Professional Relations Committee
Job Searching for Chemical Professionals/Job Searching for Chemical Technicians
Workshop Summary

This year, we had 22 attendees at the Job Searching for Chemical Technician’s workshop and 51 at the Job Searching for Chemical Professional’s workshop. The total of 73 attendees compares favorably with the 68, 67, 26, and 21 that came in 2008, 2007, 2006, and 2005, respectively.

On February 6, 2009, 21 chemical technicians and 1 B.S. level chemist attended the half-day workshop at Bidwell Training Center. During the workshop, Daniel Eustace presented an overview of the job searching process and Joseph Jolson provided information specific to job searching in the Pittsburgh region. Karen Johnson, director of Bidwell’s Chemical Laboratory Technician Program; Ilesha Griffin, chemical instructor at Bidwell; and Jay Auses, SACP committee co-chair also attended the workshop.

The attendees showed a high level of interest, liked the mock interview sessions, and asked lots of questions. All had positive comments about the workshop. Several expressed interest in joining the sponsoring societies. Dan said the technician’s workshop is better than anything he is aware of and again suggested self-nominating ourselves for an ACS Chemluminary award.

On February 7, 2009, 51 chemical professionals attended the all-day workshop at the University of Pittsburgh. Special thanks go to Elie Absey, Jay Auses, Michelle Blanken, and Toby Chapman for arriving just after 8:00 AM to setup and manage the registration, hiring representative, and food service tables. Thanks go to Paul Brezovec, Gary Hall, Hub MacDonald, Jim Miller, and Sabina Robinson for arriving a short time later to help during the morning session.

Of the 51 chemical professionals attending the workshop, 40 were students and 11 were mid-career job seekers. Between 1/4 and 1/3 of the attendees were chemical engineers. Of the students, half were from the University of Pittsburgh, 1/4 were from CMU, and the rest from other colleges and universities in the area. Half were Ph.D. candidates, 1/4 were B.S. candidates, and the rest were M.S. candidates and post-docs. Timing of the workshop was ideal for mid-career job seeker and many Ph.D. candidates.

During the morning session, Daniel Eustace presented an overview of the job searching process and Joseph Jolson provided information specific to job hunting in the Pittsburgh region. Despite the limitations of the lecture hall, Dan was excellent at interacting with the attendees and ran two mock interview sessions. The 1st was with Benjamin Webster and the 2nd was with Patrick Rodgers; both of whom are University of Pittsburgh students.

After the networking lunch, all attendees stayed for the afternoon resume review and career counseling session and most interacted with hiring agency representatives. Elie Absey, Jay Auses, Michelle Blanken, Paul Brezovec, Toby Chapman, Dan Eustace, Gary Hall, Hub MacDonald, Jim Miller, Joe Jolson, and Sabina Robinson reviewed resumes and provided career counseling.

Continued on Page 9
Call for Nominations
Distinguished Service Award
Pittsburgh Section
American Chemical Society

The Distinguished Service Award was established in 2007 by the Pittsburgh Section of the ACS to expand and replace the predecessor Chairman’s Award of the Section. Both recognize outstanding volunteer service to the Section. The Award, consisting of a plaque, is presented annually at a Section dinner which is open to the public.

Members of the Pittsburgh Section, past or present, who have provided outstanding service in advancing the Pittsburgh Section are eligible for consideration. Nominations for the Pittsburgh Award are solicited from the membership of the Pittsburgh Section. Nominations are due by May 15, 2009. Please send to Pittsburgh Section Chair. Nick Tsarevsky, Department of Chemistry, Carnegie Mellon University, 4400 5th Ave., Mellon Institute #60, Pittsburgh, PA 15213, nvt@atrpolutions.com or nvt@cmu.edu.

