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IN MEMORIAM: DUANE N. SUNDERMAN
From The Columbus Dispatch

Emeritus Member **Dr. Duane N. Sunderman**, age 83, of Hilliard, OH, passed away suddenly July 22, 2011. He was born July 14, 1928 in Wadsworth, OH, and graduated from Fort Wayne North Side High School. He received his A.B., M.S., and Ph.D. in Chemistry from the University of Michigan, and graduated from the Harvard Business School Program for Management Development. He served in the United States Navy aboard the USS Kearsarge (CV-33) and later as an ensign in the United States Naval Reserve. He was the former Director of the National Renewable Energy Laboratory (NREL), Director of Kansas City Operations for Midwest Research Institute, and worked for 28 years in research and management roles for Battelle Memorial Institute. He was a member of the American Chemical Society and the American Society for Testing and Materials. He was a founding member of the Hilliard Presbyterian Church and a former choir member, elder, and usher of Covenant Presbyterian Church. Duane was preceded in death by his parents Richard B. and Caroline N. Sunderman, daughter-in-law Lynn Cuccaro Sunderman, and niece Brenda Dillon Davis. He is survived by loving wife of 58 years, Joan H. Sunderman; daughter, Christine (Jeff) Boruvka; sons, David D. Sunderman, Richard G. Sunderman; sister, Betty (Jim) Dillon; grandchildren, Katie (Chris) Buckholtz, Elise Boruvka, Holly Sunderman, and Michelle Sunderman; niece, Debbie (Paul) Yeoman; and nephew, John Dillon. Memorial service was held at 7 p.m. Tuesday, July 26, 2011 at the SCHOEDINGER NORTHWEST CHAPEL, 1740 Zollinger Rd., where family received friends at 5 p.m. until the time of the service. In lieu of flowers, contributions may be made to the American Heart Association or the Covenant Presbyterian Church permanent funds ministry. The family would like to express its thanks to the medics of the Norwich Township Fire Department and to the staff of the Riverside Methodist Hospital. To share memories or condolences, please visit www.schoedinger.com.



MEETING NOTICE

Columbus Section of the American Chemical Society, Inc.

<http://columbus.sites.acs.org>

Radical Basis of Aging

DR. FREDERICK VILLAMENA

Associate Professor
Department of Pharmacology
The Ohio State University
Biomedical Research Tower

Wednesday, September 21, 2011

Ohio Dominican University
Griffin Student Center
1216 Sunbury Road
Columbus, OH 43219

PROGRAM DETAILS

5:00-6:00PM	Executive Committee Meeting , Room #274, Griffin Student Center
6:00-6:45 PM	Social Hour (Appetizers & Cash Bar, rooms #258 and #259, Griffin Student Center)
6:45-7:30 PM Dinner	Mixed Field Greens w/ Herbed Vinaigrette Dressing; Seasoned Vegetables (Yellow Squash, Red Peppers, Onions, Broccoli & Zucchini) w/ Olive Oil, Garlic & Salt/Pepper; Roasted Fingerling Potatoes Please select either : Stuffed Chicken Breast w/ Cornbread Stuffing or Vegetarian Option: Eggplant Rollitini Cherry Crisp; Coffee & Hot Tea Service; Iced Tea & Water
7:30-8:30 PM Program	Dr. Frederick Villamena, <i>Radical Basis of Aging</i>
Cost	\$25 per person members and non-members, \$20 for retired and unemployed members, \$10 per student. Payment will be collected at the door; cash and checks accepted. <i>Remember that this is a dinner order and must be paid. Please help control costs by honoring your order.</i>
RSVP	Please use the voice mail reservations service by calling 614-447-3600 extension 7047. Follow the template for reservations*. Alternatively, please send e-mail with the same information to The Columbus Section at the following e-mail address: acscols@wowway.com or use the Meeting Reservation Form on the Section website.
*Voicemail/e-mail Reservations Template	<ul style="list-style-type: none"> • First and last name: Please spell last name. • Membership category: member, high school teacher, non-member, retired, emeritus, unemployed, student, other. • Employer • Chicken or Vegetarian entrée • Please indicate if you will join us for the <u>Dinner & Program</u> OR <u>Program Only</u> • Your phone number, in case we need to contact you.
Reservation Deadline	Wednesday, September 14th, 2011 at noon
Program Contact	Karen Irving , 614-292-1229; irving.8@osu.edu

Directions & Parking



Ohio Dominican University
Main Campus
1216 Sunbury Road
Columbus, OH 43219
See parking permit on page 10. Display in your car window.

