Pittsburgh Section Announces 2010 Pittsburgh Award and Distinguished Service Award Winners

The Pittsburgh Section of The American Chemical Society is pleased to announce Dr. Alan Russell as recipient of the 2010 Pittsburgh Award and Mordecai Treblow as recipient of the 2010 Distinguished Service Award winner.

Dr. Alan Russell (PhD in Biological Chemistry, 1987, Imperial College of Science and Technology, University of London) is a Distinguished University Professor of Surgery and the Founding Director of the McGowan Institute for Regenerative Medicine at the University of Pittsburgh. Further, he holds positions as Professor in the departments of Chemical Engineering and Bioengineering. In addition to his appointments at the University, Dr. Russell is the Executive Director of the Pittsburgh Tissue Engineering Initiative, Inc., as well as a consultant for UPMC’s International and Commercial Services Division to drive technology and science-based synergies and partnerships. He has founded three biotechnology companies; ICX Agentase LLC, NanoSembly LLC, and O2Cyte LLC, and is also the Founding President of the 2,500-member Tissue Engineering and Regenerative Medicine International Society.

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Mordecai Treblow received his B.A. degree from the University of Pennsylvania, his M.S. from Pennsylvania State University, and his Ph.D. from the University of Pittsburgh, all in chemistry. Half of his career was as an industrial chemist; he retired from Mead Corporation and he also worked as a Senior Chemist at Calgon Corporation. The other half of his career was spent in academia, as an Associate Professor at Bloomsburg State University, and as an Associate Professor and Chair of Physical Sciences at Mercy College in Detroit. He authored and coauthored 12 papers, mainly in chemical education. He presented 10 papers at regional, national, and international meetings.

Mordecai has been active in the Pittsburgh local section of the ACS since 1979. He has served as our local section Chair as well as on the following committees:

• Professional Relations/Employment Committee from 1991-1999 and 2001-2004
• ACS Affairs from 1997-2002
• Membership from 1982-1983
• Originated and Co-chaired the first two tripartite symposia in 1982 and 1983
• Finance Chair from 2004-Present
• Organized and Chaired the Retired Chemists Group from 1996-1997, which later merged with the Pittsburgh Chemists Club
• Pittsburgh Section Councilor from 1984-1992 and 1997-2002

Continued on Page 9
Honoring 2010 Pittsburgh Award Recipient
Alan J. Russell
and
2010 Distinguished Service Award Winner
Mordecai D. Treblow

Tuesday, November 16, 2010

Pittsburgh Athletic Association - Pennsylvania Room
4215 Fifth Avenue, Pittsburgh, PA 15213

Social Hour: 6:00 PM
Cash Bar  Dinner: 6:45 PM
Award Presentations: 7:45 PM

Cost:
By October 16, 2010:     $40.00   Student or Postdoc $20.00
After October 16, 2010:  $45.00  Student or Postdoc $22.50

The awards ceremony is free and open to the public

Parking at Soldiers and Sailors

Registration Form: Make Checks payable to Pittsburgh Section ACS
To be registered for the dinner, you must include payment

Name__________________________________________________________________________________________________

Address______________________________________________________________________ State  _______  Zip __________

E-mail_________________________________________________________________________________________________

Affiliation:________________________________________________________________________________________________

Please Indicate Meal Choice: _____Herb Grilled Chicken Breast  _____Roasted Vegetable Ravioli  _____Roast Prime Rib of Beef

Mail To :
Heather Juzwa
321 Winners Circle
Canonsburg, PA 15317
MARK YOUR CALENDAR!

National Chemistry Week is Coming!!!

Join the Pittsburgh Section of the American Chemical Society as we celebrate NCW 2010 with the theme

“Behind the Scenes with Chemistry”

Where: Carnegie Science Center

When: Friday, October 22nd (9 AM to 3 PM)
Saturday, October 23rd (10 AM to 5 PM)

What’s Happening: Over 20 tables of hands-on experiments, activities, and demonstrations, hourly raffle prizes, and special theater-style shows

The Pittsburgh Section ACS could use your help to make this year’s NCW celebration a success. Are you interested in volunteering to help with the event? Do you have an organization that would like to sponsor a hands-on activity at the event?

