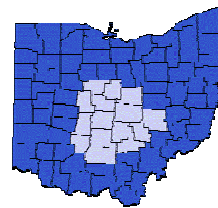




# THE CHEMICAL RECORD

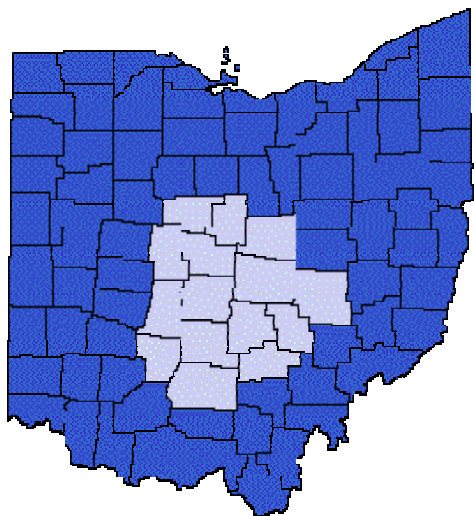
Volume 49, Number 4 -- May, 2007  
Columbus Section of the American Chemical Society, Inc.  
George Greene, Editor  
[www.acscolumbus.org](http://www.acscolumbus.org) -- [chemicalrecord@yahoo.com](mailto:chemicalrecord@yahoo.com)



**The American Chemical Society**  
*Improving people's lives through the transforming power of chemistry.*

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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.

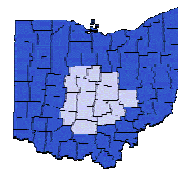
The Columbus Section of the ACS adheres to this mission and the strategic thrusts of the National organization and leadership by providing programs and networking opportunities for Chemistry professionals in Central Ohio.

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.



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## FROM THE CHAIR

*By Ron Mitchum*

The speaker last month was **Dr. Gary Stoner**. His talk accentuated how our diet may have a pronounced effect upon our general well being. We certainly wish to thank Dr. Stoner and his co-workers for the research update. The research certainly gave us additional focus upon our health and how dietary intake may have a positive health impact.

The May meeting will be our last general meeting before the summer break. The section will resume the regular scheduled meetings in September. Your ACS officers and committee representatives wish everyone a safe and productive summer break.

The May meeting, which is the Patterson-Crane Award meeting, brings into focus an outstanding contribution by a scientist in the chemical information award area. The Patterson-Crane Award is biennial and the result of an endowment used specifically to recognize contributing individuals in the category. **Theresa Huston**, one of our Councilors, leads the Patterson-Crane Selection Committee and has done a remarkable job identify qualified award candidates. **Dr. Gary Wiggins**, Indiana University-School of Informatics, is the recipient so let's be sure to attend the May meeting to honor this year's award winner.

## CALL FOR NOMINATIONS

*By Ron Mitchum*

Although it is always time for members to take an active role in section activities, the time is approaching where a new slate of candidates will be nominated for the 2008 year. The nominating committee chairperson will be responsible for bringing the slate of candidates to the general membership for election. I am polling the general membership in search for the nominating committee chair. I hope each of you will consider service in the local section. If you are interested in being the nominating committee chair give me a call at 614-873-0710 or e-mail at [ronaldmitchum@core.com](mailto:ronaldmitchum@core.com) and I will discuss the opportunity with you. If you would like more information about the election process or nominating process I will be more than happy to provide you with this information and relay your interest to the nominating committee chair.

The Nominating Committee is responsible for presenting two candidates per office. A member can also be nominated as candidate by a petition signed by 5% of the section membership, which would be about 70.

All elected officers are members of the Executive Committee (EC) of the section and are required to attend EC meetings at the request of the Section Chair. Candidates for officers should demonstrate willingness and enthusiasm for public service to ACS and the community. Experience is welcome but not necessary; training is provided. Nominees for Councilors are strongly encouraged to have, in addition, prior or current service to ACS as Councilors/Alternate and/or Officers for a Local Section or Technical Division.

