Dr. C. Gordon McCarty Selected as Recipient of the 2003 Pittsburgh Award

Established in 1933, the Pittsburgh Award is designed to recognize and honor distinguished service to chemistry in the Pittsburgh community. The Pittsburgh Award Committee is pleased to announce that Dr. C. Gordon McCarty has been selected as the recipient of the 2003 Pittsburgh Award. The award recognizes contributions toward increasing chemical knowledge, promoting industry, benefiting humanity or advancing the Pittsburgh Section. The award dinner will be part of the Central Regional Meeting on Tuesday, October 21, 2003.

Dr. McCarty received his B.S. and M.S. degrees in Chemistry from the University of Wichita and his Ph.D. degree in Physical-Organic Chemistry from the University of Illinois in Champaign-Urbana. After a year as a NSF Postdoctoral Fellow at the University of Colorado, he joined the faculty of the Chemistry Department at West Virginia University in Morgantown in 1964 and rose through the ranks to become Professor of Chemistry several years before he left academia for industry in 1980. He joined Mobay Chemical Company in New Martinsville, West Virginia and later was transferred from there to the Mobay Corporate Headquarters in Pittsburgh. He was with the company there, as it became Bayer USA, Miles, Inc. and finally Bayer Corporation. In 1999, he retired from Bayer as the Manager of University Relations and moved in the year 2000 to Dataw Island, SC where he now resides with his wife, Robin.

Dr. McCarty has been active in five local sections of the ACS, has chaired two of those sections and served in many other local section positions. He has been a Councilor for over 15 years, has served on numerous ACS national committees and has chaired the Local Section Activities Committee and ACS Corporation Associates. He is now in his second 3-year term as Director-at-Large of the ACS.

For more information about attending the Award Dinner please see the Central Regional Meeting website at http://membership.acs.org/P/Pitt/crm.html or contact Kay Bilal at 304/723-2358 or bilal988@cs.com

2003 Directory of Pittsburgh Section Officers and Committee Chairs Available Online Through Pittsburgh Section Website

A complete directory of names, phone numbers, and addresses for Pittsburgh Section officers and committee chairs can be found on the section’s website.

http://membership.acs.org/P/Pitt
The Technical Program

The technical program offers a full schedule of oral and poster sessions covering a variety of topics, including a special symposium organized and presented by the Pittsburgh Bioinorganic Chemistry Conference. Where session speakers have been confirmed, information is presented. In other cases, information will be listed when available at the CRM web site: http://membership.acs.org/P/Pitt/crm.html.

Pittsburgh Bioinorganic Chemistry Conference

The Pittsburgh Bioinorganic Chemistry Conference will contribute a one-day symposium at CRM to celebrate the bioinorganic chemistry of Pittsburgh region's universities in conjunction with the 100th Anniversary of the ACS Pittsburgh Section. This will take place Monday, October 20, beginning at 8:30 am. Topics will vary to touch upon the many aspects of bioinorganic chemistry representative of the fine contributions made in the Pittsburgh area.

At 7:00 pm, Professor Christopher Orvig, University of British Columbia (Vancouver), will lead a special presentation on “Insulin-enhancing Vanadium Compounds.”

Sunday Afternoon, October 19, 2003

ACS Student Affiliate Regional Meeting & Poster Session Panel Discussion on Aviation Chemistry: 100 Years Since Kitty Hawk
- Dr. Bruce Beaver, (Duquesne University) Gasoline to Jet Fuels and Beyond
- Dr. Rob Sanders, ALCOA R&D Co. Aerospace Metallurgy
- Speaker to be announced “Airplane Coatings”
- Speaker to be announced “Solid State Chemistry and Communications”

CHEMAGINATION Contest for High School Students: Wright Brothers Anniversary Related Poster & Project Competition

Sunday Evening, October 19, 2003

Reception & Plenary Lecture: John B. Fenn
(Virginia Commonwealth University)
“Electrospray Wings for Molecular Elephants”

Monday Morning, October 20, 2003

Nanoscience 1

Today’s nanoscience is aimed at learning how to make novel nanoscale materials and devices, uncovering how behavior at the nanoscale differs from the macroscopic, discovering the rules that govern the behavior of matter at the nanoscale, designing new tools and techniques that facilitate characterization and manipulation of nanoscale objects; devising schemes that enable the development of long range order with nanoscale objects harnessing the power of (macro)molecular self-organization to mimic the ability of biological systems to control the transformations of matter and energy; learning how to connect our nanoscale objects to the macroscopic world anticipating how nanoscience will change our way of life. The Nanoscience Symposium brings together researchers who are involved in such interdisciplinary pursuits, with the hope of paving the way to future nanotechnologies, which will change our way of life.
- Seth Goldstein (Carnegie Mellon University) Implications of Nanoscale Components on Computing
- Paul Weiss (Pennsylvania State University) Creating Nanostructures through Self- and Directed Assembly
- Hongkoo Kim (University of Pittsburgh) Nanosystems on a Chip Based on self-Organized Nanostructured Wafers
- Rob Dickson (Georgia Institute of Technology) Nanoscale Optoelectronics
- Eric Borguet (University of Pittsburgh) Nanoscale Dynamics at Electrochemical Interfaces

New Reaction Technologies for Organic Chemistry

The symposium focuses on the latest and most advanced reaction methodologies for organic synthesis. Catalyzed asymmetric transformations, among the most important families of methodologies in modern organic synthesis, constitute a central theme for the symposium. The symposium also emphasizes new and emerging methodologies for carbon-carbon bond construction that have provided new paradigms in organic synthesis strategy.
- T. V. Rajanbabu, (Ohio State University) Stereoselective Synthesis with Olefins and Acetylenes: New Ligands and Other Control Elements for Hemegegeneous Catalyzed Reactions
- Paul E. Floreancig, (University of Pittsburgh) Electrophile Formation from Unexpected Sources
- Fraser Fleming, (Duquesne University) Oxonitriles: Multicomponent Grignard Addition-Alkylation
- David M. Barnes, (Abbott Laboratories) Development of a Catalytic Asymmetric Addition of 1,3-Dicarbonyl Compounds to Nitroalkenes in the Synthesis of Endothelin-A Antagonist ABT-546
- Michael Calter, (University of Rochester) TBA
Innovations in Chemical Education

Professor Joseph Grabowski has organized a full day symposium on Innovations in Chemical Education. Five speakers in each the morning and afternoon session of this Monday, 20 October 2003 event, will present some of the most recent and imaginative efforts to enhance student learning primarily at the college level. Several speakers will present novel IT (Information Technology) tools to enhance learning across a range of courses. Other speakers will focus on innovative approaches unique to a specific course such as Research-Oriented Writing (a course for upper division Chemistry majors) or The Chemistry of Art (a course for non-majors). One speaker, the chair of the REU Leadership Group for the NSF Chemistry Division, will discuss the ultimate form of active learning, namely undergraduate research. In this eclectic mix of speakers, topics can be found to interest every chemical educator, ranging from those dealing with first semester students to those focused on students about to graduate, and across all the disciplines of Chemistry. Whether you have time to hear the entire symposium, just one of the two sessions, or even an isolated talk, we look forward to seeing you there.

