

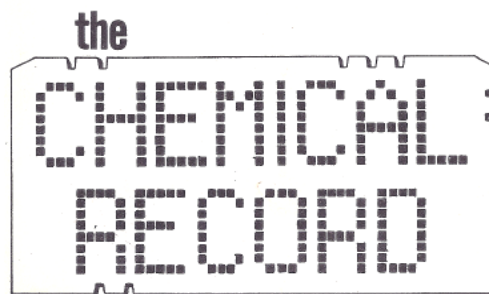
**50 Years**  
**The Chemical Record**  
**1958-2008**



**Volume 50, Number 3 — April, 2008**  
 Columbus Section of the American Chemical Society, Inc.  
 George Greene, Editor — Ron Mitchum, Section Chair  
[www.acscolumbus.org](http://www.acscolumbus.org)

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## Upcoming Meetings

*By Ronald Mitchum, Chair*

May 20 Tuesday

Monthly Section Meeting and presentation of Columbus Section Award at Ohio Dominican University.  
TBA



Curiosity

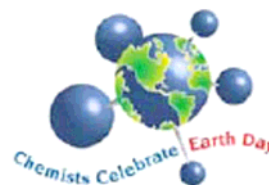
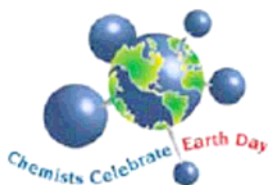
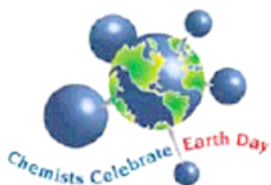
Discovery

Innovation

**State Science Day**

### JUDGES ARE STILL NEEDED FOR STATE SCIENCE DAY

Ohio's State Science Day 2008 will be held on Saturday, May 10th at the French Field House on The Ohio State University campus. Contact **Bob Kroshefsky** ([bobkro@urec.net](mailto:bobkro@urec.net)) or phone him at 937-707-9276 if you would like to participate for a few hours in judging the junior high and high school students' chemistry projects. Everyone always has a great time. You will be finished by noon so you can enjoy the rest of your day knowing that you've touched the lives of aspiring scientists and answered the ACS's call to promote chemistry among the general populace.



### THE COLUMBUS SECTION INVITES ALL MEMBERS TO SUPPORT "CHEMISTS CELEBRATE EARTH DAY!"

*By Jeff Trent*

[www.acs.org/earthday](http://www.acs.org/earthday)

ACS Outreach replaces the traditional dinner meeting and speaker format in April, taking time to consider Chemistry's place in maintaining a healthy environment.

### ACS COLUMBUS SECTION "CLEAN STREAMING CHEMISTRY" BOOTH AT THE COLUMBUS ZOO AND AQUARIUM

*Saturday, April 19, 2008 • 9 AM to 5 PM • During Bodhi's Earth Day Celebration*

*Chemists Celebrate Earth Day (CCED)!* The ACS Columbus Section is looking forward to presenting a "Clean Streaming Chemistry" booth during Bodhi's Earth Day Celebration at the Columbus Zoo!

**The zoo will provide:**

- ACS Recognition in Bodhi's Earth Day Celebration event handout. (3,000 printed.)



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- ACS Recognition on the Columbus Zoo and Aquarium Website Calendar of Events. (over 4,800 hits per month.)
- The opportunity to distribute approved promotional items at ACS booth throughout the event (Approx. 13,000 visitors to the Zoo on this day. Approximately 3,000 visitors attend activity fair.)
- Free admission and parking to volunteers (ACS will distribute tickets to volunteers prior to the event.)

**We need Zoo Volunteers** to support Hands-On-Activities for 3000 visitors! The booth will consist of one 8 ft. table, four chairs, and the Clean Streaming Chemistry Display.

1. Hand out *Streaming Chemistry – Celebrating Chemistry* Literature and Temporary *Chemists Celebrate Earth Day* Tattoos.
2. Make a "Water Cycle Wristband"; page 4 *Streaming Chemistry – Celebrating Chemistry*.
3. Experiment: "Avogadro's Bubbly Adventure", page 7 *Streaming Chemistry – Celebrating Chemistry*.

