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MEETING NOTICE

Columbus Section of the American Chemical Society, Inc.

www.acscolumbus.org

Monday, April 20, 2009

Program: *Chemistry: The Enabling Science*
 Speaker: **Rudy M. Baum**, Editor-in-Chief
Chemical & Engineering News

Chemical Abstracts Service
 2540 Olentangy River Road
 Columbus, OH 43202
 614-447-3600

4:30 - 5:30 pm	Executive Committee Meeting (open to all members) in the Battelle Room.
5:30 - 6:30 pm	Reception in the Lobby sponsored by Chemical Abstracts Service. Sign in and pay for dinner reservation.
6:30 - 7:30 pm	Buffet Dinner in the Cafeteria featuring Caesar or Italian salad, chicken Monterey, pot roast, vegetable lasagna, steamed broccoli, honey drizzled baby carrots, oven roasted potatoes, roll and butter, chocolate brownie or yellow cake with white frosting, and coffee, tea, soda or lemonade.
7:30 - 8:30 pm	Program: Chemistry: The Enabling Science by Rudy M. Baum , Editor-in-Chief, <i>Chemical & Engineering News</i> in the Auditorium.
Cost	\$22.00 per person, \$20.00 for retirees/unemployed, \$10.00 for students.
Reservations	Please use the voice mail reservations service by calling 614-447-3600, extension 7047. Follow the template for reservations.* alternatively, please send an email to the Columbus Section at the following email address: acscols@cas.org
*Voice Mail / Email Reservations Template	<ul style="list-style-type: none"> • First and last name: Please spell the last name • Membership category: member, retired, emeritus, unemployed, student, non-member, other • Organizational Affiliation • Your phone number, in case we need to contact you. • If you intend to come to the Program Only, please indicate so; otherwise it will be assumed that you are making a dinner reservation.
Reservations Deadline	5:00 pm, Tuesday, April 14, 2009. Unless stated otherwise, your reservation is a dinner order and must be paid.
Program Contact	Priscilla Ratliff pratliff@earthlink.net or 614-405-7350
Security	All dinner and program attendees must pre-register.
Directions	<p>From the North: If on I-71 South exit onto 270 West to 315 South (once on the exit ramp, stay in the left lane to go South); take 315 South to the Ackerman Road exit; turn left; stay on Ackerman Road until you cross the Olentangy River Road intersection; CAS is immediately on the right</p> <p style="text-align: center;">-or-</p> <p>If on 23 South take I-270 West to 315 South (once on the exit ramp stay in the left lane to go South). Go South until you reach the Ackerman Road exit, turn left; stay on Ackerman Road until you cross the Olentangy River Road intersection; CAS is immediately on the right.</p> <p style="text-align: center;">-or-</p> <p>Take I-71 South to Hudson Street. Turn right onto Hudson. You will want to be in the left lane to</p>

continue West on Hudson. Take Hudson across High Street and until it ends at the next street, which is Neil Avenue. Turn right (North), then left at the traffic light, Dodridge Street. CAS will be on the left side. You can enter from Dodridge Street.

From the East:

Go West on I-70 until you reach 315 North; Take 315 North to the Ackerman Road exit; turn right onto Ackerman Road and continue until you cross the Olentangy River Road intersection; CAS is immediately on the right.

From the West:

Go East on I-70 until you reach 315 North; Take 315 North to the Ackerman exit; turn right onto Ackerman Road; continue until you cross the Olentangy River Road intersection; CAS is immediately on the right.

From the South:

Take I-71 North to 315 North; continue on 315 North until you reach the Ackerman Road exit; turn right onto Ackerman Road; continue until you cross the Olentangy River Road intersection; CAS is immediately on the right

-or-

If on Route 33, take I-70 West; exit onto 315 North; continue on 315 North until you reach the Ackerman Road exit; turn right onto Ackerman Road; continue until you cross the Olentangy River Road intersection; CAS is immediately on the right.

Visitor Parking at CAS

You may park by the front door where visitor parking is indicated, along the drive where there is a pink line, or in the staff parking.

ABOUT THE SPEAKER



Rudy M. Baum is Editor-in-Chief of *Chemical & Engineering News*, the weekly newsmagazine of the American Chemical Society. Baum received a B.A. degree in chemistry from Duke University in 1975. After a year studying medicine at Georgetown University, he joined the American Chemical Society staff in the Education Division, where he worked in continuing education programs.

Baum joined the staff of C&EN in 1980. He was the magazine's West Coast Bureau Head for 14 years. He became Managing Editor in 1995 and Editor-in-Chief in 2004. He was named a fellow of the American Association for the Advancement of Science in 2006.