Innovations in Chemical Education 1
- Richard Hark (Juniata College) The Chemistry of Art: Teaching Science in a Liberal Arts Context
- David Yaron (Carnegie Mellon University) Virtual Labs and Scenario-based Learning for Introductory Chemistry
- Rick Moog (Franklin & Marshall College) Process Oriented Guided Learning: A Student-Centered Approach to Chemistry Education
- John Penn (West Virginia University) A New Element on the Periodic Table - IT - Using the Element of Information Technology (i.e., Computer-assisted Learning) in the Chemistry Classroom
- Elisabeth T. Bell-Loncella (University of Pittsburgh at Johnstown) Synthesis and Characterization: Guided Inquiry and Molecular Modeling in an Upper Level Comprehensive Lab

Innovations in Chemical Education 2
- Marin Robinson (Northern Arizona University) Teaching Research-Oriented Writing Skills to Upper Division Chemistry Majors
- Nancy Levinger (Colorado State University) Undergraduate Research: Developing connected, motivated, and inspired undergraduate students
- Kenneth D. Jordan (University of Pittsburgh) The Third Dimension in Visualization
- Jonathan N. Southard (Indiana University of Pennsylvania) Protein Structure Modeling and Visualization: a discovery process for undergraduates
- Mark Bier (Carnegie Mellon University) Protein Identification Using the Virtual Mass Spectrometry Laboratory

Recent Advances in Polymer Chemistry

Frontiers in Mass Spectrometry

Instrumentation and Applications
- Robert Cotter (Johns Hopkins University)
- David Muddiman (Mayo Clinic)
- Michael Kinter (Cleveland Clinic Foundation)
- Mark E. Bier (Carnegie Mellon University), From 3D to 2D: The Evolution of the Quadrupole Ion Trap Mass Spectrometer

Tissue Engineering

There are millions of surgical procedures performed every year in the United States that require tissue substitutes to repair damaged or diseased organs. Tissue engineering is an emerging technology that has the potential to regenerate organs and tissues. Our keynote speaker is Steve Badylak, MD, PhD, DVM, who will discuss using native materials as tissue engineering scaffolds. Dr. Badylak will describe his research using small intestinal submucosa as a replacement for tissues such as skin, abdominal wall, and blood vessels. Our three additional speakers will discuss soft tissue regeneration using novel synthetic polyurethanes, research with native polymers and their potential in musculoskeletal applications, and research in the area of blood-contacting materials for cardiac assist devices. Their topics range from synthetic materials to native materials for applications in cardiovascular tissue engineering and both hard and soft tissue regeneration.

- Stephan Badylak, (University of Pittsburgh) Keynote Address: The ECM as a Bioscaffold: The Result of Millions of Years of R&D
- William Wagner, (University of Pittsburgh School of Medicine) Soft Tissue Engineering with Biodegradable Elastomers
- Janine Orban (DePuy - a Johnson & Johnson Company) Covalent Cross-linking of Extracellular Matrix Materials for Musculoskeletal Applications
- James Runt, (Pennsylvania State University) Blood-contacting materials in cardiac assist devices: polyurethane copolymers and nanocomposites

Bioinorganic Chemistry

The Pittsburgh Bioinorganic Chemistry Conference will have two sessions, one starting 8:30AM on Monday, October 20. The event celebrates the bioinorganic chemistry of Pittsburgh region universities in conjunction with the 100th Anniversary of the Pittsburgh ACS Section. Therefore the topics are widely varied to cover the many aspects of bioinorganic chemistry as a survey of the fine contributions made in the Pittsburgh vicinity. Thirty minute talks will be given, starting with a discussion on iron clusters, and then oxygen atom transfer by Mo complexes, and metalloporphyrin reactions. After a break at 10:00AM, the session resumes at 10:15AM for metal ion assemblies on DNA analogues, lanthanide luminescence probes for in vivo imagery, and cisplatin-mediated gene expression.

The afternoon session resumes at 1:30PM with the development of ruthenium nitrosyl complexes as anti-HIV agents, and ruthenium nitrosyls as anticancer agents. This is followed by presentations about robust macrocycle green chemistry catalysts that utilize H2O2, and then by development of chemsensors for Zn(II) and Fe(III). After a short break at 3:10PM, the conference resumes with photo-activated DNA metallo-reagents binding and cleavage. The afternoon session concludes with a special presentation by the distinguished Professor Eckard Munck of CMU on oxygen activation as studied via Mossbauer methods.

A special evening presentation at 7:00 PM will be given by Professor Christopher Orvig of the University of British Columbia (Vancouver) on “Insulin-enhancing Vanadium Compounds.”
Gene Therapy

• Robert Lee (Ohio State University), Receptor-based, tumor-targeted vectors for drug and gene delivery.
• Kyung-Dall Lee (University of Michigan), Listeriolysin O-containing vectors for effective cytosolic delivery of oligonucleotides and genes.

Inorganic Catalysis

• Leaf Huang (University of Pittsburgh), LPD nanoparticles as a novel delivery vector for peptide vaccine.

Poster Session and Contributed Talks on topics covered in the Symposia sessions on Monday

Tuesday Morning, October 21, 2003

Computational Chemistry

This symposium addresses state-of-the-art developments in combinatorial chemistry and parallel synthesis. Symposium presentations will focus on the emerging techniques currently enhancing efficiency and driving fundamentally new strategies in combinatorial chemistry. Topics will highlight solution-phase and phase-switching strategies for library synthesis.

Computational Chemistry 1

• Sharon Harnes-Schiffer (Penn State)
• Jeff Evansek (Duquesne University)
• Maria Kurnikova (Carnegie Mellon University)
• George Shields (Hamilton College)
• 2 contributed talks @ 20 minutes each

Computational Chemistry 2

• Mike Klein (Pennsylvania State University)
• Ken Jordan (University of Pittsburgh)
• Sherwin Singer (Ohio State University)
• 5 contributed talks @ 20 minutes each

New Synthetic Methods and Their Application to Natural Product Assembly

• Ken S. Feldman, (Pennsylvania State University) Natural Product Synthesis through Alkynylidonium Salts
• Huw M. Davies, (SUNY at Buffalo) Donor/Acceptor Substituted Carbonoids as Versatile Intermediates in Organic Synthesis
• George O’Doherty, (West Virginia University) TBA
• P. Andrew Evans, (Indiana University) Bismuth-Catalyzed Etherification Reactions for the Stereoselective Construction of Polycyclic Ethers

Innovations in High School Chemistry Education:
The winners of the Central Regional High School Teacher of the Year Awards.

Five previous winners of the ACS Central Regional High School Chemistry Teaching Award will be discussing some of their teaching ideas. The presenters will be Loretta S. Buddendeck (1996) of Centerville, OH, will speak on Kinetics; Kathy Kitzmann (1997) of Mercy High School, Farmington Hills, MI, will speak on Gas Laws; Fen Lewis (1998) of Strongsville High School, Strongsville, OH, will speak on Explorations in Polymers - A Class Project; Aniss Hapkiewicz (2001) of Okemos High School, Okemos, MI, on Chemistry Misconceptions; and Christine Allen (2002) of Worthington High School, Worthington, OH.
**Innovations in High School Chemistry Education Cont’d**

- 1996 - Loretta S. Buddendek of Centerville High School, Centerville, OH will speak on Kinetics.
- 1997 - Kathy Kitzmann of Mercy High School, Farmington Hills, MI will speak on Gas Laws.
- 1998 - Fen Lewis of Strongsville High School, Strongsville, OH, Explorations in Polymers - A Class Project
- 2001 - Amnis Hapkiewicz of Okemos High School, Okemos, MI will speak on Chemistry Misconceptions.
- 2002 - Christine Allen of Worthington High School, Worthington, OH. No topic yet.