Information about you, the nominator:

Name:___________________________________________________________________________________

Company:________________________________________________________________________________

Street address: ____________________________________________________________________________
__________________________________________________________________________________________

E-mail: __________________________________________________________________________________

Please add a check-mark if:

___ you would like to be added to our mailing list

___ you would like information about membership to National ACS

___ you would like information about joining any of the groups in the local section.

Information about the nominee:

Name:___________________________________________________________________________________

Company:________________________________________________________________________________

Street address: ____________________________________________________________________________
__________________________________________________________________________________________

E-mail: __________________________________________________________________________________

Distinguished Service of Nominee:

Using additional sheets as needed, please provide supporting information for your nomination. Provide sufficient details to assist the Nominations Committee in its function (e.g. service, committees served, key accomplishments etc):
The 2009 Tripartite Symposium
CHEMISTRY IN ART AND ARCHEOLOGY

May 6, 2009
University of Pittsburgh, Alumni Hall, Room 343
Parking included (Soldiers and Sailors Garage on Bigelow between Fifth Ave and O’Hara)

Sponsored by
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Spectroscopy Society of Pittsburgh -- www.ssp-pgh.org
American Chemical Society, Pittsburgh Section -- http://membership.acs.org/P/Pitt/

12:30 PM - 1:20 PM REGISTRATION

1:20 PM    Introduction

1:30 PM    Professor Richard Hark, Juniata College
“Raman Microscopy of Pigments: Archeological Puzzles and Miniature Treasures”

2:20 PM    Dr. Sandra L. Olsen, Carnegie Museum of Natural History
“Applications of Chemical Analysis in Archaeology in Early Horse Domestication”

3:10 PM    Intermission

3:30 PM    Dr. Michael Henchman, Brandeis University
“Is the $25M Vinland Map Genuine or Fake? An Ongoing Controversy Since 1965”

4:10 PM    Dr. James M. Adovasio, Director, Mercyhurst Archaeological Institute

5:00 PM - 6:00 PM RECEPTION

For More Information Contact:
Jim Manner (manner1@comcast.net) or Joe Grabowski (joeg@pitt.edu)

PLEASE REGISTER BY APRIL 29, 2009
COST: $10 (Exception: full-time students who pre-register can attend for free)

Mail check (if not a student; payable to SSP) and the completed form to:
SSP - Tripartite Symposium
300 Penn Center Blvd, Suite 332
Pittsburgh, PA 15235

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http://membership.acs.org/P/Pitt
Abstract: Advances in nanoscale materials can enable unique opportunities at the interface between chemistry, physics and the life sciences. The interface between nanoscale electronic devices and biological systems makes possible interactions at length scales natural to biology, and thus maximizes communication between these two diverse yet complementary systems at the length scale relevant to biological function. In this presentation, the development of nanowire nanoelectric devices and device arrays and their application as powerful tools for the life sciences will be discussed. The application of nanowire nanoelectronic arrays for ultra-sensitive, label-free, detection of disease markers will be described, as well as the development of high-sensitivity real-time kinetic assays and efforts pushing the sensitivity of these nanodevices to limits that enable new applications in detection of single molecules and DNA sequence analysis. In addition, the development of two-way electronic interfaces between nanowire nanoelectronic devices and cells, tissue and organs will be described. Multiplexed measurements made from nanowire device arrays fabricated on flexible and transparent plastic substrates show that signal propagation across the myocardium can be mapped, in flexible conformations with high spatial and temporal resolution. The application of dense nanowire arrays to high spatiotemporal resolution multiplexed measurements from individual cardiomyocyte cells and cellular arrays will also be discussed. In addition, we will show that one- and two-dimensional arrays of nanowire transistors with flexible spatial configurations on optically-transparent substrates can be reliably interfaced with specific regions of acute brain slices to detect localized potential changes due to neuron activities simultaneously across many length scales with high temporal resolution. Applications of these nanoelectronic devices will be discussed as well as prospects for blurring the distinction between inorganic devices and living systems in the future.