ABOUT THE TOPIC

Chemistry: The Enabling Science

Chemistry is often referred to as “the central science” because it lies at the nexus of and contributes to so many other scientific disciplines. Chemists’ emphasis on their discipline as the central science often irritates other scientists, who perceive the notion as somewhat condescending.

While chemistry exists as a discipline in and of itself, it is also a tool box that increasingly is being used by other disciplines to advance their frontiers. In this sense, chemistry is “the enabling science.” In fact, much of the most exciting research being done today involves chemistry being applied to multidisciplinary or interdisciplinary research questions. In my talk, I will explore these developments and their implications for the future of chemistry. I will also discuss the role of *Chemical & Engineering News* plays in disseminating news of the chemistry enterprise.

WELCOME NEW MEMBERS!

By George Noethlich

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.

Emily Bain
Kenneth Barker
Heather Cuthbert
Terry Haugen

Kristina Haworth
Yoshio Ikeda
Patrick Kavanagh
Donald Kelemen

John Kuhn
Burcu Mirkelamoglu
Mary Rohrdanz
Collin Ward

MEMBER RECOGNIZED BY ACS COMMITTEE ON COMMUNITY ACTIVITIES

By Priscilla Ratliff, 2009 Chair, Columbus Section



Jeff Trent has been recognized by the ACS Committee on Community Activities for his coordination of the Columbus Section activities related to *Chemists Celebrate Earth Day* (CCED). 2008 marked the fifth anniversary of this activity, and Jeff has spearheaded our efforts since its inception. Please join me in congratulating him on this accomplishment and thanking him for his service to the Section and to the community. Thanks also to those members who assisted Jeff over the years.

NOMINATIONS CHAIR POSITION FILLED

By Priscilla Ratliff, Section Chair

You may have noticed when reading the table of Executive Committee Officers and Committee Chairs in the [February 2009 issue of The Chemical Record](#) that the position of Nominations Chair was listed as Open. I am pleased to announce that **Dr. Lewis Hogarth** of Ohio Dominican University (hogarthl@ohiodominican.edu) has accepted this position. Contact him if you are interested in being a candidate for a Section office.

2009 PATTERSON-CRANE AWARD CANCELED

By Priscilla Ratliff, 2009 Chair

We have received word from Dr. Ray Dudek, Chairman of the Patterson-Crane Award Committee that the biennial Patterson-Crane Award, jointly sponsored by the Columbus and Dayton Sections, has been canceled this year. Citing a lack of response to the Call for Nominations Dr. Dudek indicated that there were not enough nominations to make a competitive selection. The Dayton Section will issue the Call for Nominations again in 2010 when they will host the Central Regional Meeting. The award dinner and presentation will then be part of the Central Regional Meeting. The Patterson-Crane Award was last given in Columbus in 2007 to Dr. Gary Wiggins of Indiana University.

REPORT FROM 237TH ACS NATIONAL MEETING, MARCH 22-26, 2009

By Theresa Huston, Section Councilor

ACTIONS OF THE COUNCIL

Election Results

- The Committee on Nominations and Elections presented to the Council the following nominees for selection as candidates for President-Elect, 2010: Berkeley W. Cue, Jr., Nancy B. Jackson, Cheryl A. Martin, and Dorothy J. Phillips. By electronic ballot, the Council selected Nancy B. Jackson and Cheryl A. Martin as candidates for 2010 President-Elect. These two candidates, along with any candidates selected via petitions, will stand for election in the Fall National Election.

Petition to Amend Bylaws

(For Consideration)

- The Council received one petition for consideration: the Petition on Election Timelines 2009. According to the proposing committee, this petition presents election procedure refinements that are intended to provide a fair, consistent, and equitable process, which balances the concerns and needs of participants, as requested by Councilors and candidates. Action is expected on the petition at the fall Council meeting.

The Society's Finances

- The Council and Board of Directors received extensive briefings on the Society's finances, which showed that in spite of the economic challenges faced in 2008, the Society's operating performance held up well. Total revenue was approximately \$450 million, up just over 3% from 2007. The Society's Net from Operations was \$9.7 million, and \$560,000 favorable to budget. This is the fifth consecutive year of positive operating results.

However, in 2008 ACS was adversely impacted by the historic collapse in the capital markets, which resulted in a sharp decline in the Society's unrestricted net assets from \$212 million at December 31, 2007, to \$60 million at December 31, 2008. There were two factors driving this decrease, both related to the poor performance in the capital markets. These are substantial investment losses and a sizable increase in pension liability from the Society's Defined Benefit Pension Plan. For this and other reasons, action was taken in 2007 to close the Defined Benefit Pension Plan, and, in 2008, to freeze benefit accruals for all Defined Benefit Pension Plan participants in 2009.

