

The Chemical Record

Volume 58 — Number 7 — November, 2016

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.



MEETING NOTICE

Columbus Section of the American Chemical Society, Inc.

columbus.sites.acs.org

Meeting #885

*Tour of Koffolt Laboratories at The Ohio State University
followed by buffet dinner and lecture
"Energy, Environment, and Catalysis"*

Dr. Umit Ozkan

The Ohio State University
Professor of Chemical Engineering

Thursday December 1, 2016

5:45 – 8:15 pm

William G. Lowrie Department Of Chemical and Biomolecular Engineering
151 West Woodruff Avenue
Columbus Ohio 43210

PROGRAM DETAILS

5:45 – 6:00 PM	Meet and Greet – Room 110, Refreshments (soft drinks and snacks)
6:00 – 6:30 PM	Tour of Koffolt Laboratory – Conducted by Dr. David Wood
6:30 – 7:15 PM	City Barbeque Dinner Buffet <ul style="list-style-type: none">• Meats: Pulled Pork and Smoked Turkey• Sides: Mac & Cheese, Sweet Vinegar Slaw, Green Beans/Bacon• Beverages: Soft Drinks, Iced Tea, Lemonade



7:15 – 8:15 PM Program	Lecture by Dr. Umit Ozkan: “Energy, Environment, and Catalysis,” Room 120
Cost	Dinner costs \$15 (cash or check to AIChE). Payment will be collected at the door; cash and checks accepted. There is no cost to attend the tour and lecture only. <i>Remember that this is a dinner order and must be paid. Please help control costs by honoring your order.</i>
RSVP	Please send an e-mail to Larry Latta at latta1013@aol.com . You may also call 614-203-8737. Follow the template below for e-mail or voicemail reservations.
*Voicemail/e-mail Reservations Template	<ul style="list-style-type: none"> • First and last name: Please spell last name. • Employer • Please indicate if you will join us for <u>Dinner & Program</u> OR <u>Program Only</u> • Your phone number, in case we need to contact you.
Reservation Deadline	Monday, November 28, 2016 at 5:00 pm
Program Contact	Jeff Trent, 614-397-7231; jtrent@west-ward.com
Directions & Parking	<p>Parking is not free. The cost for 4 hours is \$10.50 before 6:00 p.m. and \$7.00 after 6:00 p.m. If you arrive after 6:00, parking is available at:</p> <ul style="list-style-type: none"> • Tuttle Garage – 2050 Tuttle Park Place • Lane Avenue Garage – 2105 Neil Avenue • Arps Hall Garage – 1990 College Road (closest to the Chemistry Building) <p>The CBEC Building is the large stainless steel and glass building between 19th and Woodruff Ave. From the North Take Ohio 315 South to the Lane Avenue exit. Go east on Lane Avenue to either Tuttle Park Place or Neil Avenue. To reach the Arps Hall Garage, take Lane Avenue to High Street. Turn right onto High and then right onto 17th Avenue. The first right is College Road. The Arps Hall garage is the garage that is closest to the CBEC Building.</p> <p>From the East Take I-670 west to Ohio 315. Take 315 North to the Lane Avenue exit. Go east on Lane Avenue to Tuttle Park Place or Neil Avenue.</p> <p>From the West Take I-670 East to Ohio 315. Take 315 North to the Lane Avenue exit. Go east on Lane Avenue to Tuttle Park Place or Neil Avenue.</p> <p>From the South Take Ohio 315 North to the Lane Avenue exit. Go east on Lane Avenue to Tuttle Park Place or Neil Avenue.</p> <p>The CBEC Building is approximately 4 blocks east of the Tuttle Garage between 19th and Woodruff Ave. It is approximately 3 blocks south of the Lane Avenue Garage. The Arps Hall Garage is about 3 blocks east of the Chemistry Department. For maps and further information please use the link below.</p> <p>http://osu.campusparc.com/home/visitors-patients/visitor-parking/garage-parking (expand the Academic Core North section)</p> <p>Pay-on-Foot Machines Most visitor garages are equipped with pay-on-foot machines. Customers receive a white entry ticket and keep it with them to make payment prior to returning to their vehicle, reducing backups at the exit gate. Once payment is made, customers receive a returned paid/validated ticket for use at the exit gate. Pay-</p>



on-foot machines accept cash, credit and vouchers.

