

Tommy Melli, ExxonMobil, Will Speak at CSW November Meeting

CSW will hold its November dinner meeting, honoring its 50-year members, on Thursday, November 18, at Marymount University in Arlington, VA. Dinner information and other specifics are detailed on page 2. The speaker will be Dr. Tommy Melli, Manager, Equipment Technology Division, ExxonMobil Research and Engineering Company.

Dr. Melli leads the ExxonMobil Research and Engineering Equipment Technology Division. Tommy received a chemical engineering degree from the Universidad Nacional del Litoral (Argentina), a Ph.D. in chemical engineering from the University of Minnesota and an M.B.A. from the Wharton Management Program at the

University of Pennsylvania. He began his career with Mobil in Paulsboro, New Jersey, in 1990. Since that time, he has held various technical, supervisory and managerial assignments for Mobil and ExxonMobil.

Since the merger of Exxon and Mobil in 1999, Tommy has held several positions: management responsibilities in the engineering organization (Light Ends Upgrading), Business Development Manager for the Technology Sales and Licensing organization, Project Manager in the Business Development and Portfolio Management of Refining and Supply, and Operations Excellence Technology Program Leader in Research.

Tommy assumed his current

position in July 2010. In this capacity, he works in the engineering division, which supports projects in and provides technical assistance to refineries. His division also researches and develops technologies to support flawless and efficient refinery operations. Key areas under his portfolio are heat transfer, reliability, electrical, mechanical, civil, marine, machinery, materials, process safety and oil spill response. Tommy has been active in the Global Organization for the Advancement of Latinos (GOAL) where he is currently serving as a director in charge of the mentoring program for talented Latinos pursuing science and technology degrees.

Dinner Meeting Abstract: Energy in the 21st Century

Energy-related issues have dominated media coverage in recent months. Whether it is a debate about increasing access to supplies, energy security, industry earnings, climate change, the challenge of meeting higher demand, or questions about gas prices, no global industry generates more discussion than energy. This presentation tackles many of the hot-button issues currently on the minds of people across the globe. It begins with a discussion of the global market, including supply/demand issues and the important role governments play in ensuring the market functions properly. From there, we explore the key role of technology in meeting growing energy needs – from ones that enhance our ability to find, develop and deliver new supplies to others that increase the efficiency and lower emissions in vehicles, including hybrids.



Science takes over at the National Mall, during the USA Science and Engineering Festival, October 23-24. More photos, page 5.

The Capital Chemist™



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THE CHEMICAL SOCIETY OF WASHINGTON PRESENTS: 1097th Dinner Meeting

Thursday, November 18
Gerard Phelan Dining Hall
Marymount University
Arlington, VA

6:00 pm Social Hour

7:00 pm Dinner

COST \$30.00 Members & guests

\$15.00 Students

5:00 pm: Tour of Marymount University science facilities

Social Hour: Red and White wine, assorted sodas; hors d'oeuvres: Spinach pesto puff pastry, Crab stuffed mushroom caps.

Menu includes: Spinach Salad tossed with pears, blue cheese, and red onion served with a vinaigrette dressing; Green Beans, Rice Pilaf (no nuts), Chicken Amaretto with mushrooms, London Broil in a Port Wine reduction sauce, Vegetarian entrée available upon request; Rolls and butter; Dessert buffet of apple pie, cherry pie and pecan pie; Coffee and Hot tea.