The Offices for election are as follows:

**Chair-Elect:** The Chair-Elect succeeds the Chair after one year of serving in this position. Main responsibilities are Program and Planning. Attendance at Leadership Training provided by ACS is required.

**Secretary:** This is a one-year position. The main function is to maintain records, record minutes of Executive Committee meetings, and assist the Chair on agenda items.

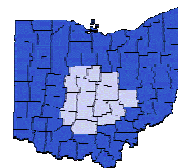
**Treasurer-Elect:** The Treasurer-Elect succeeds the Treasurer after serving one year in this position. Main responsibilities are to assist the Treasurer and become familiar with procedures.

**Councilor:** The Councilors represent the Section's membership before ACS at National meetings and on Governance-related functions as required throughout the year. The Section has three Councilors who serve staggered 3-year terms to ensure continuity.



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Persons interested in these positions can find more complete descriptions in the Section's Job Manual. The Manual in its current draft version is at: <http://www.acscolumbus.org>, under the pull-down menu "How we work".

## MEETING NOTICE

### Columbus Section of the American Chemical Society, Inc.

<http://www.acscolumbus.org>

**Tuesday May 8, 2007**

### *Patterson-Crane Award*

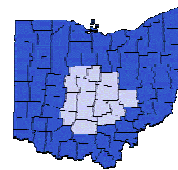
Holiday Inn on the Lane  
328 West Lane Ave.  
Columbus OH 43201  
(614)294-4848  
Buckeye Rooms III & IV  
11th Floor

5:00-6:00 PM	Executive Committee Meeting (open to all members)
6:00-7:00 PM	Reception: Cold Hors d'Oeuvres, Fruit Punch, Cash Bar (Sponsored by Columbus Section)
7:00-8:00 PM	Dinner: <i>Choice of Chicken Turino (chicken breast stuffed with peppers, Andouille sausage, and mozzarella and Cheddar cheeses, topped with a red pepper sauce) or Vegetable Lasagna. Both entrées will be served with garden salad, braised green beans, rolls, and beverage with Key Lime Pie and Chocolate Suicide Cake for dessert</i>
8:00-9:00 PM	Award Ceremony followed by address by awardee, <b>Dr. Gary Wiggins</b> , Indiana University, School of Informatics.
Cost	Members and nonmembers \$25.00 Students \$5.00 Payment will be collected at the door; cash and checks accepted.
Reservations	Please use the voice mail reservations service by calling <b>614-447-3600 extension 7047</b> . Follow template for reservations*. Alternatively, please send e-mail to The Columbus Section at the following e-address: <a href="mailto:acscols@cas.org">acscols@cas.org</a>
*Voicemail/e-mail Reservations Template	<ul style="list-style-type: none"><li>• First and last name: please spell last name.</li><li>• Membership category: member, retired, emeritus, unemployed, student, non-member, other.</li><li>• Entrée Choice: Chicken Turino or Vegetable Lasagna</li><li>• Employer</li><li>• Your phone number, in case we need to contact you.</li><li>• Indicate dinner and lecture or lecture only</li></ul>
<b>Reservations Deadline</b>	<b>Thursday, May 3, 2007. Your reservation is a dinner order and must be paid.</b>
Program Contact	Theresa Huston, 614-447-3600 ext. 3354, <a href="mailto:thuston@cas.org">thuston@cas.org</a>




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Directions		Exit Route 315 at Lane Ave. and proceed to the east approximately ½ mile. The driveway to the parking garage is on the left past the Olentangy River Bridge.
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## ABOUT THE TOPIC

### *Communicating in Chemistry*

The last third of the 20th century saw many changes in the way chemists communicate, changes built on the rapid advances in computer science and information technology. With the introduction of the Internet and the World Wide Web, the pace of change accelerated dramatically. New information sources, such as SciFinder and electronic versions of scholarly journals and other publications, have had a dramatic effect on the way scientific research has been done in the last dozen years. Now we are at the beginning of another revolution in scientific communication, being driven largely by the social networking tools collectively referred to as Web 2.0. An overview of some of the more interesting applications of Web 2.0 technology to chemical information exchange will be presented in this talk.