NOTE: Cash is not accepted at the exit gate.

Pay-in-Lane Machines

In garages that are not equipped with pay-on-foot machines, payment is made at the exit gate. Upon arrival at the exit gate, the customer should insert the white entry ticket into the pay-in-lane machine and pay the displayed amount due. Pay-in-lane machines accept cash, credit and vouchers. Credit cards are the preferred method of payment to expedite exit.

NOTE: Pay-in-lane machines give change in coin only.

ABOUT THE TALK:

ENERGY, ENVIRONMENT AND CATALYSIS

From future-focused research in energy, advanced materials, and polymers, to bioengineering, cancer research, and drug delivery, some of the world's greatest challenges will be solved here. Koffolt Laboratories, located in the 225,000 sq. ft. CBEC (Chemical and Biomolecular Engineering and Chemistry) building, offers state-of-the-art laboratory and classroom space and supports collaborative learning and intensive research.

The CBEC Building promotes an innovative, interdisciplinary research environment that accelerates the discovery process, giving Ohio State the edge to play a dynamic leadership role in important scientific advancements. The first LEED-certified laboratory building on campus, CBEC is designed to cultivate interaction, collaboration and discovery. This space enhances creativity among teams and supports and expands partnerships already happening between two premier departments.

Umit Ozkan

Umit Ozkan, Ph.D., is a Distinguished Professor of Chemical Engineering at The Ohio State University. She received her Ph.D. from Iowa State University in 1984 and joined the faculty of The Ohio State University in 1985. During the 1994-95 academic year, she spent her sabbatical leave at the Centre de la Recherche Nationale Scientifique (C.N.R.S.) – Catalysis Research Institute in Lyon, France as an Invited Senior Research Scientist. Between 2000 and 2005, she also served as the Associate Dean for Research in the College of Engineering.

Dr. Ozkan's research interests are in the general areas of heterogeneous catalysis and electrocatalysis. Her aim is to acquire a fundamental understanding of the nature of active sites on catalyst surfaces and catalytic reaction pathways and thereby ultimately to be able to design catalysts with the desired molecular architecture for specific reactions. The reactions her research group works on are related to energy, environmental protection, and alternative processes for chemical manufacturing.

Her recent projects focusing on the environment include catalytic treatment of water contaminated with halogenated hydrocarbons and aromatics, emission control from stationary combustion sources and reforming of VOCs emitted from industrial processes. Projects that involve electrocatalysis are related to electrocatalytically-assisted oxidative dehydrogenation of lower alkanes, high-temperature electrocatalytic ammonia production, and high-temperature electrolysis of CO₂ and H₂O for syngas production. Her group has also been very active in developing non-precious metal electrocatalysts for PEM and methanol fuel cells, with the main effort focusing on identifying the active sites and elucidating the reaction mechanisms involved in oxygen reduction and oxygen evolution reactions.

Dr. Ozkan has edited five books, has written over 200 refereed publications and book chapters, given over 250 conference presentations and over 125 invited lectures in 20 different countries. She has six patents. Professor Ozkan has held and continues to hold many leadership positions in several professional organizations and is the recipient of many honors and awards.



She is on the Editorial Boards of *Catalysis Today*, *Journal of Molecular Catalysis*, *Catalysis Letters*, *Topics in Catalysis*, *The Royal Society of Chemistry*, *Catalysis Book Series*, *Applied Catalysis B*, *Catalysis Reviews*, and *ACS Catalysis*. Dr. Ozkan is a Professional Engineer registered in Ohio. She is a fellow of the American Association for the Advancement of Science (AAS), American Institute of Chemical Engineers (AIChE), and American Chemical Society (ACS).

