The Third Year of Project SEED at Duquesne University

Some high school students might believe that they are too busy having fun during the summer to join the Project SEED Program; but believe me it can be done, and I know several students who have done it! For example, while attending Duquesne University’s Project SEED program this past summer Jasmine Blair managed to juggle a part-time job at Eat ‘n Park and dance team practice. Jasmine learned how to examine household products using powder X-ray diffraction. Under the supervision of Assistant Professor Jennifer Aitken, Jasmine helped design a new laboratory experiment titled “Powder X-ray Diffraction of Unknown Household Products,” which will be carried out in the Honors General Chemistry Laboratory Course this coming spring semester at Duquesne. “The Project SEED Program has enabled me to follow step-by-step directions and complete experiments with little supervision, which helped to prepare me for the real world,” commented Jasmine. Tristan Stagger also participated in Project SEED while continuing to work at Taco Bell in the evenings and heavily training for his upcoming track session. Tristan’s project, also carried out in Aitken’s lab, involved the preparation of intermetallic compounds, such as AuIn2, using solid-state microwave irradiation. Since Tristan, supervised by Duquesne University graduate student Jonathan Lekse, was able to prepare these types of compounds for the first time using this microwave method, his results will be included in a publication that will be submitted later this year.

Project SEED, a summer educational experience for economically disadvantaged high school students, ran for a third year at the Department of Chemistry and Biochemistry at Duquesne University. This year the program expanded from 4 to 7 deserving students, including Jasmine Blair and Geralda Joseph from Taylor Allderdice High School, Nicole Navolio from Highlands High School, Alexander Nunley and Tristan Stagger from Central Catholic High School, and Danielle Ries and Christopher Sidun from Sto-Rox High School. This year’s SEED activities included laboratory safety training, library usage training, and several field trips to local chemical companies, as well as college tours at Duquesne University and Washington and Jefferson College.

“I learned to be professional and act like I have been there before. I also learned that, whenever possible, learn as much as I can from different people.” This was what Alexander Nunley said when asked what he learned from his Project Mentor, Associate Professor Partha Basu. Christopher Sidun said that working with his mentor, Professor Jeffry Madura, made him “not only a better

Continued on Page 8
2006 Eastern Analytical Symposium and Exposition

Celebrating the Diversity of Science

November 13–16, 2006

Why Eastern Analytical Symposium This November?

- We are the second largest conference and exposition for laboratory science in the United States.
- We offer high quality cutting-edge technical sessions.
- We have state-of-the-art short courses, workshops and seminars.
- We showcase the latest innovations in scientific instrumentation and technology at our exposition.
- We have diversity and depth of interest.
- We are conveniently located just 30 minutes away from a major international airport.

Please visit us at our website for information on our programs and registration.

www.eas.org • askeas@aol.com
The 2006 National Chemistry Week (NCW) celebrations in Pittsburgh will be held on Friday, October 27 and Saturday, October 28, at the Carnegie Science Center. Join in the NCW activities as the Pittsburgh Section of the American Chemical Society (ACS) celebrates this year’s NCW theme “Your Home-It’s All Built on Chemistry.”

**This year’s event will highlight:**

- Chemistry in and around the home
- Materials used to build homes
- Home safety and preparedness
- Recycling and conservation in the home
- Kitchen Chemistry

**Theater Shows - Prizes - Surprises**

- Visit 25 tables with hands-on experiments, activities, and demonstrations
- Register to win a chemistry set or one of several prizes
- Catch special NCW-related theater shows throughout each day
- There is no charge for parking at the Carnegie Science Center
- Access to the NCW celebration in the Carnegie Science Center’s first floor lobby is free!

