



The Chemical Record

Volume 48, Number 7 - November, 2006

Columbus Section of the American Chemical Society, Inc.

George W. Greene, Editor -- Tom Weeks, Section Chair

www.acscolumbus.org -- chemicalrecord@yahoo.com

The American Chemical Society

Improving people's lives through the transforming power of chemistry.

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REMINDER: Be sure to vote in National and Local ACS Elections

Be sure to SIGN and give return address on your postage-paid return envelope as directed in the instructions.

MEETING NOTICE

COLUMBUS SECTION OF THE AMERICAN CHEMICAL SOCIETY, INC.

<http://www.acscolumbus.org>

Tuesday, Nov. 14, 2006

Acetoacetates: Old Chemistries, New Applications
Tom Moy, PhD, Principal Scientist Ashland, Inc.

Ashland Inc.
5200 Blazer Parkway
Dublin, OH

We thank Ashland, Inc. for subsidizing the student dinners!



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4:30- 5:30 PM	Tour of Tech East (Bldg 4). Thermoset plastics processing labs and pilot plant. Bldg 4 is on the far right of the Ashland complex when one enters the complex.
5:00 – 5:45 PM	Executive Committee Mtg (open to all members) Room 1A (lower level) Bldg 2 (flagpoles in front)
5:30 – 6:15 PM	Reception and poster session. Sign in first floor Bldg 2 (with flagpoles), move downstairs
6:15 – 7:00 PM	Buffet Dinner including tossed salad, honey dijon chicken, twice baked potatoes, vegetable lasagna, rolls, mixed vegetables, assorted desserts, soft drinks, coffee, tea
7:00 – 8:00	Program: Dr. Tom Moy Acetoacetates: Old Chemistries, New Applications
Cost	Members and nonmembers \$20.00 Retired and Unemployed members \$18.00 Students \$5.00 Payment will be collected at the door; cash and checks accepted.
Reservations	Please use the voice mail reservations service by calling 614-447-3600 extension 7047. Follow template for reservations*. Alternatively, please send e-mail to The Columbus Section at the following e-address: acscols@cas.org
*Voicemail/e-mail Reservations Template	<ul style="list-style-type: none">• First and last name: please spell last name.• Membership category: member, retired, emeritus, unemployed, student, non-member, other.• Tour or No Tour• Employer• Your phone number, in case we need to contact you.• If you intend to come to the Executive committee meeting, please state so to allow early entry.• There is no lecture only option
Reservations Deadline	5 pm, Thurs. Nov. 9
Program Contact	Tom Weeks 614 486 2114 tomweeks@aol.com
Security Note	All visitors must be pre-registered and will be checked in at Tech East (Bldg 4) if taking tour and/or at Bldg 2 on the first floor if attending reception/dinner. All payments will be made in Bldg 2. Attendees should arrive no later than 6:15 pm. If you plan on attending the Executive Committee meeting, please state in the above template and meet in the lobby no later than 5 pm. All attendees must check out upon leaving.

About the Topic

Acetoacetates and other active methylene compounds are capable of a broad array of synthetically useful reactions to produce a variety of products. Although reactions involving acetoacetates and other active methylene compounds have been known for quite some time, reports describing their use in polymerizations or crosslinking reactions have mostly been published during the last thirty years. The Michael Reaction is perhaps the best known of these and can offer rapid, high-yield, ambient temperature reactions. A variety



of polymers may be functionalized with acetoacetate groups, for example, polyethers, polyesters, polyurethanes and acrylics, and the form of the final product may be an emulsion, solvent borne or 100% reactive formulation. Reported applications include coatings, adhesives and dental resins. This presentation will describe some of Ashland's recent efforts to utilize acetoacetate chemistries in the development of safe, robust and innovative products.

About the Speaker

Tom Moy received his Ph.D. in Chemistry from Virginia Polytechnic Institute & State University in Blacksburg, Virginia, in 1993 and joined Ashland shortly thereafter. His career with Ashland has allowed him the opportunity to conduct research in various areas such as foundry sand binders, pressure sensitive adhesives, composites and UV-curable resins. Tom is currently a Principal Scientist in the New Technology Solutions Group.

Directions

Blazer Parkway cuts the corner of Franz Rd. and Rings Rd and continues across Rings Rd. to Tuttle Crossing. If one enters Blazer Pkwy from the Rings side, the Ashland complex is the first set of buildings on the left. It's the last on the right if entering from Frantz Rd. The tour takes place in Tech East, which has the number 4 at the top of the building. Tour check-in will occur at Tech East. All payment and registration for reception/dinner/lecture will take place in the Administration Building, which has flag poles in front and the number 2 on the top of the building. Check-in is on the first floor, and you must sign out when leaving.