From Morse Road travel south on Sunbury Road to the ODU campus (you will see dormitories and other brick buildings on your left and a large parking lot); turn right into the parking lot at the light and continue southwards towards the large building. This is the Griffin Student Center; please park behind this building and come into it through the rear door. The meeting rooms are on the second floor.

From the Fifth Avenue exit off route 670, turn west towards town and then take Sunbury Road, a right turn off Fifth Avenue. Continue north and turn left into the large parking lot just past the large brick building with all the windows (Griffin Student Center). Proceed into the parking lot and park behind the Griffin Center. Enter through the rear of the building and go to the reserved rooms on the second floor for the meeting and executive committee meeting.

ABOUT THE SPEAKER: DR. ERICK VILLAMENA



Dr. Erick Villamena obtained his B.S. degree in Chemistry (cum laude) from the University of Santo Tomas, Manila, Philippines. He did his doctoral studies at Georgetown University with emphasis on physical organic chemistry. His post doctoral stints include Oak Ridge fellowship at the Environmental Protection Agency in Cincinnati where he worked on the design of molecularly imprinted polymers, then a CNRS fellowship with Prof. Olivier Kahn in Bordeaux, France, where he was involved in the synthesis of high spin molecular magnetic materials, and finally as an NIH-fellowship at Johns Hopkins University where he developed spin traps. He was appointed Assistant Professor in 2007 at the Pharmacology Department, Ohio State University, College of Medicine and recently was promoted to Associate Professor with tenure effective October 1, 2011. Erick's research focuses on the development of radical probes and synthetic antioxidants for the treatment of radical-mediated injury such as myocardial infarction. His research encompasses computational chemistry, synthesis, EPR spectroscopy, and molecular biology. During his free time (which isn't much), Erick restores old violins and paintings and collects antiques.

ABOUT THE TOPIC: RADICAL BASIS OF AGING

Molecular oxygen sustains life and is undoubtedly its most important function, however, partial metabolism of oxygen can lead to the production of reactive oxygen species (ROS). Unregulated production of ROS has been implicated in the pathogenesis of various age-related diseases such as cancer, neurodegeneration, ischemia and reperfusion injuries to the heart or brain to name a few through the process of oxidative stress caused by oxidative modification of key biomolecular systems. Fortunately, living systems have evolved to counter balance the over production of ROS via genetic and/or dietary mechanisms. Research efforts in the field of free radical biology have focused on the elucidation of mechanisms of oxidative stress and therapeutic strategies to ameliorate, minimize or reverse the process of oxidative injury. In this talk, the speaker will present the fundamentals of free radical chemistry and biology and demonstrate a few examples of what works (and does not) with antioxidant therapeutics.

NOMINATING COMMITTEE REPORT
By Maria Rosenthal and Priscilla Ratliff

The Ballot for the 2011 Election of the Columbus Section of the American Chemical Society is as follows:

Chair-Elect David Speth	Secretary Michelle Schott	Treasurer-Elect Jennifer Mahoney	Councilor Lewis Hogarth	Councilor Ed King
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Election materials will be available for members in the month of October, in time for the election cycle.

The Nominating Committee:

Maria Rosenthal
Priscilla Ratliff

E-VOTING COMING TO THE COLUMBUS SECTION

The Tellers Committee and Nominations Committee have been busy in the summer, studying the process of e-balloting, with the assistance of other ACS groups that have established methods and protocols for confidential, secure e-balloting. We especially appreciate the assistance of the Chemical Information Division of ACS.

The process will be implemented for the upcoming election cycle. Members in good standing with ACS who have an email account on file with ACS will receive an email notification from **surveymonkey**, an online polling service, with a personalized link to the ballot. The estimated date is on or about October 1.

This link will be active for one, and just one ballot, per member.

The surveymonkey account is a private account managed by the Chair of the Tellers committee. No email account information will be shared with anyone.

Members without email/internet access will be provided with a hard copy ballot per usual.

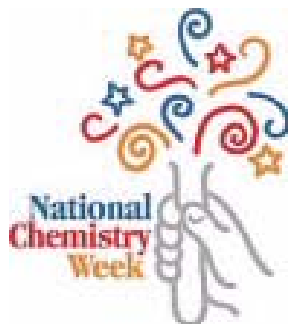
The balloting process is fast, easy, and effective. We expect that it will help increase participation in elections and interest in activities of the Columbus Section. It will obviously bring significant savings in postage, moneys that can then be allocated to our science education and public outreach activities.