For more information contact the Carnegie Science Center at (412) 237-3410 or the Pittsburgh Section’s NCW Coordinator Michael Mautino at (412) 777-4792 or michael.mautino@bayerbms.com

For more information about the Pittsburgh Section’s 2006 NCW event visit http://membership.acs.org/P/Pitt/activities.html#week

**Bio**

Professor Richard Griffiths is a physics graduate of Imperial College London (1968) and the University of Leicester (Ph.D. 1972). He has worked in the USA since 1976, initially in the X-ray astrophysics group at the Harvard-Smithsonian Center for Astrophysics, where he worked on X-ray satellite data and developed the first CCDs for X-ray imaging and spectroscopy. In 1983 he took a position at the Space Telescope Science Institute, working on the Wide Field and Planetary Cameras on the Hubble, and later switched to a faculty position at Johns Hopkins University. He took up a physics faculty position at CMU in 1996.

Griffiths’ research programs are in space astronomy, especially deep surveys using current earth-orbiting optical and X-ray...
October Meeting
Wednesday, October 18, 2006
Duquesne University,
Mellon Hall of Science
(Maurice Falk Hall)
6:00 PM - Social Hour, 6:30 PM-Dinner
(City View Cafe - 6th Floor)
8:00 PM - Business Meeting
8:15 PM - Speaker’s Presentation

“Preliminary Examination of the Comet Wild 2 Samples
Returned by the Stardust Spacecraft”

Dr. Michael E. Zolensky
NASA Space Center

The sample return capsule of the Stardust spacecraft was successfully recovered in northern Utah on January 15, 2006, and its cargo of coma grains from Comet Wild 2 has now been the subject of intense investigation. This presentation will present the “final” results from the preliminary analyses that will have been performed. The period since spacecraft recovery has been sufficient to permit numerous analyses by over 200 researchers, and to permit some understanding of the following fundamental sample issues:

1. Comet nucleus composition, mineralogy, petrology, isotopic composition and grain physical properties
2. Sample variability
3. Type and degree of sample alteration by the collection process, and subsequent sample handling
4. Sample documentation and handling procedures
5. Comparisons to what was reported by the Deep Impact Mission to Comet Temple 1

Bio

Dr. Michael Zolensky received his B.S. degree in Geology in 1977 from the New Mexico Institute of Mining and Technology, and his Ph.D. in Geochemistry in 1983 from Pennsylvania State University. From 1975 to 1977 he was a Student Assistant for the New Mexico Bureau of Mines, and from 1977 to 1983 he worked as a Research Assistant for the Department of Geosciences at Penn State. From 1983 to 1985 he served as a National Research Council Postdoctoral Fellow at the NASA Johnson Space Center. Since then he has worked as a Space Scientist at the NASA Johnson Space Center. His primary area of expertise is in crystallography, mineralogy, geochemistry, and planetary science.

Dr. Zolensky is currently involved with the Cosmic Dust Working Group, the Stardust Working Group, and the Council of the Meteoritical Society. His current duties involve research on solar system materials and processes, and he is the NASA Associate Curator for Stardust, interplanetary dust, and hardware returned from space. He is also co-investigator of the STARDUST Discovery Mission, and the Sample Analysis lead for the Hayabusa Mission Space Team.

Mike has lead or participated in successful meteorite recovery expeditions on four continents, and in the development of techniques for characterization of meteoroid and space debris impact features on spacecraft. He led the effort to characterize the impact record of the LDEF satellite, and developed new techniques for the analysis of microparticles, and the characterization of the chemical weathering record of asteroids, and primitive mineralogy of comets. He is also leading efforts to locate and characterize aqueous fluid inclusions in meteorites.

Mike is a Fellow of the Meteoritical Society, and of the Mineralogical Society of America, and has received NASA Group Achievement Awards for leading the LDEF Meteoroid and Debris Investigation Team and Science Team of the STARDUST Mission. He has also received the National Science Foundation Antarctic Service Medal, and has the honor of having a minor planet named after him - Minor Planet 6030-Zolensky. He also has over 400 publications.

Dinner Reservations: Please call John Koczko at (412) 655-8497 or e-mail jpk@unitysystems.com to make dinner reservations NO LATER THAN FRIDAY, October 13, 2006. Dinner will cost $8 and checks can be made out to the SSP. If you have dietary restrictions, please let John know when you RSVP.