Dr. Ozkan has advised and mentored over 100 graduate students, post-doctoral researchers and honors students.

SPRING 2017, 253RD ACS NATIONAL MEETING AND EXPOSITION
APRIL 2-6, 2017
SAN FRANCISCO, CA



21ST ANNUAL GREEN CHEMISTRY & ENGINEERING CONFERENCE
JUNE 13-15, 2017

Join us in 2017 at the must-attend event for green chemists and engineers. The 21st Annual Green Chemistry & Engineering Conference (GC&E), hosted by the ACS Green Chemistry Institute®, will be held in Reston, Virginia on June 13-15, 2017. GC&E provides an opportunity for a diverse network of over 500 academic, industrial and government stakeholders to network and learn about the newest ideas in sustainable approaches to chemistry, chemicals, processes and products. Featuring over 30 technical sessions, a robust poster session, keynote lectures, workshops, social events and a Green Expo, GC&E is the premiere forum for sustainable and green chemistry and engineering.

The overarching theme of the conference in 2017 will be "Making Our Way to a Sustainable Tomorrow." The conference invites scientists and leaders from all sectors to come together to address critical topics such as the design of sustainable chemicals, flexible chemical manufacturing, more efficient processes, green chemistry curricula, circular economy considerations, sustainable materials, academic-industry collaborations, chemicals policy and more.

UPCOMING ACS WEBINARS
FROM THE ACS WEBSITE

Sustainable Bioenergy Systems: Unlocking the Power of Renewable Plant Biomass

Thursday, December 1, 2016 @ 2-3pm ET

Bruce Dale of Michigan State University shares how we can create systems to that can work together to create more while using less.



2017 Global Outlook: Chemistry and the Economy

Thursday, December 8, 2016 @ 2-3pm ET

Paul Hodges and Bill Carroll are returning to give his expert perspective on how major governments view trade in 2017 with the results U.S. Election and the impending Brexit.



TERA-print: From Academic Discovery to A Commercial Desktop Fab

Thursday, December 15, 2016 @ 2-3pm ET

Chad Mirkin discusses point-of-use, large-area desktop nanofabrication, which open up the field of nanocombinatorics and a new and powerful approach to materials discovery.



Why Attend ACS Webinars®?

FAST – Get right to the heart of addressing issues important to you in 60-minutes.

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EASY – Online access is all you need. Register, then click the link in your email confirmation, and you're in!

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All recordings of ACS Webinars® are available as a benefit to current ACS members. Live weekly ACS Webinars® continue to be available to the general public.

Editor's Note: For more details about the webinars described above, please visit <https://www.acs.org/content/acs/en/acs-webinars.html>

UPCOMING ACS SHORT COURSES
FROM THE ACS WEBSITE



Upcoming Courses in Houston, TX

December 5 – 9, 2016

American Chemical Society will be holding Short Courses in Houston, TX on December 5 – 9, 2016 to help you gain invaluable training in just a few days. Short Courses from the ACS give you the tools to stay on top of new technology, growing trends in the science industry and basic skills you need to advance in your career. [See all courses »](#)



Upcoming Courses in New Orleans, LA

January 31 – February 2, 2017

American Chemical Society will be holding Short Courses in New Orleans, LA on January 31 – February 2, 2017 to help you gain invaluable training in just a few days. Short Courses from the ACS give you the tools to stay on top of new technology, growing trends in the science industry and basic skills you need to advance in your career. [See all courses »](#)

Editor's Note: For more details about the short courses described above, visit www.proed.acs.org/.

FROM CHEMICAL & ENGINEERING NEWS NOVEMBER 21, 2016 *EPA REAFFIRMS PLAN TO BAN CHLORPYRIFOS ON FOOD*

EPA is one step closer to banning all U.S. uses of chlorpyrifos on food after formally taking a second look at the health risks associated with the organophosphate insecticide. The agency initially proposed to revoke all food tolerances for chlorpyrifos last year, citing neurotoxicity concerns. But because of pushback from farmers and the pesticide's maker, Dow AgroSciences, EPA reexamined toxicity data for the chemical. After releasing its revised human health risk assessment for chlorpyrifos on Nov. 10, EPA again proposed to revoke all food tolerances. The agency says combined exposure to chlorpyrifos through food and drinking water in the U.S. is expected to exceed EPA's safety standard.

