemists Committee

### W C C

*A. Charlebois, J. Iriarte-Gross, Program Chairs*

Colorado Convention Center	S	M	Tu	W	Th
Honoring Marie Curie, Local Women Chemists Celebrate IYC** <i>IYC</i>		E			
ACS Award for Team Innovation: Honoring Patricia Burns, Chieh-Min Cheng, Grazyna Kmiecik-Lawrynowicz & Tie Hwee Ng* (PMSE)	D	A			
Celebration of the 100th Anniversary of Marie Curie's Nobel Prize in Chemistry* (NUCL)	P	D	A		
ExxonMobil Solid State Chemistry Faculty Fellow Award* (INOR)			A		
Arthur C. Cope & Arthur C. Cope Scholars Award Symposium* (ORGN)			D		
Inorganic Nanoscience Award: Honoring Catherine J. Murphy* (INOR)			P		

## Younger Chemists Committee

### Y C C

*A. Myers, S. Pazicni, Program Chairs*

Colorado Convention Center	S	M	Tu	W	Th
Getting Your First Industrial Job**		A			
Empowering Tomorrow's Science Super Heroes* (PRES)	A				
On the Tenure Track: Was That in My Job Description? (PROF)	P				
Science on the Hollywood Screen* (PRES)	P				
Chemistry by Design: Building at the Molecular Level* (CHED)			D		

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