

The Chemical Record

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Columbus Section of the American Chemical Society, Inc.

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ABOUT THE COLUMBUS SECTION



The Columbus Section of the American Chemical Society comprises approximately 1,500 members who live and work in the following central Ohio counties: Delaware, Fairfield, Fayette, Franklin, Hocking, Knox, Licking, Madison, Marion, Morrow, Muskingum, Perry, Pickaway, Ross, and Union.

The Mission of the American Chemical Society (ACS) is to encourage in the broadest and most liberal manner the advancement of the chemical enterprise and its practitioners. Toward that end, the ACS advances scholarly knowledge, provides professional services and support, communicates with varied audiences, and is actively involved in the science, education, and public policy arenas.

The Columbus Section of the ACS adheres to this mission and the strategic thrusts of the national organization and leadership by providing programs and networking opportunities for Chemistry professionals in Central Ohio.

We invite ACS members and scientists in the community to lend their expertise and talents to our activities in science education, government and legislative policy issues, safety in our industrial plants and in our communities, and care of our land.



ACS
Chemistry for Life®

MEETING NOTICE

Columbus Section of the American Chemical Society, Inc.

Meeting #858

columbus.sites.acs.org

Dr. Marinda Li Wu

2012 President-Elect, American Chemical Society

***Turning Challenges into Opportunities:
A Personal and Professional Journey into the 21st Century***

Wednesday October 17, 2012

Chemical Abstracts Service

2540 Olentangy River Road

Columbus, OH 43202

800-848-6538

www.cas.org

PROGRAM DETAILS

5:00 – 6:00 PM	Executive Committee Meeting – Battelle Room West (All members are welcome to attend.)
6:00 – 7:00 PM	Social Hour – Cafeteria (rear portion of the cafeteria) Appetizers and beverages
7:00 – 7:45 PM	Dinner – Cafeteria Salad and dinner rolls Entrée: your choice of Sautéed Chicken Piccata, Sautéed Tilapia with honey scallion dressing, or Eggplant Parmesan Sides: Roasted asparagus with parmesan and herb roasted red potatoes Dessert: Carrot cake and Dark Chocolate Turtle Cheesecake



7:45 – 8:45 PM	Program: Presentation to 50/60 Year ACS Members <i>Turning Challenges into Opportunities: A Personal and Professional Journey into the 21st Century</i> by Dr. Marinda Li Wu
Cost	\$10 per person members and non-members, \$10 for retired and unemployed members, \$5 per student. Payment will be collected at the door; cash and checks accepted. There is no cost to attend the program only. Remember that this is a dinner order and must be paid. Please help control costs by honoring your order.
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's website at columbus.sites.acs.org .
*Voicemail/e-mail Reservations Template	<ul style="list-style-type: none"> • First and last name: Please spell last name. • Membership category: member, non-member, retired, emeritus, unemployed, student. • Employer • Your choice of entrée: Chicken, Tilapia, or Eggplant Parmesan • 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, October 10th at noon
Program Contact	Natalie Chilicki , 614-961-0452; natalie.chilicki@yahoo.com
Directions & Parking	<p>From the North If on I-71 South exit onto 270 West to 315 South (once on the exit ramp, stay in the left lane to go South); take 315 South to the Ackerman Road exit; turn left; stay on Ackerman Road until you cross the Olentangy River Road intersection; CAS is immediately on the right. – or – If on 23 South take I-270 West to 315 South (once on the exit ramp stay in the left lane to go South). Go South until you reach the Ackerman Road exit, turn left; stay on Ackerman Road until you cross the Olentangy River Road intersection; CAS is immediately on the right.</p> <p>From the East Go West on I-70 until you reach 315 North; Take 315 North to the Ackerman Road exit; turn right onto Ackerman Road and continue until you cross the Olentangy River Road intersection; CAS is immediately on the right.</p> <p>From the West Go East on I-70 until you reach 315 North; Take 315 North to the Ackerman exit; turn right onto Ackerman Road; continue until you cross the Olentangy River Road intersection; CAS is immediately on the right.</p> <p>From the South Take I-71 North to 315 North; continue on 315 North until you reach the Ackerman Road exit; turn right onto Ackerman Road; continue until you cross the Olentangy River Road intersection; CAS is immediately on the right. – or – If on Route 33, take I-70 West; exit onto 315 North; continue on 315 North until you reach the Ackerman Road exit; turn right onto Ackerman Road; continue until you cross the Olentangy River Road intersection; CAS is immediately on the right.</p> <p>Parking is free</p>

ABOUT THE TALK:

TURNING CHALLENGES INTO OPPORTUNITIES: A PERSONAL AND PROFESSIONAL JOURNEY INTO THE 21ST CENTURY

Due to the Korean War, I was born in Pasadena, California instead of Beijing, China. Growing up in a traditional academic Chinese family influenced my life direction. I was the first in my family to venture into industry by joining Dow Chemical after earning my chemistry Ph.D. from the University of Illinois at age 25.