We thank all members in advance for their participation and support in this endeavor.

The Tellers Committee
The Nominations Committee

For information, please contact **Rudolf Brits** at rbrits@cas.org

NATIONAL CHEMISTRY WEEK, OCTOBER 16-22, 2011
Chemistry—Our Health, Our Future!



National Chemistry Week (NCW) is a community-based annual event that unites ACS local sections, businesses, schools, and individuals in communicating the importance of chemistry to our quality of life. This year, NCW explores the positive impacts of chemistry as it relates to nutrition, hygiene, and medicine.

Your Columbus Section will be partnering with COSI on Wheels for NCW. Volunteers are needed to perform hands-on chemistry demonstrations for children of all ages at the Main Branch of the Columbus Metropolitan Library, 96 South Grant Avenue, from 10:00 AM until 3:00 PM on Saturday, October 22, 2011. No previous experience is necessary; we will provide everything you need and show you how to perform the demonstrations on the day of the event. You are not required to work the entire time; you may sign up for a two- or three-hour "shift." Please contact **Professor John Blaha** at 614.287.5930 or jblaha@cscc.edu for more details.

CONGRATULATIONS TO THE 2011 CLASS OF ACS FELLOWS



The American Chemical Society has named 213 members as ACS Fellows. The new fellows will be honored at the society's fall national meeting in Denver later this month.

"ACS is especially proud to honor these chemists during the 2011 International Year of Chemistry," said ACS President **Nancy B. Jackson** in announcing the 2011 class of ACS Fellows. "The work they are doing will improve all of our lives as they unleash the power of chemistry to solve global challenges like providing clean water, sufficient food, new energy sources, and cures for disease. But that's not all," she noted. "They're also organizing scientific conferences for their peers, doing outreach with scouts and schools, and being mentors to the next generation of scientists."

The fellows program began in 2009 as a way to recognize and honor ACS members from academe, industry, and government for outstanding achievements in and contributions to science, the profession, and ACS.

Nominations for the class of 2012 ACS Fellows will open in the first quarter of the year. Additional information about the program, including a list of fellows named in earlier years, is available www.acs.org/fellows.

Please join us in congratulating Columbus Section members who are among the latest inductees:

Lawrence J. Berliner
University of Denver/Ohio State University (Emeritus)

Umit S. Ozkan
The Ohio State University

Derek Horton
The Ohio State University/American University

Sheldon G. Shore
The Ohio State University

NEW, FREE ACS VIDEO SERIES IS AVAILABLE
From the ACS Website

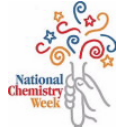


Inspire the Next Generation of Scientists During IYC!

A new ACS video series—aptly named *Spellbound*—tells the stories of eight chemists whose childhood curiosity about everyday things helped them launch careers in laboratories, win Nobel Prizes and make other notable achievements.

Free and available at www.acs.org/Spellbound, www.youtube.com/ACSVideoTheater, on iTunes and on DVD by request (m_bernstein@acs.org), the videos are suitable for classrooms and other audiences of scientists and non-scientists. Watch them, share them and encourage educators, museums, science centers, news organizations and others to embed links on their websites. *Spellbound* is a great way to celebrate IYC!

COLUMBUS SECTION ACS CALENDAR OF EVENTS

Year	Month	Date	Day	Location	Comments
2011	Aug-Sept	8/28-9/1	Sun-Thu	Denver	242 nd ACS National Meeting and Exposition
2011	September	14	Wed		Noon: Deadline for reservations for September, 2011 Section meeting.
2011	September	21	Wed	Ohio Dominican University	Monthly Section Meeting with Professor Frederick Villamena of The Ohio State University
2011	October	11	Tue	CAS	Monthly Section Meeting with ACS President-Elect Bassam Shakashiri
2011	October	16-22	Sun-Sat		 National Chemistry Week (NCW). Stay tuned for information on Columbus Section activities and volunteer opportunities!
2011	October	22	Sat	Columbus Metropolitan Library Main Branch, 96 South Grant Avenue	NCW chemistry demonstrations for children of all ages. Volunteers are needed; contact Professor John Blaha (Jblaha@csc.edu) for more information.
2012	March	25-29	Sun-Thu	San Diego	243 rd ACS National Meeting and Exposition
2012	August	19-23	Sun-Thu	Philadelphia	244 th ACS National Meeting and Exposition

PHOTOGRAPHS OF MAY, 2011 SECTION MEETING AND 2011 COSI FESTIVAL OF CHEMISTRY
By Steven Rosenthal, Immediate Past Chair



Dr. Yael Vodovotz, of the OSU Department of Food Science and Technology, gave a very interesting talk at the Section meeting.