Preview the Hands-On Activity Descriptions at [www.acs.org/earthday](http://www.acs.org/earthday), Educational Resources, *Streaming Chemistry – Celebrating Chemistry*, direct link [http://portal.acs.org/portal/fileFetch/C/WPCP\\_008470/pdf/WPCP\\_008470.pdf](http://portal.acs.org/portal/fileFetch/C/WPCP_008470/pdf/WPCP_008470.pdf)

We are planning four people per shift for Water Cycle Bracelets and Avogadro's Bubbly Adventure. Please let us know your preferred shift (2 hr shifts plus setup-cleanup: Setup 8 - 9 AM / 9 - 11 AM / 11 AM – 1 PM / 1 - 3 PM / 3 - 5 PM / Clean Up 5 - 6 PM.) **Volunteers Contact: Jeff Trent [jtrent@csc.edu](mailto:jtrent@csc.edu) -- Subject Line: Zoo Volunteer.**

**Bodhi's Earth Day Event Description:** This event will immerse both children and adults in a "wild" learning experience. First, visit the Activity Pavilion where local conservation and wildlife organizations will share their earthly knowledge through interactive exhibits. Next visit Asian elephant Bodhi as he celebrates his fourth birthday with a special birthday cake and activities for children. Then, visit My House at Habitat Hollow for ways to live "green" starting in your own backyard.

**Columbus Zoo and Aquarium Policies:**

- No balloons, glass, stickers, straws or live animals are permitted on Zoo grounds.
- Organizations must receive invitation from the Columbus Zoo and Aquarium to participate in any event. ACS has received an invitation for 2008!
- We do not allow outside vendors to sell items or take donations while participating in events at the Columbus Zoo and Aquarium.

~~~~~  
**ACS COLUMBUS SECTION "CLEAN STREAMING CHEMISTRY" BOOTH AT COSI**

*Sunday, April 20, 2008 • 10 AM to 4 PM, COSI Columbus*

Chemists Celebrate Earth Day! The ACS Columbus Section is looking forward to presenting a "Clean Streaming Chemistry" Booth during the COSI Earth Day Celebrations.

**We need COSI Volunteers** to support Hands-On-Activities for many visitors! The booth will consist of two 8 ft. tables, and a Clean Streaming Chemistry Display. See details of the experiments in the previous section.

We are planning Two people per shift for Water Cycle Bracelets, and Avogadro's Bubbly Adventure. Please let us know your preferred shift (2 hr shifts plus setup-cleanup: Setup 9 - 10 AM / 10 AM - 12 PM / 12 – 2 PM / 2 - 4 PM / Clean Up 4 - 5 PM)

**Volunteers Contact: Jeff Trent [jtrent@csc.edu](mailto:jtrent@csc.edu), Subject Line: COSI Volunteer**

~~~~~  
**ACS COLUMBUS SECTION "CLEAN STREAMING CHEMISTRY" DISPLAY**

*Columbus Metropolitan Library  
April 2008 During Regular Hours*

Chemists Celebrate Earth Day! The ACS Columbus Section is looking forward to presenting a "Clean Streaming Chemistry" Display during the month of April at the Columbus Metropolitan Library. We will provide Free: *Celebrating Chemistry – Streaming Chemistry* (CCED 2008 publication).

We are developing another program for the Library "Super Science Saturdays" into which the current ACS Columbus Section National Chemistry Week celebration fits each October. An offer has been made to provide a booth similar to those provided for the Zoo and COSI in 2009. We want to provide opportunities for ACS Student Affiliates, H.S. ChemClubs, YCC, and Silver Circle members to participate in Chemistry Outreach Activities.

Early Positive experience in Science, Technology, Engineering, and Mathematics is essential to stop the trend of STEM education and career preparation falling behind other nations in this Global Economy. From the National Academy of Sciences Report, "Rising Above



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the Gathering Storm: Energizing and Employing America for a Brighter Future” and the recent “America Competes Act” we can see that it is a critical time to encourage students in pursuing careers in the STEM core essential for a technological workforce.

