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**DR. P. REXFORD OGLE IS REMEMBERED BY THE COLUMBUS SECTION**

**Dr. P. Rexford “Rex” Ogle**, a Fifty-Year Member of the American Chemical Society, and Past Chair of the Columbus Section, in 1979, passed away on New Year’s Day.

Dr. Ogle retired from Otterbein College after 29 years of teaching in the Chemistry Department, where he mentored scores of students in Chemistry and related fields.

The obituary in *The Columbus Dispatch* reads, in part:

“He is survived by Marcia, his faithful, loving wife of 56 years; their 6 children, Kim VanWassen (Bob), Craig (Mary Ann), Sue Ankrom (Jeff), Colleen, Jennifer Freshly (Lindsay), Heather Rodwell (John); 14 grandchildren; brother, Gary (Maryann); and dear friend, Myron Campbell (Chris). Rex grew up in Columbus, matriculating from East High School, and then attended to Capital University, Ohio State University, and Michigan State University, where he received his Ph.D. in Chemistry. Dr. Ogle worked as a research chemist for the Goodyear Atomic Corporation in Piketon for 7 years and then answered a calling to teach at Otterbein College for 29 years. As a professor he was more than a teacher and researcher, but also a mentor whose commitment to his students extended beyond the classroom, even providing many a place to stay when needed. He felt tremendous pride in their accomplishments, as he did his children’s.

Dr. Ogle was a member and leader in the Church of the Master UMC, Westerville, OH.”

## THANKS FOR MAKING 2009 A SUCCESS

*By Priscilla Ratliff, 2009 Columbus Section Chair*

As outgoing Chair of the Columbus Section I would like to thank each and every one who volunteered and participated in the meetings, programs, activities and events in 2009. We had another successful year, carrying on the tradition of the Columbus Section.

As I am now working on the Section annual report for national ACS let me share some facts and figures of the past year with you. The Columbus Section held eight program meetings, four Silver Circle programs, seven Executive Committee meetings and several activities and events throughout the year. Eight issues of the Chemical Record newsletter were published and distributed.

A grand total of 413 people attended the eight program meetings, with average meeting attendance being 52. More interesting, however, is the fact the 227 different individuals attended the programs. Membership in the Section this year held steady at a little under 1300 members.

Highlights of the year included: investigating electronic balloting (which will continue); participating in two Science Cafes; revising and moving the Section Web site to a new ACS server; recognition of achievement for one member by ACS national; selection of four members as ACS Fellows; initiating plans for the International Year of Chemistry in 2011 (which will continue); participating in the United Way Volunteer Fair at CAS; supporting ACS sustainability efforts by the compilation of the *Columbus Section Sustainability, Energy Conservation, and Environmental Resource Directory*; representing the Section on the Ohio Dept of Education Science Advisory Group which is revising state science education standards for K-12 (which will continue); and participation on a Science Advisory Committee of the Ohio Department of Education, which is revising state science standards for K-12.

Members also planned and participated in reoccurring activities such as providing judges and awards in chemical science at the State Science Day; coordinating the Chemistry Olympiad sponsorship and awards; conducting the high school teacher affiliates workshop; celebrating National Chemistry Week with demonstrations and activities, distributing over 500 brochures at seven locations in the Columbus area for Chemists Celebrate Earth Day; selecting the High School Chemistry Teacher of the Year; and recognizing 50 and 60 year members.

Financially, accounts were audited at the beginning of the year and appropriate legal and tax forms filed. Thanks to many years of prudent operation the Section continues to be financially sound. In addition the special accounts for CERMACS 2008 were closed this year, and the Columbus Section realized a substantial income from that endeavor. The Executive Committee of the Section is now in the process of allocating those monies, and if you have any suggestions I am sure they would be welcome.

Obviously it was a year of many accomplishments, and it was my privilege to be a part of it. Once again thanks to members of the Executive Committee, Committee chairs and members, and to all of you who took the time and effort to participate in programs and events of the Columbus Section in 2009. Please continue your efforts and support of Chair Steven Rosenthal in 2010.