If you, or your organization, are interested in participating in this year’s NCW event, please contact:

Michael Mautino
Phone: 412-777-4792
E-mail: michael.mautino@bayerbms.com or vmikem@comcast.net

For more information about the NCW celebration in Pittsburgh, visit the Pittsburgh Section’s website at http://www.chem.cmu.edu/acs-pgh/

You can also find additional information about NCW on the ACS’s website at http://chemistry.org/ncw

The Pittsburgh Section’s 2010 NCW activities are sponsored by the Bayer Corporation, the Carnegie Science Center, the PPG Industries Foundation, The Society for Analytical Chemists of Pittsburgh, and The Spectroscopy Society of Pittsburgh

Continued on Page 8
Mass Spectrometry Discussion Group
of Pittsburgh

THE ROLE OF MASS SPECTROMETRY IN HOMELAND SECURITY

Sponsored by the Spectroscopy Society of Pittsburgh and Open to the Public

Tuesday, October 5, 2010
The Priory Hotel, Refectory Room
614 Pressley Street, Pittsburgh PA 15212

5:00-5:30 Social Hour and Registration

5:30-6:15 Dinner

6:15-7:00 The Role of Miniature, Portable Mass Spectrometers in Homeland Security
Dr. Glen Jackson, Ohio University, Center for Intelligent Chemical Instrumentation

7:00-7:45 Chemometric Opportunities in Ion Mobility Spectrometry
Dr. Peter Harrington, Ohio University, Center for Intelligent Chemical Instrumentation

7:45-8:30 Applications of ICP-MS in Homeland Security
Dr. Mizanur Rahman, Duquesne University

8:30 Conclusion and Discussion

Registration Fee: $10 ($5 for Student and Retiree). Dinner, Cocktails, & Parking Included

Directions can be found at www.thepriory.com.

Please make check payable to SSP and mail the form below by September 31 to:
Heather Juzwa
SSP Continuing Education Symposium
321 Winners Circle
Canonsburg, PA 15317

For more information, visit the MSDG website at http://chemed.chem.pitt.edu/ssp-msdg/
or contact Heather Juzwa by email at hljuzwa@shimadzu.com.

SSP Continuing Education Registration Form October 5, 2010

Name: ______________________________________ Affiliation: ______________________________________

Mailing Address: ________________________________________________________________________________

Email: ______________________________________ Phone: ____________________________________________
Biography: Joshua J. Coon, Assistant Professor of Chemistry at the University of Wisconsin-Madison, received the 2010 Pittsburgh Conference Achievement Award. In 1998 Coon completed his B.S. in Chemistry at Central Michigan University in Mt. Pleasant, MI. Coon received his Ph.D. in chemistry from the University of Florida with Willard Harrison in 2002. At Florida, he developed an ambient ionization technique for peptide analyses that combined laser desorption and atmospheric pressure chemical ionization. Coon then conducted a NIH National Research Service Award Postdoctoral Fellowship in the laboratory of Professor Donald Hunt at the University of Virginia where he and John Syka carried out pioneering work on the development of electron transfer dissociation (ETD). This activation technique is now commonly used for the identification of labile post-translational modifications and for large-scale protein sequencing. In the fall of 2005 he began his current appointment as an Assistant Professor of Chemistry and Biomolecular Chemistry at the University of Wisconsin-Madison. With emphasis on ion chemistry and instrumentation, his group develops and applies new enabling mass spectrometry-based (MS) proteomic technologies. These cutting-edge tools allow them to examine the molecular events leading to cell differentiation of human embryonic stem cells and the combinatorial combination of histone post-translational modifications in pluripotent stem cells. His research interest also focuses on the development of ETD for intact protein sequencing and on the use and application of algorithms enabling protein/peptide identification from product ion spectra. He holds several patents on MS technologies and has published over 40 peer-reviewed scientific papers. He has been previously recognized with a number of prestigious awards, including the Beckman Young Investigator, the American Society for Mass Spectrometry Research Award, the NSF CAREER Award, the Eli Lilly and Company Young Investigator, and the Ken Standing Award.

Dinner Reservations: Please email the SACP Administrative Assistant, Valarie Daugherty at daugherty@pittcon.org by Wednesday, September 8, 2010 to make dinner reservations. Should you not have email, please call 412-825-3220, ext 204. Dinner will cost $8 ($4 for students) and checks are to be made out to the SACP. If you have any dietary restrictions, please let Valarie know when you leave message.

