



# The Chemical Record

Volume 52, Number 3 – April, 2010

Columbus Section of the American Chemical Society, Inc.

Steven Rosenthal, Section Chair

George Greene, Editor [george.greene@abbott.com](mailto:george.greene@abbott.com)

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

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### MEETING NOTICE

Columbus Section of the American Chemical Society, Inc.

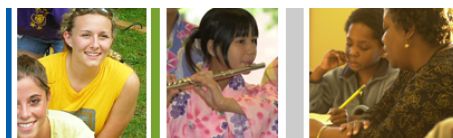
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**Program: *Biobased Building Materials: Opportunities for Novel Chemical Innovations***

Shannon Hollis, Program Director  
Ohio BioProducts Innovation Center (OBIC)  
The Ohio State University

**Monday, April 26, 2010**

Nationwide & Ohio Farm Bureau 4-H Center  
The Ohio State University  
2201 Fred Taylor Drive  
Columbus, OH 43210  
[www.ohio4-hcenter.org/](http://www.ohio4-hcenter.org/)



Nationwide & Ohio Farm Bureau  
**4-H Center**  
Ohio 4-H Youth Development



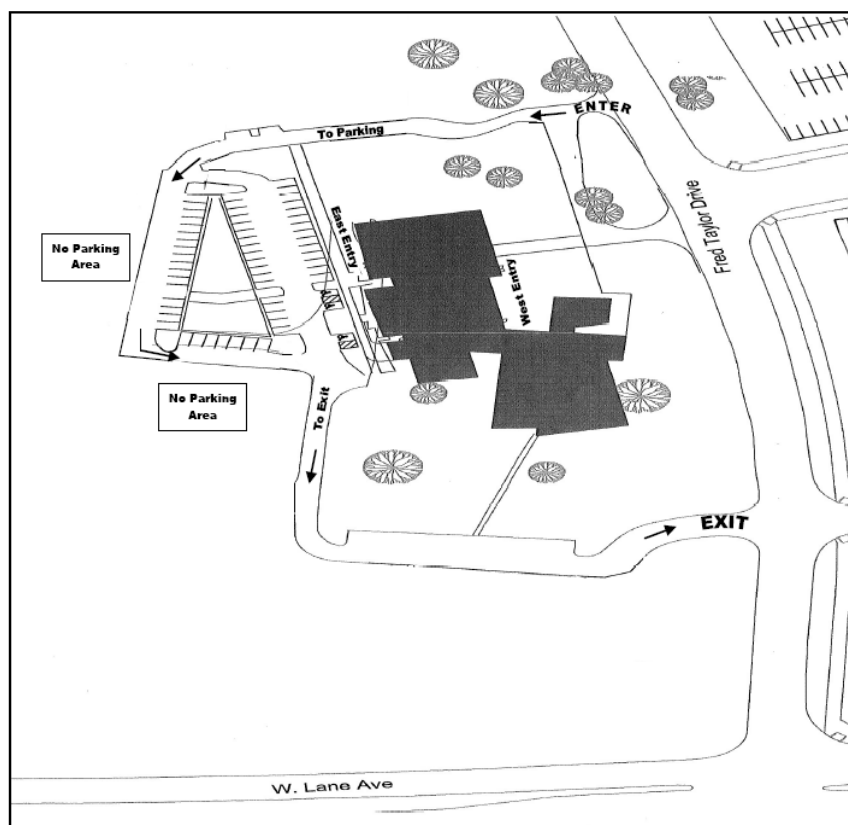
5:00-6:00PM	Executive Committee Meeting (open to all members)
5:15 PM	Guided tours will be offered of the LEED-certified Nationwide & Ohio Farm Bureau 4-H Center. The tour lasts approximately 30 minutes and will start at 5:15p.m. Please confirm that you want a tour. Self-guided tours are also available.
6:00-6:45 PM	Reception: Fruit and Cheese
6:45-7:30 PM Dinner	Buffet: Garden Salad, SB Chicken Parmesan, Herbed Penne, House baked cookies, Starbucks Coffee Service & Gourmet Teas
7:30-8:30 PM Program	<i>Biobased Building Materials: Opportunities for Novel Chemical Innovations</i>
Cost	\$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>Remember that this is a dinner order and must be paid. Please help control costs by honoring your order.</b> There is no charge to attend the program only.
RSVP	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> or use the Meeting Reservation form on the web site <a href="http://columbus.sites.acs.org">http://columbus.sites.acs.org</a> .
*Voicemail/e-mail Reservations Template	<ul style="list-style-type: none"> <li>• First and last name: Please spell last name.</li> <li>• Membership category: member, non-member, retired, emeritus, unemployed, student, other.</li> <li>• Employer or college/university.</li> <li>• Whether or not you will be taking a guided tour of the LEED-certified Nationwide &amp; Ohio Farm Bureau 4-H Center</li> <li>• Your phone number, in case we need to contact you.</li> </ul>
Reservation Deadline	<b>Tuesday, April 20, 2010 at noon.</b>
Program Contact	Steven N. Rosenthal 614-447-3600, ext 2070, <a href="mailto:srosenthal@cas.org">srosenthal@cas.org</a>
Directions	<p>The Nationwide &amp; Ohio Farm Bureau 4-H Center is located on the west side of Fred Taylor Drive, just north of Lane Avenue. We will be meeting in the Bob Evans Auditorium A.</p> <p><i>From the East &amp; Port Columbus International Airport</i></p> <ol style="list-style-type: none"> <li>1. Take 670 West to State Route 315 North.</li> <li>2. Follow State Route 315 North to the Lane Avenue exit.</li> <li>3. Go East (right) on Lane Avenue.</li> <li>4. Take Lane Avenue to Fred Taylor Drive (first traffic light east of 315).</li> <li>5. Turn North (left) onto Fred Taylor Drive.</li> <li>6. The 4-H Center is the first building on the West (left) side of Fred Taylor Drive across from the Schottenstein Center.</li> </ol> <p><i>From the North</i></p> <ol style="list-style-type: none"> <li>1. Take either I-71 South or US Route 23 South to I-270 West.</li> <li>2. Take I-270 West to State Route 315 South.</li> <li>3. Follow State Route 315 South to the Lane Avenue exit.</li> <li>4. Go East (left) on Lane Avenue.</li> <li>5. Take Lane Avenue to Fred Taylor Drive (first traffic light east of 315).</li> <li>6. Turn North (left) onto Fred Taylor Drive.</li> <li>7. The 4-H Center is the first building on the West (left) side of Fred Taylor Drive across from the Schottenstein Center</li> </ol> <p><i>From the South</i></p> <ol style="list-style-type: none"> <li>1. Take I-71 North to State Route 315 North.</li> <li>2. Follow State Route 315 North to the Lane Avenue exit.</li> <li>3. Go East (right) on Lane Avenue.</li> <li>4. Take Lane Avenue to Fred Taylor Drive (first traffic light east of 315).</li> <li>5. Turn North (left) onto Fred Taylor Drive.</li> <li>6. The 4-H Center is the first building on the West (left) side of Fred Taylor Drive across from the Schottenstein Center.</li> </ol>