It is in this context that the Board received a detailed briefing from management at this meeting on the framework of the 2009 Contingency Plan. In 2006, the Society had the foresight to develop a robust Contingency Plan that contemplated potential threats from many different sources, their probability of occurrence, likely duration and financial impact. The updated 2009 Plan covers all operating and administrative units as well as member programs, and identifies new and emerging threats. ACS management has also updated the mitigation strategies to respond to the threats and ensure the Society's long-term financial sustainability.

Society management and the Board of Directors are closely monitoring financial performance versus the budget. In addition, significant reductions in discretionary spending have already been implemented and additional cost control measures are under consideration. However, despite the adverse impact of the economic downturn, the Society remains highly liquid with more than \$275 million in cash and investments, and limited debt of \$30 million.

2010 Member Dues

- After a lengthy discussion and rejection of two amendments, the Council VOTED to set the member dues for 2010 at the fully escalated rate of \$145. This rate is established pursuant to an inflation-adjustment formula in the ACS Constitution and Bylaws. The vote was 348 to 70.

Member Statistics

- At the close of 2008, Society membership totaled 154,024, compared to 160,052 for year-end 2007. In 2008, ACS completed the transition of its 15 year-old membership fulfillment system to a new, more robust system. The year-end 2008 membership numbers reflect a drop in membership of approximately 2% due to the economy and a correction to the counts of 2,589 Emeritus members whom ACS has not been able to reach for many years. Compared to its sister societies, ACS experienced a smaller loss of members in 2008.

Attendance Report

- As of March 25, 2009, the ACS spring national meeting had attracted 10,668 registrants as follows: Regular attendees 5,781; Students 3,439; Exhibitors 780; Exposition only 411; and Guests 257.

Professional Employment Guidelines

- The Council VOTED to approve the Professional Employment Guidelines, as submitted by the Committee on Economic and Professional Affairs. These guidelines offer a broad spectrum of recommended practices in employment for professional scientists and their employers.

TAKE OUR DAUGHTERS AND SONS TO WORK DAY

On Thursday April 23rd, 2009 workers across America will bring their school-aged children to work. Many employers plan programs to give children a glimpse into the world of work. And it isn't unusual for chemists to be asked to present demonstrations and hands-on activities. These science sessions can easily become the most popular part of the program!

If you have been asked to present activities or if you would like to make sure that science is a part of the program at your workplace, turn to ACS education resources.

Make Your Own Science Activity Kit

Each kit contains all the materials needed to present a one-hour hands-on science lesson for up to 32 students. Go online to www.acs.org/outreach, "Volunteer with Kids & Chemistry" and then click on "Make Your Own Science Activity Kit"

to see the options and for more information. Choose from *Jiggle Gels*, *Chemistry's Rainbow*, or *What's New, CO₂?* and present an exciting and educational set of activities the kids will love. Kits are available for \$40 each and contain most everything you will need. Chemists with access to dropper bottles, the necessary chemicals, and a photocopier can put kits together on their own.

Contact the National ACS Kids & Chemistry staff at kids@acs.org for additional help planning hands-on science activities for kids.



STATE SCIENCE DAY
By Bob Kroshefsky

Volunteers are still needed to serve as judges for State Science Day on Saturday morning, May 9th, at French Field House on the Ohio State University campus. Please see article in the February issue of *The Chemical Record* for details and contact **Bob Kroshefsky** at bobkro@embarqmail.com or 937-707-9276 if you would like to volunteer.



NATIONAL CHEMISTRY WEEK 2009

National Chemistry Week will be observed October 18-24, 2009, with the theme, *Chemistry, It's Elemental*. Volunteers are needed to perform hands-on chemistry demonstrations for children of all ages at the Main Branch of the Columbus Metropolitan Library, 96 South Grant Avenue, on Saturday, October 24, 2009. No previous experience is required; we will provide everything you need and show you how to perform the demonstrations on the day of the event. Please contact **Professor John Blaha** at 614.287.5930 or jblaha@csc.edu for more details.

CERMACS

Central Regional Meeting of the American Chemical Society

Cleveland, Ohio



American
Chemical
Society

May 20-23, 2009

CENTRAL REGIONAL MEETING PLANS 100TH ANNIVERSARY CELEBRATION

The 2009 Central Regional Meeting (May 20–23, Cleveland) will hold a welcome reception/celebration for the 100th anniversary of the Cleveland Local Section, host of the meeting. There is no charge to attend, but members are encouraged to select the event on the advance registration form, available at their web site, www.cermacs2009.org. The deadline for advance registration is May 1.