Parking: Duquesne University Parking Garage entrance is on Forbes Avenue. Upon entering the garage, you will need to get a parking ticket and drive to upper floors. Bring your parking ticket to the dinner or meeting for a validation sticker. Contact Dr. Mitch Johnson at Duquesne University if any difficulties arise.

Biography: Joseph P. Hornak is Professor of Chemistry and Imaging Science at the Rochester Institute of Technology. He received a B.S. in chemistry from Utica College, a M.S. in physical chemistry from Purdue University, a Ph.D. in Chemistry from the University of Notre Dame, and has done postdoctoral work at Cornell University. He teaches courses in magnetic resonance imaging (MRI), nuclear magnetic resonance (NMR) spectroscopy, physical chemistry, and analytical chemistry. His research interests include near-surface MRI, multi-spectral tissue classification with MRI, magnetic resonance hardware development, MRI of materials, and MRI contrast agents. He is author of more than 170 published and conference papers on magnetic resonance related topics.

Dinner Reservations: Please email the SACP Administrative Assistant, Valarie Daugherty at daugherty@pittcon.org by Wednesday, September 29, 2010 to make dinner reservations. Should you not have email, please call 412-825-3220, ext 204.
“Advanced Structural Mass Spectrometry for Systems Biology - Pulling the Needles from Haystacks”

John A. McLean
Assistant Professor in the Department of Chemistry at Vanderbilt University

Current systems biology research entails characterizing, quantifying, and cataloging the biomolecular inventory of a sample at specific dimensions of space (e.g. cellular, tissue, or organism level) and time (e.g. point in the life cycle, healthy vs. diseased state). New measurement strategies are necessary that incorporate simultaneous omics data. Rapid (µs-ms) two-dimensional separations based-on ion mobility-mass spectrometry (IM-MS) techniques have demonstrated great utility in characterizing complex biological samples, primarily because different biomolecular classes (e.g. peptides, carbohydrates, oligonucleotides, lipids, etc.) adopt structures in conformation space (correlation of structures vs. m/z), which are predictable based on prevailing intramolecular folding forces. This report describes recent structural biology results for a variety of biomolecular classes including those of interest in metabolomics, proteomics, lipidomics, glycomics and genomics. These results are interpreted using molecular dynamics simulations to elucidate structural differences within a given molecular class that are consistent with the IM-MS results. For example, structural differences for carbohydrates and glycan are observed in a predictable manner for different isobaric (same mass) positional and structural isomers. Analogously, isobaric lipids of different classes (e.g. sphingolipids and glycerophospholipids) adopt distinct structures characteristic of the lipid class. Using these structural separations, we demonstrate spatial and temporal “omics” resolution by imaging MALDI-IM-MS and microfluidic cell trapping nESI-IM-MS, respectively, for numerous applications in life sciences and cancer biology research.

Bio John A. McLean received his B.S. degree in Chemistry at the University of Michigan (1995) and his Ph.D. at George Washington University (2001). Following postdoctoral work in Germany (Forschungszentrum Jülich) and at Texas A&M University he began his present position as an Assistant Professor in the Department of Chemistry at Vanderbilt University and a faculty fellow in the Institute of Chemical Biology and Institute of Integrative Biosystems Research and Education. His recent awards include a Spectroscopy Society of Pittsburgh Award, an Excellence in Teaching Award from the student members of the American Chemical Society, a Defense Threat Reduction Agency Research Award, an American Society for Mass Spectrometry Research Award, an R&D 100 Award, and the Bunsen-Kirchhoff Prize from the GDCh. He presently has over 15 patents and has published over 60 manuscripts in high caliber journals and books. His research interests focus on the design, conceptualization, construction, and application of technologies for structural mass spectrometry, in particular for studies in structural proteomics, systems biology, biophysics, and bionanotechnology.
ACS Pittsburgh Chemists Club
Pittsburgh Section, American Chemical Society

Tuesday, September 28, 2010

More Restaurant
214 North Craig St.
Social Hour: 6:00 PM, Dinner: 6:40 PM
Program: 7:45 PM

“Reflections on a Career Path Involving Chemical Engineering, Education and Communications”

Larry Berger
Executive Director, SLB Radio Productions, Inc
slbroadio.org and neighborhoodvoices.org

Abstract: Careers in science and life follow many different pathways. Reflections on work in chemical engineering, environmental work at Mine Safety Appliances, technical writing, nonprofit radio broadcasting, and teaching young people to create radio documentaries will be part of this presentation.