*From the West*

1. Take I-70 East to State Route 315 North.
2. Follow State Route 315 North to the Lane Avenue exit.
3. Go East (right) on Lane Avenue.
4. Take Lane Avenue to Fred Taylor Drive (first traffic light east of 315).
5. Turn North (left) on to Fred Taylor Drive.
6. The 4-H Center is the first building on the West (left) side of Fred Taylor Drive across from the Schottenstein Center.

*Parking*

1. Parking is available at the 4-H Center and in lots across Fred Taylor Drive (east side).
2. The 4-H Center lot has 57 available parking spaces and 3 handicap spaces.
3. Please make sure you completely understand OSU parking restrictions and availability including other events that may be scheduled in the facility and at nearby venues.
4. Park only on pavement and in designated spaces. No parking on grass, gravel road or in gated area of arboretum grounds.
5. One way only entry at the north driveway and one way exit by use of the south exit.
6. Please use the east circular drive for drop off and pick up only. No parking on this drive.



**NATIONWIDE AND OHIO FARM BUREAU 4-H CENTER PARKING**

- Parking is available at the 4-H Center and in lots across Fred Taylor Drive (east side).
- The 4-H Center lot has 57 available parking spaces and 3 handicap spaces.
- Please make sure you completely understand OSU parking restrictions and availability including other events that may be scheduled in the facility and at nearby venues.
- Park only on pavement and in designated spaces.
- No parking on grass, gravel road or in gated area of arboretum grounds.
- One way only entry at the north driveway and one way exit at the south exit.
- Please use the east circular drive for drop off and pick up only. No parking on this drive.

