

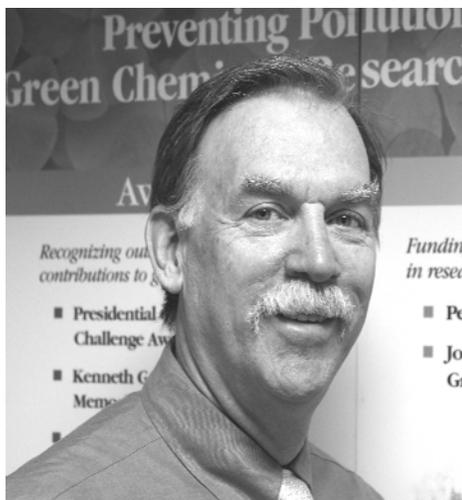


CSW Turns Green at the January Monthly Dinner Meeting

Join the CSW for a Science Café to discuss “The Green Tsunami: Will You Sink or Swim?” with Bob Peoples, Jennifer Young, and Lawrence Sita, at the Monthly CSW Dinner, Thursday, January 15, at the University of Maryland Chemistry Department. Details for the event are on page 2.

Bob Peoples became the Director of ACS Green Chemistry Institute® (GCI), a non-profit organization dedicated to the advancement of green chemistry, in early 2008 and is working to establish clear definitions about what green chemistry and sustainability mean and how to use it to make sure chemical problems are not created from the beginning. Jennifer Young, Senior Program Manager at GCI, focuses on the development of resources to aid researchers in implementing green chemistry and engineering concepts. Lawrence Sita, Professor of Chemistry, University of Maryland, conducts basic research in to develop new transition metal based catalysts for 'greener', more energy-efficient production of large volume commodity chemicals, such as ammonia, and the development of greener grades of plastics, such as elastomeric polypropylene, that do not require chemical additives to achieve desired physical properties.

The Science Café is an open format that encourages group discussion. Bring questions and an appetite for pizza!



As the Director of the ACS GCI, **Dr. Bob Peoples** drives the implementation of the principles of green chemistry across the global chemical enterprise.

Dr. Peoples has been a member of ACS for 35 years, giving him valuable experience and insight into the chemical industry. Immediately prior to joining ACS GCI, Dr. Peoples served as the Sustainability Director for the Carpet & Rug Institute, Executive Director of The Carpet America Recovery Effort (CARE) and President of the Environmental
(Continued, Page 3)



Dr. Jennifer L. Young is a Senior Program Manager at the ACS GCI, where her work focuses on the development of resources to aid researchers in implementing green chemistry and engineering concepts. Prior to joining ACS GCI in 2004, she held an industrial polymer research position at DuPont in the Ink Jet business. Her research involved synthesizing and studying new waterborne polymeric dispersant and binder technologies for ink jet inks. Jennifer earned a Ph.D. in polymer/organic chemistry in 2000
(Continued, Page 3)



Dr. Lawrence Sita obtained his B.S. degree in 1981 from Carnegie Mellon University and studied chemistry at the Massachusetts Institute of Technology where he was a student of Satoru Masamune (Ph.D., 1985) and a postdoctoral associate of the 2005 Nobel Laureate, Richard Schrock (1986). He has held faculty and academic positions at Carnegie Mellon University, the California Institute of Technology, and the University of Chicago before joining the faculty in 1999 at the University of Maryland, College Park, where he is
(Continued, Page 3)

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THE CHEMICAL SOCIETY OF WASHINGTON PRESENTS: *1084th Dinner Meeting*

Thursday, January 15th
University of Maryland
Chemistry Building Atrium
College Park, Maryland

6:00 pm SOCIAL HOUR
7:00 pm DINNER
COST \$10.00 Members, Guests
and Students

Menu: Pizza buffet: choice of cheese, pepperoni, or sausage/pepperoni/mushroom combination; with salad and soda.