Parking Instructions: The Duquesne University Parking Garage is located on Forbes Avenue. Upon entering the garage, receive parking ticket and drive to upper floors. Pick up a parking chit at the dinner or meeting. If any difficulties arise, contact Dr. Mitch Johnson at Duquesne University.
POLYMER GROUP
Pittsburgh Section
American Chemical Society

October 18, 2006
Duranti’s Restaurant
128 N. Craig St.

Social Hour (cash bar) 5:30 pm
Dinner 6:30 pm
Technical Presentation 7:30 pm

“Utilizing Renewable Resources for Polymer Chemistry”

Robert T. Mathers
Department of Chemistry,
Penn State University New Kensington

The integration of renewable resources and catalysis for the synthesis of polymers will be presented. Monoterpenes, such as d-limonene, are produced in large quantities as a by-product of the citrus industry. d-Limonene has been utilized as a renewable solvent and chain transfer agent for ring opening metathesis polymerizations. A variety of monomers were polymerized in d-limonene. The resulting polymers were characterized by NMR and gel-permeation chromatography (GPC). This talk will discuss the polymer characterization and explain how chain transfer agents can produce useful polymer architectures.

For dinner reservations please contact Nick Tsarevsky 412-268-1872; e-mail: nvt@cmu.edu no later than Tuesday, October 17, 2006. The cost of dinner is $19.00 per person; discount rate of $11.00 for retirees; no charge for students. All are welcome!

Technology Forum
Continued from Page 3

telescopes, part of the work of observational cosmology. The largest program that he has led is the Medium Deep Survey, a Key Project using the Hubble Space Telescope. This survey used the Wide Field Camera in serendipitous mode, taking pictures of random, unknown areas of sky while the telescope was simultaneously collecting data from known targets using other instruments. The images of tens of thousands of galaxies have been used to unravel the origin and evolution of galaxies, from giants like the Milky Way to the much more numerous dwarf galaxies. He has been putting constraints on cosmological parameters, as well as measuring the evolution of different galaxy types. With his research group, he has also found strong gravitational lenses, and has measured the frequency of galaxy mergers.

Before working on the Hubble Space Telescope project, Professor Griffiths’ background was in the field of X-ray astronomy, and he now continues to work on the origin of the X-ray background from space, using data in the form of deep images taken with earth-orbiting X-ray telescopes (XMM-Newton and the Chandra X-ray Observatory). He has found that the X-ray background has its origin in quasars and other active galactic nuclei, and some of it originates in starburst galaxies. With images from these satellites, he uses some of the world’s largest telescopes to identify the kinds of galaxies which are the greatest producers of X-rays. He has recently been working on data from the Japanese satellite Suzaku.
Imaging Mass Spectrometry (IMS) is a new molecular discovery technology that takes advantage of the methodology and instrumentation of MALDI mass spectrometry. It can be used to locate specific molecules such as drugs, lipids, peptides and proteins directly from the surface of fresh frozen tissue sections. Frozen tissues specimens are cut in very thin (~10 mm) sections and thaw-mounted on flat metallic target plates. Matrix can be manually or automatically deposited on the sections. Molecular profiles recovered upon analysis typically contain from 300 to 500 or more distinct signals in the m/z range beyond 200,000. When imaging from a tissue section, matrix is deposited in a homogeneous manner minimizing the lateral dispersion of molecules of interest. This can be achieved by automatically printing arrays of small droplets. Each microspot is then automatically analyzed generating a mass spectrum. When monitoring the intensity of a signal within the data array, a two-dimensional ion density map (or image) can be reconstructed giving information on the location and relative abundance of a given analyte. From the analysis of a single section, images at virtually any molecular weight may be obtained.