## ABOUT THE SPEAKERS

**Shannon Hollis**, Program Director, Ohio BioProducts Innovation Center, The Ohio State University,

Shannon currently is a Program Director at the Ohio BioProducts Innovation Center. She received a BA in Chemistry from Miami University and a MBA from Capital University. She recently co-led a material flow/techno-economic analysis study on the use of soy-based polyols in polyurethane foams, and a market study of homeowners and architects on sustainable building practices.

Prior to joining OBIC, Shannon held several positions in R&D at The Scotts Company. She has extensive process and formulations experience in the development of consumer lawn and garden products.

The Ohio BioProducts Innovation Center was created by the Ohio Third Frontier and is headquartered at The Ohio State University in the College of Food, Agriculture and Environmental Sciences. OBIC integrates academia and industry toward the development and commercialization of renewable specialty chemicals, polymers/plastics and advanced materials.

### INDUSTRY PANEL:

**Jeff Cafmeyer**, Senior Research Scientist, Battelle Memorial Institute

Jeff Cafmeyer is a Senior Research Scientist at Battelle Memorial Institute. Jeff received a M.S. in Polymer Science & Engineering from the University of Massachusetts-Amherst and B.S. in Chemistry from Rensselaer Polytechnic Institute.

At Battelle, Jeff is involved in polymer research as part of the Advanced Materials and Process Engineering group. A particular focus of this research has been on the development of biobased products from agricultural feedstocks such as corn and soybeans. The research has resulted in a wide variety of products such as lubricants, plasticizers, adhesives, and resins for toners and powder coatings. The research group is actively involved in developing and commercializing a technology to convert vegetable oils into polyols, which are used in the manufacture of polyurethane products such as flexible and rigid foams, coatings, adhesives, sealants and elastomers.

**Tom Fontana**, Director of New Use Development, Ohio Soybean Council

Tom Fontana is the Director of New Use Development for the Ohio Soybean Council. Tom brings with him over 25 years of professional experience in sales, finance, project management and public relations. As Director of New Use Development, Tom is responsible for the development of annual and long-term plans and budgets for the production research, food and industrial initiatives and management of new use development activities in the area of consumer and industrial products.

Tom received his B.A. from The Ohio State University, his M.B.A. from Xavier University and began his career as a program and budget analyst for the U.S. Army Material Development and Readiness Command and as budget specialist for Battelle Memorial Institute. He later served as the director of franchise sales and development for Wendy's International, Inc in Dublin, Ohio. From 1989 to 1992, Tom was the general manager of Ameriflora '92. He has since worked in the franchise food industry and owned his own printing/ad specialty business.

**Prabhat Krishnaswamy**, President, NFCC; Vice President, Engineering Mechanics of Columbus

Prabhat Krishnaswamy has a Ph.D. in Mechanical Engineering from the University of Washington, Seattle and currently is President of the Natural Fiber Composites Corporation (NFCC). He has been Vice President of Engineering Mechanics Corporation of Columbus (Emc2) since 1998 where he invented a new technology for natural fiber reinforced plastics. Over the last 10 years, Prabhat has led the technology development and worldwide standards activities in the area of thermoplastic composite lumber.

Prior to joining Emc2, Prabhat worked as a Senior Research Scientist at Battelle. He was the Principal Investigator and Program Manager for many research programs within the Engineering Mechanics Department and the Advanced Materials Group. Most of the programs were in the field of structural mechanics and advanced polymeric and composites materials.

**Bob Moffit**, Product Manager, Ashland Performance Materials

Bob Moffit has worked for Ashland since 1994 in a variety of roles, all within the Ashland Performance Materials composites business group. He is currently the product manager for ENVIREZ, a family of bio-based polyester resins and has held positions in Ashland's field technical service group and quality management. His experience also includes seven years of process and project engineering in one of Ashland's polyester and vinyl ester resin production facilities. Bob holds a bachelor's degree in chemical engineering from Michigan State University.

Ashland Performance Materials supplies thermoset products to a variety of industries, such as transportation, infrastructure, and building & construction. The building and construction products include supply of unsaturated polyester resins (UPR) for use in composite products, such as countertops, shower units, door skins, window lineals, and light panels. There is a significant trend towards "greening" building products, and Ashland is a leader in the industry in the development and commercialization of UPRs which are partially based on renewable and recycle containing materials.