**Recent Advances in Coating Chemistry 1**

The Keynote speaker for the Coatings Symposium will be Dr. Rose Ryntz, Manager and Staff Technical Fellow of Visteon Corporation. Dr. Ryntz, recipient of the ACS 2003 Tess Award*, is recognized as one of the world’s leading experts in the area of automotive plastic coatings. She has received many significant honors and awards and published many papers, books and patents. The Symposium will include a balance of papers from outstanding academic and industrial scientists.

*The Roy W. Tess Award is presented annually by the Polymeric Materials: Science and Engineering Division in recognition of outstanding individual achievements and note-worthy contributions to coatings science, technology and engineering.

- Dr. Rose Ryntz (Visteon Corp) Keynote Speaker, Achieving Robust Decorated Plastic components in the Automotive Industry
- Professor Mark Urban (University of Southern Mississippi), Recent Advances in Film Formation of K2 Waterborne Polyurethanes: Imaging and modeling
- Dr. Mei Li (Carnegie Mellon University), Synthesis of Urethans/Acrylic Hybrid nanoparticles via a Miniemulsion Polymerization Process
- Mike Dvorchak (Bayer Polymers), The Use and Chemistry of UV Cure Using Diffuse UV A Lamps for Automotive Refinish Primers and Clearcoats

**Surface Science 1**

- Kenneth Jordan (University of Pittsburgh), Surface Chemistry on Silicon and Carbon Nanotube Surfaces
- Charles Campbell (University of Washington), Metal Clusters-Atom-Atom Bond Energies
- Jingguang Chen (University of Delaware), Catalytic Activity of Metal Carbide Surfaces
- Andrew Gellman (Carnegie Mellon University), Chirality at Surfaces

**Surface Science 2**

- Robert Hamers (University of Wisconsin), Self Organized Layers on Semiconductor Surfaces
- John T. Yates, Jr. (University of Pittsburgh), Self Organization on Metal Surfaces
- Horia Metiu (University of California-Santa Barbara), Atom and Cluster Dynamics on Surfaces
- John Tully (Yale University), Dynamics of Electronic Excitation at Surfaces

**Proteomics**

- Mark Gerstein, (Yale University), Keynote Address
- Naftali Kaminski, (University of Pittsburgh Medical Center), “Taking a retrospective look at microarrays - from pulmonary fibrosis to multiple sclerosis”
- Billy W. Day, (University of Pittsburgh), Title to come
- Catherine E. Costello, (Boston University School of Medicine), Title to come
- Jonathan Minden, (CarnegieMellonUniversity), “Proteome Stargazing”

**Tuesday Afternoon, October 21, 2003**

**Combinatorial Chemistry: New Directions, Strategies and Methodologies**

This symposium addresses state-of-the-art developments in combinatorial chemistry and parallel synthesis. Symposium presentations will focuses on the emerging techniques currently enhancing efficiency and driving fundamentally new strategies in combinatorial chemistry. Topics will highlight solution-phase and phase-switching strategies for library synthesis.

- Craig S. Wilcox, (University of Pittsburgh) Precipitons - Switchable Phase Tags for Chemical Separations
- Wei Zhang, (Fluorous Technologies Inc.) Combinatorial Chemistry: New Directions, Strategies and Methodologies
- Miles G. Siegel, (Eli Lilly &Co.) Application of Solution Phase Array Synthesis to General Library and Medicinal Chemistry Problems
- Craig Lindsley, (Merck & Co.) Methodology and Tools to Expedite the Synthesis and Purification of Analog Libraries

**History of Chemistry in Pittsburgh**

The symposium on the History of Chemistry in the Pittsburgh area will focus on an eclectic selection of the many aspects of the history of chemistry in the area encompassed by the Pittsburgh Section. Topics will include scientific developments in NMR spectroscopy, optical spectroscopy, chemical computations, polymer chemistry, and coal gasification, aspects of the chemical industry, and the role of PITTCON in the chemical sciences community.
Coal is the most abundant fossil energy resource both in the United States and throughout the world. However, environmental emissions from coal have increasingly become a target of public concern and regulations. Due to a series of continuing advances in coal mining and coal utilization technology, coal remains an economically and environmentally viable fuel of choice for electric power generation. Through the U.S. Department of Energy’s (U.S. DOE’s) Coal & Power Programs, a number of technologies are being developed and demonstrated to meet the environmental challenges of coal usage for electric power generation applications. These programs span a broad spectrum of research (e.g., bench-scale), development (e.g., pilot & proof-of-concept scale), and demonstration (e.g., commercial scale) activities. Applicable technologies include coal combustion, gasification, and conversion, as well as technologies for the control of SO2, NOx, Hg, and fine particulate emissions, and byproduct utilization processes. Large, commercial-scale projects are conducted under U.S. DOE’s Clean Coal demonstration programs, where the government can cost-share up to 50% of the demonstration project costs. These demonstration programs presently include 36 projects demonstrated under the $4.75 billion Clean Coal Technology (CCT) program of the 1980s and 1990s, 6 projects under the $100 million Power Plant Improvement Initiative (PPII), and the initial 8 project selections recently announced under the first round of the President’s $5+ billion Clean Coal Power Initiative (CCPI). This symposium will present results and status of representative commercial-scale projects conducted under the U.S. DOE Clean Coal demonstration programs, as well as major avenues being explored under key coal-related R&D programs. Future directions will be summarized to the extent possible. For example, just as the previous generation of clean coal technologies proved successful in mitigating concerns associated with acid rain precursor emissions (i.e., SO2 and NOx), a new generation of highly efficient power plant technologies, supplemented by carbon sequestration, may allow us to address climate change concerns while continuing to utilize the world’s abundant coal reserves. Toward that end, U.S. DOE is now embarking on a new $1 billion, 10-year Presidential initiative known as FutureGen, which will feature an advanced, nearly emissions-free power plant capable of co-producing electricity and hydrogen, in combination with CO2 sequestration.

ACS CENTRAL REGIONAL MEETING PROGRAM

Energy-Fuel 1
- Theodore McMahon (US DOE/NETL), Mercury and Multi-Pollutant Emission Control Technologies
- James R. Longanbach (US DOE/NETL), Coal-Powered Fuel Cells

Energy-Fuel 2
- Diane Revay Madden (US DOE/NETL), Fuels & Power Production from Coal
- Milton Wu (Universal Aggregates, LLC), Manufactured Aggregates Process for Coal Combustion Byproduct Utilization

Bioinformatics

The discipline of Bioinformatics involves the development and application of computational tools that are designed to derive correlations between measurements obtained at scaled levels of biological development, from the genome to the entire organism and even to society. The Continuum of Bioinformatics across which bioinformatics exerts itself includes: genomics, proteomics, metabolomics, cellomics, tissue informatics, organomics and the organism as a whole. The fullest expression of bioinformatics becomes Systems Biology, in which all elements of the biological system are seamlessly considered as a whole and interdependencies can be identified readily through digital correlation. The presentations in this panel will encompass most of the major sectors in the Continuum of Bioinformatics, including their integration.

Poster Session and Contributed Talks on topics covered in the Symposia sessions on Tuesday.

Wednesday Morning, October 22, 2003

Regional Superstars

Organic-Inorganic

Chemical Education

Energy-Fuel 2

Analytical-Physical

Chemical Technicians: Salute to Excellence

Events and times may change prior to the meeting date. Please visit the ACS Central Regional Meeting website at: http://membership.acs.org/P/Pitt/crm.html for the latest details and late breaking news.

