



The Chemical Record

Volume 52, Number 8 – December, 2010
Columbus Section of the American Chemical Society, Inc.
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<http://columbus.sites.acs.org>

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MEETING NOTICE

*Columbus Section American Chemical Society
Central Ohio Section American Institute of Chemical Engineers
Thursday, December 9th, 2010—7:15 pm*



The December 9th meeting will be a joint meeting of the Columbus Section with the Central Ohio Section of the American Institute of Chemical Engineers. Arranged by the AIChE-COS, it will be a Wine Tasting at Camelot Cellars Boutique Winery, 958 North High Street, Columbus, OH 43201 (in front of the Short North White Castle and Northstar Restaurants.) Metered parking is available next to White Castle with street parking on 2nd Avenue.

Join us for an evening all about wine! Learn how to make your own wine, from selecting the right combination of grape juices to the final bottling process. Also, enjoy sampling Camelot Cellars' selection of fine wines in the company of AIChE and ACS members.

PROGRAM DETAILS	
7:15-7:45 pm	Wine making talk
7:45-9:00 pm	Wine tasting, wine making and wine bottling (only light hors d'oeuvres will be served to accompany the tasting)
COST	\$12.00 for AIChE-COS and ACS Members \$18.00 for non-AIChE/ACS members \$8.00 for undergraduate or graduate AIChE/ACS student members. To receive meeting discounts, membership in AIChE or ACS must be in good standing.
RSVP	RSVP using the AIChE-COS email RSVP@aiche.pwohio.com by Tuesday, December 7th. Please indicate name, company name, if you are an AIChE or ACS member, and if you are a student.

YEAR END REPORT ON THE COLUMBUS SECTION OF THE AMERICAN CHEMICAL SOCIETY

By Steven Rosenthal, Chair of the Columbus Section

First off, I want to wish all the members of the Section and their families a very special Holiday Season and a Happy New Year. I want to thank everyone who made this year so successful. I want to recognize the executive committee, the committee chairs, the speakers at our monthly meetings, and all the volunteers who participated in our outreach events to the community. I can hardly believe my year as Chair is nearly done.

Accomplishments and Goals

One of the things I wanted to do was to increase interest and attendance at our monthly meetings. For this reason, we tried to have a number of our monthly meetings at new venues. In April, we met at the new OSU 4H Center. The May meeting was at the new student center at Ohio Dominican University. For September, we were at the Refectory Restaurant and Bistro. Each of these meetings had at least fifty persons in attendance, which was significantly higher than that at our usual meetings.

This year, the Columbus Section's *Chemists Celebrate Earth Day* was held at Franklin Park in conjunction with the local Columbus Earth Day Celebration. It was a great event with a lot of people. We did hands-on activities, handed out literature and had fun interacting with the community. We also took our display to COSI on the following Saturday. We were also a day sponsor for WOSU on Earth Day.

Our National Chemistry Week (NCW) activities were better than ever. One new location in the atrium of the Columbus Metropolitan Library on Grant Avenue was an outstanding place, with lots of visibility, foot traffic and excitement. We worked with COSI on Wheels. There were plenty of hands-on activities for kids. Some of the highlights included fake snow, color changing indicator paper, writing with ancient iron tannate ink, and playing with soap bubbles containing water vapor clouds. We were also a proud day sponsor for WCBE on Mole Day, October 23rd.

The weekend after NCW was the COSI Festival of Chemistry. The Columbus Section was actively involved with the Festival. We used our NCW activities and display at COSI. **Jeff Trent** conducted a teacher's workshop.

The executive committee of the Columbus Section established an annual contribution to the ACS Scholars Program. This year's donation was made in honor of the late **Dr. John Long**, who passed away in August. John worked for GFS Chemicals and was Chair of the section 3 years ago.

We also started working on the International Year of Chemistry 2011 (IYC 2011). The IYC 2011 is a year long celebration of chemistry. Our website (<http://columbus.sites.acs.org>) features a Marie Curie bibliography and a list of chemistry resources for IYC 2011. We will participate in the First Night Columbus on New Year's Eve. On January 1, 2011, we will be a Day Sponsor for WCBE in honor of the IYC 2011. I hope that you will be able to join us during 2011 as we celebrate chemistry.