Please join us in these new Outreach opportunities in April and provide suggestions to the ACS Columbus Executive Committee to meet this mission in the future.

~~~~~  
**FREE CHEMISTS CELEBRATE EARTH DAY PUBLICATION FOR TEACHERS**

**TEACHERS**, the CCED publication, Celebrating Chemistry – Streaming Chemistry is available Free; order a box of CCED publications for the whole school! Just fill in the information online via the following link and requested materials can be shipped directly to the school: <http://fs12.formsite.com/ACS-OCA/ccedgenpublic/index..html>.

[Journal of Chemical Education](http://www.jce.divched.org/HS/Journal/Issues/2008/FebACS/index.html) Enjoy FREE ACCESS to the [February 2008 issue](#) online, which is devoted to green chemistry, environmental chemistry, and the celebration of Earth Day. The *Journal* is packed with references to make your celebration a success! <http://www.jce.divched.org/HS/Journal/Issues/2008/FebACS/index.html>



**SILVER CIRCLE GROUP ACTIVITIES**

*By Tom Weeks*  
[tomweeks@aol.com](mailto:tomweeks@aol.com)



I've returned from playing park ranger in northern Arizona and am now working on lining up some luncheon speakers. For those of you who need an immediate spring technology fix, there are some outstanding lectures scheduled at OSU. I've listed these below. You can go to the Chemistry Department website for more details. Parking is available in both the Tuttle and Mershon garages; Arps is open only with a key card.

**Fri. Apr. 11** 4:00-5:00 1015 McPherson: **Professor Daryl Busch** will talk on *Sustainable Catalytic Oxidation for Commodity Production*. This is the invited Shore Lecture.

**Thurs. Apr. 17** 1:00-2:00: **Dr. William Roush** of Scripps Research Institute will give the invited Meek Lecture. His specialty is medicinal chemistry and natural products.

**Thurs. May 1** 4:30-5:30 1015 McPherson: **Dr. Jeffery Bricker** Director of Research, UOP will talk on *Meeting Energy Demand in a Warming World*. This is the invited Meek Lecture. UOP is a worldwide leader in catalysis and process engineering, and a number of years ago acquired the zeolite business from Union Carbide.

**Fri. May 2** 11:30-12:30 1015 McP: **Dr. Bricker** will talk again, this time on *New Inorganic Catalysts for Major Petrochemicals*. NOTE: If anyone is interested in getting together for lunch after this lecture, let me know and I'll try to arrange it.



**2008 CENTRAL REGIONAL ACS MEETING (CERMACS 2008) 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. Additional information about the meeting can be found online at [www.cermacs2008.org/site/](http://www.cermacs2008.org/site/)

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# CERMACS

Columbus, Ohio 2008



Discovery in  
Columbus June 10-14, 2008

## CERMACS 2008 Program

**June 10: Opening Reception at COSI:** Explore Science, Discover Fun

**Keynote Speaker:** Prof. Lonnie Thompson, recipient of 2007 National Medal of Science, and an internationally recognized glaciologist/climatologist.

**Exhibit Areas:** Gadgets, Life and Progress, CSI Traveling Exhibit, SciMix Poster Gallery, and Hors d'oeuvres

**June 11-14: CERMACS 2008 will convene at the Hyatt Regency, Downtown Columbus, Ohio**

### Plenary Events Featuring Industry Leaders

**ACS Presidential Address:** Bruce Bursten, "The Centrality of Chemistry"

#### Symposia

Women in Science  
Supramolecular Chemistry  
Green Chemistry and Technology  
Science Education  
Biomolecular Solid-State NMR

Protein Engineering  
Nanomaterials  
Alternative Energy  
Plastics and Polymers

Homogeneous Catalysis  
Membrane Biochemistry  
Theoretical Modeling  
Environmental Chemistry

#### Special Events

Awards Banquet  
Women Chemists Luncheon  
Teacher Workshops  
ACS Leadership Workshops

Wine Tasting Event  
Minority Forum-NOBCChE/OSU  
ACS Career Workshops  
ACS Safety Workshop

The meeting will also include:

- Programs for High School Chemistry Teachers
- College Education Program
- NSF REEL Program
- Tours of the Animal Industry and Consumer Labs., Ohio Dept. of Agriculture
- OSU Alumni Reception

**For meeting information & registration, please visit:**  
[www.cermacs2008.org](http://www.cermacs2008.org)

**Contact:** [cermacs2008@chemistry.ohio-state.edu](mailto:cermacs2008@chemistry.ohio-state.edu)

**For visitor information, go to** [www.experiencecolumbus.com](http://www.experiencecolumbus.com)



COSI is a proud sponsor of CERMACS 2008

### PROFILE OF ASHLAND INC.

*Editor's Note: As part of our celebration of the 50<sup>th</sup> anniversary of The Chemical Record, we will be printing articles about various companies and organizations that have facilities in the geographical area covered by the Columbus Section. Ashland Inc., in addition to providing summer employment for your editor during his college years, has been a loyal, generous supporter of Section activities. **Jim Vitak**, Manager of Public Relations, Ashland Inc., has graciously provided the following photographs and information:*