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DEADLINE FOR RECEIPT OF ADVANCE REGISTRATION IS OCTOBER 6, 2003

35th ACS Central Regional Meeting
Sheraton Station Square, Pittsburgh, PA
October 19-22, 2003
Hosted by the Pittsburgh Section, Celebrating its 100th Anniversary
http://membership.acs.org/P/Pitt

Dr. ☐ Mr. ☐ Ms. ☐ Mrs. ☐ 1. Academe; ☐ 2. Industry; ☐ 3. Government; ☐ 4. Student; ☐ 5. Other

First Name ___________________________ Last Name ___________________________

Company/University _______________________________________________________

Street address ____________________________________________________________

City ___________________________ State _____ Zip ______

Phone (office) __________________ Fax __________________ I do not wish to have my name on a list provided to exhibitors. ☐

E-mail ____________________________

Please contact the Office of Regional Meetings at (202) 872 – 6129 if you require special accessibility accommodations to fully participate.

ADVANCE REGISTRATION FEES
☐ 01. ACS member ......................... $ 110.00
☐ 02. Nonmember ......................... $ 140.00
☐ 03. Graduate Students ................ $ 40.00
☐ 04. Undergraduate Students ......... $ 30.00
☐ 05. Precollge Teacher .................. $ 40.00
☐ 06. Postdoctoral Fellow ............... $ 75.00
☐ 07. Retired/Emeritus/Unemployed .... $ 30.00
☐ 08. Guest ................................ $ 30.00
☐ 09. 50 Year ACS Member ............ (No Charge)

TICKETED EVENTS (All ticketed events contingent upon sufficient registration)

☐ Gateway Clipper Cruise and Dinner – limited to first 200 participants
   Monday, October 20, 2003 6:00 PM – 10:00 PM ........................................................................... $ 45.00
☐ Women Chemists Luncheon, Speaker: Cynthia Baldwin, Judge, Allegheny Court of Common Pleas
   Tuesday, October 21, 2003 12:00 PM – 1:30 PM ........................................................................... $ 30.00
☐ 100th Anniversary Celebration: Pittsburgh Award and Former Chairman’s Night, Reception, Dinner
   Tuesday, October 21, 2003 6:00 PM – 9:00 PM ........................................................................... $ 50.00
☐ Priestley House Tour and Dinner—Thursday, October 23, 2003 7:30 AM – 8:30 PM
   (Price includes Bus, Admission, and Box Lunch only. Dinner not included!) ................................ $ 60.00

ONSITE REGISTRATION FEES
☐ 01. ACS member ......................... $ 135.00
☐ 02. Nonmember ......................... $ 165.00
☐ 03. Graduate Students ................ $ 55.00
☐ 04. Undergraduate Students ......... $ 45.00
☐ 05. Precollge Teacher .................. $ 55.00
☐ 06. Postdoctoral Fellow ............... $ 100.00
☐ 07. Retired/Emeritus/Unemployed .... $ 45.00
☐ 08. Guest ................................ $ 45.00
☐ 09. 50 Year ACS Member ............ (No Charge)

Other Events
☐ Student Affiliate Social, Duquesne University, Sunday October 19, 4-6 pm (NO CHARGE)
☐ Welcoming Reception—Sunday, October 19, following Plenary Lecture (NO CHARGE)
☐ District Director’s Breakfast (open to all Attendees)—Tue, Oct 21, 7:00 AM – 8:30 AM (NO CHARGE)

PLEASE READ THE FOLLOWING IMPORTANT INFORMATION

ALL REGISTRATIONS MUST BE PREPAID BY EITHER CHECK OR CREDIT CARD IN ORDER TO BE PROCESSED.
- MAIL OR FAX COMPLETED FORM TO AMERICAN CHEMICAL SOCIETY, OFFICE OF SOCIETY SERVICES, 1155–16TH STREET, N.W., WASHINGTON, DC 20036. PHONE: (800) 227-5558; FAX: (202) 872-6087.
- PLEASE SUBMIT A SEPARATE REGISTRATION FORM FOR EACH REGISTRANT.
- REQUEST FOR REFUND MUST BE SUBMITTED IN WRITING TO EVANGELOS KOUTALAS, AMERICAN CHEMICAL SOCIETY,
  FROM OCTOBER 7 THROUGH OCTOBER 17, A $20 PROCESSING FEE WILL BE CHARGED. NO REFUNDS AFTER OCTOBER 18, 2003.

TOTAL FEES: Registration $ ___________ Paid by: ☐ American Express ☐ MasterCard ☐ Visa ☐ Check

Special Events $ ___________

TOTAL AMOUNT ENCLOSED $ ___________

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35th ACS Central Regional Meeting
Events and Activities

TICKETED EVENTS
(All ticketed events contingent upon sufficient registration)

Gateway Clipper Cruise and Dinner - $45.00
Monday, October 20, 2003, 6:00 PM - 10:00 PM
Limited to first 200 participants

Women Chemists Luncheon - $30.00
Speaker, Judge Cynthia Baldwin
Tuesday, October 21, 2003, 12:00 PM - 1:30 PM

Pittsburgh Award
100th Anniversary Celebration - $50.00
Reception, Dinner, and Former Chairman’s Night
Tuesday, October 21, 2003 6:00 PM - 9:00 PM

Priestley House Tour and Dinner - $60.00
Thursday, October 23, 2003, 7:30 AM - 8:30 PM
Price includes Bus, Admission, and Box Lunch only. Dinner cost is on your own!

Schedule:
7:30 am: Pickup at Station Square
8:00 am: Pickup at Monroeville Mall, pole #25, PAT Bus Park & Ride
10:00 am: Pit-Stop and Coffee Break
12:00 noon: Arrive Northumberland, PA & Box Lunch
1-3:00 pm: Priestley House Visit
(2 groups of 20)
3:30-5 pm: Dinner (cost on your own), Country Cupboard Restaurant, Inn & Shops
8:00 pm: Arrive Monroeville Mall
8:30 pm: Arrive Station Square

Other Events and Workshops

Reception and Plenary Speaker - John B. Fenn
Sunday, October 19, 2003

Director’s Breakfast
Tuesday, October 21, 2003 7:00 AM - 8:30 AM
(Directors hosted by ACS National)

Steering Committee Luncheon
Wednesday, October 22, 2003, 12:00 - 1:30 PM
(Steering Committee Members of the Central Regional Meeting, by Invitation; hosted by the 35th CRM)

Younger Chemists Committee Lunch and Workshop
Sunday, October 19, 2003 (by Invitation only)

For information on obtaining tickets, please visit the ACS CRM website at http://membership.acs.org/P/Pitt

National Chemistry Week 2003
MARK YOUR CALENDAR - NCW 2003 is scheduled for October 19-25, 2003. The NCW theme for this year is “Earth’s Atmosphere and Beyond,” honoring innovators and pioneers in aviation and atmospheric chemistry. The theme coincides with the 100th anniversary of the Wright Brother’s first powered flight.

For the fifth year in a row, the Pittsburgh Section will be holding a two-day event at the Carnegie Science Center on Friday and Saturday, October 24th and 25th, from 9:00 AM to 5:00 PM each day. There will be 25+ tables throughout the Carnegie Science Center staffed with volunteers from area businesses, professional societies, high schools, colleges and universities, performing hands-on activities, demonstrations, and special theater-style shows.

The Pittsburgh Section is looking for individuals and groups to assist in coordinating this event. If you have not volunteered or attended a Local Section activity in the recent past, here is a great opportunity to get involved. This could be your opportunity to help educate Pittsburgh and surrounding communities of the importance that chemistry plays in the quality of our daily lives. Your participation will ensure that the Pittsburgh Section brings about a positive change in the public’s impression of science and will help to promote a positive message about chemistry, particularly to elementary and secondary school children.