Biography: Charles M. Lieber was born in Philadelphia, Pennsylvania in 1959. He attended Franklin and Marshall College for his undergraduate education and graduated with honors in Chemistry. After doctoral studies at Stanford University and postdoctoral research at the California Institute of Technology, he moved to the East Coast in 1987 to assume an Assistant Professor position at Columbia University. There Lieber embarked upon a new research program addressing the synthesis and properties of low-dimensional materials. He moved to Harvard University in 1991 and now holds a joint appointment in the Department of Chemistry and Chemical Biology, as the Mark Hyman Professor of Chemistry, and the School of Engineering and Applied Sciences. At Harvard, Lieber has pioneered the synthesis of a broad range of nanoscale materials, the characterization of the unique physical properties of these materials and the development of methods of hierarchical assembly of nanoscale wires, together with the demonstration of applications of these materials in nanoelectronics, nanocomputing, biological and chemical sensing, neurobiology, and nanophotonics. Lieber has also developed and applied a new chemically sensitive microscopy for probing organic and biological materials at nanometer to molecular scales. His work has been recognized by a number of awards, including the Einstein Award, Chinese Academy of Sciences (2008); NBIC Research Excellence Award, University of Pennsylvania (2007), Nanotech Briefs Nano 50 Award (2005), ACS Award in the Chemistry of Materials (2004), World Technology Award in Materials (2004 and 2003), Scientific American 50 Award in Nanotechnology and Molecular Electronics (2003), New York Intellectual Property Law Association Inventor of the Year (2003), APS McGroddy Prize for New Materials (2003), Harrison Howe Award, University of Rochester (2002), MRS Medal (2002), Feynman Prize in Nanotechnology (2001), NSF Creativity Award (1996) and ACS Award in Pure Chemistry (1992). Lieber is an elected member of the National Academy of Sciences and the American Academy of Arts and Sciences, Fellow of the Materials Research Society, American Physical Society, Institute of Physics and American Association for the Advancement of Science. He is Co-Editor of Nano Letters, and serves on the Editorial and Advisory Boards of a large number of science and technology journals. Lieber also serves on the Technical Advisory Committee of Samsung Electronics. He has published more than 300 papers in peer-reviewed journals and is the principal inventor on more than 35 patents. In his spare time, Lieber has been active in commercializing nanotechnology, and has founded the nanotechnology companies: Nanosys, Inc. in 2001 and the new nanosensor company Vista Therapeutics in 2007, and nucleated Nantero, Inc. from his laboratory in 2001.

Dinner Reservations: Please email Valarie Daugherty, SACP Administrative Assistant at daugherty@pittcon.org, by Friday, March 20, 2009 to make dinner reservations. Should you not have email, please call Valarie at 412-825-3220 ext 204. Dinner will cost $8 ($4 for students) and checks can be made out to the SACP. If you have any dietary restrictions, please let Valarie know when you leave a message. Parking: Duquesne University Parking Garage entrance is on Forbes Avenue. Upon entering the garage, receive parking ticket and drive to upper floors. Pick up a parking sticker at the dinner or meeting. Please contact Dr. Mitch Johnson at Duquesne University if any difficulties arise.
ENERGY TECHNOLOGY
GROUP
Pittsburgh Section,
American Chemical Society
Thursday, April 23, 2009

Tour of Duquesne University’s
Combined Heat and Power Facility
Given by George Fecik,
Executive Director of Facilities Management
Duquesne University

Dinner, 6:30 PM, Red Ring Restaurant,
1015 Forbes Avenue in the Power Center
Tour, 7:30 PM

The Power Center is on Forbes Avenue at Chatham Square, across from the
Duquesne University Forbes Avenue Parking Garage

Summary of the Tour

One hundred percent of the energy consumed on the Duquesne University campus is
from clean energy sources. Combined with the university’s on-site energy generation
facilities, this means that Duquesne now relies completely on clean energy.

Duquesne recently switched its electricity provider to Strategic Energy, based in
Downtown Pittsburgh. Previously, Strategic Energy had provided about 20 percent
of the university’s outsourced energy and the rest came from Duquesne Light Co.
Under terms of the contract, the university will receive more than 8 million kWh/
year of renewable energy certificates (RECs) from Strategic Energy, verifying that
the power is from a renewable source such as wind, water or biomass. The facility,
which achieves overall efficiencies greater than 70 percent, qualifies as a Tier 2
energy source (certain hydroelectric power and waste-to-energy), generating 32,000
Alternative Energy Credits-equivalent to 32,000 megawatt-hours of clean electric
power.