**Ashland Inc.** is an important global source of diverse chemical products and services – marketing, producing and distributing tens of thousands of products around the world.

Ashland resins make composite automotive parts stronger and lighter. Our foundry binders help the world's auto makers create engines for precision driving machines. Yacht manufacturers worldwide rely on Ashland's premium resins and gelcoats to create some of the world's most stunning sea-going vessels. Our adhesives bond everything from doors, laminate flooring, and roofing to food and medical packaging, specialty tapes and labels, and automotive components.

Plastics distributed by Ashland find their way into automobile headlamps and side moldings, washing machines and dishwashers, small appliances and toys. Our composites find end uses in countertops, body panels of buses and the highly corrosive environments of exhaust stacks, tanks and piping in industrial plants. Everything from paints and adhesives to beauty and hair-care products contain chemicals and ingredients we distribute.

Through our people, processes, distribution network and strategic relationships with the world's premier raw material producers, Ashland is focused on one thing: satisfying customer needs and making sure that every order is the "perfect order" – on time, accurate and complete.

Our VALVOLINE® motor oils, ZEREX® antifreeze, and EAGLE ONE® and CAR BRITE® appearance products help automobiles run and look like new. And, motorists are finding the meaning of "quick" in quick-lube services when they visit our VALVOLINE INSTANT OIL CHANGE® stores, where the average oil-change-service time is now just 12 minutes.

We provide specialty chemicals and consulting services for the treatment of utility and process water and municipal wastewater. The cruise and merchant marine industries count on us for services and solutions for their ocean-going vessels, including water and fuel treatments, specialized cleaners, and fire-fighting, safety and rescue products and services.

In North America, our Environmental Services group offers customers worry-free collection and proper disposal of their waste streams. For more than 25 years, we've employed recycling and treatment technologies from reuse to direct recycling to manage a wide array of spent materials. And, our startup INTEGRATED RESOURCE MANAGEMENT<sup>SM</sup> services business provides integrated, custom-designed, onsite service programs, enabling customers to focus on their core operations.

We are responsible. We place a high priority on environmental stewardship, health, safety and security. We want our employees to end each day in the same good health with which they started. And, we want our products used safely and responsibly. That means we adhere to the tenets and goals of the Responsible Care\* initiative and proactively seek to minimize risks associated with our products, services and operations. Our vision, mission, values and operating principles define the corporate citizen we aspire to be. Each day, we work to live up to our own high expectations and those of our customers, employees, shareholders and the communities in which we operate.



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We seek better, cleaner solutions, based in chemistry, born in the imagination and realized in our laboratories and research centers. Every day, Ashland's employees work to meet customers' demands, solve problems and develop the products and processes that improve quality of life around the world. By providing innovative solutions that help customers worldwide resolve their toughest problems and improve their bottom lines, Ashland creates value for its customers, its shareholders, and the communities in which we operate.

\* Responsible Care is a registered service mark of the American Chemistry Council in the United States and of different entities in other countries.

® Registered trademark of Ashland.

SM Service Mark of Ashland.

### ACS DEPARTMENT OF DIVERSITY PROGRAMS

The American Chemical Society has relied on its members to carry out its mission for more than a century. In present times, the challenges facing the ACS and indeed the global communities require more than ever before, effective and decisive contributions by all of us, ACS members, colleagues and associates, and the future of the profession, chemistry students.

The key element in this undertaking is "all". The effort must include representatives from all the groups that constitute the broader communities, for the ACS to be and to remain relevant as a global organization.

Through the Department of Diversity Programs, in the Membership Division, the ACS has established the structure that allows implementation of inclusiveness going forward. In early 2006, a team was launched with the mandate to identify opportunities for collaboration amongst the committees that focus on different diversity groups and issues.