For more information about the NCW celebration in Pittsburgh, visit the Pittsburgh Section’s web site at http://membership.acs.org/P/Pitt or for general NCW information http://chemistry.org/ncw

To volunteer yourself or your organization to participate in this year’s NCW celebration, contact the Pittsburgh Section’s NCW Coordinator:

V. Michael Mautino
Bayer Polymers LLC
100 Bayer Rd. Bldg. 2
Pittsburgh, PA 15205
Phone: 412-777-4792
Fax: 412-777-7864

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Neil M. Donahue

I am an Assistant Professor of Chemistry and Chemical Engineering at Carnegie Mellon (from August 2000). I have been an ACS member since 1997 and am also active in other societies, such as the American Geophysical Union (since 1985) and the American Institute of Chemical Engineers (since 2001). I am currently serving as the Pittsburgh Section Secretary, having been elected Secretary-Elect in Fall 2001. I am deeply interested in strengthening the connections among industry, academia, the school systems, and local governments within the Section. In particular, I believe that several research strengths in local universities and industry offer the potential for the Pittsburgh area to develop into an internationally recognized center of excellence in green chemistry and what might be called ‘sustainability science’.

Beyond this broad goal, I believe that the Section Chair has three major responsibilities. First, the existing strengths of the section must be maintained. Chief among these are a truly outstanding educational outreach program run by the educational group, and the highly energetic (and award winning) efforts associated with National Chemistry Week. Second, section finances must remain healthy, and the budget balanced. Third, the viability of the section demands increased participation in section leadership. The repeated dearth of candidates for section offices is not healthy sign. We must find ways to increase active participation by our 1800 members. I believe the efforts described above, with associated publicity, is a key part of such a strategy.

Thomas A. Sarkus

Tom Sarkus is Director of the Coal Power Projects Division at the U.S. Department of Energy’s National Energy Technology Laboratory, where he supervises project management activities under the $4.75 billion Clean Coal Technology demonstration program, the $100 million Power Plant Improvement Initiative, and the $5+ billion Clean Coal Power Initiative. The Clean Coal projects managed by Mr. Sarkus’ Division have garnered national and international recognition, including Power magazine’s annual Powerplant Award (six times), the National Society of Professional Engineers’ Outstanding Achievement Award, and the R&D 100 Award. Mr. Sarkus earned a B.S. in chemistry, a B.S. in geology, and an M.S. in earth science from California University of Pennsylvania; and a J.D. in law from Duquesne University. His professional interests revolve around the common themes of energy and the environment (e.g., acid rain, byproduct utilization, global climate change), and he has worked on advanced combustion, gasification, and emissions control (SO2, NOx and particulate) projects pertaining primarily to the electric power industry. Tom has hosted specialty conferences on Unburned Carbon in Utility Fly Ash (annually since 1995, with 142 attendees last year) and Selective Catalytic & Non-Catalytic Reduction for NOx Control (annually since 1997, with 351 attendees last year), thereby convening scientific and engineering professionals from throughout the United States and 22 foreign countries in Pittsburgh. Mr. Sarkus served formerly as ACS Pittsburgh Section Secretary and as Chairperson of the Coal Technology Group. He currently serves on the Section’s Central Regional Meeting, Library, and Pittsburgh Award committees.

Bodie Douglas

Bodie E. Douglas, Professor Emeritus of Chemistry at the University of Pittsburgh, received B.S. and M.S. degrees from Tulane University. Between degrees he spent three years in the U. S. Navy, serving on a battleship in the Pacific. He obtained the Ph.D. from the University of Illinois for work under the direction of Professor John C. Bailar, Jr.

From 1949 until 1952 he was on the faculty at the Pennsylvania State University (then College) and has been at the University of Pittsburgh since 1952. Although he has retired he works at the office five days per week. He was a Fulbright Lecturer at the University of Leeds in England for 1954-55 and Visiting Professor at Osaka University in 1970 under the auspices of the Japan Society for the Promotion of Science.

BALLOT
For Offices of the
2004
Pittsburgh Section
American Chemical Society

Chair-Elect
CHAIR-ELECT is a three-year term, serving one year as Chair-Elect (during 2004), one year as Chair (during 2005) and one year as Past Chair (during 2006).

(Vote for One)

Neil Donahue ........................................................
Thomas Sarkus ....................................................

Secretary-Elect
SECRETARY-ELECT is a two-year term, serving one year as Secretary-Elect (during 2004) and one year as Secretary (during 2005).

(Vote for One)

______________________ ...............................

(Treasurer-Elect
TREASURER-ELECT is a two-year term, serving one year as Treasurer-Elect (during 2004) and one year as Treasurer (during 2005).

(Vote for One)

______________________ ................................

(Write -in)

Directors
Directors are three-year terms. Directors serve on the executive committee. One director position will fill a vacancy from 2003 and will thus be for a two year term.

(Vote for Two)

Bodie Douglas ...................................................
Mordecai Treblow ............................................
Robert Witkowski ............................................

Councilors
Councilor is a three-year term. Councilors attend national ACS council meetings.

(Vote for two)

Brian Strohmeier .............................................
Patricia Wilson ................................................

INSTRUCTIONS
Ballot must be placed and sealed in the enclosed blank envelope. Place the blank envelope in the enclosed printed envelope which is addressed to Pittsburgh Section Secretary Neil M. Donahue. Print your return address in upper left hand corner and sign your name on the line provided. Ballots received in any other manner will be disqualified.

Only members of the Pittsburgh section of the American Chemical Society are eligible to vote. All ballots must be received by the Secretary of the Pittsburgh Section by November 1, 2003.
**Mordecai Treblow**

Mordecai Treblow earned his BA (University Pennsylvania), MS (Pennsylvania State University), PhD (University of Pittsburgh) all in chemistry. Having spent half his career in academia and half in industry, the retired from Mead Corp. Among other industrial positions he was a Senior Chemist at Calgon Corp. His academic positions included associate professor at Bloomsburg State University and Mercy College of Detroit (Chair, Physical Science and Math Dept.). He authored or co-authored 12 papers, mainly chemical education, and presented 10 papers at national and regional ACS meetings.


**ACS Divisions:** Served in the chair cycle for Division of Professional Relations (1990-92). Currently member of the History, PROF, and Nuclear Chem. and Technology Divisions. Member SACP and SSP.

Treblow received Chairman’s Award for “Outstanding Service to the Pittsburgh Section” in 1998.

**Robert E. Witkowski**

Robert E. Witkowski received his B.S., M.S., and Ph.D. from the University of Pittsburgh; he is a Pennsylvania registered professional geologist. Bob serves as a Consultant, Chemistry of Materials, to MCS Associates, Inc. He is a lecturer in the Westinghouse Science Honors Institute.

Bob was participant in the U.S. Antarctic Research Program (USARP); University of Pittsburgh Antarctic Search for Meteorites (ANSMET) project. His work at the South Pole involved the search for the cosmic dust increment to atmospheric aerosol particles; he continues to maintain an active interest in the science of carbon-rich meteorites and interplanetary dust particles (IDPs). At MCS Associates he provides consulting support in materials compatibility and analytical chemistry.

Bob is a member of the American Chemical Society (ACS), and the Society for Analytical Chemists of Pittsburgh (SACP). He is a member and also served as Chairman of the Spectroscopy Society of Pittsburgh (SSP), Chairman of the Pittsburgh Section ACS and President of the Pittsburgh Chemist Club. He is a member of the Chemical Heritage Foundation Bolton Society, and organization of chemical bibliophiles, and the University of Pittsburgh Chapter of Sigma Xi.