Silver

SILVER CIRCLE NEWS

By Tom Weeks

tomweeks@aol.com

Silver

Silver Circle held its last meeting of the year with a tour of the Ashland Performance Materials adhesives plant on Harmon Avenue on November 11. The plant manager very graciously provided lunch for all 16 guests. Our next meeting will be in April when we visit Battelle to learn all about what's in the air in an airline cabin. It should be an enlightening talk.



SUMMARY REPORT OF COLUMBUS SECTION NATIONAL CHEMISTRY WEEK ACTIVITIES FOR
2010

By John Blaha, Section NCW Chair

The theme for National Chemistry Week 2010 was *BEHIND THE SCENES WITH CHEMISTRY*. Information on NCW can be found at the American Chemical Society website, <http://www.chemistry.org/ncw>. John Blaha, George Greene, and Jeff Trent formed the core of the organization of the Columbus Section's 2010 event.

George Greene made arrangements with the COSI-On-Wheels program to have a series of hands-on demonstrations provided by COSI at the event and made arrangements with the Columbus Public Library to allow the demonstrations and show to be held in the atrium at the Main Public Library in Downtown Columbus. The event was held for Saturday, October 23, 2010. John Blaha arranged sponsorship of the event with GFS Chemicals and GFS provided a grant of \$750 to defray the cost of COSI-on-Wheels.

NCW Library Event 10/23/2010, 10:30 AM to 3:00 PM

COSI-on-Wheels set up the following interactive stations for children of all ages to experience. Nick Steinbracher of COSI coordinated the demonstrations.

1. *A Closer View* – Using a microscope to view substances
2. *Way Cool* – Reactions of ammonium chloride and water and calcium chloride and water, demonstrating endothermic and exothermic properties, respectively.
3. *Super Slime* - slime to the next level
4. *Light The Night* – chemiluminescence in a dark box.
5. *Chemical and Physical Changes* – card game to identify when substances undergo chemical changes and when they undergo physical changes and how to tell the difference.

Play Area

Following the topics in the *Celebrating Chemistry* Newsletter, Jeff Trent provided a few amusements for children. These included fake snow, making ink from tea and other items, glow in the dark creatures, rubber snakes and lizards, helium balloons, Harry Potter® dress up attire and lots of activities involving dry ice. The most popular of these were the soap bubble clouds that children tried to catch as Jeff let them drop from the second story stairwell.

Demonstration Area

Information and interactive learning activities for adults and children on chemicals and how they are used to make props for movies were provided.

Give-away products were provided by the American Chemical Society. These included:

Celebrating Chemistry newsletter
Copies of *ChemMatters* magazine
Balloons (mostly filled by Jeff)

Follow Up

Thank you letters are being sent to all contributors and volunteers.

2010 NCW Volunteers

Response to the NCW call for volunteers was VERY weak this year, so we REALLY appreciate the following persons who participated:

Name	Affiliation	Name	Affiliation
JOHN BLAHA	COLUMBUS STATE COMMUNITY COLLEGE	STEVE ROSENTHAL	CHEMICAL ABSTRACTS SERVICE
AVORY CATHEY	WHETSTONE HIGH SCHOOL	NICK STEINBRECHER	COSI
MYUNG HAN	COLUMBUS STATE COMMUNITY COLLEGE	JEFF TRENT	BOEHRINGER-INGELHEIM
JESSE MASTERS	WHITEHALL YEARLING HIGH SCHOOL (STUDENT)	CHERYL VAUGHN	COLUMBUS STATE COMMUNITY COLLEGE
MARIA ROSENTHAL	CHEMICAL ABSTRACTS SERVICE	GEORGE WILLIAMS	WOODWARD PAGE MIDDLE SCHOOL

Editor's Note: Photographs of the NCW event at the Main Library appear elsewhere in this issue of The Chemical Record.

SECTION MEMBERS RECOGNIZED AS CHEMISTRY AMBASSADORS

The following members have been named ACS Chemistry Ambassadors for their participation in ACS outreach activities during the year. **Nancy Jackson**, ACS President-Elect, and **Steve Rosenthal**, Columbus Section Chair, presented Chemistry Ambassador Pins during the October Section meeting.