Programming has been planned around the theme “Meeting Energy & Environmental Challenges through Functional Materials,” with symposia to include Energy Storage and Energy Conversion, Functional Materials, General Catalysis, Women in Electrochemistry, and Art and Science. The meeting will be held at the beautiful and historic Renaissance

Hotel in the center of downtown Cleveland. Attendees are urged to make their room reservations early to take advantage of the special meeting rate. Call them at 1-800-HOTELS-1 and refer to the meeting code ACSACSA to receive the discount.

SYNTHETIC ORGANIC CHEMISTRY -- IT'S ALL ABOUT THE MONEY

By analyzing the framework of more than 24 million organic compounds in the Chemical Abstracts Registry system, scientists at CAS have discovered that half of the compounds registered can be described by only 143 molecular shapes. The distribution conforms almost exactly to a power law. This suggests that the more often a framework has been used as the basis for a compound, the more likely it is to be used in another compound. Their conclusion is that this power law is evidence that minimizing the cost of synthesis has been a key factor in shaping the known universe of organic chemistry. Read the complete article in *J. Org. Chem.*, **2008**, 73 (12), pp 4443–4451 or online at <http://pubs.acs.org/doi/abs/10.1021/jo8001276>.



Act4Chemistry.org
American Chemical Society Legislative Action Network

“ACT 4 CHEMISTRY”
By Bradley R. Smith, Manager,
act4chemistry.org

Our grassroots website, act4chemistry.org has been a remarkably effective platform for ACS members to "Speak for Science" through providing current news, commentary, and an easy way to send electronic messages to elected officials, since its introduction just 15 months ago.

Additional resources are now becoming available that can further help ACS members "Speak for Science" and communicate with lawmakers. First is the [ACS Network](#) with its Speaking for Science forum. Second is the [ACS Leadership Development System](#) course titled Developing Communication Strategies.

The ACS Network provides a new channel for you to extend your science "community" beyond meetings, outreach activities, and publications. It allows you to collaborate and network with your colleagues. Already on the Speaking for Science forum there has been a discussion on the stimulus bill, FY 09 spending billing, success stories, and communicating tips.

The ACS Leadership Development System is a comprehensive leadership curriculum that provides you with practical courses to advance your career. In addition, the Developing Communication Strategies course will help you communicate with elected officials by teaching you how to skillfully communicate new insights, keep others informed, report on new endeavors, and communicate in an interesting and compelling manner.

[Act4chemistry.org](#) is also on Facebook; [click here to become a fan](#). Also check out our Speaking for Science video [here](#). Please join us in the months ahead as we provide you with more tools to help you better speak for science.

ACS OFFERS SPECIAL BENEFITS FOR UNEMPLOYED MEMBERS

During these tough economic times it's more important than ever to belong to the American Chemical Society. Unemployed members can tap into a host of valuable benefits and services that help them get back in the workforce. And, members in good standing may qualify for an [unemployed member dues waiver](#), allowing them to renew their memberships and keep their member benefits at no cost. Contact ACS at service@acs.org, 800-333-9511 or 614-447-3671 for complete details.

Other valuable benefits that help ACS member get back in the workforce include

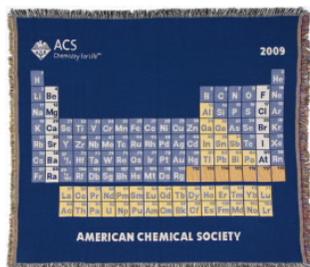
- Free registration at ACS National Meetings and registration fees at Regional Meetings of just \$25. Meetings offer ACS Career Fairs with on-site interviews.
- Special discounts for ACS/Harvard courses, ACS ProSpectives and Short Courses, and the ACS Leadership Development System.
- Membership in the ACS Network, your online resource to connect and communicate with friends, colleagues, and potential employers.
- Free Guidance from ACS Career Consultants – ACS mentors offer resume reviews, job search strategies, and interview tips that make you stand out from the rest.
- Free access to InterviewStream, an online tool that will sharpen your interview skills.
- Members-only access to the ACS Salary comparator.
- And more!

Contact ACS customer service today at service@acs.org, 800-333-9511 or 614-447-3671 today and let us know how we can help.

