Greetings
Happy New Year!

As we begin the New Year we look forward to the future as we begin the next century of the Pittsburgh Section ACS building on the accomplishments of the past 100 years.

In 2004, we face challenges of providing our membership with opportunities for professional growth, of inviting our colleagues to join us as members of the Pittsburgh Section ACS, of continuing our very successful programs such as National Chemistry Week and the joint ACS/SACP/SSP Tripartite Symposium and of beginning new programs. I invite you to participate in section activities and to offer suggestions that will help our section grow.

Thank you to Myron Shaffer for the leadership and guidance that he has provided to the Pittsburgh Section during 2003. Thank you to all who served as officers or on committees. I look forward to working with the executive committee and all the members to promote chemistry in our communities.

If you have any suggestions or requests, please contact me at Bilal988@cs.com.
The Pittsburgh Section’s 2003 National Chemistry Week (NCW) event was held at the Carnegie Science Center on Friday and Saturday, October 24-25, 2003. The theme for the 2003 NCW celebration was “Earth’s Atmosphere and Beyond.” A total of 267 volunteers (including high school students, educators, industry chemists and technicians, etc.), from 26 groups and organizations, conducted hands-on experiments, activities, and demonstrations. There were 10 theater-style shows, presented 23 times over the two-day period, in the various Science Center stages. Of the 267 volunteers, 99 (37%) were ACS members or affiliates (students, teachers, technicians, etc.). Total attendance for the two-day event was approximately 5223 (3278 on Friday, 1945 on Saturday).

Involvement with and participation in the Pittsburgh Section’s 2003 NCW program was seen from many sectors including city and state government officials, local companies and corporations, several prominent Pittsburgh based professional societies, secondary schools, colleges, universities, technical schools, and non-profit organizations. Proclamations for “Chemistry Week” were received from the Mayor of the City of Pittsburgh and the Governor of the Commonwealth of Pennsylvania.

For the 2003 NCW celebration, the Pittsburgh Section reached out to underrepresented “at-risk” minorities in the Southwestern Pennsylvania area to promote science education and science literacy. On October 24, 2003, 1347 students from eleven “Title 1” (economically and scholastically disadvantaged) school districts were provided an opportunity to participate in the NCW celebration at the Science Center. Without the financial support (general admissions and transportation paid for) from the Pittsburgh Section ACS and its sponsors (SACP and SSP), these students would not have participated in a science-related school field trip, due to the financial hardships each of these school districts face during the 2003-04 school year.

Additionally, the NCW program reached out to women and minorities through a partnership with the Southwestern Pennsylvania Girl Scouts. Financial support was provided for admissions and transportation for approximately 200 Girls Scouts from underrepresented “inner-city” minority areas, to participate in a special “NCW/Girl Scout Overnighter” and/or in the two-day NCW event. In all, over 700 Girl Scouts participated in the 2003 NCW activities, with 380 Girl Scouts earning a “NCW patch.”

The Pittsburgh Section wishes to thank the sponsors of the 2003 NCW event including Bayer Corporation, Carnegie Science Center, Society for Analytical Chemists of Pittsburgh, and the Spectroscopy Society of Pittsburgh. Without the continued financial support and in-kind donations from these organizations the Pittsburgh Section would not be able to organize and conduct a successful NCW event each year. Finally, thank you to the 267 volunteers who worked at the event. This event would not be possible without their dedication and support!

**NCW 2004**

The Carnegie Science Center has been reserved for two days for the Pittsburgh Section’s 2004 NCW event, Friday and Saturday, October 22-23, 2004. The NCW 2004 theme is “Health and Wellness.”
“Synthesis of Well-Defined Polymeric Materials with Polar Groups by Atom Transfer Radical Polymerization (ATRP). Some Applications”

Nicolay V. Tsarevsky
Department of Chemistry
Carnegie Mellon University, Pittsburgh, PA

Polymeric materials with polar groups have found significant application in fields such as paintings and coatings, water-purification and drug-delivery systems, responsive materials, etc. Several approaches to the synthesis of well-defined polymers with polar groups by ATRP will be discussed in this presentation: 1) direct polymerization of polar monomers, 2) use of functional ATRP initiators, and 3) post-polymerization modifications.