IMS is an effective discovery tool for the qualitative and quantitative analysis of molecular signatures that may differentiate unhealthy and normal tissues and for identification of potential protein markers in disease progression. In this regard, histology directed profiling permits higher sample throughput and reproducibility. The visual specificity of histology is combined with the positioning accuracy of the robotic microdispenser to direct placement of matrix drops onto specific cells with high placement accuracy. Processing digital images of the spotted plate provides relative locations of each matrix spot. These coordinates are transferred and registered to the mass spectrometer for automated data acquisition. Thousands of molecular profiles can now be acquired from large sample sets in very short periods of time, improving analysis statistics. The margins of lesions can be further imaged to define the extent of the molecular advances in surrounding healthy tissues. The ability to construct 3-D molecular images will also be shown. In addition, IMS technology has been successfully applied to drug targeting and metabolic studies and the measurement of concomitant protein changes in specific tissues after systemic drug administration. Identification of statistically significant protein markers can be identified in high throughput mode by mass spectrometry based proteomic approaches.

**Bio:** Richard M. Caprioli is the Stanley Cohen Professor of Biochemistry and Director of the Mass Spectrometry Research Center at Vanderbilt University School of Medicine. He is also currently Professor in the Department of Chemistry and Pharmacology at Vanderbilt University. Dr. Caprioli received his B.S. in 1965 from Columbia University in New York, N.Y., his Ph.D. in 1969 in Biochemistry, also at Columbia University with Professor David Rittenberg. He did a one-year postdoctoral fellowship at Purdue University with Professor John H. Beynon. In 1970, he was appointed Assistant Professor of Biochemistry at Purdue. In 1975, Dr. Caprioli moved to the University of Texas Medical School in Houston where he was Professor of Biochemistry and Molecular Biology and Director of the Analytical Chemistry Center until his move to Nashville in early 1998.

Professor Caprioli is interested in the use of mass spectrometry for the analysis of compounds in biological systems. Current work includes the use of electrospray and laser desorption ionization methods with biological tissues and samples. Applications have focused on the development of this instrumentation and associated methodologies to achieve ultra-high sensitivity detection of endogenous compounds (e.g., neuropeptides) in live animal systems. Recent work involves the development of Imaging Mass Spectrometry, a technique whereby molecular images of peptides, proteins, drugs and other compounds are localized in tissue sections with molecular weight specificity. This method involves molecular mapping of animal tissue through the production of ion images obtained from the analysis of mammalian tissue. Applications to specific research areas involve questions about certain spatial distributions of molecules within specific tissues, e.g., mapping proteins in cancer tissue. Specific applications include human glioblastomas, aberrant mouse colon crypts, and mouse prostate tumors.

Dr. Caprioli has been a member of the American Society for Mass Spectrometry since 1975; he recently served two years each as President of the Society and Vice-President for Programs. He is a member of the American Society for Biochemistry and Molecular Biology and the American Association for Cancer Research. Professor Caprioli has been the Editor-in-Chief of the Journal of Mass Spectrometry since 1990. He is currently co-editing several volumes of Encyclopedia of Mass Spectrometry. He has published over 300 scientific papers, including three books. In 2003, Dr. Caprioli received the Thomson Medal Award from the International Mass Spectrometry Society for “for outstanding achievements in mass spectrometry and for distinguished service to international mass spectrometry.” He received the Field and Franklin Award from the American Chemical Society in April, 2006.

**Dinner Reservations:** Please e-mail Rita Windisch at windisch@pittcon.org, by Thursday, September 28, 2006 to make dinner reservations. Rita’s preference for reservations is an e-mail. Should you not have e-mail, please call the SACP Administrative Assistant at 412-825-3220 ext 204. If you want to be placed on the permanent dinner list, please let Rita know when you RSVP. Dinner will cost $8 ($4 for students) and checks can be made out to the SACP. If you have any dietary restrictions, please let Rita Windisch know when you leave message.
Mr. Ruppel will present a vision of energy in the 21st century world. It will be a world of insatiable appetite for an ever increasing demand for more energy. The pressures of energy, population growth, and the rising expectations of personal well-being will be seen in an uncertain energy-constrained world.

The inventions of the wheel (axle) and control of fire from caveman to the electrified city of the philosopher will be shown through fossil, nuclear, hydroelectric, solar, fuel cell, and wind energy technologies. The chemistry of coal conversion processes and the unlimited opportunities for chemists and chemical engineers in the 21st century will be outlined.