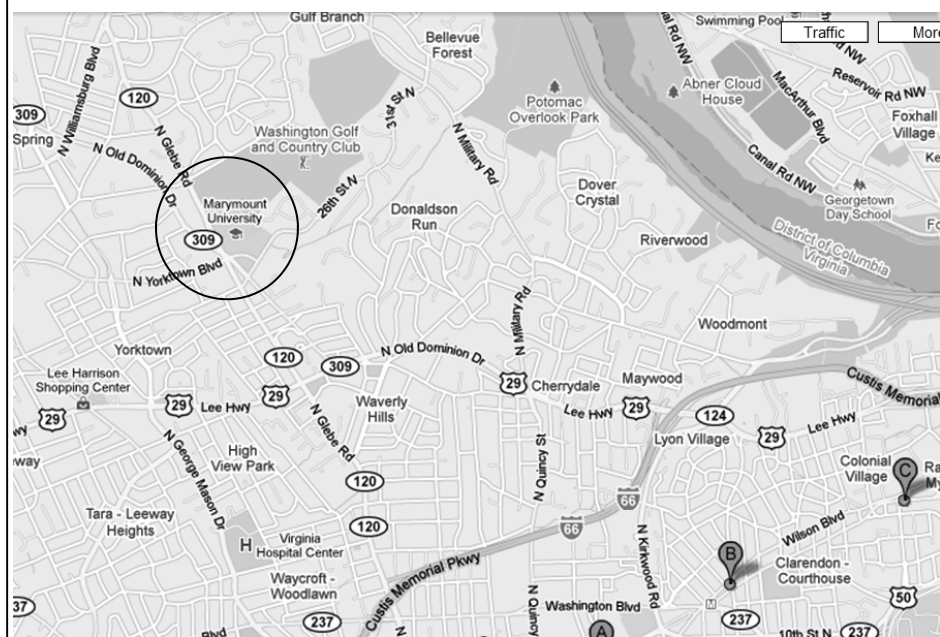
Make reservations by **Monday, November 15, 2010, 12:00 noon**, to the CSW office: csw@acs.org or 202-659-2650. Please designate the names in your party. The public is invited to attend. You may attend the talk only, but reservations are appreciated. Those who make a reservation but are unable to attend should send a check for the cost of their meal to the CSW office.

Directions: The Marymount University web site page for Directions to Campus is <http://www.marymount.edu/explore/directions.aspx>

METRO: Orange Line to Ballston-MU station. The Marymount campus is located at the intersection of Glebe Road and Fairfax Drive. Shuttle service is available to and from the Ballston-MU Metro station.

8:00 p.m. Featured Speaker: Dr. Tommy Melli, Manager, Equipment Technology Division, ExxonMobil Research and Engineering Company

Title: Energy in the 21st Century





***The Capital Chemist* Will Be Primarily Electronic in 2011**

In January, *The Capital Chemist* will convert to electronic publication. Members who wish to continue receiving mailed paper copies may do so for a fee of \$10 per year. Payment of \$10.00, in the form of a check or money order payable to "Chemical Society of Washington" should be sent to the CSW office (address, page 2). If payment is received by close of business on December 30, 2010, the member will receive all nine issues of *The Capital Chemist* for 2011. Otherwise, the member will receive all issues for 2011 with press deadlines after the date of receipt of the \$10 payment (pro-rated price will not be available).

All members who do not have valid e-mail addresses listed with ACS will be mailed paper copies of the nomination and election ballots, regardless of whether or not they pay for mailed delivery of *The Capital Chemist*. If you have a valid e-mail address on file, but still want a paper copy of a ballot sent, contact us at csw@acs.org in order to make appropriate arrangements.

Many CSW members will be reading *The Capital Chemist* like this Science and Engineering Festival attendee in Washington, DC on October 23-24.

Thirty-eight 50-Year Members to be Honored at CSW November Dinner

Mr. Russell Arnold, Adelphi, MD
 Dr. Ernst Billig, Rockville, MD
 Ms. Charlotte Blalock, Alexandria, VA
 Dr. Joseph Caponio, Washington, DC
 Dr. George Cushmac, Alexandria, VA
 Dr. Farley Fisher, Washington, DC
 Dr. Lee Grady, McLean, VA
 Mr. Wilburt Haggerty, Arlington, VA
 Mr. John Hoffsommer, Silver Spring, MD
 Dr. Derek Horton, Washington, DC
 Mr. John Innes, Salisbury, MD
 Dr. Robert Jones, Fairfax, VA
 Dr. Neil Jurinski, Burke, VA
 Dr. Dennis Kelsh, Clarksburg, MD
 Dr. Kenneth Kirk, Bethesda, MD
 Mr. Lawrence Krutzel, Fairfax, VA
 Dr. Lawrence Kushner, Gaithersburg, MD
 Dr. Ronald Liesemer, Alexandria, VA
 Mr. Sidney Marantz, Silver Spring, MD