With the REC purchase, Duquesne will have prevented the emission of a calculated
11.2 million lb/year of carbon dioxide -- the equivalent of 1,096 passenger cars, saving
4,219 acres of pine forest or eliminating 1,705 tons of waste. The certificates represent
all the carbon dioxide, particulate matter and other emissions that are avoided through
the use of renewable energy.

The Combined Heat and Power facility is Pennsylvania’s first approved distributed
generation system for creating Alternative Energy Credits (AECs) under the state’s
Alternative Energy Portfolio Standard program. The credits can be sold or traded sep-
arately from the electricity, providing incentives for investing in clean energy sour-
ces, such as renewable energy and energy efficiency. This program will describe the
cogeneration facility and a night off-peak electric ice-making cooling system.

For reservations, please call Al Mann by Tuesday, April 21, 2009 at 412-661-5947
or by email at alfred.mann@verizon.net.
The Pittsburgh Award was established in 1932 by the Pittsburgh Section of ACS to recognize outstanding leadership in chemical affairs in the local and larger professional community. This Award symbolizes the honor and appreciation accorded to those who have rendered distinguished service to the field of chemistry.

The Award consists of a plaque presented annually at a Section dinner. Members of the Pittsburgh Section, or in exceptional cases, non-members, who have done work worthy of recognition toward increasing chemical knowledge, promoting the chemical industry, benefiting humanity, or advancing the Pittsburgh Section, are eligible for consideration.

Nominations for the Pittsburgh Award are solicited from the membership of the Pittsburgh Section. The form can be found on the section’s website, http://membership.acs.org/P/Pitt. Click on the awards link at the top of the page. Please send all nominations to Pittsburgh Section Chair-Elect, Garry Warnock, warnock@andrew.cmu.edu by May 15, 2009.

For more information about the nomination process, contact Garry at 412-268-4229 (office) or 412-956-5215 (cell).
ACS Pittsburgh
Chemists Club
Pittsburgh Section, American Chemical Society

April Meeting
Tuesday, April 28, 2009

More Restaurant, 214 N. Craig St.

Social Hour: 6:00 PM
Dinner: 6:40 PM
Program: 7:50 PM

“Sustainability and Hydrokinetic Energy Harvest”
Dr. Lisa Mauck Weiland
Assistant Professor, Mechanical Engineering and Materials Science
University of Pittsburgh

Abstract
As part of her NSF Career Program Dr. Weiland is exploring hydrokinetic energy harvest concepts as well as developing an education program that addresses the relationship between sustainability and fundamental thermodynamic principles. Regarding the latter and as noted by Karl-Henrik Robert, the importance of this is rooted in the need to dispel the widespread misconception that sustainability is simply a new word for green. This misconception is problematic because green is ill-defined and frequently riddled with political agendas. Conversely, sustainability can be defined based on fundamental scientific principles wherein the earth is a system that is closed to mass flows and open to energy flows. Based on scientific principles it is easily demonstrated that current societal norms are not sustainable; it is similarly possible to define the qualities of a sustainable society. After defining sustainability in a thermodynamic context, the talk will include discussion of the potential and challenges of hydrokinetic energy harvest as part of society’s transformation to sustainable practices.

Biography
Lisa Weiland earned a PhD in Mechanical Engineering at Georgia Tech in 2002 and is a 2008 NSF Career Award recipient. She is currently in the tenure stream at the University of Pittsburgh where she is also director of the Mechanics of Active Materials Laboratory. The research conducted in her lab focuses on the experiment-and physics-based constitutive modeling of active materials. An active (‘smart’) material is a material that can transform energy from one domain to another, for instance via piezoelectricity. The goal of research is to understand the multi-scale physics responsible for the ‘smart’ behavior observed in these materials in order to expand viable engineering applications. Applications of particular interest are adaptive structures and sustainable systems.