## STATE OF THE COLUMBUS SECTION

*By Steven Rosenthal, Chair of the Columbus Section*

As the incoming Chair of Columbus Section of the American Chemical Society, I would like to present this report on the status of the section. The Columbus Section had a successful 2009. The Section's finances are in good shape. We have conducted our activities in a fiscally responsible manner.

Some of the highlights for the last year include a new and improved web page, formal approval and implementation of our revised bylaws, Cocktails at the Conservatory, a Science Café program, National Chemistry Week activities, and development of a sustainability resources page as part of the ACS Sustainability Initiative.

Plans for this year include regular monthly meetings, Earth Day activities, National Chemistry Week and special events. Some ideas for special events are a tour of the Columbus Museum of Art, a wine tasting, a summer picnic, and a New Year's Eve Celebration to start the International Year of Chemistry 2011.

I look forward to building on the past accomplishments of the Section and strengthen the bonds between our members. Finally, I would like to thank all the volunteers who dedicate their time and efforts to make this section a success.

## MEETING NOTICE

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

<http://columbus.sites.acs.org>

**Program: *Mobile Sources: An Opportunity to Leverage Research Interests to Address Global Challenges of Climate Change, Energy Security, and Public Health***

**Timothy J. Buckley, Ph.D., CIH**

**Wednesday, February 24, 2010  
6:00 pm**

Clintonville Woman's Club - 3951 N. High Street - Columbus, OH 43214  
[www.clintonvillewomensclub.com](http://www.clintonvillewomensclub.com)

### Program Details

<b>5:00-6:00PM</b>	Executive Committee Meeting (open to all members)
<b>6:00-6:45 PM</b>	Reception: Hors d'oeuvres and beverages
<b>6:45-7:30 PM Dinner</b>	Chicken or Vegetarian entrée with tossed garden salad, chef's choice of sides and desserts, soft drinks, coffee and tea.
<b>7:30-8:30 PM Speaker</b>	<b><i>Mobile Sources: An Opportunity to Leverage Research Interests to Address Global Challenges of Climate Change, Energy Security, and Public Health</i></b> <b>Timothy J. Buckley, Ph.D., CIH</b>
<b>Cost</b>	\$25 per person members and non-members, \$20 for retired and unemployed members, \$10 per student. Payment will be collected at the door; cash and checks accepted. <b><i>Remember that this is a dinner order and must be paid. Please help control costs by honoring your order. There is no charge to attend the program only.</i></b>
<b>RSVP</b>	Please use the voice mail reservations service by calling 614-447-3600 extension 7047. Follow the template for reservations*. Alternatively, please send e-mail with the same information to The Columbus Section at the following e-mail address: <a href="mailto:acscols@earthlink.net">acscols@earthlink.net</a>
<b>*Voicemail/e-mail Reservations Template</b>	<ul style="list-style-type: none"> <li>• First and last name: Please spell last name.</li> <li>• Membership category: member, non-member, retired, emeritus, unemployed, student, other.</li> <li>• Employer</li> <li>• Your choice of entrée, Chicken or Vegetarian</li> <li>• Your phone number, in case we need to contact you.</li> </ul>
<b>Reservation Deadline</b>	<b>Wednesday, February 17, 2010 at noon.</b>
<b>Program Contact</b>	<b>Steven N. Rosenthal</b> 614-447-3600, ext 2070, <a href="mailto:srosenthal@cas.org">srosenthal@cas.org</a>

**Directions**

- The Clintonville Woman's Club is located 0.7 miles south of Henderson Rd. on the west side of North High Street.
- The private clubhouse is nestled atop the Adena Brook Ravine, adjacent to the Whetstone Park of Roses in the heart of Clintonville. Free parking is provided.