Dr. Daniel Martire, Washington, DC
 Mr. Lee McCandless, Fairfax, VA
 Mr. Patrick McCurdy, Mason Neck, VA
 Mr. Michael McGreal, Rockville, MD
 Mr. Eugene Morris, Laurel, MD
 Mr. Edward Mougey, Beltsville, MD
 Dr. Albert Mueller, Montgomery Village, MD
 Dr. Paul Paulsen, Gaithersburg, MD
 Dr. Paul Peyser, Silver Spring, MD
 Dr. Joseph Rogers, Jr., Chestertown, MD
 Mr. Gerry Rollefson, Saint Michaels, MD
 Ms. Esther Saito, Chevy Chase, MD
 Dr. Dorothy Smith, Washington, DC
 Dr. Claybourne Snead, Arlington, VA
 Dr. Nicolas Starkovsky, Burke, VA
 Mr. Robert Wellek, Rockville, MD
 Dr. Donald Wilson, Ocean Pines, MD
 Mr. Herman Ziffer, Kensington, MD
 Mr. Stuart Zimmerman, North Potomac, MD

ACS and CSW Shorts: New GCI News Page, Awards, RCG Officers

New GCI News Page Online

The Green Chemistry movement is growing at a fast pace - so fast that GCI's bi-monthly newsletter, the *Nexus*, can't keep up. We hope the News page will serve our readers with timely, high-quality news. The page will be frequently updated to ensure content is kept current. PDF versions of *Nexus* are available at www.acs.org/greenchemistry.

Currently on the page:

1. New NSF/GCI Greener Chemicals Draft Standard is Now Available for Public Comment
2. ACS Green Chemistry Institute® announces the 15th Annual Green Chemistry & Engineering Conference
3. 10 Win Heinz Awards:

Environmental luminaries each receive \$100,000 for their pioneering work in fields such as green chemistry, journalism and ocean ecosystems.

4. Millersville teen hard at work on 'green chemistry' project

ACS GCI takes pride in promoting and advancing green chemistry and engineering news and information. Send your submissions to e_pena@acs.org.

President Barack Obama Honors Four ACS Members

Four ACS members are among 10 people honored by President Barack Obama as winners of the National Medal of Science and the National Medal of Technology & Innovation for 2010. The medals are the highest honor given to scientists and engineers by the

US government.

Stephen J. Benkovic, Pennsylvania State University (Central Pennsylvania local section); Esther M. Conwell, University of Rochester (Rochester local section); and Marye Anne Fox, University of California San Diego (San Diego local section) were awarded the National Medal of Science. Helen M. Free, Miles Laboratories (St. Joseph Valley local section) was awarded a National Medal of Technology & Innovation. Free was president of ACS in 1993. Her work on dip-and-read diagnostic strips was named a National Historic Chemical Landmark this year. They will receive their medals at a White House ceremony later this year. See a C&EN story about the awards at <http://pubs.acs.org/cen/news/88/i43/8843news1.html>

DC Area Chemistry Seminar Schedules

Listed below are chemistry-related seminar schedule web sites from area universities, that were up-to-date as of press time. More will be posted as they become updated. Contact the department to find out about general public admission, directions to campus, and parking. **Viewing the PDF? Just click!**

Carnegie Institution of Washington: <http://www.gi.ciw.edu>

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

GMU Chem: http://chemistry.gmu.edu/seminar/seminar_fall2010.html

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

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

Maryland Chemical Physics:

http://www.chemicalphysics.umd.edu/10_seminars.htm

DC Area Chemistry Seminars: Editor's Choice

Check web sites for times and locations.

Georgetown Chem: Prof. Stephen Lee, Cornell University, "Higher Dimensional Metal Crystals: Beta and Gamma Brass Derivatives," Thursday, November 11.

Maryland Chem: A day-long scientific symposium in honor of the contributions of Jack Moore, entitled "Coincidence, Electrons, and Molecules," will be held Friday, November 12, 2010 in the Marker Seminar Room.

Maryland Chem: Distinguished Speaker Seminar Series - Professor Catherine Costello, Boston University School of Medicine, Friday, December 3.

Maryland Chem Eng: Dr. Lloyd M. Robeson, "Membrane Gas Separation: The Upper Bound and Other Correlations," and "Membrane Purification of Water: Fundamentals and Practice," Tuesday, November 30.