Dow AgroSciences strongly disagrees with EPA's conclusion. EPA's assessment is not "based on valid, complete, and reliable scientific data," says Phil Jost, a marketing leader for U.S. insecticides at Dow AgroSciences. Jost also says EPA failed to follow its policies for public access to data. Dow AgroSciences claims that chlorpyrifos is safely used on more than 50 different crops in the U.S. For many pests, there are no viable alternatives, the company says.

EPA is under a court-ordered deadline to make a final determination on chlorpyrifos by March 31, 2017. The order came after EPA failed to respond to a 2007 petition from environmental groups urging EPA to ban chlorpyrifos. The groups argue that the pesticide is linked to neurodevelopmental risks in children.

THE COLUMBUS SECTION HONORED 50 AND 60-YEAR MEMBERS
By Wendy Audrey Reichenbach

The Columbus Section honored 20 members for their fifty- or sixty-year membership in ACS at its meeting on October 19th at CAS. The following members were recognized by ACS President-Elect Dr. Allison Campbell and Columbus Section Chair Jeffrey Trent:

Fifty Years of Membership in ACS

Dr. Anson Andrist
Dr. Robert Dana
Mr. Richard Freeland
Dr. Jerry Jenkins
Dr. David Lenz
Mr. Carl Merhar

Recognized, but unable to attend:

Dr. James Brannan
Dr. Arthur Guterl
Mr. Roger Moody
Dr. Joseph Prusaczyk
Ms. Margaret Steffel
Dr. George Stey
Ms. Diane Yoder

Sixty Years of Membership in ACS

Dr. Anthony Petrarca
Ms. Barbara Ruppel
Dr. Andrew Wojcicki

Recognized, but unable to attend:

Dr. Ilmar Kalnin
Dr. Stephen Molnar
Dr. William Nutter
Mr. Francis Sliemers



Left to right in the picture: Columbus Section Chair Mr. Jeffrey Trent, ACS President-Elect Dr. Allison Campbell, Dr. Andrew Wojcicki, Dr. Harry Andrist, Dr. Robert Dana, Mr. Richard Freeland, Dr. Jerry Jenkins, Dr. David Lenz, Mr. Carl Merhar, Dr. Anthony Petrarca, Ms. Barbara Ruppel.

DR. ANSON ANDRIST (50-YEAR MEMBER)

Dr. Anson Harry Andrist served as Professor of Chemistry and Vice Provost for Research and Dean of the Graduate College at Cleveland State University until his retirement in 1999. He currently serves as Senior Advisor for Research and Commercialization at the Ohio Department of Higher Education.

DR. DAVID LENZ (50-YEAR MEMBER)

Dr. David Lenz earned his Ph.D. in chemistry from Boston University and did a subsequent postdoc in protein physical chemistry at Georgetown University. After this, he joined the US Army Medical Research Institute of Chemical Defense at Aberdeen Proving Ground, MD in 1969. His research throughout his career was in the development of antidotes for protection against chemical warfare poisoning with emphasis on therapy against nerve agent poisoning. He was appointed Chief of the Biochemical Pharmacology Branch in 1989. He served as Chairman of the NATO Task Group on Prophylaxis and Therapy of Chemical Agents from 2000 to 2005 and on a National Academy of Science Expert Committee on Animal Models for Testing Interventions Against Aerosolized Bioterrorism Agents from 2005 - 2006. He is the author or co-author of over 90 peer-reviewed publications and book chapters and holds 6 patents.