Make reservations by **Monday 12:00 noon, January 12, 2009**, to the CSW office: csw@acs.org or 202-659-2650. Please designate the names in your party. The public is invited to attend. You may attend the talk only, but reservations are appreciated. *Those who make a reservation but are unable to attend should send a check for the cost of their meal to the CSW office.*

Directions: From the Capital Beltway (I-495), take US 1 South towards College Park. The University will be on your right (about 2 miles). Enter the University at the Main campus entry, Campus Drive and proceed to the Circle (second intersection) and take Regents Drive (the first right). The Chemistry building is on the right (second building). Parking is available in the Regents Drive parking garage which is across the street from the Chemistry building.

METRO: Green line to the College Park station. Exit the station via the main exit (East exit). The University of Maryland shuttle stop is marked. Look for the UMD bus that is marked to go to the Main Campus (ask the bus driver if you have any questions). The bus makes a stop just before the Campus Drive/Regents Drive traffic circle in front of the Physics building. The Chemistry building is just around the corner past the Physics Building on Regents Drive.

7:30 pm SPEAKERS: Bob Peoples and Jennifer Young, ACS GCI; Lawrence Sita, University of Maryland Department of Chemistry

TITLE: "The Green Tsunami: Will You Sink or Swim?"

Abstract: Suddenly green is everywhere—green products, green chemicals, green mobility products, to name a few of the terms in current vogue. What does it all mean and especially, what does it mean for chemistry and chemical engineering?

The field of green chemistry has been in development since passage of the Pollution Prevention Act of 1990, but it has received little government support, although 2008 saw introduction of the Green Chemistry Research & Development Act of 2008 in the Senate, which would create an interagency working group to advance research into environmentally friendly chemicals and provide research funding. Green chemistry provides an additional tool to confront the environmental, energy, and technology challenges of the 21st century, according to Sen. Olympia J. Snowe (R-Maine), chief Senate sponsor of the legislation. The House passed similar legislation in 2007 (H.R. 2850).

The ACS Green Chemistry Institute® (ACS GCI) works to enable and catalyze the implementation of green chemistry and green engineering principles into all aspects of the global chemical enterprise. ACS GCI pursues these goals through their efforts in the areas of research, education, industrial implementation, and policy advocacy.

CSW Officers Elected — Presidency Vacant Until January

CSW's elections concluded in November with positions filled for most officers' seats, with the exception of the presidency, which will be filled at the January Board Meeting. Results of the election are as follows:

For President Elect:

None elected, position to be filled by appointment on January 14.

For Secretary:

Jason E. Schaff, FBI Laboratory

For Treasurer:

Dorothy Zolandz, National Research Council, NAS

For Councilor (2009-2011 term):

Douglas J. Raber, Science Policy Consultant

Noel H. Turner, Naval Research Laboratories (Ret.)

James J. Zwolenik, NSF (Ret.)

For Alternate Councilor (2009-2011 term):

Philip R. Deshong, University of Maryland

Carol Henry, Consultant, Public Health & Environment

Jennifer Sample, JHU Applied Physics Laboratory
For Alternate Councilor (2009-2010 partial term):

Jerainne M. Johnson, NIST

John M. Ruth, USDA (Ret.)

For Alternate Councilor (2009 partial term):

Julie L. Glasnapp, Sprint NExtel

For Manager (2009-2010 term):

Tina Bahadori, American Chemistry Council

Walter R. Benson, FDA (Ret.)

Jennifer L. Breidenich, JHU Applied Physics Lab

Daron I. Freedberg, FDA

Kenneth L. Kirk, NIH (Ret.)

Nicole Payne

For Manager (2009 partial term):

Joshua Goldberg, Nath & Associates

The CSW Board of Managers meeting scheduled for January 12 has been rescheduled for January 14, 7:00 pm, Marvel Hall, ACS Headquarters.

Biosketches of Dinner Meeting Speakers *(Continued from page 1)*

Peoples: Impact Group. Preceding this position, he was the Director of Carpet Sustainability and Market Development at Solutia, Inc., where he was actively involved in carpet recycling and the negotiations leading to the formation of CARE and carpet related health and indoor air quality issues. While there, he helped to found the Board of CARE.