Biography
Mr. Ruppel was an environmental engineer with the U.S. Department of Energy’s National Energy Technology Laboratory in Pittsburgh (Bruceton). He spent the decade before his retirement in 1996 acting as the environmental specialist on several projects to reduce pollution emissions from coal-fired power plants in the Department of Energy’s seven billion dollar Clean Coal Technology Demonstration Program. He was the Coordinator of the National Energy Technology Laboratory’s annual Conference on Unburned Carbon on Utility Fly Ash, having started the conference in 1995.

He is a past Chairman and Director of the Pittsburgh Section of the American Chemical Society. He is a member of the Allegheny Mountain Section of the Air & Waste Management Association (AWMA), having chaired sessions on NOx control regulations at AWMA national meetings. He is the author of approximately 40 publications and presentations. He holds a B.S. degree in chemistry from Duquesne University, a B.S. degree in chemical engineering, and an M.S. degree in chemistry from the University of Pittsburgh. Mr. Ruppel is a Qualified Environmental Professional emeritus.
When asked if the Project SEED experience affected her career aspirations Geralda Joseph commented that, “at first, I was kind of scared to go to college and be in a college lab, but after this summer experience, I am no longer afraid.” Geralda’s experience was working on profiling mammalian tissue for bioactive lipids in the lab of Associate Professor Mitch Johnson. “The most important thing I learned in this program was that chemistry is much broader than I thought. There are so many different aspects of chemistry I never knew,” said Danielle Ries a SEED student who worked in Assistant Professor Ellen Gawalt’s Laboratory. This is what Project SEED is all about, having a positive effect on young students and encouraging them to pursue careers in the chemical sciences. This is why Dr. Jennifer Aitken and Dr. Michael Leonard, an assistant professor at Washington and Jefferson College, have coordinated SEED programs at their institutions for the past three years along with the help of the Pittsburgh Section ACS committee on Project SEED headed by Tabitha Riggio.

This year Alexander Nunley returned to the Project SEED program for a second summer. His project focused on the investigation of molybdenum compounds using cyclic voltammetry. Alexander, together with Christopher Sidun, attended the first ever NJ, PA and DE Project SEED Career Conference and Summer Research Symposium where they presented their work. The two students flew, for the first time in their lives, to Philadelphia, where they were picked up from the airport by Project SEED organizers from Rider University in New Jersey. The two were able to make contacts with other SEED students and also meet with successful scientists who were invited as guest speakers to the symposium.

The Project SEED program would not be possible without generous donations from friends and local companies. This year’s program at Duquesne University was supported by: Bayer, PPG Industries, the Spectroscopy Society of Pittsburgh, Westinghouse, Mr. Marc McKithen, the Pittsburgh Section ACS, R & R Electronics and the National Project SEED program.

The Bayer School of Natural and Environmental Sciences at Duquesne gave additional support in the form of free lunches for all SEED students. “We hope that more people will contribute in the future, so that we can extend this program to high school teachers as well. The high school teachers would work along side the SEED students. The teachers would then be able to bring their cutting-edge summer research experience back to their high school classrooms during the school year,” says Aitken.

Continued support is needed for the 2007 program. We encourage those who donated to continue their support in the future. For those who have yet to donate, please consider what a profound impact this program can have on the life of a student. We are certain that with continued support from the Pittsburgh area, there will be more success stories to report in the future.

*Article written by Jasmine Blair and Dr. Jennifer Aitken*
Dr. Percy L. Julian, “Forgotten Genius”

In 1999, the Committee on Minority Affairs (CMA) presented a program in observance of the 100th Anniversary of the birth of Dr. Percy L. Julian, the eminent African American organic medicinal chemist. About that same time, the management team of NOVA, which produces award winning science and technology television films for PBS station WGBH in Boston, decided to produce biographies of four eminent, historically significant scientists. They immediately selected Einstein, Galileo and Madame Curie. Upon hearing about the CMA program scheduled for March 22, 1999, Steve Lyons and Llew Smith, NOVA producer/directors, made plans to be in Anaheim for the 217th ACS National Meeting. After also attending celebrations and additional observances at DePauw University, where Dr. Julian was honored with a National Historic Chemical Landmark for his physostigmine synthesis, and his hometown of Chicago sponsored by the Chicago Section, there was no doubt as to who would be the subject of the fourth film biography.