DR. ANTHONY PETRARCA (60-YEAR MEMBER)

Dr. Anthony Petrarca joined the ACS in 1956 while he was a Ph.D. Student in Chemistry at the University of New Hampshire in Durham, NH. Upon completion of his PhD in June 1959, he became an Assistant Professor of Chemistry at Seton Hall University in South Orange, NJ where he helped develop a Ph.D. program in Chemistry. In June 1964, with a growing family, pursuit of a higher paying job led him to employment in the Research Department at Chemical Abstracts Service in Columbus, Ohio where he worked on the development of the CAS Computerized Chemical Information System. In July 1968, academic pursuits beckoned once again with the formation of a Computer & Information Science (CIS) Department at The Ohio State University. As a faculty member of that department, he helped in the development of undergraduate and graduate CIS programs in the Colleges of Arts & Science, Business, and Engineering. Since his research area was in data base systems and information systems (including Chemical Information Systems) he maintained his membership in the ACS with activity in the Divisions of Chemical Information and Computers in Chemistry. The Department of Computer & Information Science at OSU subsequently became the Department of Computer Science and Engineering, from which he retired in 1992. In 2006, he was honored as a 50-year Member of the ACS, and now in 2016 as a 60-year Member.

DR. ANDREW WOJCICKI (60-YEAR MEMBER)

Dr. Andrew Wojcicki was born in Poland. He left Poland with his mother and brother in 1948, going to Sweden for a year before arriving in the U.S. He was accepted at Brown University, where two excellent and inspiring student-focused chemistry professors helped him select an area of specialization within his chemistry major. He chose to go to Northwestern for graduate school and work with Professor Fred Basolo, later an ACS President, as his preceptor. His studies concerned mechanistic investigations of reactions of metal complexes containing carbon monoxide, known as metal carbonyls. On Prof. Basolo's advice (not because of Robin Hood!), he continued studies at Nottingham University in England to develop skills in synthesis dealing with non-aqueous solvents and reagents (N₂O₄). An assistant professorship at Ohio State followed. He had a memorable career as a researcher and teacher, for which he received the OSU Alumni Award for Distinguished Teaching (1968). He has held a number of visiting appointments, including a Guggenheim Fellowship at the Max-Planck Institute in Germany; University of Bologna, Italy; University of Wroclaw, Poland; National Science Council of Taiwan; and University of Sydney, Australia. By retirement he had graduated 23 M.S. degree students and 34 Ph.D. recipients and published more than 200 papers. Working with young people, the excitement of doing chemistry not done before, the satisfaction of interaction with chemists here and abroad was professionally and personally rewarding.

HIGHLIGHTS OF THE 252ND AMERICAN CHEMICAL SOCIETY NATIONAL MEETING

By Ed King, Virginia Songstad and Joan Esson

American Chemical Society—252nd ACS National Meeting—Philadelphia, Pennsylvania—August 21-25, 2016
Theme: Chemistry of the people, by the people, for the people

Following are some topics addressed at this Meeting that ACS Columbus Councilors **Ed King, Virginia Songstad, and Joan Esson** (jesson@otterbein.edu) attended. Any questions about this report, which is modified from the *Councilor Talking Points*, can be addressed to Joan Esson.

Meeting Attendance:

The ACS fall national meeting had attracted approximately 13,000 registrants.

Actions of the Council

The ACS Council met on August 24th and considered several proposals brought forth by various ACS Committees. The Council voted to approve the continuation of the Committee on Analytical Reagents and the Committee on Chemical Abstracts Service. Additionally, the Council approved a petition to amend the ACS Bylaws to extend the Unemployed Members' Dues Waiver from two to three years. Further action included approval of the *Chemical Professional's Code of Conduct*, and the *Charter Bylaws for New Local Sections*. The Council also approved the establishment of new ACS International Chemical Sciences Chapters in Greater Beijing, Southwestern China, and Iraq. All of these actions are subject to confirmation by the Board of Directors.

Council Special Discussion

The Council conducted a special discussion on the proposed recommendations from the ACS Presidential Task Force on the U.S. Employment of Chemists. The task force has been examining influences that impact employment in the chemical sciences. Councilors were invited to share their thoughts and comments on the proposed suggestions in preparation for the report's expected release later this year.