For Reservations, please call Ed Martin by noon
Tuesday April 24, 2009 at (724) 335 - 0904 or
by e-mail at edwardmartin1046@verizon.net

The Pittsburgh Section of the American Chemical Society
and The Society For Analytical Chemists Of Pittsburgh

May Awards Banquet
Monday, May 11, 2009

Duquesne University
Ballroom
Student Union
4th floor

Social Hour - 5:30 PM
Dinner - 6:30 PM

Dinner reservations: Please email Valarie Daugherty (daugherty@pittcon.org), SACP Administrative Assistant by Monday, April 27, 2009. Should you not have email, please call Valarie at 412-825-3220 ext 204. Dinner will cost $15.00 and checks can be made payable to the SACP.

http://membership.acs.org/P/Pitt
Although I was born in London, England, my most formative years were spent in Sussex, in the twin towns (now unified) of Brighton and Hove. I have enjoyed cooking since my graduate student days at Cambridge; a group of us would gather on Sunday evenings to enjoy a home-cooked meal with the responsibility for its preparation rotating among the group members. Later in life, I became quite interested in baking bread, a pursuit I continue to this day, and I regularly prepare home-baked bread for my family. And what, you may ask, has all this to do with the history of chemistry? Well, it explains why I recently purchased a book published in 1886.

This volume, deaccessioned [no hyphen per Webster’s] from the public library of the city of Cincinnati, is titled The Chemistry of Wheat, Flour, and Bread: and Technology of Baking. [is that the correct title? I googled it, and other variations Jago’s book came up, but not that title] The author is William Jago, Analytical and Consulting Chemist, Headmaster, Science Schools, Brighton [England], and it was self-published by William Jago of Springfield Road, Brighton. The Open University’s biographical database of the British chemical community is informative about Mr. Jago. He was born in 1854 in Cornwall and died in 1938 in Hove. At the Royal School of Mines, he studied under the distinguished British chemist Edward Frankland. He became an Associate and then a Fellow of the Institute of Chemistry, and later in life, at the age of 50, became a Barrister. He was head of the Department of Science at Brighton College (a public school) and a teacher at the Brighton School of Science and Art (a technical college). He was a friend of Magnus Volk, a local inventor who built the first electrically powered train line in Britain (it still runs along the Brighton sea-front), and the first telephone line in Brighton that connected the houses of Jago and Volk.[as meant?] Jago was also the author of Inorganic Chemistry: Theoretical and Practical, one of Longmans, Green and Co. Elementary Science Manuals, the 10th edition of which appeared in 1889.

The Chemistry of Wheat, Four, and Bread was considered as sufficiently significant when it was published to receive a substantial, and generally favorable, review in Nature (Sept. 30, 1886), though the reviewer urged the author to employ pruning shears if the work went to a second edition. It is bulky, running to 465 closely printed pages. It is based in part on a lecture by Jago to the Annual Meeting of the National Association of British and Irish Millers, which was followed by a series of articles requested by the Editor of the Millers’ Gazette. Sixty-four (!) of these articles appeared, and then Jago revised them into the book. It was intended for students studying in Applied Chemistry Departments specializing in milling and baking, and for those studying for technological examinations of the City and Guilds of London Institute. In addition to the topics that I will outline later, it does include some original research by Jago on yeasts and fermentation.

In looking over Jago’s magnum opus CWFB (if I may so abbreviate its lengthy title), it strikes me that the Nature reviewer was unduly harsh, perhaps being misled by the book’s title. Jago’s intent is clear from the book’s contents. He begins by writing three substantial chapters on, respectively, an introduction to the science of chemistry, the chemical elements and their inorganic compounds, and organic compounds. Thus the beginning of the text can be seen as either a refresher course in chemistry, or even a self-contained brief introduction to the science. Chapter 4 on the microscope and polarized light is the first chapter that is specific to the book’s title. I conclude this first of two columns on this interesting book with some comments on inorganic chemistry. Jago is a firm believer in the reality of chemical atoms, and he includes a table of “Combining or Atomic Weight” values, somewhat blurring over the idea of chemical equivalents. Included in this table are also values of the atomicities of elements, what we would term their maximum valencies. Somewhat unexpected, to me at least, is the complete absence of any reference to the Periodic Law and the Periodic Table, which many chemistry texts of even a decade earlier were including as a useful device for organizing inorganic chemistry.