Dr. Julian’s achievements are legendary. After receiving his Ph.D. from the University of Vienna in 1931, he went on to synthesize the glaucoma drug physostigmine, serve as director of fine chemicals and food research for the Glidden Co., develop processes for the synthesis of steroid intermediates leading to cortisone and female hormones, and develop processes for the isolation from soybeans of pure soya protein, phosphatides and lecithin for use as food products.

The soya protein was requisitioned by the Navy for use in fighting fires aboard ships and planes, saving thousand of lives. Dr. Julian left Glidden in 1954 to establish his own laboratory, which he sold to Smith, Kline and French in 1961 for $2.5M. Along with having consulting arrangements with several major pharmaceutical companies, he went on to establish another research laboratory which he headed until his death in 1975. Dr. Julian had more than 100 patents and 60 scholarly publications. He received 19 honorary doctorates and numerous other honors and awards. In 1998, he was recognized by Chemical and Engineering News as one of the “Top 75” Contributors to the Chemical Enterprise. He was honored by the U.S. Postal Service by the issuance of a commemorative stamp in the Black Heritage Series in 1993.

The film has now been made by NOVA/ WGBH, with some critical and timely support from the American Chemical Society. In a very real sense, we will come full circle when we gather in San Francisco at the 232nd ACS National Meeting to celebrate the making and showing of the film, titled “Forgotten Genius.” There will be a full day symposium, “Dr. Percy L. Julian: Scientist, Humanist, Educator, Entrepreneur, and Inspirational Trailblazer,” which will conclude with 30 minutes of film excerpts. The film is scheduled to be shown nationally on Public Television on February 6, 2007. The symposium is a Presidential Event, sponsored by the Committee on Minority Affairs, with significant collaboration with the Board Task Force on Percy Julian, and numerous cosponsors. See C&EN and chemistry.org for further important details.

Jim Shoffner, Chair
Percy Julian Symposium Committee
Linette Watkins, Chair
Committee on Minority Affairs

ACS Cut and Paste July/August 2006

Nominations Sought for the Gustavus John Esselen Award for Chemistry in the Public Interest

The Esselen Award for Chemistry in the public interest is one of the most prestigious honors provided by the Northeastern Section of the American Chemical Society. The award annually recognizes a chemist whose scientific and technical work has contributed to the public well-being, and has thereby communicated positive values of the chemical profession. The awardee should be a living resident of the United States or Canada at the time of nomination, and the significance of this work should have become apparent within the five years preceding nomination. The Esselen Award has no limitations with respect to the chemical field in which the nominees are active.

The award consists of a medal and a check for $5,000. Travel expenses incidental to the conferring of this award will be reimbursed. The award will usually be held in Cambridge, Massachusetts at the April meeting of the Northeastern Section. The awardee will deliver an address on the subject of the work for which the honor is being conferred, or for work in progress which is also directed to chemistry in the public interest.

To nominate a candidate, please provide statements from two co-sponsors as well as a brief biography of the candidate, a description of the work which has been recognized as communicating the positive values of the chemistry profession and copies of selected, pertinent articles. Popular news and feature articles should be included as an indication of public interest. Nominations and inquiries should be directed to Dr. Robert S. Langer, c/o Karen Piper, 19 Mill Road, Harvard MA 01451. Nominations should be posted no later than October 15, 2006. Joint nominations are acceptable. The committee will review the nominations and the award recipient will be notified by the first of February.
SOCIETY FOR ANALYTICAL CHEMISTS OF PITTSBURGH

Dues Only $5.00/year, Call Valerie Daugherty 412-825-3220 Ext. 204 Right Now!