This team, assisted by Diversity Programs staff, was formed with representatives from the Committee on Minority Affairs, Committee on Chemists with Disabilities, Women Chemists Committee, and Younger Chemists Committee, and with its Chair; this group quickly expanded with representatives from the Committee on Committees and Nominations and Elections. Since then, representation has expanded further, with participation of Committee on Technician Affairs and the Division of Professional Relations.

The team, which was first known as the Collaboration of Committees Working Group, is now the ACS Joint Subcommittee on Diversity (JSD). As such, it reports to the Diversity Committees and only exists with support from their leadership.

The vision of the JSD is that "all individuals will advance the chemical enterprise by drawing on the full range of their talents". The word "all" encompasses the various aspects of diversity, including gender, age, race, ethnicity, disability, sexual orientation, and others.

In addition to meeting at ACS National Meetings for the last two years, JSD members interact through conference calls and have been able to identify many possible synergetic interactions amongst the constituent committees that were articulated into short-term and long-term recommendations, which have been presented to the ACS Board of Directors.

The JSD has co-hosted receptions and national meeting programs, created the ChemLuminary Award for Diversity Programs, and, more importantly, has facilitated the emergence of a unified voice and message generated by the core committees as well as implementation of best practices in operations of the committees and staff liaisons.

These efforts culminated with the development and presentation to the Board of Directors of a Statement on Diversity. The statement was approved by the Board of Directors at the Board meeting on December 4, 2007.

These accomplishments are real and are based on the participation of "all" of the ACS diverse constituencies, the Chairs of the constituent committees, the committee representatives, and the ACS Staff in the Department of Diversity Programs.

As we transition into the next chapters of JSD, we will continue to maximize synergies and find venues to extend the benefits of collaborative efforts to other entities in the ACS, so as to serve members and funnel volunteer resources. We will strive to support advancement of diversity groups as chemistry professionals with the skills necessary to compete in the global arena and as leaders within the ACS.

For information on awards, programs and services offered by the ACS Department of Diversity and the Diversity committees, please visit [www.acs.org/diversity](http://www.acs.org/diversity). For inquiries, comments and suggestions, please send email to [diversity@acs.org](mailto:diversity@acs.org).

**Carolyn Ribes**, ACS member for 25 years, Past Chair

**Maria G. Velazquez Rosenthal**, ACS member for 25 years, Chair  
ACS Joint Subcommittee on Diversity

### ACS Statement on Diversity

The American Chemical Society believes that to remain the premier chemical organization that promotes innovation and advances the chemical sciences requires the empowerment of a diverse and inclusive community of highly skilled chemical professionals regardless of race, gender, age, religion, ethnicity, nationality, sexual orientation, gender expression, gender identity, presence of disabilities, educational background, and other factors. Chemical scientists rely on the American Chemical Society to promote inclusion and diversity in the discipline.

To enable scientific progress and maintain its global competitive edge, the American Chemical Society remains committed to inspiring and educating the present and future generations of diverse, innovative, and creative chemical professionals. By promoting inclusion and equity to all, the American Chemical Society will succeed in fostering a diverse community of professionals in the chemical sciences who will be the catalyst for transforming the world through their full participation and integration into the chemical professions.

### COLUMBUS SECTION ACS CALENDAR OF EVENTS

|      |       |       |           |                                            |                                                                                                                                                                        |
|------|-------|-------|-----------|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2008 | April | 1-30  | All Month | Columbus Metropolitan Library, Main Branch | ACS Columbus Section "Clean Streaming Chemistry" Display                                                                                                               |
| 2008 | April | 6-10  | Sun – Thu | New Orleans                                | Spring 2008 ACS National Meeting and Exposition. See ACS website, <a href="http://www.acs.org">www.acs.org</a> , for details.                                          |