ACS Short Courses in 2009
ACS Short Courses are one- to five-day, in-person seminars designed to help chemical scientists and technicians keep current in today’s competitive marketplace. Please visit www.acs.org/shortcourses to register and for more information.

ACS Cut and Paste
January/February 2009

ACS Cut and Paste
January/February 2009
In the first of this two-part series on Max Planck, I sketched his career to the point where, in 1897, he began to work on explaining the phenomena of black-body radiation, a problem that had challenged some of the best physicists of the day and that they had failed to solve. At first, he tried combining electrodynamics and thermodynamics, but Boltzmann correctly criticized Planck’s formulation. Planck then successfully combined Wien’s work with that of Rayleigh and Jeans, but a satisfactory physical explanation was still lacking.

When Planck tried to apply Boltzmann’s statistical formula for entropy to the problem, he found he had to assume that the enclosure walls were composed of electrodynamic oscillators, which could only emit energy that was not infinitesimally variable but was connected to the oscillator frequency by the now-famous formula $E = h\nu$, where $h$ is what Planck called a quantum of action. Later generations dubbed it Planck’s constant. Planck obtained a value for $h$ from experimental data that is close to the currently accepted value. He introduced these new ideas in two presentations to the German Physical Society in Berlin on October 19 and December 14, 1900. Their impact was to be felt throughout 20th-century science.

At first, however, Planck’s novel view of radiation, while it was agreed to be interesting, was viewed as a kind of formalism: a way of accounting for the data without necessarily providing a fundamental physical explanation of the phenomena underlying it. Boltzmann was impressed, and Planck himself is supposed to have told one of his sons that he had made a discovery that was in the class of one of Newton’s. But he was still trying classical approaches to the problem until finally, toward the end of his career, he wrote: “My vain attempts to somehow reconcile the elementary quantum with classical theory continued for many years and cost me great effort…. Now I know for certain that the quantum of action has a much more fundamental significance than I originally suspected.”

That significance was first postulated by the obscure patent clerk in Switzerland, Albert Einstein, in his wonder year of 1905. He broadened the quantum approach to radiation by applying it to all radiation, inventing the photon as a particle of radiation—a collection of which sometimes behaves as a wave! Planck trumps Maxwell. With this revolution-
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**Chair:**
Nick Tsarevsky
Department of Chemistry
Carnegie Mellon Univ.
4400 Fifth Ave.
Pittsburgh, Pa. 15213
412-735-4869
nvt@andrew.cmu.edu

**Chair-Elect**
Garry Warnock
DH 2114 Doherty Hall
5000 Forbes Ave.
Pittsburgh, PA 15213
412-268-4229
warnock@andrew.cmu.edu

**Secretary**
Joseph Jolson
5867 Solway Street
Pittsburgh, PA 15217
412-480-3049
joe@customclientsolutions.net

**Treasurer**
Simion Coca
PPG Industries Inc.
Research Center
4325 Rosanna Drive
Allison Park, PA 15101
412-492-5558
coca@ppg.com

**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
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**PITTSBURGH SECTION OFFICERS**

**The 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 May 2009 issue must be to the editor by April 1, 2009.

**The Crucible**

The Crucible is published monthly, August through May. Circulation, 2,500 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.