## ABOUT THE TOPIC

### *Biobased Building Materials: Opportunities for Novel Chemical Innovations*

Consumers are increasingly demanding sustainable product options in many consumer goods markets. In response, many leading manufacturers are creating and marketing new green products. A similar trend is growing in the building and construction industry where architects and building designers are being driven to use sustainable materials and methods in order to achieve LEED (Leadership in Energy and Environmental Design) building certification as developed by the U.S. Green Building Council. There is a growing need for more building material with biobased content to help the building industry achieve these credits. Recently, a market study of Ohio's architects and their attitudes toward usage of "sustainable" building products in non-residential construction projects was conducted. An overview of the results as well as opportunities for new product development will be presented. Also, industry experts from Ashland Performance Materials, Battelle, Natural Fiber Composites Corporation (NFCC), and the Ohio Soybean Council will speak on their experience and activity in this field, which includes biobased polyester resins used in composite products such as countertops, the conversion of vegetable oils to polyols used in the manufacture of polyurethane products, and natural fibers as reinforcement in composites used in manufactured products.

## COLUMBUS SECTION FIRST QUARTER REPORT FOR 2010

*By Steven Rosenthal*

This is my attempt to fill you in on what is going on in your local Section. By the time you read this, the record setting snows of the past winter will be gone, the ACS spring national meeting in San Francisco will be over, and it will be spring time with its sunny skies and warmer weather.

The Executive Committee met on January 21, 2010 to discuss and approve this year's budget. At this meeting, we named our Councilors, **Terry Huston**, **Maria Rosenthal** and **Jeff Trent**, as Trustees of the Corporation. I asked the committee to make a donation to the [American Red Cross of Greater Columbus](#) for the victims of the Haitian earthquake. The committee unanimously approved a donation of \$100.

**Karen Irving**, the Chair-elect, attended the Leadership Institute held at Fort Worth, Texas over the weekend of January 22-24, 2010.

We were busy in the beginning of February completing the Columbus Section Annual Report, which was due at the ACS by February 15, 2010, and organizing our monthly meeting. The report was finished and submitted before the filing deadline. Then on Wednesday, February 24, 2010, the Section held its first regular monthly meeting of the year at the Clintonville Woman's Club. **Professor Timothy Buckley**, CIH and chair of the Division of Environmental Health Sciences at The Ohio State University, gave a very interesting talk discussing pollution related to transportation, entitled "Mobile Sources: An Opportunity to Leverage Research Interests to Address Global Challenges of Climate Change, Energy Security, and Public Health." At this meeting we had a successful "bring your own bottle of wine to share" event. Members had a chance to sample a number of different wines. Everyone I spoke with really enjoyed it. Based on the positive response to this event, we should do it again whenever it is possible. We had 38 people registered to attend our meeting. I would also like to thank **Virginia Songstad**, our Alternate Councilor and member of the Clintonville Woman's Club, for her suggestion about sharing the wine and all her help in coordinating the meeting.

The second monthly meeting of the year took place on March 17, 2010 at the Fawcett Center. The speaker was **Dr. Ouliana Ziouzenkova**, an assistant professor of Human Nutrition at The Ohio State University (OSU) College of Education and Human Ecology. The title of the talk was "Nutrigenomics of Longevity." We had 30 people sign up to come to this meeting.



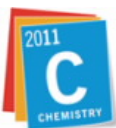
The theme of the ACS 2010 Spring National Meeting in San Francisco (March 21-25) was "Chemistry for a Sustainable World." Click on the embedded link to find out more about the multidisciplinary symposia, programs and events that took place at the Spring Meeting. Members of the Columbus Section participated in various activities and events at the Spring Meeting. The January 25, 2010 issue of *C&E News* had an article entitled "See the Future of Sustainability Through Chemistry" by the ACS Sustainability Stakeholders Steering Group (S3G) which described some of the issues and challenges of sustainability and included an invitation to members to get involved by attending the Sustainability Forum Engagement Event at the Spring Meeting.