The direct ATRP of polar monomers has proved challenging due to side reactions of the metal-based ATRP catalyst with the reaction mixture components, which can completely deactivate the catalyst. The side reactions include disproportionation and displacement of halide ligands from the higher oxidation state ATRP deactivator, or protonation in the presence of acidic monomers. The direct polymerization of polar monomers can be carried out successfully provided that all mentioned side reactions are suppressed, and will be exemplified by the ATRP of water-soluble monomers in aqueous media.

The synthesis of disulfide-containing polymers and their reversible redox cleavage/coupling will be used to illustrate the introduction of a polar group in the polymer by the use of a functional ATRP initiator.

Finally, the post-polymerization modification of polymers prepared by ATRP will be illustrated by the synthesis of well-defined homo- and copolymers (both random and block) of 5-vinyltetrazole employing polyacrylonitrile-containing precursors.

Poster Presentations at 5:30pm during the Social Hour:

Zhenyu Gu: Controllable Microgels from Multifunctional Molecules: Structure and Size Distribution
Jinyu Huang: Synthesis of Well-defined Block Copolymers and Morphology Investigation
Elena Sheina: Novel Regioregular Poly(3-Alkoxysubstituted-thiophenes) Synthesized by Grignard Metathesis Method (GRIM)
Chuanbing Tang: Constructing Novel One, Two and Three-dimensional Nanostructured Carbons Prepared from Self-Assembled or Pre-assembled Polyacrylonitrile-base (co)Polymer Precursors

For dinner reservations please contact:

Michael L. White, PPG Industries Corporation (Tel: 412-492-5458, mlwhite@ppg.com) by Monday, January 12, 2004. Dinner is $16.00 per person; discount rate of $11.00 for retirees and no charge for students. There is a $5.00 restaurant charge for seminar only attendees. All are welcome
RESERVE JANUARY 31, 2004 as a DAY TO BE ENTHRALLED BY
3 EXPERTS IN FORENSIC SCIENCE

THE SOCIETY FOR ANALYTICAL CHEMISTS OF PITTSBURGH (SACP)
& THE SPECTROSCOPY SOCIETY OF PITTSBURGH (SSP) are SPONSORING a

SYMPOSIUM on FORENSIC SCIENCE

TIME:  Saturday, January 31, 2004
8:30 AM - 9:00 AM Registration  
9:00 AM - 12:00 PM Symposium  
12:00 PM - Lunch

PLACE: Duquesne University, Mellon Science Hall Auditorium

FEATURED SPEAKERS

Dr. Fredrick Fochtman - Dr. Fochtman is the Laboratory Director and Chief Toxicologist of the Forensic Science Laboratory of the Allegheny County Corner’s Office. Dr. Fochtman will present information regarding forensic science laboratory techniques, including the newest procedures and state-of-the-art laboratory instrumentation.

Mr. Paul D. Boas, Esq. - Mr. Boas is a notable criminal defense attorney in Pittsburgh, PA. He has been defense counsel in several high-profile criminal cases. He will discuss forensic evidence from the perspective of a defending attorney.

Mr. James Fisher - Mr. Fisher is a former FBI agent, author and Professor of Political Science and Criminal Justice at Edinboro University. His books include The Lindbergh Case and Crimson Stain. Mr. Fisher will discuss various techniques used for solving criminal cases and present some interesting anecdotes from his experiences as a FBI agent and researcher of criminal activity. (Mr. Fisher will be featured on Dateline-NBC in the near future.)