**Patricia Wilson**

I am presently Treasurer of the Western Pennsylvania Technician Affiliate Group (WPTAG) and Workshop Chair for the Division of Chemical Technicians, Inc. (TECH). I have been an active member of WPTAG since it was chartered in 1996. I have written articles for the WPTAG newsletter TECH TALK and Pittsburgh section The Crucible. I am a member and former Chair of the WPTAG Recognition Committee. I have given presentations at TECH Symposia at ACS meetings. On several occasions I have assisted WPTAG and the Pittsburgh Section of the ACS in National Chemistry Week activities at The Carnegie Science Center.

After receiving an Associates Degree in Chemistry from Bidwell Training Center, I did a 3- month externship at Bayer Corporation. For the last 7 years, I have been employed as a Senior Technician at Bayer Corporation, in the Polyurethane Division. I work in the Applications and Development area where I assist in formulating insulation systems for architectural panels and doors. Since my employment I received several promotions and Recognition Awards.

I am a member of the Bayer Emergency Response Team, where I serve as Secretary, performing such duties as; keeping monthly minutes, distributing minutes to team Officers, members and supervisors, coordinate team activities, presentations and thank you luncheons. I work along side Carlow College and Pennsylvania Women Work to do a yearly work shop on Careers Conference for High Wage/ High Skill jobs for women in the Pittsburgh area.

**Brian R. Strohmeier**

Brian R. Strohmeier is the Assistant Chairman of the Department of Chemistry at the University of Pittsburgh. Prior to joining Pitt, he was employed in various scientific and managerial leadership positions at the Glass Technology Center of PPG Industries, Inc. and the Alcoa Technical Center. He holds a Ph.D. degree in Analytical Chemistry from the University of Pittsburgh (1984) and an M.A. degree in Business Leadership from Duquesne University (1999). His scientific research interests involve applications of surface analytical techniques, such as X-ray photoelectron spectroscopy (XPS or ESCA), Auger electron spectroscopy (AES), secondary ion mass spectrometry (SIMS), and scanning electron microscopy (SEM) for the characterization of complex materials. He holds one patent and has more than forty publications and twenty conference presentations dealing with the surface characterization of various materials.

Dr. Strohmeier’s leadership interests involve promoting the study and application of modern leadership principles in R&D organizations as well as in undergraduate and graduate level chemistry curricula. He has six publications and three conference presentations dealing with leadership topics and teaches a one-day short course on “Leadership Principles for R&D Managers and Scientists” at National ACS and PITTCON meetings. He has been a member of the ACS since 1977 and is past Chairman of the Pittsburgh Section ACS (2000). He has chaired and/or served on many various committees of the Pittsburgh Section ACS, the Society for Analytical Chemists of Pittsburgh (SACP), the Spectroscopy Society of Pittsburgh (SSP), and the PITTCON organizing committee.

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Developments in instrumentation and technique can dramatically alter our capability for carrying out spectrochemical measurements. Linear photodiode arrays (PDAs) were one such development. These simple devices ushered in the era of solid state image sensor based atomic spectrometers. Spectrometers based on linear PDAs allowed for the measurement of spectral or spatial windows of emission from the inductively coupled plasma (ICP). In particular, the facile acquisition of emission spatial windows helped to clarify many aspects of ICP performance.

Even with the most recent developments in image sensor based spectrometers, matching the simultaneous continuous spectral coverage of the classic spectrograph remains elusive. Using a UV-visible Fourier transform spectrometer, a spectral library has been measured that contains full UV and visible region ICP emission spectra for 71 elements. The spectra have a resolution of 2 to 5 picometers, a wavelength accuracy of about 1 picometer, and are stored on two CDs in an interactive format.

About two decades ago “atomic” spectrometry underwent a paradigm shift with the commercial deployment of ICP mass spectrometers. This development necessitated a shift in thinking for the atomic field as we now had to understand the ICP as a source of ions rather than just as a source of photons. The new intuitions that had to be developed with respect to parameter optimization, spectral interference and matrix effects will be outlined. Now alternate sources to the ICP such as electrosprays are providing new capability for “atomic” spectrometry in the form of direct speciation measurements.

Gary Horlick, Professor of Chemistry at the University of Alberta, will receive the 2003 Pittsburgh Spectroscopy Award from the Spectroscopy Society of Pittsburgh (SSP), in recognition of his lifelong contributions to the development and characterization of new methods and systems for elemental analysis. He has pioneered the application of linear image sensors (photo-diode arrays) to atomic spectrochemical measurements, work that predated the commercial developments in this area by two decades.

His continuing research interests are in the general area of analytical spectroscopy, including the development of new spectrochemical measurement systems. Specific systems have been developed based on photo diode arrays and Fourier transform spectrometry, and new systems are now being developed based on acousto-optic tunable filters (AOTF’s) that could form the basis of an all-electronic spectrometer system.

Horlick received a B.Sc. (Hons) degree from the University of Alberta in Edmonton, Alberta in 1965 and a Ph.D. degree in 1970 from the University of Illinois in Urbana, Illinois, under the direction of Professor H.V. Malmstadt. He joined the Department of Chemistry at Alberta in 1969. He has published over 147 papers dealing with his research studies and presented over 400 talks at conferences and university, government, and industrial laboratories of which 290 were invited lectures. Under his supervision, 36 students have received Ph.D. degrees, 9 students have received M.Sc. degrees and 11 students have pursued postdoctoral studies in his laboratories.

Professor Horlick has received numerous awards and other honors, including the 1977 Barringer Research Award of the Spectroscopy Society of Canada, the Meggers Award of the Society for Applied Spectroscopy (SAS) in 1985, and the Fisher Scientific Lecture Award from the Chemical Institute of Canada in 1987. During 1987/88 he was a McCalla Research Professor at the University of Alberta and received an Alberta Achievement Award from the Province of Alberta in 1988. In 1989 he received the Lester W. Strock Award of the SAS, and he was elected as a Fellow of the Royal Society of Canada in 1990. He has served on the Instrumentation Advisory Panel of Analytical Chemistry; the editorial boards of Mikrochimica Acta, Canadian Journal of Spectroscopy, Progress in Analytical Atomic Spectroscopy, and the Journal of Analytical Atomic Spectroscopy.

Dinner Reservation: Please call Janeth Pifer at 412/825-3220 X136 or email pifer@pittcon.org.

Parking Instructions: Duquesne University parking garage entrance in on Forbes Avenue. Upon entering the garage, receive ticket and drive to upper floors. Pay parking fee upon exiting with SSP parking chit. Pick up parking chit at the dinner or the meeting. Call Mitchell Johnson at Duquesne University if any difficulties arise.
Blending of immiscible polymers is a common means of realizing materials with properties that are difficult to obtain with individual polymers. Surface-active block copolymers are often added as compatibilizers during processing of these blends in order to promote mixing and control the morphology and properties of the final material. This talk discusses the effects of such a compatibilizer on the dynamics and the rheological properties of droplet-matrix blends.