Here are some of the upcoming meetings and future events for this year:

- The April meeting on April 26, 2010 at the OSU 4H Center will feature a talk and panel discussion on Sustainable Building Materials;
- Chemists Celebrate Earth Day (CCED) on April 22, 2010 at Franklin Park;
- Saturday, May 8th, State Science Day 2010 will be hosted by The Ohio State University at its French Field House in Columbus;

- The May meeting will be the Columbus Section Award Presentation at Ohio Dominican University;
- National Lab Day will take place during May;
- CERMACS 2010 June 16-19 in Dayton;
- 240th ACS National Meeting in Boston August 22-26;
- National Chemistry Week (NCW) is October 17-23;
- ACS President-elect **Dr. Nancy Jackson** will talk on October 21 at CAS;
- COSI on Wheels and NCW at Columbus Metropolitan Library Main Branch on Saturday, October 23;
- The Festival of Chemistry at COSI October 29-31;
- And a December joint meeting with the AIChE local chapter.

The September and November meetings are being planned.



International Year of  
**CHEMISTRY**  
2011

The International Year of Chemistry (IYC 2011) will be next year. We are planning to kick off IYC 2011 with a New Year's Eve Party as a part of First Night Columbus. We invite chemists everywhere to participate in IYC 2011. IYC 2011 is a year long celebration. Everyone is welcome to participate.

IYC-2011 objectives are:

- Increase the public appreciation of chemistry in meeting world needs
- Increase interest of young people in chemistry
- Generate enthusiasm for the creative future of chemistry
- Celebrate the 100th anniversary of the Mme. Curie Nobel Prize and the 100th anniversary of the founding of the International Association of Chemical Societies

We plan to add IYC 2011 materials to our website. We also look forward to getting your feedback on our plans and activities.

I hope to see you at some of these future meetings. Thank you for your interest and involvement.

Silver

### SILVER CIRCLE NEWS

*By Tom Weeks*

[tomweeks@aol.com](mailto:tomweeks@aol.com)

Silver

Our next Silver Circle meeting will take place Wed, April 14 at Ashland Inc, and will start at 11am. The meeting will include a complimentary lunch from Ashland, a tour of the analytical facilities and a presentation of the types of interesting problems these groups have solved. The meeting will conclude with a tour of several pilot plant facilities and end about 2 pm. A memo will be forthcoming to Silver members shortly.

### UNITED STATES NATIONAL CHEMISTRY OLYMPIAD *By Cynthia Hummel, Section Chemistry Olympiad Chair*

The goals of the United States National Chemistry Olympiad Program are

- To stimulate all young people to achieve excellence in chemistry,
- To recognize outstanding chemistry students and, by doing so to encourage additional learning at a formative time in their intellectual development,
- To recognize the excellent achievement of the teachers of these students and the importance of the school environment in which they learn,
- To promote contact between ACS local sections and area schools and to foster the interest and influence of professional chemists in the teaching of chemistry,
- To foster cross-cultural experiences and to acquaint students with similarities and differences between themselves and their counterparts in other nations, and
- To challenge the chemical knowledge and skills of students in an international arena.

The selection process for students who participate in the National Chemistry Olympiad begins at the local level. Each year chemistry teachers in central Ohio are invited to send any interested students to participate in a local qualifying exam held in March. The 60 question, 110 minute, multiple-choice test is provided by the National program and covers topics typically found in a college general chemistry course. The number of schools in the ACS Columbus Section area that choose to participate in the local qualifying exam varies from year to year but averages fifteen schools and seventy-five total students. Many participating schools form study groups for their teams and spend hours in preparation. In addition to the cost of the exam and certificates for participating teachers and students, ACS Columbus Section provides funding for snacks and beverages for the participating students.

The local exam is graded by the local coordinator and the top eleven students (with no more than two students from each school) are invited to participate in the National Chemistry Olympiad Exam. The number of students who may participate in the National Exam is based on the size of the local section and must be US citizens. The scores are also separated into those from students taking chemistry for the first time and those who are in second-year courses. ACS Columbus Section provides monetary awards of \$100 and \$60 respectively to the first and second place students in both first and second-year chemistry students.

Over a 4-day period in April, the eleven students who go on to take the National Chemistry Olympiad Exam face an extensive 4.5 hour, three-part test: a 90 minute, 60 question, multiple choice exam; a 105 minute, eight question, free response exam; and a 75 minute, two problem, lab practical. ACS Columbus Section provides dinner, snacks and beverages participating for the students and the Section Chair awards students with certificates.

The National Chemistry Olympiad Exam is sent to National headquarters to be graded. Of the over 1000 students who participate in the National Exam, 20 are selected to attend an intensive, two-week study camp in June at the US Air Force Academy in Colorado Springs. The top four performing students from the camp participate in the International Chemistry Olympiad (IChO) held in July at various world venues. Last year, the US had its best showing in years winning 1 gold and 2 silver metals at the IChO held July 18-27 in Cambridge, England.