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**Wednesday, April 1, 2009**

**29th PITTCON**
Professor Raoul Kopelman  
University of Michigan  
“Nanoparticle Sensors for Intracellular and In-vivo Chemical Analysis”  
4:00 PM - Chevron Science Center, Room 12A, University of Pittsburgh

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**Thursday, April 2, 2009**

**29th PITTCON**
Professor Raoul Kopelman  
University of Michigan  
“Microparticle Device for Fast Detection of Bacteria and Counterm”  
4:00 PM - Chevron Science Center, Room 12A, University of Pittsburgh

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**Monday, April 6, 2009**

**Society for Analytical Chemists of Pittsburgh**
Charles M. Lieber, Ph.D.  
Harvard University  
“Merging Nanoelectronic and Biological Systems: Powerful Tools, Functional Interfaces and More”  
Duquesne University, Laura Falk Hall

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**Thursday, April 9, 2009**

Professor Mercouri Kanatzidis  
Northwestern  
“The Quest for Porous Semiconductors”  
2:30 PM , Chevron Science Center, Room 12B, University of Pittsburgh

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**Wednesday, April 1, 2009**

**Tuesday, April 14, 2009**

Alexander Deiters, North Carolina State University  
“Light and Small Molecules as Tools for the Regulation of Biological Processes”  
4:45 p.m. Mellon Institute Conference Room, Carnegie Mellon University

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**Thursday, April 16, 2009**

Professor Rebecca Jockusch  
University of Toronto  
“Biological Molecules in and Out of Water: Mass Spectrometry, Optical Spectroscopy and Computational Studies”  
4:00 PM , Chevron Science Center, Room 12A, University of Pittsburgh

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**Saturday, April 18, 2009**

Younger Chemists Committee Event  
Dr. Catherine Stephens, Senior Analytical Chemist, Art Conservations Research Center  
“Everything You Wanted To Know About Conservation Science But Were Afraid To Ask”  
Mellon Institute Social Room, Carnegie Mellon University

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**Tuesday, April 21, 2009**

Professor Kenneth N. Raymond  
UC Berkeley  
“Nanozymes: Supramolecular Metal Complex Cluster Catalysts”  
2:30 PM , Room TBD, University of Pittsburgh

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**Wednesday, April 22, 2009**

**Spectroscopy Society of Pittsburgh Technology Forum**  
“Meadowcroft: 16,000 Years in the Making”  
Bonnie Sanford, Meadowcroft Rockshelter  
April Meeting  
“Molecular Studies of Surfaces Under Reaction Conditions: Sum Frequency Generation Vibrational Spectroscopy, Scanning Tunneling Microscopy and Ambient Pressure X-Ray Photoelectron Spectroscopy”  
Dr. Gabor Somerjai, University of California at Berkeley, Rensselaer Polytechnic Institute  
Duquesne University, Laura Falk Hall

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**Thursday, April 23**

Energy Technology Group  
The Power Center, Duquesne University  
Tour of Duquesne University’s Combined Heat and Power Facility  
George Fecik, Executive Director of Facilities Management, Duquesne University

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**Tuesday, April 28, 2009**

**ACS Pittsburgh Chemists Club**  
Dr. Lisa Mauck Weiland, Assistant Professor, Mechanical Engineering and Materials Science, University of Pittsburgh  
“Sustainability and Hydrokinetic Energy Harvest”  
More Restaurant

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**Thursday, April 30, 2009**

Alexey Ladokhin, University of Kansas Medical Center  
“pH-Triggered Membrane Protein Insertion: Thermodynamic and Kinetic Aspects”  
4:45 p.m. Mellon Institute Conference Room, Carnegie Mellon University

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**Friday, April 30, 2009**

**Professor Tack Kuntz**  
UCSF University  
“Computer-assisted Ligand Design, A Perspective”  
4:00 PM , Chevron Science Center, Room 12A, University of Pittsburgh

---

**Professor Joanne Yeh**  
University of Pittsburgh Medical School  
“Structural Mapping of Glycerol Metabolic Pathway”  
4:45 p.m. Mellon Institute Conference Room, Carnegie Mellon University

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**Professor Tack Kuntz**  
UCSF University  
“Computer-assisted Ligand Design, A Perspective”  
4:00 PM , Chevron Science Center, Room 12A, University of Pittsburgh

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**Professor Joanne Yeh**  
University of Pittsburgh Medical School  
“Structural Mapping of Glycerol Metabolic Pathway”  
4:45 p.m. Mellon Institute Conference Room, Carnegie Mellon University