PROTECT
Your Expensive Lab Work With Research and Development Record Books

STOCK RECORD BOOKS
B500  — Fifty pages and fifty duplicates 1/4 inch sqs. on right pages
B100P — 100 - 1/4 inch sqs. on right pages 100 - 10 sqs. per inch on left pages.
B200P — 200 1/4 inch sqs. on right and left pages
B200PH - 200 horizontally lined right and left pages.

Books have instruction and TOC’s. Page size 11 x 8 1/2
Hard extension brown cloth covers. Pages open flat.
$15.00 EACH, FOB Chicago

CUSTOM MADE BOOKS TO ORDER
Scientific Binder Productions
2612-15 W. Nelson, Chicago, IL 60618
Phone: 773-267-1129 Fax: 773-267-1218

Robertson Microlit Laboratories

• Elemental CHN, S, X. Analysis - same day service
• Metals by ICP-OES, ICP-MS, A/A
• FTIR, UV/VIS Spectroscopy
• Ion Chromatography
• Bioavailability
• Polarimetry
• DSC
• KF Aquametry, Titrimetry

P. O. Box 927  • 29 Samson Avenue  •  Madison, NJ 07940
Tel: (973) 966-6668  •  Fax (973) 966-0136
www.robertson-microlit.com  •  email: results@robertson-microlit.com

FDA Inspected

SCHWARZKOPF
Microanalytical Laboratory

Elemental & Trace Analysis
Organsics, Inorganics
Organometallics
Metals by AA & Graphic Furnace
Functional Grps. - Mol. Wt.
Calorimetry
Total S, F, Halogens TOX
Coneg Testing Custom Analysis
36-19 37th Ave. Woodside, N.Y. 11377
(718) 429-6248
schwarzkopfmicro@aol.com

Society for Analytical Chemists of Pittsburgh

Calling New Members

Desert Analytics

Surface Analysis (AFM, ESCA, Auger, SIMS)
AA/ICP/DCP
Classical Analysis
IR/Near IR/UV/Vis/Raman
NMR (Liquids, Solids, LC)
MS (Probe, GC, LC, MS/MS, High Res)
Chromatography (GC, HPLC, GPC, IC)

Contact Timothy Flood
(724) 325-5163 or ppglabs@ppg.com

Desert Analytics
245 S. Plumer, #24
Tucson, Az 85719
520.623.3381
WWW.DESERTANALYTICS.COM

Analysis for the Chemical Elements

Specialized Analytical Testing
INDSPEC Chemical Corporation
• Chromatography
• Absorption Spectroscopy
• Physical Measurement
• Chemical Analysis
• Thermal Analysis
For further information, please contact the Manager
Analytical Testing Services Harmarville Technical Center
412-826-3666, E: Barbara_Buchner@oxy.com

Polymer Problems?
Complete Polymer Deformulation
Good vs. Bad Comparison
Expert Witness

Testing Services:
• DSC, TGA, IR, UV, Vis, GC, HPLC, NMR
• Light Scattering, GPC/SEC, MW, MWD
• Viscometry
• Mass Spec.

JORDI
(508) 966-1301
jordifdp@aol.com
PITTSBURGH SECTION OFFICERS

Chair:
James Manner
125 Oak Pointe Dr.
Monroeville, PA 15146
412-372-6390
manner@peoplepc.com

Chair-Elect
Christina Mastromatteo
PPG Industries
440 College Park Dr.
Monroeville, PA 15146
724/325-5318
mastromatteo@pittcon.org

Secretary
Leone Hermans-Blackburn
Bayer Polymers
100 Bayer Rd.
Pittsburgh, PA 15205
412-777-7509
leone.hermans-blackburn@bayerbms.com

Treasurer
Peg Kendi
100 Bayer Rd.
Pittsburgh, PA 15205
412-777-3919
peg.kendi@bayerbms.com

EMPLOYMENT
The Crucible will accept at no charge,
POSITION WANTED ADS
from unemployed ACS members
Contact:
Traci Johnsen
124 Moffett Run Rd.
Aliquippa, PA 15001
724-378-9334
e-mail: tracijohnsen@comcast.net

The Crucible
Material must be received by the 1st of the month prior to publication for inclusion in The Crucible. This rule will be enforced in order to distribute The Crucible to readers in a timely manner (before the 1st day of every publication month).