**EFFECTING POSITIVE CHANGE THROUGH LEADERSHIP:  
BE A WINNER-BE A CANDIDATE FOR A LOCAL SECTION OFFICE  
By Ronald Mitchum, Section Nominating Committee Chair**

Every year we seek candidates for several leadership positions in the local Section. Serving the society as an elected officer brings many rewards such as leadership skills, networking, outside activities and the opportunity to make permanent change for the society as a whole.

The nominating committee is seeking nominees for the following positions, Chair Elect, Treasurer Elect, Secretary, and Councilor. To maintain broad representation of our Section members we seek at least two nominees for each position. I hope you will consider running this year. You can obtain additional information, job descriptions and advice from past office holders by contacting me. The elections are held in November.

If you have any questions give me a call. Thank you.

**Ronald Mitchum**—Nominating Committee Chair  
DAT Laboratory—7715 Corporate Blvd.—Plain City, OH 43064  
Voice 614-873-0710—Fax 614-873-0810—[ronaldmitchum@core.com](mailto:ronaldmitchum@core.com) — [www.datlab.com](http://www.datlab.com)

**PLANNED ACTIVITIES OF THE STATE AND LOCAL GOVERNMENT AFFAIRS COMMITTEE  
By Manfred Lutinger, Section State and Local Government Affairs Chair**

The National ACS is asking the sections to re-institute visits to the offices of local representatives to promote funding of research, especially regarding clean and sustainable energy initiatives and NSF activities. Other federal policy initiatives the ACS is supporting include:

- Improving science, technology, engineering, and math (STEM) education.
- Inclusion of science, along with reading and math, into any educational accountability system.
- \$450 million in funding for the Math and Science Partnership (currently funded at a level of \$180 million).
- Policies that address the underrepresentation of women and minority students in the sciences.

We will explore the availability of our Central Ohio representatives for meetings locally, either in May or over the summer.

*Please let us know, if you are interested in participating in any of these meetings  
[Contact Manfred Lutinger at [rose@qn.net](mailto:rose@qn.net) or 486-3128].*

## 2010 CENTRAL REGIONAL MEETING OF THE ACS ANNOUNCES CALL FOR PAPERS

The Dayton Section of the American Chemical Society invites you to the 2010 Central Regional Meeting of the American Chemical Society (CeRMACS-2010), June 16-19, 2010, at the Dayton Convention Center and Crowne Plaza Hotel in historic downtown Dayton, Ohio. Abstracts in all fields of chemistry are being accepted through **April 15, 2010**.

The theme for CeRMACS-2010 is *Chemistry: Reacting to Provide New Technologies*. In addition to the traditional symposia on Analytical, Biological, Inorganic, Organic, Physical, and Polymer Chemistry the meeting organizers are planning symposia on:

- New Vistas in Biotechnology: Chemistry, Materials & Applications
- Chemistry & Materials for Alternative Energy
- Metamaterials: from RF to NIR
- Materials for Aerospace and Space Applications • Chemical Education Symposium and HS Teacher Award
- Computational Materials Science: Theory, Modeling, & Simulation
- Nanomaterials: Synthesis, Structures, Functionalization & Applications
- Laser-Based Technologies for Chemical Measurements
- Small Business Innovations in the Chemical & Materials Industries
- Chemistry for Peace: Building on the Dayton Accords

Don't forget about social events - the CeRMACS-2010 event not to be missed is the totally awesome *Chemipalooza* at the Boonshoft Museum of Discovery. Explore the museum while consuming fabulous food and cocktails. Take in the free planetarium shows or dance to the music of a live band playing your favorite '80s tunes.

Visit <http://CeRMACS2010.org> for more information about registration, abstract submission, social events, and awards.