## ABOUT THE SPEAKER

**Dr. Gary D. Wiggins**, Director, Program in Chemical Informatics, School of Informatics, Indiana University, is the 2007 recipient of the Patterson-Crane Award presented biennially by the Dayton and Columbus Sections of the American Chemical Society. The Award, given in honor of two previous editors of CAS, Austin M. Patterson and E. J. Crane, recognizes outstanding contributions in chemical information theory or practice.

The Award will be presented in Columbus, Ohio on Tuesday, May 8, 2007, at a dinner to be held at Holiday Inn on the Lane.

The Award recognizes Dr. Wiggins as one of the earliest librarians to foresee and adopt the many intensive technological innovations that were occurring in chemical information during the time that he was head of the Indiana University Chemistry Library from 1976 to 2003. His work ensured that the IU Chemistry Library has one of the finest collections of print and electronic materials available in any academic library. He championed the adoption of electronic forms of chemical information communication far beyond the Indiana borders.

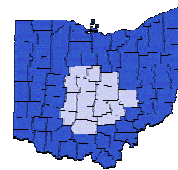
One of Dr. Wiggins' most enduring legacies is the many students that have completed the Chemical Information Specialist Program under his mentorship and who now hold positions in all areas of chemical, pharmaceutical, and patent information across corporate, academic, government, and non-profit sectors. Dr. Wiggins has recently created two new Master's programs in bioinformatics and chemical informatics in the School of Informatics at Indiana University. In 2005, he and others at IU received a grant from the National Institutes of Health to establish an exploratory center for chemical informatics research.

When the Internet became available for general use, Dr. Wiggins was able to make the IU instructional materials and guides prepared in the IU Chemistry Library available to other institutions. He popularized the Web to many chemists and librarians through his "Some Chemistry Resources on the Internet", his lectures on that topic, and his Web guide to Internet



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Resources. Additionally, his book *Chemical Information Sources* published in 1991 was used as a textbook in many locations.

For many professionals in chemical information, Dr. Wiggins is probably best known for his development of the online networking service begun in 1991 called the Chemical Information Sources Discussion List (CHMINF-L), which today has over 1,400 subscribers worldwide. Through this service, he was also able to introduce subscribers to many chemical information sources on the internet. Dr. Wiggins has continually managed to update this service to take advantage of new developments in technology.

## ABOUT THE PATTERSON-CRANE AWARD

The Columbus and Dayton, Ohio Sections of the American Chemical Society sponsor the Patterson-Crane Award for contributions to chemical information. It is international in scope and given in honor of two outstanding members of the Sections - **Austin M. Patterson** (1876-1956) and **E.J. Crane** (1889-1966).

The biennial award consists of a \$2,000 honorarium and a personalized commendation. The award is funded by a bequest of the Patterson family to the Dayton Section, by the Helen G. Crane Fund of the Columbus Foundation, and by the Patterson-Crane Award Fund of the Columbus Section.

The Austin M. Patterson Award was established in 1949 by the Dayton Section to acknowledge meritorious contributions in the field of chemical literature and especially documentation of chemistry. Dr. Patterson, the first recipient of the biennial award, was recognized for his leadership in organic chemical nomenclature and his work as editor of *Chemical Abstracts*. There were 13 additional recipients of this award, including E.J. Crane, who was editor of *Chemical Abstracts* from 1915-1958. Subsequently, there was a desire to honor and establish an award in his memory. In February 1975 the ACS Board of Directors accepted a proposal by the Dayton and Columbus Sections for a jointly sponsored Patterson-Crane Award. There have been 13 recipients of the joint award.

Nominees should demonstrate outstanding achievement in the field of chemical information science. Contributions of international significance may relate to design, development, production, or management of chemical information systems or services; electronic access to and retrieval of chemical information; critically evaluated data compilations; information technology applications in chemistry; or other significant chemical documentation, including production of original works, editorial work, or chemical library work. A nominee does not have to be an ACS member.