The Crucible is published monthly, August through May. Circulation, 3,000 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.

Editor
Traci Johnsen
124 Moffett Run Rd.
Aliquippa, PA 15001
Phone: 724-378-9334
Fax: 724-378-9334
tracijohnsen@comcast.net

Advertising Editor
Vince Gale
MBO Services
P.O. Box 1150
Marshfield, MA 02050
Phone: 781-837-0424
Fax: 781-837-1453
cust-svc@adelphia.net

SPECTROSCOPY SOCIETY OF PITTSBURGH
Dues Only $5.00/year
Call Jennifer Cassidy Right Now!
412-825-3220 ext 218

SEARCHING FOR THAT SPECIAL JOB?
There are many companies and organizations searching for chemical and biochemical personnel to fill important jobs in their organizations.

- Companies for laboratory and management positions
- Universities & Colleges for teaching positions and laboratory personnel
- Hospitals for technical and research personnel

There are several web sites that may help you search for these open positions.

- www.mboservices.net/recr_disp.php
- http://pubs.acs.org/chemjobs/

ADVERTISERS INDEX
Chemir Analytical Services 10
Chemo Dynamics LP 5
Desert Analytics 10
Eastern Analytical Symposium 2
Chemical Corporation 10
Jordi FLP 10
MASS VAC, Inc. 8
Micron inc. 11
PPG 10
Robertson Microlit Laboratories 10
Schwarzkopf Microanalytical 10
Scientific Bindery Productions 10
Society for Analytical Chemists of Pittsburgh 10
Spectroscopy Society of Pittsburgh 11
October

Mon.  2  Society for Analytical Chemists of Pittsburgh (SACP)
“In Situ Molecular Profiling/Imaging of Proteins in Tissues by MALDI MS”
Richard Caprioli, Ph.D., Vanderbilt University
Duquesne University, Mellon Hall of Science

Wed. 18  Spectroscopy Society of Pittsburgh (SSP) Technology Forum
“X-ray Astronomy and the Cosmic X-ray Background”
Professor Richard E. Griffiths
Carnegie Mellon University

Wed. 18  Spectroscopy Society of Pittsburgh (SSP)
“Preliminary Examination of the Comet Wild 2 Samples Returned by the Stardust Spacecraft”
Dr. Michael E. Zolensky, NASA Space Center
Duquesne University, Mellon Hall of Science, Maurice Falk Hall

Wed. 18  Polymer Group, Pittsburgh Section ACS
Duranti’s Restaurant
“Utilizing Renewable Resources for Polymer Chemistry”
Robert T. Mathers, Department of Chemistry, Penn State University, New Kensington

Tue.  24  ACS Pittsburgh Chemists Club
Duranti’s Restaurant
“Energy in the 21st Century”
Thomas C. Ruppel, Environmental Engineer, U.S. Department of Energy, Retired

27-28  NCW 2006 - “Your Home - It’s All Built On Chemistry”
Carnegie Science Center, Pittsburgh, PA

November

Mon.  6  Society for Analytical Chemists of Pittsburgh (SACP)
“Plasmon Rulers for Measuring Dynamical Distance Changes in Biological Macromolecular Assemblies”
A. Paul Alivisatos, Ph.D., University of California, Berkeley

The Crucible
A newsletter of the Pittsburgh Section of the American Chemical Society
124 Moffett Run Rd.
Aliquippa, PA 15001

Change of Address
If you move, notify the American Chemical Society, 1155 Sixteenth Street, N.W., Washington, D.C. 20036.
To avoid interruption in delivery of your CRUCIBLE, please send your new address to Traci Johnsen, 124 Moffett Run Rd., Aliquippa, PA 15001. Allow two months for the change to become effective.