Dr. Peoples was a member of the team that developed Monsanto's patented, revolutionary stain blocker and fluorochemistry for the carpet industry. Following this development, he led the technical team for the commercialization of Electron®, a new business for Monsanto in St. Louis where he spent three years in Advanced Performance Materials. He returned to Pensacola in 1992 as head of Carpet New Products and held several positions of increasing responsibility including Director of Nylon Technology.

In these various roles, Dr. Peoples served to integrate a wide variety of initiatives that deal with sustainability on a national level. His efforts spanned new business development, new product and technology development, technology licensing and the creation and implementation of a unified national sustainable carpet standard. In 2003, Dr. Peoples was the first recipient of the Carpet America Recovery Effort "Person of the Year" award. He is an internationally recognized speaker in the areas of sustainability, standards, innovation and carpet reclamation.

Dr. Peoples holds a bachelor's degree in mathematics and chemistry and a Ph.D. in physical organic chemistry from Purdue University. He serves on several local and national boards including the Carpet America Recovery Effort (CARE), Georgia Pollution Prevention Advisory Board (P2AD) and the Green Standard.org. He is a member of several organizations including the National Recycling Coalition (NRC), Society of Plastics Engineers (SPE), and the American Chemical Society.

Young: from the University of North Carolina at Chapel Hill by investigating polymerizations in supercritical carbon dioxide under the direction of Joseph DeSimone. Her B.S. degree in chemistry is from the University of Richmond. Jennifer has over 10 years of experience in green chemistry and has been invited to present and publish on numerous green chemistry topics including green polymers, coatings, adhesives, biotechnology, analytical chemistry, renewable materials, information resources, and sustainability.

Sita: professor of chemistry. His interests include nanoelectronics, organometallic, polymer and surface chemistry, and in particular, the development of catalysts for stereoselective coordination polymerization and dinitrogen reduction. In 2008, Professor Sita founded the new technology-transfer startup, Precision Polyolefins, LLC, that is developing the X-PURE brand of synthetic oils, lubricants, detergents, and waxes through a patented direct Gas-to-Liquid (GTL) conversion of the endlessly available feedstock gas, propylene, in an environmentally-friendly manner.

Socialize and Share Science with the Retired Chemists' Group

Retired and active chemists and their scientifically inclined friends are invited to attend any of the Retired Chemists' Group (RCG) Luncheon Meetings. The mid-week, daytime programs have included scientific talks, travelogues, and tours of nearby museums and mansions. The RCG is essentially a social group, for members to find an opportunity to socialize with former colleagues or to make new friends. Many of our programs will appeal to spouses and friends. There are no dues or attendance requirements, just the opportunity to further your continuing interest not only in science but in other areas. We have three luncheons per year, usually in April, June and October. All events are carried out in a relaxed environment.

Details of upcoming RCG Meetings will be found in the appropriate issues of "The Capital Chemist" and on the RCG subsite of the CSW Website (www.csw-acis.org). About two weeks prior to a Luncheon Meeting, we sent out an announcement of this event via the Internet using a RCG file of e-mail addresses. If a member has no e-mail address and has attended a meeting in 2008, he or she will receive an announcement by USPS.

If you are interested in receiving our announcements via the Internet, please send your e-mail address to: cassidy.j@att.net, also give your name and USPS address. If you know of a speaker or a place to visit that you believe would be of interest to RCG members, please send this input as well.

Volunteer Service Opportunities in the Scientific Community

Science Fair Judging. Members of CSW who have served as science fair judges report that it is always heartwarming to interact with the students about chemistry. CSW periodically receives requests from local school districts to provide science fair judges. If you would like to judge a science fair in your area, please contact the CSW office.

ReSET (Retired scientists Engineers and Technicians, www.resetonline.org) is searching for new members of its Board. They are a volunteer non-profit organization and have been successfully operating in the Washington, DC area for 20 years. ReSet volunteers have been bringing science and engineering to the elementary schools in the DC and they are in the midst of expanding our services. The ReSET Board is eager to have representatives from the major science and engineering societies. If you would like to serve, contact Harold Sharlin at 202-966-2122 or harold.sharlin@verizon.net.