**ABOUT THE SPEAKER**

**Dr. Timothy J. Buckley** is an associate professor and Chair of the Division of Environmental Health Sciences at The Ohio State University (OSU) College of Public Health. Dr. Buckley received his PhD in Environmental Science from Rutgers University (1991), a Masters of Health Science in Industrial Hygiene from the Johns Hopkins Bloomberg School of Public Health (1986), and BS in Chemistry from St. John's University (Collegeville, MN; 1981). Dr. Buckley is a certified industrial hygienist and has been elected to leadership positions among his professional associations including chair of the American Industrial Hygiene Association's Biological Monitoring Committee and Academic Counselor of the International Society of Exposure Analysis. Dr. Buckley has also been an active member of the American Conference of Governmental Industrial Hygienists (ACGIH) since 1986 and is currently a member of their TLV Committee.

Dr. Buckley's research expertise is in human exposure assessment as applied in risk assessment and epidemiology. This expertise is formed from 22 years of diverse research experience spanning his doctoral work (5 years), followed by five years as a research scientist with EPA's National Exposure Research Lab, and another twelve years in academia. Prior to his move to OSU, Dr. Buckley was on the faculty at the Johns Hopkins Bloomberg School of Public Health for nine years. Throughout his research career, Dr. Buckley has focused on methods, measurements, and models for assessing human exposure to contaminants in the community and work environments as a basis for assessing the public health threat and developing strategies for prevention. Dr. Buckley's current research is focused on the impact of air pollution on susceptible populations including urban economically disadvantaged communities, inner-city asthmatic children, nursing mothers and their infants, and communities in close proximity to heavily trafficked urban arterials. He has published over fifty-five peer-reviewed research articles on these and other topics

Dr. Buckley served on the U.S. EPA's Science Advisory Board's (SAB) Exposure and Human Health Committee from 2001 to 2007, he has been an ad hoc member of the Board of Scientific Counselors (BOSC), he is a member of CDC's National Center for Injury Prevention and Control Initial Review Group, and he is an associate editor for *Environmental Health Perspectives*. While at Johns Hopkins he served on the Faculty Advisory Board for the Center for a Livable Future. During his tenure with the US EPA, Dr. Buckley received awards for his role and efforts in the National Human Exposure Assessment Survey (NHEXAS) and the Lower Rio Grande Environmental Exposure Study. His published research was recognized in 1996 with a US EPA Scientific and Technology Achievement Award and again in 1999 by the Walter G. Berl Award given by the Johns Hopkins Applied Physics Laboratory.

**ABOUT THE TOPIC*****Mobile Sources: An Opportunity to Leverage Research Interests to Address Global Challenges of Climate Change, Energy Security, and Public Health***

In the U.S., mobile sources represent the single largest demand on nonrenewable petroleum resources and the largest source of carbon dioxide emissions. At the same time, their emissions pose a substantial threat to public health—a threat that is further exacerbated by disproportionate impact on disadvantaged, minority communities. Accordingly, as we approach an era where the gap between demand and supply for petroleum widens, there is the opportunity for the leveraging of public health, sustainability, and energy security interests. Evidence of the mobile source-related public health threat is both compelling and wide ranging including cancer, respiratory, and cardiovascular health. In the context of these broad “Grand Challenges,” Dr. Buckley will present and discuss his research interests related to mobile sources and public health as a strategy to invite interdisciplinary research that addresses these challenges.

PHOTOGRAPHS FROM DECEMBER, 2009 SECTION MEETING

*By Steve Rosenthal*



**WELCOME NEW MEMBERS!**

*By George Noethlich, Membership Chair*

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

**Jayati Banerjee**  
**Lemuel R Carlisle**  
**Nadia Ninel Casillas Ituarte**  
**Carl Gleditsch**  
**Rob Janes**

**Susan Bijoo Matthew**  
**Evelyne Ntam**  
**Stephanie Prendergast**  
**Mary Raber**  
**Suzanne Rohrback**

**Martin J. Ross**  
**Andrew Schafer**  
**Shiyao Wang**  
**David W Wood**  
**Kari J Zander**

## TELLERS COMMITTEE REPORT

*By Norman Rearick, Chair*

The Tellers Committee met at CAS to count the ballots received for the 2009 Columbus Section elections. There were 167 ballots returned this year. However, two of them were unsigned and thus were not counted. The results of the election were as follows:

Chair-Elect: **Karen Irving**, 151

Secretary: **David Speth**, 81; **Lena Furci**, 76

Treasurer-Elect: **Robert Kroshefsky**, 90; **Michelle Schott**, 69

Councilor and Alternate Councilor: **Jeff Trent**, 101; **Donald Songstad**, 91; **Ed King**, 80; **Jens Hemmingsen**, 14; **John Shaw**, 6

The Tellers Committee again this year consisted of **Jon Andre**, BMI; **Rudolf Brits**, CAS; **David Hart**, OSU, and **Norman Rearick**, AEP Retired (Chair.)

## A SUGGESTION FOR VALENTINE'S DAY IN COLUMBUS

*By Steven Rosenthal*

Based on tremendous interest in our August, 2009 meeting at Franklin Park Conservatory for the talk on Art Glass, the Chihuly Reimagined Exhibit, and Cocktails at the Conservatory, I am suggesting that our members go to the Columbus Museum of Art for Valentine's Day. The museum will be featuring a number of activities that Sunday, which includes a tour of the Chihuly Illuminated Exhibit, a Jazz Concert, Art Challenges and Drawing in the Galleries. The tour is called Interpretations of Light and starts at 1 PM. Discover how artists have depicted light in this tour of CMA favorites and works by Dale Chihuly. This walk-in tour is free with admission and open to the public. The Mark Flügge Presents Chamber Jazz at the Museum program runs from 2-4 PM. Join us for the enchanting stylings of Mark Flügge and Friends during this series of Sunday concerts at CMA. February's concert spotlights Valentine's Day. Tickets for Mark Flügge Presents Chamber Jazz at the Museum are \$20 for adults, \$15 for seniors, \$7 for students. CMA members receive a \$2 discount per ticket. For more information, please call 614.629.0312. Art Challenges is a Family Program from 1-3 PM. Visit the Art Challenges station in the galleries to participate in exciting, competitive games that highlight a CMA artwork or collection. Compete against friends or family members, or challenge scores posted by other visitors. Prizes are part of the fun, and one winner each week will earn a CMA gift certificate. Experience CMA in a new way and see art from a different perspective. Join us for Drawing in the Galleries where visitors explore the basic elements of drawing while also developing observational skills and a deeper appreciation for the artistic process. Visitors should be prepared for surprises and should count on learning as much about seeing as about drawing. Program cost is \$12 for nonmembers and \$4 for members with a running time of ninety minutes. Reservations suggested, please call 614.629.5947. I hope to see you at the CMA. I want to wish a Happy Valentine's Day to everyone.

## THE COLUMBUS SECTION AWARD FOR 2010

*By Lewis Hogarth*

Nominations are now being solicited for the Columbus Section Award for 2010.

This award is given every two years to a scientist who has carried the chemical sciences in new and original directions. The nominee may be in any field associated with chemistry, viz. chemical engineering, electrochemistry, coatings, astrochemistry, etc., and must have made, in the opinions of the nominators, significant contributions. Previous nominees have accomplished significant work in the areas of inventions and patents, research and development in environmental chemistry, advances in organic synthesis and the development and use of chemical coatings. A list of previous award recipients appears on the Section's website, [www.acscolumbus.org](http://www.acscolumbus.org).

Each nomination must be backed up with at least the following: a minimum of three letters of support, a statement of the nominee's achievements, a list of patents and publications, a biography of the nominee, a nomination cover letter by a member of the local section, and any other information considered salient. The successful nominee will be expected to deliver a talk at the May, 2010 meeting on a subject related to their expertise, and will receive a medal, a check and a plaque which may be kept for two years until the next award.

The Columbus Section Award Committee, which comprises a cross-section of chemical scientists from industry, academia and private business, will consider any nomination up to **March 1, 2010**, the application deadline. Please submit nominations to Columbus Section Award Committee, Columbus Section ACS, PO Box 82181, Columbus, OH 43202, or contact **Lewis Hogarth** at 614.268.8534 or [westwood@infinet.com](mailto:westwood@infinet.com) for additional details.