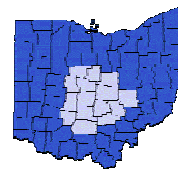
Since its inception, the Patterson-Crane Award has been presented to the following persons:

1949	Austin M. Patterson	1979	Dale B. Baker
1951	Arthur B. Lamb	1981	W. Conard Fernelius
1953	E. J. Crane	1983	Eugene Garfield
1955	Howard S. Nutting	1985	Bruno J. Zwolinski
1957	Melvin G. Mellon	1987	Kurt L. Loening
1959	Leonard T. Capell	1989	George E. Vladutz
1961	G. Malcolm Dyson	1991	David R. Lide, Jr.
1963	W. Albert Noyes Jr.	1993	Hideaki Chihara
1965	Elmer Hockett	1995	Arthur E. Martell
1967	Melville L. Wolfrom	1997	Derek Horton
1969	Herman Skolnik	1999	Stephen E. Stein
1971	Charles D. Hurd	2001	Gerard P. Moss
1973	Pieter E. Verkade	2003	Robert J. Massie
1975	William J. Wiswesser	2005	Dr. Gilles Klopman
1977	Benjamin H. Weil	2007	Dr Gary D. Wiggins



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## NOTES FROM THE SECTION'S GOVERNMENT AFFAIRS COMMITTEE

*By Manfred Luttinger*

The April Issue of *The Capitol Connection Newsletter* reported that on March 29 "ACS President Catherine T. Hunt discussed the Society's views on the future National Science Foundation (NSF)" before the House Science Committee's Research and Science Subcommittee. Her "testimony focused on NSF's role in improving science education and the best ways for NSF to promote more young investigators, expand interdisciplinary research, and improve industry collaboration."

"Dr. Hunt told the panel that the NSF's education and research programs are essential to fend off threats to the United States' economic and technological leadership: As the members of this committee are keenly aware, the United States faces threats to its economic and technological leadership from countries that have made monumental investments in educating their workforces as well as investing in research and development."

In the same issue, *The Capitol Connection Newsletter* informs its readers about

- House Support for Math and Science Education (H.R. 362; the "10,000 Teachers, 10 Million Minds" Science and Math Scholarship Act)
- ACS Fellowship Program
- Climate Change Update (congressional activities).

To be fully informed about these and other ACS OLGA (Office of Legislative and Government Affairs) announcements and activities, we recommend you subscribe to the *The Capitol Connection Newsletter* at [govrelations@acs.org](mailto:govrelations@acs.org).

## SILVER CIRCLE GROUP MEETS TO LEARN ABOUT BIO-BASED PRODUCTS

*By Tom Weeks*

The Silver Circle Group will have a luncheon and technical meeting at Battelle at 11:30, Wed, May 2. The topic is *Emerging Opportunities for Bio-Based Products* by **Dr. Bhima Vijayendran**, Battelle Senior Research Leader and Vice President of Commercialization. Attendees must be American citizens, have a photo ID, and pre-register by noon Fri. April 27. For further information contact **Tom Weeks** at [tomweeks@aol.com](mailto:tomweeks@aol.com)

Silver Circle events are targeted for Section members aged 55 and older. Younger folks are welcome on a space available basis.

## SECTION PRESENTS 2006—2007 EDUCATIONAL GRANTS

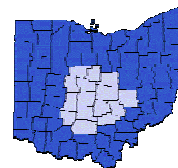
*By Ted Klupinski*

The Education Committee congratulates the winners of the 2006–2007 Educational Grants, designed to support effective teaching, to enrich learning experiences for students, and to increase partnerships between the chemistry community and chemistry educators in the Columbus Section. Applications for grants of up to \$250 each were invited from high school or middle school science teachers in the 15-county area of the Columbus Section. Education Committee members **Jodie Harper**, **Karen Irving**, and **Bruce Lerner** are serving as liaisons with the awardees to observe how the projects are implemented in the classroom. For information about the Educational Grants program or other Education Committee activities, please contact **Ted Klupinski** at [tpklist-chem@yahoo.com](mailto:tpklist-chem@yahoo.com).



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The winners of the 2006–2007 Educational Grants are listed below with the titles and summaries of the funded projects.