Biography: Larry Berger holds degrees in chemical engineering and engineering & public policy from Carnegie Mellon University and has over 25 years of experience as a project engineer and manager for local industry. Active in public radio since his teens, he chose to leave his position as Director of Environmental Affairs at MSA in 2005 to pursue a lifelong passion for radio. He now serves as Executive Director of SLB Radio Productions, a non-profit located in the former Buhl Planetarium (now part of the Children’s Museum of Pittsburgh) that uses radio and audio to capture, distribute and archive stories, ideas and thoughts of children and adults. He also is founder and host of The Saturday Light Brigade, a national-award-winning radio program, to eight affiliate radio stations in Pennsylvania and Ohio. Larry also serves as the President of the Board of Trustees at Manchester Academic Charter School, on the Board of Directors of Manchester Youth Development Corporation, and on the Advisory Board at Pittsburgh International Children’s Theater. He and his wife Rikki live in Avalon, just north of Pittsburgh.

For Reservations, please call Ed Martin by noon Friday, September 24, 2010 at (724) 335-0904 or by e-mail at edwardmartin1046@verizon.net

ACS Distinguished Service Award Recipient Continued from Page 1

For the last 15 years, the Russell laboratory has been discovering what can be achieved by exploiting the rich interface of chemistry, biology and materials. Dr. Russell’s work has impacted fields as diverse as chemical and polymer synthesis to tissue engineering and homeland defense. The work began with a detailed study of the structure-function-environment relationship of biological molecules in extreme environments. This work led to an exploration of the use of enzymes in supercritical and ionic fluids. Dr. Russell has pioneered how to make polymers from enzymes and how to incorporate enzymes into bulk polymers. In a series of discoveries Dr. Russell’s laboratory has found how to meld the synthetic and biological worlds.

Within the scientific community, Dr. Russell currently sits on 25 advisory boards. Since the outset of his career, he has received numerous prestigious awards for his contributions to research, teaching and public service. These awards include R&D 100 Award - 2000 (R&D Magazine), three Carnegie Science Center Awards for Excellence - 2000 to 2006, sixteen consecutive appearances in Who’s Who in Science and Engineering - 1992 through present, the Gilbreth lectureship from the National Academy of Engineering - 2004, and the Cockroft Rutherford lectureship from the University of Manchester - 2007, the Outstanding Alumnus Award from the University of Manchester - 2008, and #32 in Rolling Stone’s “Top 100 People who will change America” - 2009.

To date, Dr. Russell has contributed significantly to the interface between the fields of chemistry, biology, and material science. He has given more than 250 national and international invited lectures. Dr. Russell has published 138 articles in refereed journals, one book, and 10 book chapters and holds 14 patents, with 23 additional pending patents.
CONSOL Energy Inc. is the largest producer of high-Btu bituminous coal in the United States and a leader in the production of coalbed methane and shale gas. In 2009, our revenues exceeded $4.6 billion. The company operates the largest private research and development facility devoted exclusively to coal and energy utilization and production. CONSOL Energy Inc.’s Research and Development department has provided energy and environmental research and technical services for over 60 years. Our 80-acre facility is located approximately 9 miles south of Pittsburgh in South Park, Pennsylvania. Our mission includes energy development, energy efficiency enhancements, fossil fuel emissions reduction, development of emerging energy-related technologies, and integration of existing technologies for the production and consumption of coal and natural gas. A particular focus of our current program is on the abatement of greenhouse gas emissions. CONSOL R&D’s staff of engineers, scientists and technicians provides a wide range of research services, analytical services, source emissions sampling and source emissions characterization services, metallurgical coal characterization services, pilot plant design and operation, and coal pulverizing services.

The tour of CONSOL R&D will start with an introductory overview presentation of CONSOL R&D. This will be followed by a walk-through of our 20,000 sq. ft. state-of-the-art analytical laboratory, our carbonization test facility including the pilot coke oven, the coal pulverization facility, the coal mine fire rapid response units, and the pressurized fluidized-bed combustion pilot plant. The program will be followed by dinner at a local restaurant.