When subjected to flow, the morphological evolution of a droplet-matrix blend occurs by deformation, breakup and coalescence of droplets. The traditional viewpoint has been that the effects of compatibilizer on these processes are attributable simply to the decrease in interfacial tension caused by the compatibilizer. Experiments on polymer blends compatibilized with diblock copolymers demonstrate that this view is overly simplistic: dynamic phenomena in compatibilized blends are fundamentally different from those in blends without compatibilizer. One key phenomenon in compatibilized blends is flow-induced gradients in compatibilizer concentration along the surface of droplets. Experiments suggest that the resulting gradients in interfacial tension can stabilize droplets against hydrodynamically-induced breakup, induce tip-stretching during relaxation, suppress coalescence of drops, and cause slow relaxation processes indicative of interfacial viscoelasticity. The gradients in interfacial tension are also found to modify the bulk rheological properties of the blend substantially, in agreement with recent theoretical results. Fluid mechanical simulations of the deformation, retraction, and coalescence of compatibilized drops confirm that gradients in compatibilizer concentration affect the dynamics of immiscible blends significantly. The implications of these results to the measurement of interfacial tension of compatibilized interfaces are discussed.

For dinner reservations please contact:
Michael L. White, PPG Industries Corporation
(Tel: 412-492-5458, mwhite@ppg.com) by Friday, September 12, 2003. Dinner is $16.00 per person; discount rate of $11.00 for retirees and no charge for students. All are welcome.
Society for Analytical Chemists of Pittsburgh

**October Meeting**
Monday, October 6, 2003
8:00 p.m., Maurice Falk Hall, Duquesne University

Social Hour 5:30 P.M. Student Affiliates Meeting Duquesne Room (Student Union) 5:45 P.M.
Dinner - Student Union City View Café (6th Floor) 6:30 P.M.
Business Meeting - 7:40 P.M.
Technical Presentation 8:00 P.M.

“NEW TOOLS FOR BIOANALYSIS”
George M. Whitesides
The 2003 Pittsburgh Analytical Chemistry Awardee
Mallinckrodt Professor of Chemistry
and Chemical Biology Harvard University

**Abstract**

Biology and biochemistry is facing a new generation of problems in analysis. The interest in analyzing the cell is extending from a primary focus on molecular structure to include broad interest in mechanical structure and phenotypic behaviors. Proteins are replacing nucleic acids as the most important targets for new types of analyses. ADME/Tox is increasingly important in efforts to improve the productivity of the pharmaceutical industry. Presymptomatic detection of disease is a possible approach to improving the outcome in many diseases. All of these problems, and others, will require new types of analytical systems.

One approach is the development of new tools for bioanalysis is through a combination of the techniques of microfabrication with the problems of biomedicine. We have worked in one part of this problem: that is, the development of new, microfabricated tools for studying the behavior of cells in attached cell culture. A combination of five materials/techniques is providing these tools: 1. Self-assembled monolayers (SAMs) of alkanethiolates on gold, to control the character if interfaces; 2. “Inert surfaces” (surfaces that do not adsorb proteins and therefore do not allow cells to attach); 3. Surface plasmon resonance (SPR), a technique that makes it possible to observe the kinetics and infer the thermodynamics of adsorption of proteins and other biological macromolecules at the surface of SAMs; 4. Soft lithography, to pattern the interface in its plane; 5. Controlled, laminar flows in microchannels, which provide the basis for methods both of fabrication inside capillaries and for controlling the medium surrounding cells, and the shear they experience. This talk will discuss the use of these tools in bioanalysis.

**Biography**

Professor Whitesides is a native of Louisville, Ky. He received an A.B. degree from Harvard University in 1960 and a Ph.D. from California Institute of Technology in 1964. He was a member of the faculty of the Massachusetts Institute of Technology from 1963 to 1982. He joined the department of Chemistry of Harvard University in 1982. His research interests include materials science, biophysics, complexity, surface science, microfluidics, self-assembly, micro- and nano-technology, and cell-surface chemistry. Whitesides has received many awards and honors including The World Technology Award for Materials in 2001, the Von Hippel Award in 2000, the Sierra Nevada Distinguished Chemist Award, the Wallac Oy Innovation Award in High-Throughput Screening, and the Award for Excellence in Surface Science in 1999. Dr. Whitesides has held and currently holds advisory positions on the National Research Council, the National Science Foundation and the Department of Defense.
Hello Pittsburgh Section Members! In this installment of the “Councilor’s Corner” we would like to share some demographic data with you about the Pittsburgh Section of the American Chemical Society. As of December 31, 2002, the Section had 1830 members, 1394 indicating they are male, 373 indicating they are female, and 63 did not select a gender. A total of 65.7% of the membership are classified as “regular” or full ACS members, followed by 13% Emeritus, 9.5% Regular Student, 5.5% Retired, and 6.3% other (Associate, National Affiliate, etc.). Ethnic background data is incomplete with 746 members not indicating ethnicity. Of the remaining members who did indicate ethnic background: 907 Caucasian, 151 Asian, 13 Hispanic, 9 African American, and 4 Native American.

A little over 27% of the membership are age 60 or over, with almost 16% (291 members!) of the membership age 71 or over. Additionally, 12% of the members are 30 and under, leaving the majority 61% between the ages of 31 to 59. Roughly 39% of the members have been associated with the ACS for 5 years or less and approximately 180 members (9.8%) have 50 years or more of service - Congratulations to all of you 50+ year members!

For education background: 1353 members indicated they had a chemistry major, 194 in chemical engineering, 277 Other, and 6 N/A. For chemistry degrees: 731 Doctors, 230 Masters, 714 Bachelors, 15 Other, and 140 N/A. For non-chemistry degrees: 127 Doctors, 136 Masters, 168 Bachelors, 9 Other, and 1390 N/A.

Diversity continues to be an initiative of the ACS, with a focus on enhancing the influx of diverse members into leadership roles within each local section. The national ACS is asking local sections to assess the section’s current leadership pool and determine areas where growth in diversity appears to be feasible. Ideally, the leadership team of each local section should resemble the demographic percentages as reported for their respective section.

In this issue you will be asked to vote for section officers. Please use this opportunity to select qualified candidates, with diverse backgrounds, to enhance the diversity and strengthen the Pittsburgh Section. Your participation as a Section member, either by voting in the officer elections or even expressing your willingness to serve as an officer, is critical to achieving the kind of diversity needed to keep the Pittsburgh Section active and growing.

Submitted by Pittsburgh Section Councilors: Paul E. Beck, Richard S. Danchik, V. Michael Mautino (Author), and Theodore J. Weismann

 Councilor’s Corner

2003 Pittsburgh Section ACS Officers

Chair
Myron Shaffer

Chair-Elect
Kay Bilal

Secretary
Neil Donahue

Treasurer
Tabitha Riggio

Spectroscopy Society of Pittsburgh Technology forum
Duquesne University
Mellon Science Hall
5:30 p.m.