## NATIONAL LAB DAY

Dear ACS Member,

On Nov. 23, President Barack Obama announced the establishment of National Lab Day, an effort supported by ACS and more than 200 other organizations representing more than 6.5 million science, technology, engineering and math (STEM) professionals. The first National Lab Day is tentatively set for early May 2010 and will be part of a large, ongoing STEM initiative called "Educate to Innovate."

I invite you to join me and other ACS members in providing high quality, hands-on, discovery-based lab experiences to middle and high school students in our local communities.

Visit the National Lab Day website at [www.nationallabday.org](http://www.nationallabday.org) to join in this exciting new initiative.

National Lab Day is more than just a day. It's teachers working with volunteers from their communities. It's communities of volunteers rallying around their teachers. It's all of us working together to give our kids access to well-equipped labs and to the STEM professionals who can inspire them.

ACS members are critical to the success of National Lab Day. We will need the help of chemists, chemical engineers, university students, scientists, medical professionals and, more broadly, members of the community. Volunteers will engage in activities to strengthen laboratory experiences in their local communities or in outreach to other high-need schools. There are many ways for you to be involved. You might, for example, install software or identify useful Web resources from the ACS Education Division and other sources; find, donate, or repair equipment; implement hands-on projects; start a fund-raising effort to buy needed supplies; help with science fairs; mentor a student; chaperone field trips; provide internship opportunities; donate materials; help with lesson plans; or be an advisor for an after-school program like ACS ChemClubs.

Your commitment could be as little as a few hours, though our hope is that for many volunteers, National Lab Day will be just the first step—or the next step—in an on-going involvement with local schools and teachers. To register as a volunteer and describe your ideas for participating in National Lab Day, please visit the National Lab Day website at [www.nationallabday.org](http://www.nationallabday.org). Once you sign up, you'll receive another e-mail from us with many suggestions and resources to help you plan your own participation.

We need your help in this important effort!

I am proud to be a chemist and I know you are as well!

Thanks for joining me as a Chemistry Ambassador in supporting National Lab Day.

Best regards, **Thomas H. Lane**, ACS President

## EASY ONLINE MEMBERSHIP RENEWAL

To quickly renew your ACS membership and subscriptions online, use your ACS ID at [www.acs.org/acsdues](http://www.acs.org/acsdues). Your renewal invoice will be available online starting 90 days before your membership expiration date. With your existing ACS ID (or a new one you create for yourself) and your ACS membership number, you can renew your dues and subscriptions, add or remove publications or division memberships, verify your payment, and get a receipt all at the click of a button. You'll automatically receive an e-mail confirming that your renewal payment has been processed, then you'll receive a payment acknowledgement and new membership card by mail. For more information, contact ACS Member Services at [service@acs.org](mailto:service@acs.org) or (800) 333-9511

## CHEMISTS CELEBRATE EARTH DAY

It's not too soon to start planning for Chemists Celebrate Earth Day (CCED) activities, for April 22, 2010! This year's CCED theme is *Plants--The Green Machines!* The 2010 CCED edition of the *Celebrating Chemistry* tabloid will be available online through the CCED home page in late January; it will contain hands-on activities and articles geared for students in grades 4–6. The CCED Coordinator Order Form will also be primed and ready to receive your orders in early January. In addition, CCED coordinators will be receiving e-mail updates regarding the order form and other relevant CCED information. You can get a head-start on CCED 2010 planning by visiting [www.acs.org/earthday](http://www.acs.org/earthday) today for updates and the latest information!