| 2008 | April | 11    | Fri       | 1015 McPherson Hall, OSU                   | 4:00- 5:00 PM: <b>Professor Daryl Busch</b> , <i>Sustainable Catalytic Oxidation for Commodity Production</i> .                                                        |
| 2008 | April | 11-13 | Fri – Sun | University of Toledo                       | Ohio Academy of Science annual meeting; see <a href="http://www.ohiosci.org">www.ohiosci.org</a> for details.                                                          |
| 2008 | April | 18    | Thu       | OSU Chemistry Department                   | <b>Dr. William Roush</b> of Scripps Research Institute will give the invited Meek Lecture. His specialty is medicinal chemistry and natural products.                  |
| 2008 | April | 19    | Sat       | Columbus Zoo and Aquarium                  | 9:00 AM – 5:00 PM: ACS Columbus Section "Clean Streaming Chemistry" Booth. <b>Volunteers needed—see details elsewhere in this issue of <i>The Chemical Record</i></b>  |
| 2008 | April | 20    | Sun       | COSI                                       | 10:00 AM – 4:00 PM: ACS Columbus Section "Clean Streaming Chemistry" Booth. <b>Volunteers needed—see details elsewhere in this issue of <i>The Chemical Record</i></b> |
| 2008 | April | 22    | Tue       | Here, There, Everywhere!                   | Chemists Celebrate Earth Day.                                                                                                                                          |
| 2008 | May   | 1     | Thu       | 1015 McPherson Hall, OSU                   | 4:30 – 5:30 PM: <b>Dr. Jeffery Bricker</b> , <i>Meeting Energy Demand in a Warming World</i> . This is the invited Meek Lecture.                                       |
| 2008 | May   | 2     | Fri       | 1015 McPherson Hall, OSU                   | 11:30 AM - 12:30 PM: <b>Dr. Jeffery Bricker</b> , <i>New Inorganic Catalysts for Major Petrochemicals</i> .                                                            |
| 2008 | May   | 10    | Sat       | French Field House and St. John Arena, OSU | State Science Day. Volunteers are DESPERATELY needed to serve as judges; contact Bob Kroshefsky, <a href="mailto:bobkro@urec.net">bobkro@urec.net</a> .                |
| 2008 | May   | 20    | Tue       | Ohio Dominican University                  | Monthly Section Meeting and Columbus Section Award presentation                                                                                                        |





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**COLUMBUS SECTION ACS CALENDAR OF EVENTS**

|      |         |       |            |                               |                                                                                                                                                                                                                                                                                                                                                        |
|------|---------|-------|------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2008 | June    | 10-14 | Mon -- Fri | Hyatt Regency Hotel, Columbus |  <p><b>CERM 2008</b><br/>         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</p> |
| 2008 | June    | 24-26 | Tue -- Thu | Washington, DC                | 12th Annual Green Chemistry & Engineering Conference                                                                                                                                                                                                                                                                                                   |
| 2008 | August  | 17-21 | Sun -- Thu | Philadelphia                  | Fall 2008 ACS National Meeting and Exposition. See ACS website, <a href="http://www.acs.org">www.acs.org</a> , for details.                                                                                                                                                                                                                            |
| 2008 | October | 19-25 | Sat -- Sun | Here, There, Everywhere!      | <b>National Chemistry Week.</b> <i>Having a Ball with Chemistry (The Chemistry of Sports.)</i>                                                                                                                                                                                                                                                         |

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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, 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](mailto: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, **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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