I once dreamed of becoming a scientist or ambassador. Today as President-Elect of the American Chemical Society, I am an "ambassador" advocating for science and education. Challenges as an Asian American woman strengthened my leadership skills. In ACS governance, I began in 1994 as Chair of our local ACS California Section Women Chemists Committee and then served in various leadership roles before getting elected to the ACS Board in 2006 and then ACS President-Elect in 2011.

I share my story of *turning challenges into opportunities* and how destiny and determination impacted where I am today. I am greatly honored to be elected as the first Asian and only 8th woman President of the American Chemical Society in its 136 year history. The ACS is the largest scientific society in the world with over 164,000 members worldwide. I will offer a few thoughts on leadership as well as share my ACS Presidential initiatives for 2013.

ABOUT THE SPEAKER:

DR. MARINDA LI WU

Dr. Marinda Li Wu received a B.S. *cum laude with Distinction in Chemistry* from the Ohio State University in 1971 and a Ph.D. in Inorganic Chemistry from the University of Illinois in 1976. With over thirty years of experience working in the chemical industry, she enjoyed many years working for Dow Chemical R&D as well as Dow Plastics Marketing forging partnerships between industry, education, government and communities. Dr. Wu also has entrepreneurial experience with various small chemical companies and startups including "*Science is Fun!*" which she founded to engage young students in the excitement of science and enhance public awareness of the importance of supporting and improving science education.

As an ACS member for over forty years, Dr. Wu has served in many leadership roles at both the local and national levels for the American Chemical Society. Dr. Wu was elected to the ACS Board of Directors and has served as Director-at-Large since 2006 before getting elected as ACS President-Elect for 2012.



AVAILABLE NOW: NEW GUIDELINES AND RECOMMENDATIONS FOR TEACHING HIGH SCHOOL CHEMISTRY

FROM THE ACS WEBSITE, WWW.ACS.ORG

Featuring strategies and considerations for teaching high school chemistry in the 21st century to all students, the new ACS Guidelines and Recommendations for Teaching High School Chemistry are a useful resource for strengthening high school chemistry programs. This timely and comprehensive document provides guidance on the classroom and laboratory environments, safety, the big ideas in chemistry, strategies and technologies for teaching diverse learners, the professional responsibilities of chemistry teachers, and more.



COLUMBUS SECTION CELEBRATES FIFTY AND SIXTY-YEAR ACS MEMBERS
By Wendy Reichenbach

At the October Section meeting, American Chemical Society President-Elect **Dr. Marinda Li Wu** will join the Columbus Section in recognizing the following persons who have been members of ACS for more than fifty years:

Fifty-Year Honorees		Sixty-Year Honorees
Robert Lee Arnold Edward Joseph Behrman James Bernard Casey, Jr David L. Dalrymple William V. Lucas Rolando U. Pagilagan	Russell M. Pitzer Max E. Rhoades Virginia Songstad John Stephen Swenton Francesco Vigo	Robert S. Brodkey W. James Harper James D. Idol Herbert Norris Johnston William E. McIntyre, Jr. Albert E. Weller, Jr.

Please join us in congratulating these individuals on this significant achievement and thanking them for their many years of dedication to ACS.

NATIONAL CHEMISTRY WEEK, OCTOBER 21-27, 2012
NANOTECHNOLOGY: THE SMALLEST BIG IDEA IN SCIENCE
A Terrific Opportunity to Interact with Youth and Have Fun in the Process!



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.



This year celebrates 25 Years of National Chemistry Week! The American Chemical Society has partnered with the Nanoscience Informal Science Education Network (NISE Network™). View resources devoted to nanoscience outreach and this year's theme "Nanotechnology – The Smallest BIG Idea in Science" as well as connect with a NISE Network™ partner near you!

Your Columbus Section will be partnering with COSI on Wheels for NCW. **Volunteers are DESPERATELY 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 27, 2012.** 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@cscce.edu to obtain more details or to volunteer to assist with this extremely important ACS educational outreach activity.

WELCOME NEW MEMBERS!

BY DAVID SPETH, CHAIR-ELECT AND MEMBERSHIP CHAIR

Please join us in welcoming the following members who have joined the Section recently: The Columbus Section cordially invites new members to our monthly meetings. The Section will pay for new members' meals the first time they attend a meeting.