Highlights from Committee Reports

The Budget and Finance Committee reported that the Society's 2016 Probable 1 Budget calls for \$17.3 million net from operations, which is \$3.9 million higher than the approved budget but only \$723,000 higher than 2015. Total revenues are projected to be \$528.8 million, which is essentially on budget and 3.3% higher than the prior year. Total expenses are projected at \$511.5 million, which is 0.6% favorable to budget and 3.3% higher than 2015. The Committee also approved several program funding requests for 2017, including that for the Atlantic Basin Conference on Chemistry, the ChemIDP Program, and the International Student Chapter Program.

The Committee on Nominations and Elections solicits input of qualified individuals for President-Elect and/or Directions for future consideration. Suggestions may be sent to nomelect@acs.org. This committee has also established the Vote 20/20 Task Force, which is examining aspects of nominations and elections for ACS national offices in order to design an enhanced process to be in place by the year 2020. Suggestions from members about how to handle nominations and elections are welcome and should be sent to vote2020@acs.org.

Board Actions

The ACS Board of Directors voted to approve the Society's nominees for the 2017 Perkin Medal, the 2017 National Science Board Public Serve Award, and the 2017 Alan T. Waterman Award. They also approved the reappointment of editors-in-chief for two ACS journals, and the advance member registration fee of \$445 for national meetings held in 2017.

The Board is seeking ways to engage ACS stakeholders to identify opportunities and issues for governance improvement that will enable ACS to advance its mission in a streamlined and simplified manner. The Board and the Council Policy Committee are creating a new task

force that will look at the Society's future governance needs. Per the Board's discussion, the chair's report to Council provided additional details on a proposed Society-wide initiative to ensure an agile, efficient, and effective ACS. Additionally, the Board is considering proposed changes to certain Board committee duties and roles.

Board Discussions

The Board discussed the history, role, and contributions of its Standing Committee on Corporation Associates, and the responsibility of ACS to effectively capture the needs of industrial members and their corporations. The Board also heard and discussed reports from several entities. The presidents of Chemical Abstracts Service and the ACS Publications Division shared details on their financial performance and editorial and new product development highlights. Executive Director and CEO Tom Connelly and his direct reports updated the Board on issues relating to Human Resources, ACS Finances, and Education. The Board of Directors also received and discussed reports from the Governance Agility Task Force, the Committee on Grants and Awards, the Committee on Planning, the Society Committee on Budget and Finance, and the ACS Governing Board for Publishing. Lastly, the Board heard reports from members of the Presidential Succession on their key priorities and activities as they relate to those of the Board and for the purposes of coordinating their ongoing activities on behalf of the Society.

Board's Regular Session

The Board held a well-attended regular session which featured a discussion on ACS National Meetings of the Future. Board Chair Pat Confalone opened the discussion by noting ACS National Meetings are a key way that ACS fulfills its obligation to deliver scientific information. Although the National Meetings are successful, they are looking for ways to improve and to anticipate what members' future needs will be.

Additional Information

The following is a list of URLs and email addresses of potential interest:

Donna J. Nelson, President – djnelson@ou.edu

Allison A. Campbell, President-Elect – a.campbell@acs.org

Diane Grob Schmidt, Immediate Past President – d.schmidt@acs.org

Committee on Chemical Abstracts Service – wdcornell@yahoo.com

Budget and Finance - <https://www.acs.org/content/acs/en/about/aboutacs/financial.html>

Committee on Chemical Safety – safety@acs.org; www.acs.org/safety



COLUMBUS SECTION ACS CALENDAR OF EVENTS

Year	Month	Date	Day	Location	Comments
2016	November	28	Monday		5:00 pm: Deadline for reservations for December, 2016 Section meeting.
2016	December	1	Thursday	CAS	Monthly Section Meeting; see details elsewhere in this issue of <i>The Chemical Record</i> .

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 **Ashish Deshmukh**, 2690 Fishinger Road, Columbus, Ohio 43221, ashishdeshmukh@hotmail.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.