Symposium cost is $10.00 and should be payable by check to “SSP” and sent to SSP, C/O Forensic Symposium, 300 Penn Center Blvd, Suite 332, Pittsburgh, PA 15235

The symposium cost includes materials, refreshments, lunch and parking in 8 floor parking garage on Forbes Avenue in front of Duquesne University. Bring parking ticket to the seminar and you will be given a sticker for free parking. For location information go to the following Internet address: http://www.duq.edu/campusmap/indexf.html

For further information contact Manny Miller at 412-442-4148, millerm@pittcon.org or Shamantha Gunawardena at 412-421-3007, shamang123@hotmail.com

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FORENSIC SCIENCE SYMPOSIUM  FORENSIC SCIENCE SYMPOSIUM  FORENSIC SCIENCE SYMPOSIUM
Since September 11, 2001 a significant amount of time and capital has been invested to attempt to ensure the safety of our country’s emergency responder community and to properly equip them to deal with a terrorist initiated hazardous materials incident involving a weapon of mass destruction. This effort has concentrated on two areas: (1) personal protective equipment (PPE) designed to keep the emergency responder safe as he/she works in a dangerous environment, and (2) detection equipment designed to allow emergency responders to quickly identify the particular weapon of mass destruction (chemical, biological, radiological, nuclear, explosive) employed at the incident scene. During this presentation, typical protocols that hazardous material team employ when responding to an incident involving an unknown chemical or substance will be reviewed, personal protective equipment will be discussed and displayed, and an array of chemical, biological and radiological detection equipment will be reviewed and made available for inspection.

Biography

Westmoreland County Public Safety Executive Director, Richard J. (Rich) Matason earned his B.A. and commission as a Second Lieutenant in the United States Army Reserve from Duquesne University in 1968 and his M.A. from Duquesne University in 1970.

Director Matason’s military career in the Pennsylvania Army National Guard spanned 29 years, from 1971 to 2000 and included the command of the 28th Signal Battalion, located in Coraopolis, PA, a one-year tour as a student at the U.S. Army War College in Carlisle, PA, promotion to Colonel, and assignment as the Director of Military Support to Civil Authority (MSCA) at the Pennsylvania National Guard Headquarters at Fort Indiantown Gap. There he served as the Guard’s Emergency Management Officer and Anti-Terrorism and Force Protection Officer.

In February, 2000, Mr. Matason became the Executive Director of the Westmoreland County Department of Public Safety, with responsibility for Westmoreland County 9-1-1, emergency management, homeland security, hazardous materials response, fire safety, West Nile Virus Surveillance, and the county park police. He is Director of the County’s Hazardous Materials Team 800, a certified Radiological Response Officer, and a Terrorism Counteraction and Weapons of Mass Destruction Preparedness trainer. He has authored several articles on the benefits of a regional approach to emergency preparedness and response.

Director Matason is the vice-chairman of the Southwestern PA Emergency Response Group, also known as Region 13. He is a member of the International Association of Emergency Managers, the Keystone Emergency Management Association, the Association of Public-Safety Communications Officials, the PA Association of Hazardous Materials Technicians, the Governor’s Task Force on Security, and the Commonwealth Bio-terrorism Preparedness Advisory Committee.
Society for Analytical Chemists of Pittsburgh

January Meeting
Monday, January 5, 2004
Duquesne University
Maurice Falk Hall
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.

“Laboratory and Field Experiments Used to Identify the Odor Signature Chemicals Used by Dogs to Locate Drugs”
Kenneth G. Furton
International Forensic Research Institute
Florida International University

For more information, call Gerry Churley at 412/825-3220 X204 or email to churley@pittcon.org

Parking Instructions: Duquesne University Parking Garage entrance is on Forbes Ave. Upon entering the garage, receive a parking ticket and drive to upper floors. Pick up a sticker at the dinner/meeting. Contact Mitchell Johnson at Duquesne University if any difficulties arise.

ACS Pittsburgh Chemists Club
Pittsburgh Section, American Chemical Society

Tuesday, January 27, 2004

“Tools and Techniques Used at Forensic Science Laboratories”
by
Frederick W. Fochtman, Ph.D.

Duranti’s Restaurant
128 N. Craig St., Pittsburgh PA
6:00 PM Cocktail Time - Cash Bar
6:30 PM Dinner

For reservations, please call Ed Martin by noon, Friday, January 23, 2004

Microscopy, spectroscopy, and chromatography with the aid of computerization have become staples in examining forensic evidence. Procedures used for revealing the human genetic code are now routinely utilized to establish forensic identity. How these scientific and instrumental methodologies are used in the laboratory setting will be presented. Examples of cases where forensic science tools played an important role in solving the crime will also be presented.