**Carla A. Fultz** and **Mary C. Conway**, Pickerington High School North, Pickerington

Project Title: *Science “Matters”*

Project Summary: High school honors chemistry students will interact with fourth grade students for a day of chemistry at each elementary school in the district. The project will provide support to the elementary teachers for their science curriculum. The topics of matter, physical changes, and chemical changes will be explored.

**Nancy Talley**, Buckeye Valley High School, Delaware

Project Title: *Soap Making: Creating a Student-Led Scientific Community*

Project Summary: During the last three weeks of the school year the chemistry classes will become a soap-making factory, with each class producing two pounds of marketable soap. This project will create an active learning environment for the students to use chemistry skills and leadership abilities in making and marketing soap. It will provide insight into the corporate world by providing the experience of applying their knowledge to a scientific endeavor.

**Carlene Wymer**, Centennial High School, Columbus

Project Title: *Ideal Gas Simulation*

Project Summary: The project will use ideal gas simulation software to observe the chemistry of gases and help students develop a better understanding of the gas laws and the behavior of ideal and real gases under different conditions of temperature, pressure, volume, etc.



## NATIONAL CHEMISTRY WEEK 2007

### *The many Faces of Chemistry*

National Chemistry Week (NCW) is a community-based program of the Office of Community Activities. This annual event unites ACS local section, businesses, schools, and individuals in communicating the importance of chemistry to our quality of life. Please contact **Professor John Blaha** ([Jblaha@csc.edu](mailto:Jblaha@csc.edu)) if you would like to volunteer to participate in the local National Chemistry Week events or serve on the committee.

## GERM 2008 Central Regional Meeting



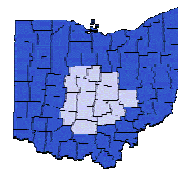
## 2008 CENTRAL REGIONAL ACS MEETING COMES TO COLUMBUS

The 2008 meeting of the Central Region of the American Chemical Society will be held June 10-14, 2008 in Columbus, sponsored by The Ohio State University Chemistry Department and the Columbus Section of ACS. Please mark your calendars and contact **Jimmy Cowan**, [cowan@chemistry.ohio-state.edu](mailto:cowan@chemistry.ohio-state.edu), if you would like to help organize the meeting.



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## 39TH CENTRAL REGIONAL MEETING (CERMACS) May 21 – 23, 2007 in Covington, Kentucky

The Cincinnati section is hosting CERMACS 2007, at the Northern Kentucky Convention Center. You can get details on the program by visiting the meeting website at [www.cermacs2007.org](http://www.cermacs2007.org). If you have not reserved a room yet, you can do so at the website.

They promise a strong and innovative program. Topics include forensics as presented by **William Dean**, chief of forensic sciences, Hamilton County Coroner's Office; the "Fantastic Four Science Guys": **Bassam Shakhshiri, David Katz, Al Hazari** and **John Fortman** know how to make learning fun; the art of brewing, hosted by the Master Brewers Association of America; illuminating molecules; and chemical /biological sensors.