## CeRMACS 2010 Dayton

*Chemistry: Reacting to Provide New Technologies*

ACS CENTRAL REGIONAL MEETING

June 16-19, 2010

Dayton, Ohio

*Small Chemical Businesses (SCHB) Division solicits your presentations*

*for the CeRMACS 2010 symposium:*

Small Business Innovations in the Chemical and Materials Industry

### **“How Chemical and Material Small Businesses Survive and Prosper in the Business World”**

- Small business owners and advisors will share their experiences and advice on starting and maintaining chemical / materials businesses.
- A half-day symposium and a half-day workshop program will be held, sponsored by the Division of Small Chemical Businesses.

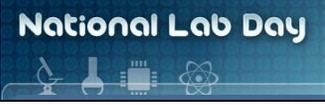
The 2010 ACS Central Regional Meeting welcomes and invites you to submit an abstract for an oral or poster presentation (300 words maximum). The deadline for general abstract submission is April 15, 2010. Please submit your abstract via the following website: <http://abstracts.acs.org>.

**For questions, please contact:**

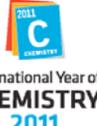
Organizer: Tobey Cordell, [tcordell@utcdayton.com](mailto:tcordell@utcdayton.com)

Co-organizer: Nina Joshi, [njoshi@ues.com](mailto:njoshi@ues.com)

**COLUMBUS SECTION ACS CALENDAR OF EVENTS**

Year	Month	Date	Day	Location	Comments
2010	February	17	Wed		<b>12:00 Noon: Reservation deadline for February 24 Section meeting.</b>
2010	February	24	Wed	Clintonville Woman's Club	Monthly Section meeting. See details elsewhere in this issue of <i>The Chemical Record</i> .
2010	Feb-Mar	02/28-03/05	Sun-Fri	Orange County Convention Center, Orlando, FL	
2010	March	1	Mon		<b>Deadline for submitting nominations for the 2010 Columbus Section Award. See details elsewhere in this issue of <i>The Chemical Record</i>.</b>
2010	March	17	Wed	The Fawcett Center, OSU Campus	<b>Dr. Ouliana Ziouzenkova</b> of OSU College of Education & Human Ecology
2010	March	21-25	Sun-Thu	San Francisco, CA	239 <sup>th</sup> ACS National Meeting and Exposition
2010	April	20	Tue	OSU 4H Center	Speaker from Ohio BioProducts Innovation Center
2010	April	22	Thu	Here, There, Everywhere!	 <i>Chemists Celebrate Earth Day</i>
2010	May	TBA	TBA		
2010	May	TBA	TBA	Ohio Dominican University	Presentation of 2010 Columbus Section Award
2010	May	8	Sat	Ohio State University	 State Science Day 2010 <a href="http://www.ohiosci.org/ssd.htm">www.ohiosci.org/ssd.htm</a>
2010	June	16-19	Wed-Sat	Dayton Convention Center and Crown Plaza Hotel., Dayton, OH	CeRMACS 2010 (Central Regional ACS Meeting) and presentation of <b>Patterson-Crane Award</b>
2010	August	22-26	Sun-Thu	Boston, MA	240 <sup>th</sup> ACS National Meeting and Exposition
2010	October	17-23	Sun-Sat	Here, There, Everywhere!	 National Chemistry Week: <i>The Chemistry of Materials</i> .
2010	October	23	Sat	Here, There, Everywhere!	 6:02 AM – 6:02 PM: International Mole Day, in honor of Avogadro's Number.
2010	December	TBA	TBA	TBA	Joint meeting with Columbus Section of AIChE and "New Year's Party" to ring in the <i>International Year of Chemistry</i> .

### COLUMBUS SECTION ACS CALENDAR OF EVENTS

Year	Month	Date	Day	Location	Comments
2011	Jan-Dec				 <p>International Year of Chemistry. See details in the March, 2009 issue of <i>The Chemical Record</i>.</p>

#### 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 **Maria Rosenthal** ([mrosenthal@cas.org](mailto:mrosenthal@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](mailto:rbird@cas.org)).

#### PLEASE SUPPORT OUR SPONSOR...

*The Chemical Record* is brought to you in living color by the Columbus Section of the American Chemical Society and our fine sponsor, **Hogarth Chemical Consulting**:



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