### Pre- and Post- meeting attractions:

- US Air Force Museum ([www.nationalmuseum.af.mil](http://www.nationalmuseum.af.mil))
- Dayton Dragons Baseball at Fifth-Third Field, Downtown Dayton ([www.daytondragons.com](http://www.daytondragons.com))
- The Dayton Art Institute ([www.daytonartinstitute.org](http://www.daytonartinstitute.org))
- Boonshoft Museum of Discovery ([www.boonshoftmuseum.org](http://www.boonshoftmuseum.org))
- Schuster Performing Arts Center ([www.schustercenter.org](http://www.schustercenter.org))
- Historical Oregon District ([www.oregondistrict.org](http://www.oregondistrict.org))
- Carillon Historical Park ([www.carillonpark.org](http://www.carillonpark.org))
- The Dayton International Peace Museum (<http://www.daytonpeacemuseum.org>)
- Paramount's Kings Island (35 miles south)
- And a Plethora of Wright-Brothers Activities (<http://www.nps.gov/daav>)

### Registration

Advance registration deadline May 28 2010

- [Download the Registration Form](#)
- [Online Registration](#)

### Contact Info

For more information, please contact Hilmar.Koerner (at) wpafb.af.mil or Steven.Trohalaki (at) wpafb.af.mil




## LATE-BREAKING NEWS: 2010 COLUMBUS SECTION AWARD

*By Lewis Hogarth, CSA Committee Chair*

The Columbus Section Award Committee is very pleased to announce that Dr. James Cowan of the Chemistry Department at The Ohio State University is the 2010 recipient of the Columbus Section Award. Dr. Cowan is well-known and a pioneer in the field of bio-inorganic chemistry, and his discoveries have resulted in the production of many refereed publications and several patents. The Committee congratulates Dr. Cowan for his extensive contributions within this field and will honor him at the May meeting of the Columbus ACS Section.

### COLUMBUS SECTION ACS CALENDAR OF EVENTS

Year	Month	Date	Day	Location	Comments
2010	April	20	Tue		Deadline for reservations for April 26, 2010 Section Meeting
2010	April	22	Thu	Here, There, Everywhere!	 <i>Chemists Celebrate Earth Day</i>
2010	April	26	Mon	Nationwide and Ohio Farm Bureau 4-H Center	Monthly Section meeting. See details elsewhere in this issue of <i>The Chemical Record</i>
2010	May	TBA	TBA		 <b>National Lab Day</b>
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> Contact <b>Bob Kroshefsky</b> , <a href="mailto:bobkro@embarqmail.com">bobkro@embarqmail.com</a> or 937-707-9276 to volunteer to serve as a judge.
2010	June	16-19	Wed-Sat	Dayton Convention Center and Crown Plaza Hotel., Dayton, OH	CeRMACS 2010 (Central Regional ACS Meeting) and presentation of Patterson-Crane Award
2010	August	22-26	Sun-Thu	Boston	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	21	Thu	CAS	Monthly Section meeting with Dr. Nancy Jackson, ACS Chair-Elect
2010	October	23	Sat	Here, There, Everywhere!	 6:02 AM – 6:02 PM: <b>International Mole Day</b> , in honor of Avogadro's Number.
2010	October	23	Sat	Columbus Metropolitan Library, Main Branch	Chemistry demonstrations for all ages with COSI on Wheels. Volunteers are needed to assist with the demonstrations; please contact <b>Professor John Blaha</b> , <a href="mailto:jblaha@cscce.edu">jblaha@cscce.edu</a> , if you are interested.

COLUMBUS SECTION ACS CALENDAR OF EVENTS

Year	Month	Date	Day	Location	Comments
2010	October	29–31	Fri-Sun	COSI	Festival of Chemistry
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>
2011	Jan-Dec				 <i>International Year of Chemistry.</i> See details in the March, 2009 issue of <i>The Chemical Record</i> .

PHOTOGRAPHS FROM FEBRUARY, 2010 SECTION MEETING

*By Steve and Maria Rosenthal*



## SAVE WITH ACS MEMBER DISCOUNTS!

### Car Rental Discounts with Hertz, Budget, and Avis

Take advantage of your ACS member discount through Hertz, Budget, or Avis car rentals. Receive a free weekend day and \$20 off a weekly rental through Budget and Avis, and \$10 off a weekly rental and up to \$15 off a weekend rental with Hertz.

### Shipping Discounts with FedEx!

Receive discounts up to 26% on domestic and international shipments sent via FedEx, and up to 20% on printing and copying services at FedEx Offices.

### Hotel Room Discounts with Wyndham Hotel Group

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Changes in postal or e-mail address should be reported to the Membership Chair, **David Speth**, 614-688-5162, [drspeth@sbcglobal.net](mailto:drspeth@sbcglobal.net). David 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.

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Please send items for distribution to the Section e-mail list to **Maria Rosenthal** ([mrosentha@cas.org](mailto:mrosentha@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)).

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