Biography
Director, Masters of Forensic Science and Law Program; Associate Professor of Pharmacology - Toxicology

B.S. (Pharmacy)--Duquesne University M.S.--Duquesne University Ph.D.--Duquesne University

Dr. Fochtman is the Director of the newly developed Masters of Forensic Science and Law Program at Duquesne University. Prior to becoming Director of the Forensic Program, Dr. Fochtman had been a faculty member in the Duquesne University School of Pharmacy since 1978, teaching courses in Pharmacology and Toxicology. He is the author of a number of scientific presentations and journal articles in the area of forensic sciences. He also serves as a board member for the American Board of Forensic Toxicology, and the Drug Testing Advisory Board for HHS. Since 1998 Dr. Fochtman has served as the Director and Chief Toxicologist of the Allegheny County Coroner’s Office Forensic Laboratory Division. This section of the Coroner’s Office provides forensic and analytical testing services for Allegheny County.

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New SCIFINDER® Edition Positions CAS as Leading Synthetic Chemistry Resource

In its SciFinder 2004 Edition, Chemical Abstracts Service (CAS) has unveiled unique and powerful new capabilities for chemical reaction exploration and analysis. These enhancements are integrated with CAS’ weekly updated reaction database now containing seven million reactions, making SciFinder the essential synthesis research tool for the chemical and pharmaceutical industries. The new SciFinder version became available to CAS customers worldwide this week.

SciFinder’s new “Analyze Reactions” tool lets scientists profile reactions in terms of relevant categories, such as the catalyst used, solvent involved, the number of reaction steps or product yields. In record time, researchers can find reactions and increase their productivity.

“With SciFinder, scientists benefit from state-of-the-art exploration and analysis software capabilities, coupled with the intellectual contributions of CAS scientists who build our reaction databases,” said CAS Vice President, Marketing & Sales, Suzan A. Brown. “SciFinder’s new edition does more than ever to advance synthetic chemists’ productivity, efficiency and creativity.”

In addition to the new reaction features, SciFinder’s new version provides structure searches of the entire CAS substance collection or allows focus by substance classes, such as coordination compounds, mixtures, polymers, etc.

All of these enhanced applications in the SciFinder 2004 Edition are also available in the corresponding version of SciFinder Scholar for students and faculty. More information about SciFinder can be found on the CAS Web site at http://www.cas.org/SCIFINDER/.

ACS Cut and Paste November 2003

SPECTROSCOPY SOCIETY OF PITTSBURGH

January Meeting
Wednesday, January 21, 2004

Duquesne University
Mellon Hall of Science
Maurice Falk Auditorium

6:00 PM - Dinner (City View Cafe - 6th Floor)
8:00 PM - Business Meeting
8:15 PM - Speaker’s Presentation

“Infrared & Raman Imaging in Forensic Toxicology & Microbiology”

Kathryn Kalisinsky
Armed Forces Institute of Pathology

For more information, call Gerry Churley at 412/825-3220 X204 or email to churley@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.

Member Alert
ACS Amendment to Board Regulation IX

At the ACS National Meeting in New York, Board Regulation IX was amended. The purpose of the amendment is to help ensure that members and users of ACS programs, products, and services be made aware that ACS is the provider. The Committee on Professional & Member Relations recommended to the board and the board passed a resolution amending its regulations as follows:

d. “All publications, products, services, and programs of the society and their marketing and promotional communications shall clearly be identified as being provided by the American Chemical Society, unless the executive director determines that there is compelling reason for an exemption from these requirements.”

If you have any questions regarding this amendment, please contact the ACS Membership Division at (202) 872-6379 or contact pmr@acs.org or c_avery@acs.org

ACS Cut and Paste November 2003

January 2004 / The Crucible
Recognizing Scientists Behind R&D

The American Chemical Society invites industrial chemical companies to nominate its scientists for the Regional Industrial Innovation Award.

Why should you nominate?