Retired Chemists' Group Elections for 2011

At the business meeting held during the luncheon of the Retired Chemists' group on October 19, 2010, the following slate of officers for 2011 was elected:

Dr. Paul Terry, President

Dr. John Malin, Vice-president

Dr. Justin Collat, Secretary

Dr. Jerome McDonald, Treasurer

ACS President's Challenge Update

ACS members have recruited 5,368 new members through the 2010 ACS President's Challenge! ACS has three different resources to help you to reach out to various audiences, in particular chemists living abroad and students. Each site describes the benefits of ACS membership that are geared specifically to that particular group.

International.ACS.org – to help you recruit international members;

GradStudent.ACS.org – to help you recruit graduate students and postdocs;

Undergrad.ACS.org – to help you recruit undergraduate students.

More Photos from the USA Science and Engineering Festival in DC



Clockwise from top left: swirling colors in shaving cream at the ACS booth; meeting of the Younger Chemists' Committee (?); protein biophysicist from Johns Hopkins with molecular model; contemplating the banana; deciphering banana gene sequences



Upcoming Science Café and Science Festival Conference in Washington, DC

Curious about getting more from your science café experience? Want to learn more about a science festival near you? Interested in taking your science cafés and festivals to the next level? Join us for the International Public Science Events Conference [IPSEC], co-sponsored by Science Cafes and the Science Festival Alliance.

When: February 16-17, 2011 (prior to the AAAS Meeting)

Where: Washington, DC

Web site: <http://sciencefestivals.org/conference.html>

This February the first ever International Public Science Events Conference [IPSEC] convenes for two days in Washington DC. From multi-million dollar citywide festivals, to intimate café meetings at the corner pub, public science events are popping up across the globe. Join professionals from around the world to trade ideas and inspiration, forge new collaborations, and consider what is next for this rapidly growing field. And it is all timed to lead into the annual meeting of the world's largest general scientific society: the AAAS. Save your spot now with the Science Festival Alliance. The 2011 meeting will have a strong focus on two strands: science cafes and science festivals.

Science cafes are spreading across the globe, with well over 300 cafe series worldwide. These intimate dialogue

events are making a big impact on nearly every continent. With a low cost of entry, anyone can start a science café tailored to their audience and community. This has led to a wide range of approaches for fostering lively interaction between the public and science professionals. What tricks and tips have folks come up with to bring out conversation in tough audiences? Are there new resources available to help you keep your café fresh? What are the latest great examples of how a café series complements other outreach efforts? Join us at IPSEC as we discuss the future of this emerging movement.

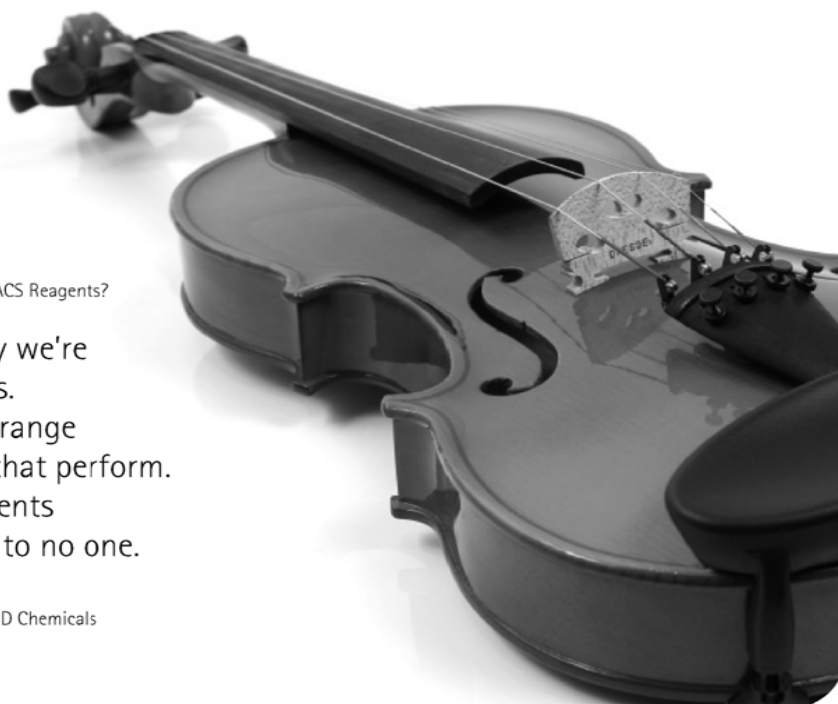
Science festivals are large, inspiring celebrations of the fascinating world of science and technology that reach people where they live, work, and play. Festivals present science in unusual venues and innovative ways, making each celebration an incubator for new outreach formats. Want to make the most of a festival's big main event? Looking for a new way to reach a target audience? Wondering if your evaluation captured all of the impacts? Join us at IPSEC and learn about creative approaches other festivals have come up with. Other topics will include festival collaborations, unique fundraising approaches, festival benchmarking...and the best of what you suggest! Please contact Jennifer Larese at getinvolved@wgbh.org, with any questions.