### COLUMBUS SECTION ACS CALENDAR OF EVENTS *Compiled by Maria Rosenthal, Ron Mitchum, and George Greene*

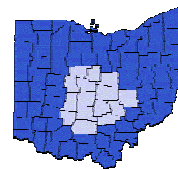
2007	May	2	Wed	Battelle	11:30 AM: Silver Circle Group luncheon and technical meeting at Battelle: <i>Emerging Opportunities for Bio-Based Products</i> by <b>Dr. Bhima Vijayendran</b> . See details elsewhere in this edition of <i>The Chemical Record</i> .
2007	May	3	Thu		<b>Deadline for making reservations for May 8 Section Meeting</b>
2007	May	8	Tue	Holiday Inn on the Lane	<b>Patterson-Crane Award</b> banquet and presentation of award to <b>Dr. Gary D. Wiggins</b> of Indiana University. See details elsewhere in this edition of <i>The Chemical Record</i> .
2007	May	12	Sat	OSU	<b>State Science Day 2007</b> . Judges are needed; please contact Bob Kroshefsky ( <a href="mailto:bobkro@urec.net">bobkro@urec.net</a> or 937-707-9276) if you would like to participate in judging the high school students' science projects.
2007	May	20-23	Sun – Wed	Northern Kentucky Convention Center, Covington, KY	<b>CERMACS 2007</b> --Central Regional Meeting of the American Chemical Society: <i>Learn Today, Influence Tomorrow</i> <a href="http://www.cermacs2007.org">www.cermacs2007.org</a>
2007	August	19-23	Sun – Thu	Boston	234 <sup>th</sup> ACS National Meeting.
2007	October	21-27	Sun – Sat	Here, There, Everywhere!	 National Chemistry Week 2007: <i>The Many Faces of Chemistry</i> .
2007	October	23	Tue	Here, There, Everywhere!	6:02 AM until 6:02 PM: <b>International Mole Day</b> , in celebration of Avogadro's Number.
2007	October	27	Sat	Main Branch, Columbus Metropolitan Library, 96 South Grant Avenue	10:00 AM – 4:00 PM: National Chemistry Week interactive event featuring COSI on Wheels. Approximately fifty volunteers are needed to work two-hour shifts performing hands-on chemistry demonstrations (we will show you what to do) or providing crowd control (welcoming students, making sure that everyone is wearing goggles, etc.) Please contact <b>Professor John Blaha</b> ( <a href="mailto:jblaha@csc.edu">jblaha@csc.edu</a> ) if you would like to participate.






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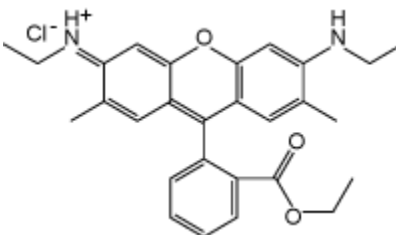
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2008	June	10-14	Mon - Fri	Hyatt Regency Hotel, Columbus		<b>CERM 2008</b> Central Regional ACS Meeting, sponsored by Columbus Section and The Ohio State University. Contact <b>Jimmy Cowan</b> , <a href="mailto:cowan@chemistry.ohio-state.edu">cowan@chemistry.ohio-state.edu</a> for more information
2008	October	19-25	Sat – Sun	Here, There, Everywhere!	<b>National Chemistry Week. Chemistry and Sports.</b>	

## MOLECULE OF THE MONTH



**Rhodamine 6G** is a fluorescent molecule--it gives off a specific wavelength of light when excited by light of a different wavelength. 6G was once used in dye lasers, but is now used to detect biological compounds at the single molecule level.

## PLEASE SUPPORT OUR SPONSOR...

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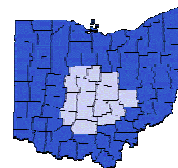
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## ABOUT ACS

The American Chemical Society is a self-governed individual membership organization that comprises more than 158,000 members at all degree levels and in all fields of chemistry. The organization provides a broad range of opportunities for peer interaction and career development, regardless of professional or scientific interests. The programs and activities conducted by ACS today are the products of a tradition of excellence in meeting member needs that dates from the Society's founding in 1876.

## ABOUT THE CHEMICAL RECORD

*The Chemical Record*, official newsletter of the Columbus Section of the American Chemical Society, Inc., is published monthly, September-December and February-May (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, [chemicalrecord@yahoo.com](mailto:chemicalrecord@yahoo.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, George Noethlich, 2740 Bella Via Avenue, Columbus OH 43231-2305, e-mail [gnoethlich@wowway.com](mailto:gnoethlich@wowway.com). George 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 Stephen Renner ([srenner@cas.org](mailto:srenner@cas.org)) and Maria Rosenthal ([mrosentha@cas.org](mailto:mrosentha@cas.org)). Maria and Stephen will perform any necessary formatting then they will forward the message to John Todd, Electronic Communications Coordinator, for distribution. If you would like to be added to the e-mail distribution list, please contact John Todd ([jtodd@cas.org](mailto:jtodd@cas.org))



## THE CHEMICAL RECORD

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