• To recognize industrial researchers for their creative and valuable contributions
• To promote the importance of the chemical profession and the support of corporate leadership in advancing science
• To enhance the company’s public image by promoting awareness about good science and successful commercialization
• To showcase the advances of industrial companies within your region

How to place a nomination?

Visit www.chemistry.org/industry/regionalawards or contact 1-800-227-5558, ext. 4373. Nominations are due by January 15, 2004.

ACS Cut and Paste November 2003

Anaheim National Meeting
Presidential Events

Presidential Colloquium on Nanoscience and Technology. Scheduled for Sunday afternoon, this event will feature experts who will review the basics of nano research in a variety of fields and offer insights into future development possibilities. Speakers who, at press time, had accepted include Jillian Buriak, University of Alberta; Donald Eigler, IBM Almaden; Arthur Ellis, National Science Foundation; James Heath, California Institute of Technology; George Lisensky, Beloit College; and Mark Ratner, Northwestern University. A reception will follow, featuring artistic renditions of nanomaterials.

Related divisional programming includes:

• Nanoscale Chemical Analysis of Biological Systems (ANYL)
• Biochemical Aspects of Nanoscience (ANYL)
• Informatics Challenges in Nanotechnology (CINF)
• Surface Chemistry of Inorganic Materials (INOR)
• Nanoscience in Inorganic Chemistry (INOR)
• Optical Microscopy Beyond the Diffraction Limit (PHYS)
• Nanocrystals and Nanotubes (PHYS)

Tri-Presidential Symposium: the NRC Report “Beyond the Molecular Frontier,” cosponsored by the President-Elect, and Immediate Past President. Scheduled for Sunday evening, this symposium will feature participants in the development of this report which identifies opportunities and challenges for chemical practitioners in the 12th century. Speakers who, at press time, had accepted include Ronald Breslow, Columbia University; Uma Chowdhry, Dupont Co.; Michael Sailor, University of California-San Diego; Ellen Stechel, Ford Motor Co.; and Matt Tirrell, University of California-Santa Barbara. The report can be read for free on the web at :http://www.nap.edu/catalog/10633.html. At the same location, there is an excellent short summary of the report that can be downloaded as a pdf file.

Related divisional programming includes:

• Feedstocks for the Future: Renewables for the Production of Chemicals and Materials (CELL)
• Inspired by Nature. From Biosynthesis to Advanced Renewable Materials (CELL)
• Advances in Pharmacophores and 3D Searching (CINF)
• The Bigger Picture: Linking Bioinformatics to Cheminformatics (CINF)

See the Anaheim program (C&EN issues of Feb. 2 and Mar. 8) for more details.

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January

Mon.  5  Society for Analytical Chemists of Pittsburgh (SACP)  
Duquesne University, Maurice Falk Hall  
“Laboratory and Field Experiments Used to Identify the Odor Signature Chemicals Used by Dogs to Locate Drugs”  
Kenneth G. Furton, International Forensic Research Institute, Florida International University

Wed  14  Polymer Group  
Duranti’s Restaurant  
“Synthesis of Well-Defined Polymeric Materials with Polar Groups by Atom Transfer Radical Polymerization (ATRP). Some Applications”  
Nicolay V. Tsarevsky, Department of Chemistry, Carnegie Mellon University, Pittsburgh, PA

Wed. 21  SSP Technology Forum  
Mellon Science Hall  
“Hazardous Materials Team Response to a Weapons of Mass Destruction Incident”  
Richard J. Matason, Director, Department of Public Safety, Westmoreland County

Wed. 21  Spectroscopy Society of Pittsburgh  
Duquesne University, Maurice Falk Hall  
“Infrared & Raman Imaging in Forensic Toxicology & Microbiology”  
Kathryn Kalisinsky, Armed Forces Institute of Pathology

Tue.  27  ACS Pittsburgh Chemists Club  
Duranti’s Restaurant  
“Tools and Techniques Used at Forensic Science Laboratories”  
Frederick W. Fochtman, Ph.D.

Sat.  31  SACP and SSP Symposium on Forensic Science  
Duquesne University, Mellon Science Hall Auditorium

The Crucible

A newsletter of the Pittsburgh Section of the American Chemical Soci-

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