ACS Publications from DC Area Research Groups

This feature of *The Capital Chemist* is a compilation of selected publications in ACS journals, appearing recently, from area institutions. The list is selected based on a number of factors: representation of different chemistry sub-disciplines, representation of different institutions and departments, noted involvement of undergraduate students, and prominence within the journal issue. Don't see an article you think should be featured? Send it to csw@acs.org for consideration. If the article is an accelerated or highlighted publication, or has been featured in the popular/scientific press, let us know that, too. * - denotes corresponding author.

Qin Zhong and John T. Fourkas* (2008) "Optical Kerr Effect Spectroscopy of Simple Liquids," *J. Phys. Chem. B*, **112** (49), 15529–15539. (Feature article; Department of Chemistry and Biochemistry, University of Maryland.)

Lance Wallace*, Fang Wang, Cynthia Howard-Reed and Andrew Persily (2008) "Contribution of Gas and Electric Stoves to Residential Ultrafine Particle Concentrations between 2 and 64 nm: Size Distributions and Emission and Coagulation Rates," *Environ. Sci. Technol.*, **42** (23), 8641–8647. (Lead article in Research Section; National Institute of Standards and Technology.)

Patrick P. McCue* and James M. Phang (2008) "Identification of Human Intracellular Targets of the Medicinal Herb St. John's Wort by Chemical–Genetic Profiling in Yeast," *J. Agric. Food Chem.*, **56** (22), 11011–11017. [National Center for Complementary and Alternative Medicine, NIH (P.P.M.), and Metabolism and Cancer Susceptibility Section, Laboratory of Comparative Carcinogenesis, Center for Cancer Research, National Cancer Institute, Frederick, MD (J.M.P.)]



Chem-Mystery

A possibly amusing amalgamation of chemistry, wordplay and trivia

What rearrangement occurs upon the combination of hydroiodic acid and silver hydroxide? (Answer, page 8)

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Two Outstanding Recipients Share CSW Service Award

This year the Community Service Award Committee received nominations for two candidates who were so outstanding that it was not possible to choose between them. Therefore, the Committee decided, for only the second time in the 41-year history of the Award, to honor TWO Awardees: Dr. Elizabeth K. Weisburger and Dr. Robert H. Maybury.

Dr. ELIZABETH K. WEISBURGER received the 2008 Community Service Award in recognition of her more than three decades dedicated to encouraging the interests and abilities of aspiring young scientists. This includes successfully urging scientific professionals to join her in judging science fairs at local middle and senior high schools and personally serving in Montgomery County as the County Science Fair Special Judge. She awards CSW Certificates of Achievement to many students who would not win an overall 1st, 2nd, or 3rd prize and thus encourages their interest in further exploring the sciences. She volunteers as a tutor at a middle school. Yet her activities are not confined to students at the pre-college level. She is involved in providing educational opportunities through scholarships at several colleges and the Society of Toxicology. She says she does all this "for the kids". Dr. Weisburger pursued her undergraduate studies at Lebanon Valley College and received her Doctorate from the University of Cincinnati. She has had a distinguished professional career, including 37 years in the Commissioned Corps of the US Public Health Service (Scientist Corps) doing research on chemical carcinogenesis. She is the author of many publications and has served as editor for various other publications. Among her many honors are the Hillebrand and Gordon Awards from CSW, as well as the recent honorary degree of Doctor of Science from Lebanon Valley College. The occasion for the latter was the dedication of the Elizabeth K. Weisburger Advanced Organic Laboratory at the College's newly renovated Science Building