Huang Chia Chang
William Coldren
James Essinger
Adam Fulmer
GaiWai Guan

Melinda Guzman-Harty
Andi Hardman
Youngsoon Kim
Jae Chul Lee
Andrew Long
Ryan McKenney

David Nickerson
Danile Strohecker
Paul Swinger
Dominique Verreault
Joseph Voyles

HIGHLIGHTS OF THE 244TH AMERICAN CHEMICAL SOCIETY NATIONAL MEETING, AUGUST 19-23, 2012

BY VIRGINIA SONGSTAD, DON SONGSTAD, AND ED KING

The ACS Vision: "Improving people's lives through the transforming power of chemistry".

Following are some topics addressed at the Meeting that ACS local Councilor **Virginia Songstad** (songstadva@aol.com), and Alternate Councilors **Ed King** and **Don Songstad** attended. They are lifted from talking points provided to Councilors from the ACS Secretary.

Meeting Registration Report

As of close of business August 22, 2012, the ACS fall national meeting had attracted 13,320 registrants, including 7,817 regular attendees and 3,177 students.

Candidates for President-Elect, 2013

The candidates for the fall 2012 ACS national election were announced:

- **Dr. Thomas J. Barton**, Distinguished Professor, Iowa State Univ., Ames, IA
- **Dr. Luis A. Echegoyen**, Robert A. Welch Professor, Univ. of Texas at El Paso, TX

Committee Review

As part of a regular performance review, the Council VOTED to continue the Joint Board-Council Committees on Chemists with Disabilities and on Professional Training. Continuation of these two committees also requires Board of Directors concurrence.

New Committee Supported

The Council VOTED to establish a Joint Board-Council Committee on Senior Chemists whose mission is to enrich the educational, technical, and cultural lives of the ACS Membership by ministering to and employing the talents of senior ACS members by: sharing with ACS members of all ages a rich variety of personal experiences and expertise gained over many years of professional service; fostering interest and participation in the science of chemistry through community outreach, especially in grades K-12; acting as science advisors/ambassadors for the purpose of cultural exchange at home and abroad; providing senior ACS members with challenging, diverse, and enjoyable professional experiences that enable them to contribute to the cultural experiences of their communities; and recommending policies that address issues of interest to senior chemists. The committee is aimed primarily at members over 60 years of age. Next, the Board of Directors must vote on whether to establish the committee.

Membership Activity

One of the Society's long-time concerns has been the decline in the number of domestic Regular Members, that is, members paying full dues. The impact of this decline has been offset, as we have reached record membership levels, by increases in the number of international Regular Members, and the 2009 addition of Student Member Undergraduates. While the number of regular domestic members paying less than full dues has decreased from 33,000 to 29,000 in the last five years, this is still significantly more than the number of student members added.

The Committee on Economic and Professional Affairs (CEPA) has unveiled six new four-hour workshops, as the ACS Career Pathways series. CEPA trained more than 40 volunteer facilitators and the workshops are now available for regional meetings and local sections.

Special Discussion Item

ACS President **Bassam Shkhashiri** presented and moderated a discussion on "What major efforts should ACS pursue to help alleviate water and other global challenges?" Members of the ACS feel a responsibility as scientists and citizens to help address global challenges facing society in the 21st Century to help sustain Earth and its people. These challenges include increasing population growth, limited natural resources, malnutrition, disease, climate change, violence and war, and the denial of basic human rights, including the right to benefit from scientific and technological progress. This discussion focused primarily on the crisis of available water suitable for drinking, agriculture and industry....

ACTIONS OF THE BOARD OF DIRECTORS

The Board VOTED to approve Society nominations for the Perkin Medal and the National Science Board Public Service Award. The Perkin Medal is the highest honor in American industrial chemistry, and the National Science Board Public Service Award honors individuals and groups that have made substantial contributions increasing public understanding of science and engineering in the US.

The Board VOTED to approve an advance member registration fee of \$370 for national meetings held in 2013. The Board also considered program funding requests, and VOTED to reauthorize funding for inclusion in the 2013 proposed budget the ACS Science Coaches program and the ACS Global Research Experiences, Exchanges, and Training Program (GREET).

The Board VOTED that an in-depth review of the expectations for the financial goals for National Meetings be performed, and that a financial plan for the long-term viability of the ACS Presentations on Demand program (formerly known as Electronic Dissemination of Meeting Content) be developed and shared at the 2013 spring meeting.

The Executive Director/CEO Report

The Executive Director/CEO and her direct reports updated the Board on the following: security threats faced by the Society's information technology systems and the measures in place to protect against them; a recommendation from the 2011 Financial Planning Conference that ACS identify additional revenue sources; and the activities of CAS (Chemical Abstracts Service), the ACS Publications Division, and the Society's General Counsel....