From the west

- Take I-70 E to the I-270 NORTH exit (#93B) toward CLEVELAND (7.0 miles)
- Take the TUTTLE CROSSING BLVD exit (#15) (0.2 miles)
- Go RIGHT on TUTTLE CROSSING (0.1 miles)
- Turn LEFT onto BLAZER PKWY. (0.8 miles)
- Cross Rings Rd. and buildings are on your left off of Blazer Parkway

From the north

- Take I-71 South to the I-270 WEST exit
- Take I-270 W to EXIT 17 (Dublin/Route 33 East)
- Turn RIGHT on FRANTZ RD.
- Turn RIGHT on BLAZER PARKWAY
- Buildings are on your right as you curve around on Blazer Parkway

From the east

- Take I-70 W to I-270 N
- Take I-270 N to EXIT 17 (Dublin/Route 33 East) 9.6 mi.
- Turn RIGHT on FRANTZ RD.
- Turn RIGHT on BLAZER PARKWAY
- Buildings will be on your right as you curve around on Blazer Parkway



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From the south

- Take I-71 N. to the I-270 exit 0.0 mi.
- Take the I-270 WEST exit on left towards INDIANAPOLIS. 0.4mi
- Keep RIGHT at the fork in the ramp. 0.3
- Keep LEFT at the fork in the ramp. 0.2
- Stay straight to go onto I-270 W. 15.0
- Take the TUTTLE CROSSING BLVD exit 0.4
- Turn RIGHT onto TUTTLE CROSSING BLVD. 0.2
- Turn LEFT onto BLAZER PKWY. 0.5
- Stay in left lane which becomes center lane (thru lane) as you approach traffic light at Rings Rd.
- Cross Rings Rd. and buildings are on your left off of Blazer Parkway

Welcome to our Newest Volunteers!

Cynthia Hummel will be overseeing the Chemistry Olympiad program; she will be relieving **Beth Eddy** who has done a fantastic job over the last 3 years. Cynthia teaches chemistry and advanced placement chemistry at Worthington High School.

Liz Grassel has volunteered to Co-Chair the Younger Chemists Committee with **Andrea Arnett**. Liz works at KForce, Inc which is a technical recruiting firm.

A Science Cafe in Columbus?

National ACS is supporting the development of science cafes with mini-grants. These cafes have provided an opportunity for people to learn about topical science issues in a casual environment. They also allow members of the technical community to get together. The concept is explained below. If you are interested in starting a cafe in Columbus, contact **Tom Weeks** at tomweeks@aol.com.

Dear Local Section Officer:

I would like to take this opportunity to introduce an exciting new concept for a local section activity; the Science Cafe. The Science Café concept which originated in Leeds, England in 1998 is designed to give scientists and non-scientists the opportunity gather in an informal environment (cafes, bars, museums, galleries, bookstores, etc.) to discuss the latest scientific topics.

During the 2006 ACS national meeting in San Francisco, CA, the American Chemical Society (ACS) co-sponsored a Science Café with the Ask a Scientist group to increase the public's understanding of hydrogen fuel cells. The science café, which was held in local coffeehouse was attended by over 30 ACS members and 60 members of the public. The cafe featured a short video clip, a formal presentation and a robust dialog between scientist and members of the public.

PBS's NOVA scienceNOW, based at WGBH in Boston, which has helped spark the growing Science Café movement and is an active partner supporting Cafés throughout the country. scienceNow, a popular television show, features short video segments on current science issues that can be used to get everyone at a Science



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Café involved and interested in a topic. There are currently over 25 NOVA scienceNOW segments available (<http://www.pbs.org/wgbh/nova/sciencenow/>) ACS local sections may request these segments, available on DVD and video, at no charge.

Check out the scienceNow website for information on how to organize a Science Café and to get other helpful resources, including a sample press release, a guide for working with the media, and a customizable handout that you can give to Café participants (<http://www.pbs.org/wgbh/nova/sciencenow/involved/cafe-host.html>). NOVA scienceNOW can also help you identify local partners that may assist with promotion and finding a speaker. They can also keep you connected to their network of Café organizers, and share the latest ideas and innovations for the café format.