Quick Facts about CONSOL Energy Inc.

- Our annual coal production is about 59 million tons of high-Btu bituminous coal. We are the largest producer of coal east of the Mississippi River, and the largest U.S. producer of deep-mined coal and of bituminous coal.
- Our CNX Gas unit is the largest producer of natural gas in the Appalachian Basin. CNX Gas produces an annual net of 127 billion cubic feet of pipeline-quality natural gas.
- We operate the largest private research and development facilities devoted exclusively to coal and energy utilization and production.
- We employ 8,200 people across six states including, Kentucky, Ohio, Pennsylvania, Utah, Virginia and West Virginia.

A Google Map showing CONSOL’s facility can be found at the following link, but be aware that the driveway is across the street and 100 yards east of the location identified in the map. You have to fool Google Maps by giving it the wrong address (4099 Brownsville Rd.) rather than the actual address (4000 Brownsville Rd., South Park, PA). 4099 Brownsville Rd, South Park Township, PA 15129

For reservations, please call Al Mann by Monday, September 20, 2010 at 412-661-5947 or by email at alfred.mann@verizon.net. Our meetings are open to all.
The Department of Chemistry at the University of Pittsburgh supports a robust seminar program that brings eminent scientists from across the nation and around the world to present their current research to the Department. Seminars usually occur on Thursday afternoons and the entire seminar schedule is available at the Department of Chemistry, University of Pittsburgh website, www.chem.pitt.edu. Included in the upcoming fall term seminar series, the Chemistry Department will host four named lectures that are listed below.

30th Annual Pittsburgh Conference Lectures September 15-16, 2010
Professor Alan G. Marshall
Florida State University

Wednesday, September 15
4:30 PM
157 Benedum Hall
“The Role of High-End Instrumentation”

Thursday, September 16
2:30 PM
157 Benedum Hall
“The Role of High-End Instrumentation”

24th Annual Kaufman Lectures October 14-15, 2010
Professor José Onuchic
University of California, San Diego

Thursday, October 14
4:00 PM
157 Benedum Hall
“Sharing the Landscape for Forfolding and Function: From Proteins to Biomolecular Machines”

Friday, October 15
4:00 PM
157 Benedum Hall
“Molecular Machines in Biology”

The Center for Simulation and Modeling (CMMS) Third Annual Henry S. Frank Lectures October 28-29, 2010
Gerhard Hummer
Theoretical Biophysics Section, National Institutes of Health

Thursday, October 28
2:30 PM
157 Benedum Hall
“Protein-Protein Binding: From Encounter Complexes to Multi-Protein Assemblies”

Friday, October 29
4:00 PM
157 Benedum Hall
“Simulations of the Slow Conformational Dynamics of Biomolecules”

32nd Annual Bayer Lectures November 3-4, 2010
Professor Galen Stucky
University of California, Santa Barbara

Wednesday, November 3
4:00 PM
157 Benedum Hall
“Systems and Interfaces for Controlling Bioprocesses: The Challenge of Hemostasis”

Thursday, November 4
2:30 PM
157 Benedum Hall
“Synthesis and Use of 3-D Heterostructured Materials”

ACS Distinguished Service Award Recipient
Continued from Page 1

• Treasurer of the Pittsburgh Section of the Energy Technology Group and sounding member of the Pittsburgh Energy Technology Group for the AICHe.
• Director from 2005-Present, for his third term

Mordecai has been a member of the national ACS since 1956. He served on the ACS Board of Directors, District II from 1992-1995. He has also been on the following ACS Council Committees:

• Local Section Activities from 2001-2002
• Professional Relations from 1984-1989
• Membership Affairs from 1998-2000
• Divisional Activities from 1991-1992

Mordecai is a member of the following ACS Divisions:

• Chair Cycle
• Professional Relations from 1990-1992
• Nuclear Chemistry and Technology

Mordecai is an active member of the Society for Analytical Chemists of Pittsburgh, the Spectroscopy Society of Pittsburgh, and the American Association of Textile Chemists and Colorists. He received the 1998 Chairman’s Award for “Outstanding Service to the Pittsburgh Section and the 2004 Chair’s Award for “Outstanding Contributions and Guidance to the Pittsburgh Section.”