Name	Affiliation	Outreach Activity
JOHN BLAHA	Columbus State Community College	National Chemistry Week Chair
JEFF BRACKEN	Westerville South High School	High School Chemistry Teacher Coordinator
JERRI DOMBROWSKI	Scotts Miracle-Gro	<i>Chemists Celebrate Earth Day</i>
GEORGE GREENE	Abbott Nutrition	National Chemistry Week and Newsletter Editor
CYNTHIA HUMMEL	Thomas Worthington High School	Chemistry Olympiad Coordinator
ED KING	Chemical Abstracts Service	International Year of Chemistry Delegate to China
MANFRED LUTTINGER	Battelle Memorial Institute	Government Affairs Chair
JEFF NORRIS	HiStat	<i>Chemists Celebrate Earth Day</i>
BRIAN PEEBLES	OSU Graduate Research Associate	<i>Chemists Celebrate Earth Day</i>
PRISCILLA RATLIFF	Ashland (Retired)	<i>Chemists Celebrate Earth Day</i>
MARIA ROSENTHAL	Chemical Abstracts Service	<i>Chemists Celebrate Earth Day</i>
STEVEN ROSENTHAL	Chemical Abstracts Service	<i>Chemists Celebrate Earth Day</i>
MICHELLE SCHOTT	Scotts Miracle-Gro	<i>Chemists Celebrate Earth Day</i>
JEFF TRENT	Boehringer Ingelheim	National Chemistry Week and <i>Chemists Celebrate Earth Day</i>

A NEW PROGRAM TO ENCOURAGE STEM EDUCATION: THE WOODROW WILSON OHIO TEACHING FELLOWSHIP PROGRAM
Contributed by Karen Irving, Section Chair-Elect

A prestigious new Ohio fellowship program seeks to recruit and prepare accomplished professionals and students as teachers in the STEM fields of science, technology, engineering, and mathematics.

Applications are now available online (www.wvteachingfellowship.org) for the Woodrow Wilson Ohio Teaching Fellowship program, which was created to prepare more STEM teachers and place them in some of Ohio's most-challenged public schools. Fellowships are open to high-achievers who have bachelor's degrees in math or science, including those who already work in a STEM field and want to try their hand at teaching. Fellows receive a \$30,000 forgivable loan and a \$12,500 tuition scholarship. They complete an intensive, one-year school-based master's degree in education and then agree to work in a high-need Ohio school district for three years.

COLUMBUS SECTION OF THE AMERICAN CHEMICAL SOCIETY, INC. — PO BOX 82181 — COLUMBUS, OH 43202 — <http://columbus.sites.acs.org>

The Ohio State University is one of four universities chosen to participate in the Fellowship program. Others include John Carroll University in Cleveland and the Universities of Akron and Cincinnati. Each institution will train 20 Fellows.

Fellows graduating from Ohio State's Fellowship program will take their expertise to the Columbus City Schools and other high-need school districts in the hopes of inspiring urban and low-income students to take a science- or mathematics-based career path. For more information on Ohio State's program, see <http://oaa.osu.edu/Woodrow-Wilson-Ohio-Teaching-Fellowship.php>.

Those chosen for Ohio's first class of Fellows will begin their master's programs in summer 2011.

The Woodrow Wilson Teaching Fellowship was introduced in Indiana in 2007. This year, six universities in Michigan will also participate in the program along with the four in Ohio. President Barack Obama heralded the expansion of the Woodrow Wilson Teaching Fellowships as part of his *Education to Innovate* campaign.

The Ohio program is supported through Choose Ohio First scholarship funds, the state's premier model for recruiting and retaining talented Ohio residents in STEM and STEM-education fields. It is also supported by six Ohio foundations and the participating universities, which have pledged funds that match the support from the Woodrow Wilson National Fellowship Foundation of Princeton, New Jersey.

Founded in 1945, the Woodrow Wilson National Fellowship Foundation (www.woodrow.org) identifies and develops leaders and institutions to address the critical challenges in education. It supports its Fellows as the next generation of leaders shaping American institutions and also supports innovation in their institutions.