To support your efforts, the Local Section Activities Committee (LSAC) has identified seed money (a limited number of \$500 mini-grants are available) to assist sections with hosting a Science Café(s) before the end of 2007. Minigrant funds can be used to support speaker travel, for advertising and promotion or to help offset other cost associated with the hosting the Science Café. If your section is interested in hosting a Science Café, please submit request for funding request

ACS GCI Pharmaceutical Roundtable Research Grant Request for Proposals

Application Deadline: November 10, 2006

Awards Announced: December 8, 2006

For information: www.greenchemistryinstitute.org

Email: gcipr@acs.org

The Roundtable's mission is to catalyze the implementation of green chemistry and green engineering in the global pharmaceutical industry. Membership is open to all pharmaceutical research, development, and manufacturing companies. The Roundtable will be strongest when all global pharmaceutical corporations are members. www.chemistry.org/portal/a/c/s/1/acdisplay.html?DOC=greenchemistryinstitute\industry\gcipr.html

2008 Central Regional ACS Meeting Coming to Columbus

The 2008 meeting of the Central Region of the American Chemical Society will be held in Columbus, sponsored by Ohio State University and the Columbus Section of ACS. Contact **Jimmy Cowan**, cowan@chemistry.ohio-state.edu, if you would like to help organize the meeting.

Call for Papers for 2007 Annual Meeting of The Ohio Academy of Science

Theme: Ohio Institutes as Research Centers for Emerging Energy Technologies

By Lynn Elfner

This is a reminder that the deadline for abstracts for our April 21, 2007, Annual Meeting, hosted by the Eastern Campus of Cuyahoga Community College, is November 6, 2006. The *Call for Papers* is online at <http://www.ohiosci.org/CFP2007.pdf>



About the Annual Meeting

The Ohio Academy of Science's Annual Meeting is for academic, governmental, and industrial scientists and engineers, university and pre-college educators, and pre-college, undergraduate, and graduate students, and interested lay citizens in the Ohio region. Annually workshops, symposia, an All-Academy Lecture, and field trips on local geology and plant sciences compliment the several hundred scientific presentations. Approximately 600 people attend the meeting.

Call for Papers

Whatever your scientific interests this *Call for Papers* is your invitation to participate in the 116th Annual Meeting of The Ohio Academy of Science to be hosted by Cuyahoga Community College Eastern campus on April 20-22, 2007. Poster and podium sessions will be on Saturday, April 21. Two basic options are available to present papers:

- Professionals, college students of all levels, and pre-college students who have completed research may submit an **abstract**;
- College undergraduates only, may submit an **Undergraduate Research-in-Progress Summary**. Undergraduates also may submit an abstract if research *results* are included.

All abstracts and summaries will be peer-reviewed. Acceptable abstracts and summaries will be published in the Program Abstracts issue of *The Ohio Journal of Science* to assure that researchers across Ohio, elsewhere in the United States, and in dozens of foreign countries will have access to your work. The Journal also will publish Undergraduate Research-in-Progress Summaries.

Symposia, workshops and field trips may be arranged by special permission. Research papers are welcome in ALL FIELDS of science, engineering, technology, education and their applications.

For additional information, please contact
Mr. Lynn E. Elfner, CEO
The Ohio Academy of Science www.ohiosci.org
1500 W. 3rd Avenue, Suite 228 -- Columbus, Ohio 43212-2817
Office: 614-488-2228 -- FAX: 614-488-7629
Email Address - oas@iwaynet.net

Help Wanted

The Department of Chemistry and Biochemistry at Denison University has an opening for a part-time temporary position in the spring of 2007 (January to mid-May 2007) to teach one section of General Chemistry II with an associated laboratory. A Ph.D. is preferred but candidates nearing the end of their doctoral studies will be considered.

Please contact **Jordan Fantini**, Chair, Department of Chemistry and Biochemistry, Denison University, Granville, OH 43023 for more information. Applicants will be considered on a rolling basis (starting September 15) until the position is filled. Contact by email at fantinij@denison.edu or telephone at 740-587-6491.



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Columbus Section ACS Calendar of Events

Compiled by Maria Rosenthal, Jodie Harper, Tom Weeks, and George Greene

2006	November	14	Tue	Ashland, Inc., Dublin, OH	Section Meeting with travel awards for college students
2006	December	12	Tue	Nationwide Arena	Joint meeting with Columbus Section of AIChE: Tour of the arena, home of the NHL Columbus Blue Jackets, and discussion of the operation of the ice chillers, followed by dinner at Buca di Beppo.
2007	March	25-29	Sun – Thu	Chicago	233 rd ACS National Meeting.
2007	May	5	Sat	OSU	State Science Day 2007
2007	August	19-23	Sun – Thu	Boston	234 th ACS National Meeting.
2007	October	21-27	Sun – Sat	Here, There, Everywhere!	National Chemistry Week. <i>The Many Faces of Chemistry</i>
2008	June	TBA	TBA	Columbus	Central Regional Section ACS Meeting, sponsored by Columbus Section and The Ohio State University (Contact: Jimmy Cowan, cowan@chemistry.ohio-state.edu)
2008	October	19-25	Sat – Sun	Here, There, Everywhere!	National Chemistry Week. <i>Chemistry and 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, 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. 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 (srenner@cas.org) and Maria Rosenthal (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)



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