May, 2011 Section meeting attendees enjoy the World-War I era French-farmhouse ambience of the 94th Aero Squadron.



Meeting attendees enjoy a tasty buffet at 94th Aero Squadron



A COSI Volunteer and Jeff Trent "chemonstrate" at the COSI Festival of Chemistry



Jeff Trent and a COSI Volunteer demonstrate Dry Ice Universal Indicator pH Color changes.



Maria Rosenthal prepares to entertain and educate at the COSI Festival of Chemistry.

WOMEN IN SCIENCE AND ENGINEERING (WISE) SYMPOSIUM TO BE CONDUCTED AT BATTELLE
“W2W – Women to Women – Connecting Global Science and Technology Leaders”
From www.battelle.org/conferences/wise



**Women to Women:
Connecting Global Science
& Technology Leaders**

PRESENTED BY

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The Business of Innovation

In support of our commitment to promoting both the diversity and readiness of the next generation of science and technology leaders, Battelle will host a "Women in Science and Engineering (WISE) Symposium" February 28 to March 1, 2012. The theme for this inaugural event is "W2W – Women to Women – Connecting Global Science and Technology Leaders". The symposium will showcase the successes of female leaders across a range of scientific and engineering fields, providing a forum for learning and networking through keynote speaker presentations, panel discussions, poster sessions, and social events. The agenda is best-suited for mid-career professionals who are extending their reach beyond traditional technical tracks and into leadership roles that encompass marketing, development, financial, and people management activities.

The event will be held in Columbus, OH. Accommodations and most agenda activities will be at the Blackwell Inn on the campus of The Ohio State University. A first night reception with tours will be held at the Battelle Corporate Headquarters. Please see the Preliminary Agenda for additional information. To be considered for the Agenda, please see the Panel/Poster Session tab for application instructions. The Panel/Poster Session Application Deadline is September 8, 2011. Registration information will be available at www.battelle.org/conferences/wise in September.

Inquiries about the Symposium may be addressed to BCOWISE@battelle.org.

ABOUT *THE CHEMICAL RECORD*

The Chemical Record, official newsletter of the Columbus Section of the American Chemical Society, Inc., is published monthly, February-May and September-December (eight issues per year.) Opinions expressed by editors or contributors do not necessarily represent the official position of the Columbus Section or of the editorial staff. We welcome your contributions to your *Chemical Record*. Please submit them via postal or electronic mail to **George Greene**, PO Box 360941, Columbus, Ohio 43236-0941, george.greene@abbott.com. Electronic mail contributions should be in MS Word file attachments (preferred) or plain-text messages. *Thank you very much!*

CHANGE OF ADDRESS

Changes in postal or e-mail address should be reported to the Membership Chair, **David Speth**, 614-688-5162, drspeth@sbcglobal.net. David will forward the change-of-address information to ACS Headquarters.

ADVERTISING RATES

Advertising rates for *The Chemical Record* are as follows (per single insertion): Full Page, \$250; Half page, \$150; Quarter Page, \$120; Eighth Page: \$60; Business Card, \$50. Discounts: 5% for four insertions or 10% for eight insertions during a calendar year. There is no charge for "help wanted" ads.

SECTION E-MAIL ROUTING

Please send items for distribution to the Section e-mail list to **Maria Rosenthal** (mrosentha@cas.org). Maria will perform any necessary formatting then she will forward the message to **Robert Bird**, Electronic Communications Coordinator, for distribution. If you would like to be added to the e-mail distribution list, please contact Robert Bird (rbird@cas.org).

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PARKING PERMIT FOR THE SEPTEMBER, 2011 SECTION MEETING

YOU MUST DISPLAY THIS PARKING PERMIT IN YOUR CAR WINDOW WHILE YOU ARE ATTENDING THE SECTION MEETING.



Special Event Parking

**AMERICAN CHEMICAL
SOCIETY**

**Wednesday, September 21st, 2011
Griffin Student Center**

Park in Gold lot (behind Alumni Hall)