For information about participating in the Fellowship program, email wwwteachingfellowship@woodrow.org or telephone 609-452-7007, ext 141.

UPCOMING ACS WEBINARS™

From <http://acswebinars.org/events>

ACS Webinars™

Connecting you with subject experts and global thought leaders in chemical sciences, management, and business on relevant professional issues. Please join us weekly Thursdays at 2:00pm ET. To suggest topics for future webinars, please email to acswebinars@acs.org. Click on the webinar dates for link to more information and to register.

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AFFORDABLE – Free. A benefit to you from the American Chemical Society. No cost of travel or attendance fees.

Did you miss one of our past ACS Webinars? Find it all in our [On Demand Webinar archive](#)

Upcoming Webinars by Months (Click on the dates to register)

December 2010:

- **December 7, 2010** – “International Year of Chemistry 2011 – Activities and Resources for Your Celebration” with moderators Lynn Hogue (Chair, ACS Committee on Community Activities) and Judy Benham (Chair, ACS International Activities Committee).
- **December 9, 2010** – “Kitchen Chemistry: Combining Chemistry and Culinary Delights for the Holiday” with scientists and renowned cookbook authors [Shirley Corriher](#) and [Peter Barham](#).
- **December 16, 2010** – “Chemicals & the Economy Year End Updates – Impact and Outlook for Executives and Scientists” with Paul Hodges, [International eChem](#), and William Carroll, Occidental Chemical Corp.

January 2011:

- January 11, 2011 – “Strategies to Find a Job in Small Business” with John Borchart.
- **January 13, 2011** – “The Chemistry of Persuasion: More than just Science” with Lou Hampton, [Hampton Group](#).
- January 20, 2011 – “Financial Planning for Scientific Professionals – Strategies for the New Year” with Ted Sarenski, CPA/PFS, CFP, [Blue Ocean Strategic Capital](#).
- January 27, 2011 – “The Future of Chemistry” with Dr. Chad Mirkin, Director, International Institute for Nanotechnology; George B. Rathmann Professor of Chemistry, Professor of Medicine, Professor of Materials Science & Engineering, Professor of Biomedical Engineering, Professor of Chemical & Biological Engineering, [Northwestern University](#).

February 2011:

- February 1, 2011 – TBD on Chemical Technicians
- **February 3, 2011** – “Fundamentals of Effective Scientific Writing – Manuscripts and Grants” with Dr. Kristin Sainani, Clinical Assistant Professor with Health Research and Policy, [Stanford University](#).
- February 10, 2011 – “Chemists in Love: Strategies and Tactics for Dual Career Relationship” TBD
- February 17, 2011 – “U.S. Immigration Essentials for International Scientists” with Martin Lawler, [Lawler & Lawler](#).
- February 24, 2011 – “Employment Trends and the Future of Pharma” with Dr. Jeff Allum, ACS Member Research.

March 2011:

- March 3, 2011 – TBD
- March 10, 2011 – “Branding YOU! – Learn Why Marketing Yourself is Critical for Your Career” with Dr. Dawn Mason, Eastman Chemical Co., and Dr. Catherine Hunt, Dow Chemical Co.
- March 17, 2011 – “CSI Reality: Chemistry Solving Crimes in the Forensic Laboratory”
- March 24, 2011 – TBD
- March 31, 2011 – “Advanced Chemistry of Beer and Brewing” with Dr. Charles Bamforth, Anheuser-Busch Endowed Professor of Brewing Science, [UC Davis](#).

March 2011 Special (Job Search Skill Series):

- March 1, 2011 – “Today’s Job Search Strategies” with Lisa Balbes and Mary Moore.
- March 8, 2011 – “Resume Writing for Scientists” with Lisa Balbes and John Engelman.
- March 15, 2011 – “Sharpening Your Interviewing Skill” with Lisa Balbes and Donna Friedman.
- March 22, 2011 – “Secrets to Successfully using ACS Career Fair at ACS National Conferences” with Lisa Balbes.

Disclaimer

ACS Webinars™ does not endorse any products or services. The views expressed in this presentation are those of the presenters and do not necessarily reflect the views or policies of the ACS.