2009 “MEMBER GET A MEMBER” CAMPAIGN *Contributed by Priscilla Ratliff, 2009 Chair*

Recently you may have received a letter from **Debora J. Fillinich** of the ACS Division of Membership and Scientific Advancement announcing the 2009 Member-Get-A Member Campaign. The national goal is 1000 new members. The Columbus Section needs 20 new members this year just to maintain our 2008 membership level.

Remind your colleagues of the benefits that come with membership: networking, full online access to *Chemical and Engineering News*, discounts on ACS books and journals, discounts on registrations to ACS national and regional meetings, computer and travel discounts, career consultation, continuing technical education, leadership development training and much more.



And last but not least you will be rewarded for your recruitment efforts! Once a Nominee has been accepted for membership and has paid his/her dues, the Nominator will be shipped a 100% cotton Throw depicting the Periodic Table of the Elements. See the Web site www.acs.org/memberGetMember for nomination guidelines, deadlines, and official forms, which must be used to receive your gift. (The Throw is exclusive to the Member-Get-A-Member campaign and can not be purchased.)

COLUMBUS SECTION ACS CALENDAR OF EVENTS

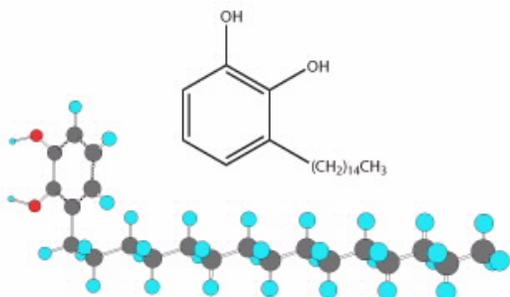
2009	April	14	Tue	Deadline for reservations for April, 2009 Section meeting.	
2009	April	20	Mon	Chemical Abstracts Service	Monthly Section meeting with Rudy Baum , Editor-in-Chief of <i>Chemical and Engineering News</i> . See details elsewhere in this issue of <i>The Chemical Record</i> .
2009	April	22	Wed	Here, There, Everywhere!	 Chemists Celebrate Earth Day: <i>Air—The Sky's the Limit.</i>

COLUMBUS SECTION ACS CALENDAR OF EVENTS

2009	May	9	Sat	French Field House, OSU		<i>State Science Day.</i> Judges are desperately needed; see article in the February issue of <i>The Chemical Record</i> and contact Bob Kroshefsky at bobkro@embarqmail.com or 937-707-9276 for details.
2009	May	20-23		Cleveland		CERMACS Central Regional Meeting of the American Chemical Society Cleveland, Ohio May 20-23, 2009
2009	August	16-20	Sun-Thu	Washington, DC	238 th ACS National Meeting and Exposition	
2009	October	18-24	Sun-Sat	Here, There, Everywhere!		National Chemistry Week: <i>Chemistry--It's Elemental!</i>
2009	October	23	Fri			6:02 AM – 6:02 PM: International Mole Day, in honor of Avogadro's Number. This year's theme is <i>Molar Express</i> .
2009	October	20	Tue	Chemical Abstracts Service	Monthly Section meeting with Professor Joseph Francisco , President-Elect of ACS.	
2009	October	24	Sat	Columbus Metropolitan Library Main Branch, 96 South Grant Avenue	National Chemistry Week "chemonstrations." Volunteers are needed; please contact Professor John Blaha at 614.287.5930 or jblaha@cscce.edu for more details.	
2010	March	21-25	Sun-Thu	San Francisco, CA	239 th ACS National Meeting and Exposition	
2010	August	22-26	Sun-Thu	Boston, MA	240 th 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			6:02 AM – 6:02 PM: International Mole Day, in honor of Avogadro's Number.
2011	Jan-Dec					<i>International Year of Chemistry.</i> See details in the March, 2009 issue of <i>The Chemical Record</i> .

CHEMISTRY BUMPER STICKERS...

It takes alkynes to make a world. ♦ Remember, if you're not part of the solution, you're part of the precipitate! ♦ Chemistry is really funny; there are even people who laugh at Nitrogen(I)Oxide. ♦ Chemistry is just like cooking, but don't lick the spoon! ♦ Lab rule #19: Hot glass looks EXACTLY like cold glass.



MOLECULE OF THE MONTH

Urushiol

Beware of contact with urushiol as you pursue outdoor activities this summer. It is the primary component of the irritant oil of poison ivy and poison oak and is an extremely active allergen. Urushiol is actually a mixture of several compounds (the smallest is shown here.)

[Get more information on this molecule](#) from CAS (Chemical Abstracts Service)

PLEASE SUPPORT OUR SPONSOR...

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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. 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. 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** (sarenner@gmail.com) and **Maria Rosenthal** (mrosenthal@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)