Strategic Assessment of ACS Information Services Divisions

The Board requested that the ACS Executive Director and Chief Executive Officer carry out a strategic assessment of the ACS Information Services Divisions. As a practical matter, these studies have been conducted approximately every three years to ensure that our information services divisions, CAS and ACS Publications are fulfilling ACS's strategic goals. The study was conducted over a period of nine months, with the ACS Board of Directors and the Governing Board for Publishing discussing the study at key milestones along the way. The study affirmed the robust operating performance of CAS and ACS Publications, from both mission and financial viewpoints. It commended the increasing collaboration between the divisions and their global presence, and identified areas of synergy where additional opportunities for innovation and growth should be explored.

Presidential Symposia at Philadelphia

ACS President **Bassam Z. Shkhashiri** hosted several well attended symposia under the presidential theme, "Advancing Chemistry and Communicating Chemistry": a plenary lecture on "Chemistry and Climate Change" delivered by Nobel Laureate **Mario Molina**; the 25th anniversary of National Chemistry Week; "Communicating Controversial Science" honoring **Rudy Baum** on the occasion of his retirement as Editor-in-Chief of C&EN; and "150 Years of Chemistry at Land Grant Institutions: The Past as a Prelude to the Future," honoring the sesquicentennial of the Morrill Land Grant Act.

Other Society Business

The Board welcomed and received reports from international guests representing the Canadian Society for Chemistry, the German Chemical Society, the Chemical Society of Japan, and the Royal Society of Chemistry.

The Board held a well-attended open session which featured a special forum titled "What are the 'real world' ethics issues faced by students and practitioners of chemistry?" Members attending this standing-room only session offered personal observations about ethical issues they have observed or been challenged by and possible options to address them.

The 25th anniversary of National Chemistry Week will be celebrated October 21-27 with the theme, "Nanotechnology – The Smallest BIG Idea in Science!" All local sections are encouraged to participate in NCW and plan an event that will recognize their coordinators.

The 10th anniversary of Chemists Celebrate Earth Day will be celebrated in 2013. All local sections are encouraged to participate.



TOO BUSY TO TRAVEL FOR TRAINING?
FROM THE ACS WEBSITE, [WWW.ACS.ORG](http://www.acs.org)

You have more work and responsibility in the lab than ever before. You need training, help in improving processes but it seems impossible to leave work behind for a couple of days. We understand and we have solutions.

Online Courses

Online courses are live, instructor-led courses that meet online over a period of weeks. With small class sizes and expert instruction, ACS Webcasts give you the opportunity to address your unique challenges and learn at your pace.

If you miss a live session, it's okay. Each course will be available to you after the initial session.


Many Online Courses are starting the week of **October 22**, visit our [website](#) to find the best course for you!

OnDemand Courses

Pick and choose the modules you need and take them when you want. OnDemand courses are a great option for those who need complete flexibility at an affordable price. Each course is broken into one or more modules that you can purchase individually at a very low cost. You have access to the module 24 hours a day, for one week, and the ability to contact the instructor with questions.

Learn more about training courses from ACS on our [website](#).

COLUMBUS SECTION ACS CALENDAR OF EVENTS

Year	Month	Date	Day	Location	Comments
2012	October	10	Wed		Noon: Deadline for reservations for September, 2012 Section meeting.
2012	October	17	Wed	Chemical Abstracts Service	Monthly Section Meeting; see details elsewhere in this issue of <i>The Chemical Record</i> .
2012	October	21-27	Sun-Sat	Here, There, Everywhere	 National Chemistry Week (NCW). See information elsewhere in this issue of <i>The Chemical Record</i> .
2012	October	27	Sat	Columbus Metropolitan Library Main Branch, 96 South Grant Avenue	10:00 AM – 3:00 PM: NCW chemistry demonstrations for children of all ages. Volunteers are needed; contact Professor John Blaha (Jblaha@cscce.edu) for more information.
2013	March	17-21	Sun-Thu	Pennsylvania Convention Center, Philadelphia	PITTCON™ Conference and Expo, the world's largest annual premier conference and exposition on laboratory science.
2013	May	15-18	Wed-Sat	Central Michigan University, Mt. Pleasant	44 th ACS Central Regional Meeting: <i>Building Blocks for a Sustainable World</i> . See http://2013.cerm.sites.acs.org for more details.
2013	April	7-11	Sun-Thu	New Orleans	245 th ACS National Meeting and Exposition
2013	September	8-12	Sun-Thu	Indianapolis	246 th ACS National Meeting and Exposition
2014	March	16-20	Sun-Thu	Dallas	247 th ACS National Meeting and Exposition
2014	August	10-14	Sun-Thu	San Francisco	248 th ACS National Meeting and Exposition



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.

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