Wednesday September 17, 2003
“What is WQED Multimedia” by Mr. Rick Vacarelli
WQED TV
Executive Director of Sales Multimedia/Pittsburgh Magazine

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Traci Johnsen
124 Moffett Run Rd.
Aliquippa, PA 15001
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PITTSBURGH SECTION OFFICERS

Chair ................................................................. Myron Shaffer
Bayer Corporation
100 Bayer Road, Bldg. 8
Pittsburgh PA 15205  412/777-7658
myron.shaffer.b@bayer.com

Secretary ...................................... Neil M. Donahue
Carnegie Mellon University
Department of Chemistry
4400 Fifth Ave.
Pittsburgh, PA 15213
724/378-9334

Chair-Elect .................................................. Kay Bilal
236 Scenery Dr.
Weirton, WV 304/723-2358
bilia98@cs.com

Treasurer ............................. Tabitha Riggio
Bayer Corporation
100 Bayer Road, Bldg. 8
Pittsburgh PA 15205  412/777-5447
btabitha@bayer.com

The Crucible is published monthly, August through May. Circulation, 3000 copies per month. Subscription price, six dollars per year. All statements and opinions expressed herein are those of the editors or contributors and do not necessarily reflect the position of the Pittsburgh Section.
September

Mon.  8  **Society for Analytical Chemists of Pittsburgh (SACP)**  
Duquesne University, Maurice Falk Hall  
"Microcapillary and Microfluidic Systems for Single-Cell Analyses"  
Nancy Allbritton, Ph.D., M.D.; Department of Physiology and Biophysics, University of California at Irvine

Wed.  17  **Polymer Group**  
Duranti’s Restaurant  
"Rheology and Dynamics of Compatibilized Polymer Blends"  
Dr. Sachin Velankar, Department of Chemical and Petroleum Engineering, University of Pittsburgh

Wed.  17  **Spectroscopy Society of Pittsburgh**  
Duquesne University, Mellon Hall of Science, Maurice Falk Auditorium  
*Atomic Spectrochemical Measurement Utilizing Fourier Transform, Linear Photodiode Array and Mass Spectrometers*  
Gary Horlick, “2003 Pittsburgh Spectroscopy Awardee”, Professor of Chemistry, University of Alberta

Wed.  17  **Spectroscopy Society of Pittsburgh, Technology Forum**  
Duquesne University, Mellon Hall of Science  
*What is WQED Multimedia*  
Mr. Rick Vacarelli, WQED TV, Executive Director of Sales Multimedia/Pittsburgh Magazine

Tues.  30  **ACS Pittsburgh Chemists Club**  
Duranti’s Restaurant  
"WHODUNIT? Raman Chemical Imaging in BioDefense and Forensics"  
Dr. Patrick J. Treado, President of Chemimage Corporation, Pittsburgh, PA

October

Mon.  6  **Society for Analytical Chemists of Pittsburgh (SACP)**  
Duquesne University, Maurice Falk Hall  
"New Tools for Bioanalysis"  
George M. Whitesides, The 2003 Pittsburgh Analytical Chemistry Awardee, Mallinckrodt Professor of Chemistry and Chemical Biology, Harvard University

19-22  **2003 Central Regional Meeting**  
Sheraton Station Square, Pittsburgh, PA

24-25  **National Chemistry Week Event**  
Carnegie Science Center, Pittsburgh, PA
Pittsburgh Section
American Chemical Society
Revised 2004 Officer Ballot

Please disregard the ballot in the September 2003 issue of The Crucible. Use the revised ballot on the right. Please place ballot in envelopes provided in the September issue of The Crucible and follow all other printed directions. Additional biographies follow.

Secretary-Elect
Christine DeNardo

Christine DeNardo
No biography available at time of printing.

Councilor
Paul Beck
Richard S. Danchik
Brian Strohmeier
Patricia Wilson

Paul Beck
Paul E. Beck is a Professor of Chemistry at Clarion University. He received his B.S. degree from Franklin and Marshall College in 1958, and his Ph.D. in organic chemistry from Duquesne University in 1963. He was a Research Chemist with DuPont from 1963-1966 and joined the faculty at Clarion in 1966. He served as department chair from 1974-1984. Dr. Beck has been a member of the Pittsburgh Section since 1966 and has been Secretary-Treasurer, Chairman of the Chemical Education Group (1972-1975). He coordinated the Suburban Lecture Series (1969-73) and was Faculty Advisor to Clarion’s Student Affiliate Chapter (1966-73). He served as Section Councilor (1979-82) and Alternate Councilor (1982-1985 and 1993-1996). His research interests are in the area of synthetic organic chemistry and he is a consultant for several companies.

Richard S. Danchik
Biography listed on the back of this page.

BALLOT
For Offices of the
2004
Pittsburgh Section
American Chemical Society

Chair-Elect
CHAIR-ELECT is a three-year term, serving one year as Chair-Elect (during 2004), one year as Chair (during 2005) and one year as Past Chair (during 2006).

(Vote for One)

Neil Donahue ........................................... ☐
Thomas Sarkus ........................................... ☐

Secretary-Elect
SECRETARY-ELECT is a two-year term, serving one year as Secretary-Elect (during 2004) and one year as Secretary (during 2005).

(Write -in)

Treasurer-Elect
TREASURER-ELECT is a two-year term, serving one year as Treasurer-Elect (during 2004) and one year as Treasurer (during 2005).

(Vote for One)

Christine DeNardo .................................. ☐

Directors
Directors are three-year terms. Directors serve on the executive committee. One director position will fill a vacancy from 2003 and will thus be for a two year term.

(Vote for Two)

Bodie Douglas .......................................... ☐
Mordecai Treblow .................................... ☐
Robert Witkowski .................................... ☐

Councilors
Councilor is a three-year term. One of the elected Councilors will serve a one-year term, to complete a three-year term that is currently vacant. Councilors attend national ACS council meetings.

(Vote for two)

Paul Beck ................................................... ☐
Richard S. Danchik ................................... ☐
Brian Strohmeier ..................................... ☐
Patricia Wilson ....................................... ☐

INSTRUCTIONS
Ballot must be placed and sealed in the enclosed blank envelope. Place the blank envelope in the enclosed printed envelope which is addressed to Pittsburgh Section Secretary Neil M. Donahue. Print your return address in upper left hand corner and sign your name on the line provided. Ballots received in any other manner will be disqualified.

Only members of the Pittsburgh section of the American Chemical Society are eligible to vote. All ballots must be received by the Secretary of the Pittsburgh Section by November 1, 2003.
Richard S. Danchik

Dr. Danchik received his B.S. in chemistry from Duquesne University and earned his Ph.D. in Analytical Chemistry from Wayne State University. He joined ALCOA in 1968 in the Analytical Chemistry Division where his research interests included atomic absorption spectrophotometry, electroanalytical techniques, selective ion electrodes and the development of automated process control systems.

In 1979, Dr. Danchik became Manager of ALCOA’s Environmental Health Laboratory and had the responsibility for the development of new methodology and instrumentation in the field of industrial hygiene chemistry. He also had the responsibility of managing the development and operation of the Environmental Health Laboratory. He is now consulting in the areas of analytical chemistry, environmental and industrial hygiene chemistry.

Societies: ACS (Councilor-1991 to present), American Industrial Hygiene Association, American Institute of Chemists (Fellow), ASTM(Fellow)-D-19, Committee on Water Analysis and D-22, Committee on Sampling and Analysis of Atmospheres (Present Chairman-D-22 Committee), Research Society of America (Sigma Xi), Society for Analytical Chemists of Pittsburgh (SACP), Spectroscopy Society of Pittsburgh (SSP), and Phi Lambda Upsilon.

Dr. Danchik was the 1991 Chairman of the Pittsburgh Section of the ACS. He has been actively involved with the Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy and was the 1986 Conference President. He has chaired numerous committees for the SSP. He was the 1979-1980 Chairman of the SACP. He is also active in the National ACS and was a member of the International Activities Committee (1991-2000) and is now the Subcommittee Chairman of the Meetings and Exposition Committee. He is a Pittsburgh Section Director for the ACS. He represents the United States on the International Standards Organization (ISO) for Workplace Atmospheres. He has been a member of the Advisory Board of Anal. Chem. and has authored or co-authored a number of technical articles and has previously authored the Nonferrous Metallurgy Review for Anal. Chem. He is also a member of the Editorial Board of the Applied Occupational and Environ. Hygiene Journal.