Dr. ROBERT H. MAYBURY received the Community Service Award in honor of his two decades spent helping chemistry professionals and improving chemical facilities in developing countries, principally in Africa, but also in the Western Hemisphere. One example dates back to 1991 when Dr. Maybury was searching for an outstanding African institution which could assist African chemists who were isolated from the research tools of first-world countries. When no such single research facility could be found, he, along with several other chemists, helped to establish NABSA (Network of Analytical and Bioassay Services in Africa) with a \$100,000 grant from UNESCO. This service to African chemists has survived and is still active. Dr. Maybury obtained his Ph.D. from Boston University and continued his studies with two years of post-doctoral research on protein physical chemistry at Harvard University. He then taught for ten years as a professor of chemistry at the University of Redlands in California. Currently, Dr. Maybury serves as Executive Director of the International Organization for Chemical Sciences in Developing Countries, a position he has held since its founding 1988. His earlier service to the international chemical community began with positions on the science staff of the United Nations Educational, Scientific and Cultural Organization (UNESCO) in Paris, France, and as Deputy Director of the



UNESCO Regional Office for Science and Technology in Nairobi, Kenya. Following this, he served as a consultant with the science and technology advisor to the World Bank. Together, they developed a training program on management of technology in such sectors as transport, health and sanitation, agriculture, and industrial development. These programs were implemented in Kenya, Guinea, Mali, Niger and Senegal as well as Caribbean countries. Dr. Maybury's community truly is the whole world. *Contributed by Elaine Shafrin, Chair, CSW Community Service Award Committee.*

DC Area Chemistry Seminar Schedules

Listed below are chemistry-related seminar schedule web sites from area universities. Contact the department to find out about general public admission, directions to campus, and parking. **Viewing the PDF? Just click!**

Georgetown Chem: <http://chemistry.georgetown.edu/news/seminars.html>

GMU Chem: http://chemistry.gmu.edu/seminar/seminar_fall2008.html

GWU Biochem: <http://www.gwumc.edu/biochem/seminars.html>

GWU Chem: <http://www.gwu.edu/~gwchem/seminars.cfm>

Maryland Biotechnology Institute: <http://www.umbi.org/home.php>

Maryland Chem: <http://www.chem.umd.edu/seminars/index.php>

Maryland Chem Eng: <http://www.chbe.umd.edu/events/seminars.html>

Maryland Chemical Physics:

http://www.chemicalphysics.umd.edu/8_courses.htm

Due to the holiday breaks, no announcements of January seminars were available at press time. Consult the web pages periodically for updates.

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CSW Calendar

CSW Monthly Dinner Meeting
Thursday, January 15
See page 2

CSW Board of Managers
Meetings
NOTE DATE CHANGE
Wednesday, January 14
Changed from Monday, Jan. 12
7 pm, Marvel Hall, ACS HQ

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Make Plans NOW to Attend the 2009 ACS National Meetings!

237th ACS National Meeting—Salt Lake City—March 22-26, 2009

Theme: Nanoscience: Challenges for the Future

The Keynote Address, "From Nature and Back Again: Giving New Life to Materials for Energy," will be delivered on Sunday evening by Dr. Angela M. Belcher, Germeshausen Professor of Materials Science and Engineering and Biological Engineering, Massachusetts Institute of Technology.

A Plenary Session will be held on Monday afternoon from 4:00 – 7:00 PM. Professors Vicki Colvin (Rice University, Departments of Chemistry and Biomolecular Engineering), Jim Hutchison (University of Oregon, Materials Science Institute), George Whitesides (Harvard University, Department of Chemistry & Chemical Biology); and Grant Willson (University of Texas, Austin, Department of Chemical Engineering) have accepted invitations to present in the Plenary Session.

Seven themed symposia are being organized by leading researchers in nanoscience and will be primarily sponsored by one of the ACS technical divisions. They are: Frontiers in Imaging Biological Nanostructures; Nano Meets Neuro: Novel Challenges for Nanoscience in Probing Brain Chemistry; Integrating Nanoscience into the College and High School Classroom; Molecular Rotors and Motors; Frontier Applications of Nanotechnology in Engineering Extracellular Matrices; Chemical Methods of Nanofabrication; and Genetically Designed Molecular Materials.

Visit www.acs.org/meetings for additional information for the 2009 meetings.

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