ACS ANNOUNCES THE 2011 SCHEDULE FOR SHORT COURSES

Our 2011 Schedule is out – find out which courses are being offered in what cities by visiting www.ProEd.acs.org/2011. The ACS Office of Professional Education has dramatically revamped its website and registration system so you can find the courses you’re looking for in no time. **Bookmark this link today:** <http://www.ProEd.acs.org>. You can now search our short courses, webcast courses and on-demand courses by topic area, date, or location and even browse our full instructor list.



We are continuously investing in new course development, so if you don't see what you're looking for or have questions about a course, just drop us a line at shortcourses@acs.org and we'll do our best to serve your technical training needs.

WHAT'S SMART ABOUT THE ACS NETWORK?

It's the place where SMART people network, so you've come to the right spot. Welcome!



With thousands of members joining the ACS Network each month, the ACS Network is the smartest place to connect with ACS members and other science professionals worldwide. It's the Smart way to get engaged and connect with other Smart people you want to know.

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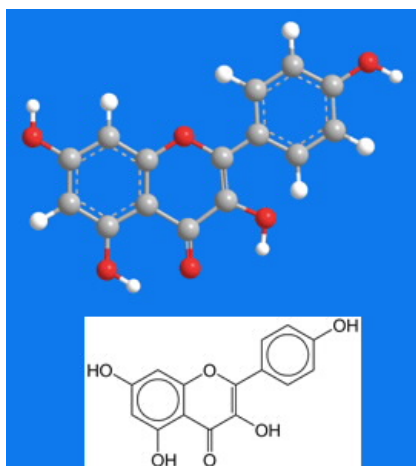
From scientific collaborations and advice for landing your next job to ideas for chemical demonstrations and the latest research, you'll find what you're looking for in our public forums, groups, and personal blogs. There is something for everyone. So, use the ACS Network to plan activities, organize projects, share interests and more! Explore and discover what's in it for you.

Not ready to take the plunge? Take a [sneak preview of the latest discussions and group activities](#) as an ACS Network Guest (you will need to login if you wish to comment on or create new content).

Still have questions? I'm here to help you. [E-mail](#) or [connect with me on the ACS Network](#).

Mark O'Brien, Communities Manager, ACS Network

MOLECULE OF THE MONTH *From the ACS website*







Kaempferol

The flavonoid kaempferol takes its name from one of its sources, aromatic ginger (*Kaempferia galanga*). It was isolated from forking larkspur (*Delphinium consolida* L.) by A. G. Perkin and E. J. Wilkinson in 1902. Since then, it has been found in plants such as grapefruit, tea, broccoli, witch hazel, and apple. Studies on kaempferol show that taking it may lower the risk of contracting pancreatic and lung cancer.



[Learn more about this molecule](#) from CAS, the most authoritative and comprehensive source for chemical information.

COLUMBUS SECTION ACS CALENDAR OF EVENTS

Year	Month	Date	Day	Location	Comments
2010	December	7	Tue		Deadline for reservations for December 8, 2010 Section Meeting.
2010	December	9	Thu	Camelot Cellars Boutique Winery, 958 North High Street, Columbus, OH 43201	Joint meeting with the Central Ohio Section of the American Institute of Chemical Engineers. See details elsewhere in this issue of <i>The Chemical Record</i> .
2010	December	31		Downtown Columbus	Columbus Section participates in First Night Columbus, ushering in the International Year of Chemistry.
2011	January	1		Central Ohio	Columbus Section sponsors a day of broadcasting on WCBE-FM as part of the observance of the International Year of Chemistry.
2011	Jan-Dec				 International Year of CHEMISTRY 2011 <i>International Year of Chemistry. See details in the March, 2009 issue of The Chemical Record.</i>
2011	March	13-18	Sun-Fri	Atlanta	 Pittcon 2011, the world's largest annual conference and exposition for laboratory science.
2011	March	27-31	Sun-Thu	Anaheim	241 st ACS National Meeting and Exposition
2011	April	22	Fri	Here, There, Everywhere!	 <i>Chemists Celebrate Earth Day. Stay tuned for information on Columbus Section activities and volunteer opportunities!</i>
2011	Aug-Sept	8/28-9/1	Sun-Thu	Denver	242 nd ACS National Meeting and Exposition
2011	October	16-22	Sun-Sat		 National Chemistry Week. Stay tuned for information on Columbus Section activities and volunteer opportunities!
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



Happy Holidays
From Your
Chemical Record Staff!