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The Geophysical Laboratory of the Carnegie Institute of Washington has a large number of high quality, lightly used glass desiccators in a variety of sizes that we wish to give away to educational institutions in the Washington area. If your department is interested in acquiring some of these desiccators, then please contact Steve Gramsch at 202-478-8939 or by e-mail at s.gramsch@gl.ciw.edu.

CSW Calendar

Deadline for Receipt of CSW Officer Election Ballots:
Monday, November 15

December Dinner Meeting
Thursday, December 9, 2010
Location TBD

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- www.mboservices.net
- <http://membership.acs.org/W/WashDC/career.html>

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Chemistry Nobels for Organic Couplings

The 2010 Nobel Prize in Chemistry recognized palladium-catalyzed cross couplings in organic synthesis. It was awarded jointly to Richard F. Heck, 79, retired from the University of Delaware; Akira Suzuki, 80, Professor Emeritus of Hokkaido University in Sapporo, Japan; and Ei-Ichi Negishi, 75, Professor, Purdue University. Cross couplings involve reactions between two chemically distinct partners allowing control over both halves of the resulting molecule. Cross coupling reactions often involve aryl, alkenyl, alkyl halides or pseudohalides as one reaction partner with a much greater variety in the other reaction partner. This cross-coupling has vastly improved the possibilities for creating complex molecules, for example, natural products.

Contributed by Dr. Leopold May, Catholic University.

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CSW: Celebrating over a Century of Service to Washington DC Area Chemists

Anne R. Leslie, CSW Member and Gordon Award Recipient

Anne Reinhard Leslie, longtime CSW member, passed away on October 19. Anne was born in Columbus, OH. She received a B. S. in chemistry from the University of Arizona; M.S., biochemistry, McGill University, and Ph.D. (ABD), biochemistry, University of Utah. Following graduate work in Utah, Anne lived in various places including a return to Canada where she completed her graduate work. She came to Washington in 1980 to work for the EPA. As the recipient of the Charles L. Gordon Memorial Award from CSW, she was recognized for her exemplary service to the profession of chemistry.

Anne and Francis were married in 1986 at Kirkwood Presbyterian Church, Springfield, VA. They moved to Alexandria in 1987, when Anne joined Bush Hill Presbyterian Church. She retired from the EPA July 31, 1998, and began a consulting business in viable alternatives to pesticide use. She continued her silhouette business and fiddling. Anne had five sons: Doug, Neal, Eric, Travis and Brian (deceased), and

she was grandmother to Sadhbh and Ruadhan. Anne was also stepmother to Thomas, John, William, Robert, Anne and Richard.

Anne was one of only a few American artists who practiced silhouette portraiture. Using only a pair of scissors and black paper, she was able to create life-like portraits of a sitting subject within a few minutes. As her slogan suggests, wiggly children were her specialty. She was a welcome guest at craft shows and shops around the country. If you were fortunate enough to have her create a portrait of yourself or your children, you are holding on to a true piece of original American art and history.

Anne will be remembered as a beloved wife, mother, grandmother, friend, musician, artist, scientist and teacher. Her loves included violin, viola, Scottish country dancing, gardening, canoeing, decorative arts, and silhouette portraiture. Please see Anne's silhouette portraiture web site at <http://www.shadowportraits.com>.