He has been and continues to be a strong advocate for equality for women chemists both locally and nationally. He is an advocate for strengthening Federal support for energy research and development and for economically sound, scientifically accurate ACS Federal energy policy. Finally, he is a strong advocate for professional and economic needs of chemists in the national ACS.
SOCIETY FOR ANALYTICAL CHEMISTS OF PITTSBURGH

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

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Ion Chromatography KF Aquametry, Titrimetry

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Stay up-to-date on all the happenings of the Pittsburgh Section ACS

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Facebook Page: ACS Pittsburgh

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

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

**PITTSBURGH SECTION OFFICERS**

**Chair:**
James Manner
PPG Industries-Retired
125 Oak Pointe Dr
Monroeville, Pa. 15146
412-372-6390
manner1@comcast.net

**Chair-Elect**
Heather Juzwa
321 Winners Circle
Canonsburg, PA 15317
724-745-2662
hljuzwa@shimadzu.com

**Secretary**
Robert Mathers
Penn State University
3550 Seventh Street
New Kensington, PA 15068
724-334-6741
rtm11@psu.edu

**Treasurer**
Simion Coca
PPG Industries Inc.
Research Center
4325 Rosanna Drive
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412-492-5558
coca@ppg.com

**Volunteers Needed!**
There are a number of volunteer opportunities in the Pittsburgh ACS section! If you are interested in volunteering, please contact Jim Manner at manner1@comcast.net!

**Crucible Deadline**
The deadline for items submitted to The Crucible is the 1st of the month prior to publication.

For example, all items for the October 2010 issue must be to the editor by September 1, 2010.

**The Crucible**

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://www.mboservices.net/recr_disp.php)
- [http://pubs.acs.org/chemjobs/](http://pubs.acs.org/chemjobs/)

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Pittsburgh Area Calendar

Monday, September 13

Society for Analytical Chemists of Pittsburgh
“New Technology for Large-Scale Protein Quantification”
Joshua J. Coon, Ph.D., University of Wisconsin
Duquesne University, Mellon Hall of Science, Laura Falk Hall

Wednesday, September 15

Spectroscopy Society of Pittsburgh Technology Forum
“Taking Flight: Launch Mechanics of Giant Pterosaurs”
Dr. Michael Habib, Assistant Professor of Biology at Chatham University and Research Associate of the Carnegie Museum of Natural History
Duquesne University, Mellon Hall of Science, Laura Falk Hall

Spectroscopy Society of Pittsburgh
“Advanced Structural Mass Spectrometry for Systems Biology - Pulling the Needles from Haystacks”
John A. McLean, Assistant Professor in the Department of Chemistry at Vanderbilt University
Duquesne University, Mellon Hall of Science, Laura Falk Hall

Tuesday, September 21

ACS Pittsburgh Energy Technology Group
Tour of CONSOL Energy Inc. Research and Development Facility

Tuesday, September 28

ACS Pittsburgh Chemists Club
“Reflections on a Career Path Involving Chemical Engineering, Education and Communications”
Larry Berger, Executive Director, SLB Radio Productions, Inc, slbradio.org and neighborhoodvoices.org

Monday, October 4

Society for Analytical Chemists of Pittsburgh
“Keeping a Magnetic Resonance Imager Knocking”
Joseph P. Hornak, Ph.D., Rochester Institute of Technology
Duquesne University, Mellon Hall of Science, Laura Falk Hall

Tuesday, October 5

Mass Spectrometry Discussion Group of Pittsburgh
“The Role of Mass Spectrometry in Homeland Security”
The Priory Hotel, Refectory Room, Pittsburgh, PA

Friday & Saturday, October 22 & 23

National Chemistry Week Celebration
“Behind the Scenes with Chemistry”
Carnegie Science Center, Pittsburgh, PA

Tuesday, November 16

Pittsburgh Section ACS Pittsburgh Award Dinner
Honoring Pittsburgh Award Winner and Pittsburgh ACS Distinguished Service Award Winner
Pittsburgh Athletic Association

Additional chemistry related seminars and events in the Pittsburgh area can be found on the Pittsburgh Section’s website at http://www.chem.cmu.edu/acs-pgh/