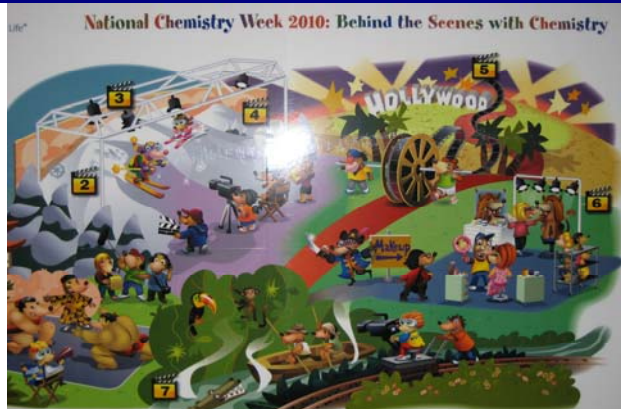


PHOTOGRAPHS FROM NATIONAL CHEMISTRY WEEK 2010

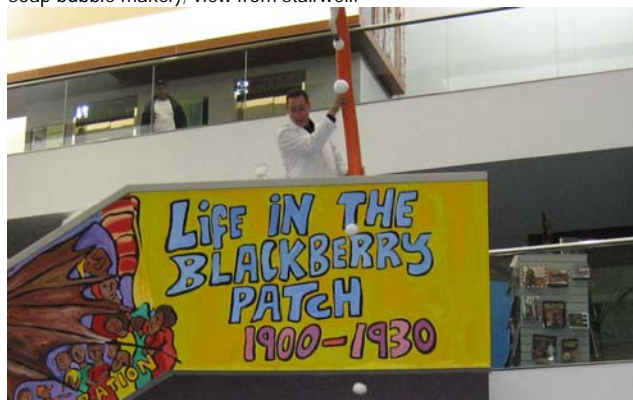
By John Blaha and Steve Rosenthal



Kids capturing clouds (soap bubbles from Jeff Trent's carbon dioxide soap bubble maker); view from stairwell.



National Chemistry Week poster 2010.



Jeff Trent making soap bubbles.



Jeff Trent and Myung Han discussing slime.



Making the always-popular slime.



Kids capturing clouds (soap bubbles from Jeff Trent's carbon dioxide soap bubble maker); view from floor looking toward demonstration area. John Blaha in background.

PHOTOGRAPHS FROM THE OCTOBER AND NOVEMBER SECTION MEETINGS
By Steve Rosenthal



Section Chair **Steven Rosenthal** and ACS President-Elect **Nancy Jackson** pose with (left to right) Fifty-Year ACS Members **Don Bergen** (CAS), **Robert Grimm** (Edison Welding Institute), **Weldon Mathews** (OSU Chemistry Dept), **Gene Schram** (OSU Chemistry Dept), **Don Songstad** (50-year ACS member and 50-year employee of CAS!), and **Dave Weisgerber** (CAS). A complete listing of the fifty- and sixty-year honorees appeared in the November issue of *The Chemical Record*.



Steve Rosenthal and **Nancy Jackson** pose with Sixty-Year ACS Member **Jacques Zakin** (OSU Chemical Engineering Department.)



ACS President-Elect **Nancy Jackson**.



Chemistry Ambassador honorees (left to right): **Priscilla Ratliff, Maria Rosenthal, Steven Rosenthal, Jeff Trent, Brian Peebles, Michelle Schott, Cynthia Hummel, Jeff Bracken, and Ed King.** See article elsewhere in this issue of *The Chemical Record*.



Attendees enjoy networking and wine tasting at The Refectory during the November meeting.



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. When preparing electronic documents, please remember that you are no longer using the old Remington typewriter so you do not need to add a carriage return at the end of each line. *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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