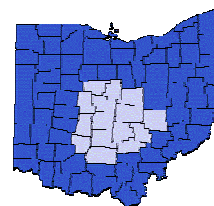




THE CHEMICAL RECORD

Volume 49, Number 7 — November, 2007
Columbus Section of the American Chemical Society, Inc.
John Long, Section Chair Ron Mitchum, Chair-Elect
George Greene, Newsletter Editor
george.greene@abbott.com
www.acscolumbus.org — chemicalrecord@yahoo.com



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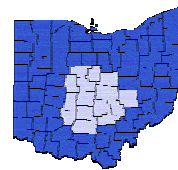
IN THIS ISSUE...

FROM THE CHAIR	2
VOLUNTEERS NEEDED!	2
UPCOMING MEETINGS	2
EVANS LECTURE SERIES AT OSU	2
MEETING NOTICE	3
ABOUT THE SPEAKER	4
ABOUT THE TOPIC	4
CALL FOR NOMINATIONS	4
THE COLUMBUS SECTION AWARD FOR 2008.....	5
BIOFUEL TALK.....	5
ACS LAUNCHES SOCIAL NEWS AND BOOKMARKING SITE.....	5
WELCOME NEW MEMBERS!	6
2008 CENTRAL REGIONAL ACS MEETING COMES TO COLUMBUS.....	6
JOIN THE BAND...AND INCREASE LAB SAFETY AWARENESS!	6
YCC ANNOUNCES NEW FEATURES ON WEBSITE	6
PHOTOGRAPHIC HIGHLIGHTS OF OCTOBER, 2007 SECTION MEETING	7
CAS EXCEEDS ALL PREVIOUS RECORDS FOR INPUT TO DATABASES.....	8
COLUMBUS SECTION ACS CALENDAR OF EVENTS	8
COMPUTER AND ELECTRONIC DISCOUNTS FOR ACS MEMBERS	9
THE DECEMBER 31, 2007 DEADLINE IS GETTING CLOSER!.....	9
CHEMSHORTS FOR KIDS — 2007	9
PLEASE SUPPORT OUR SPONSOR... ..	10
HELP WANTED.....	11
ABOUT <i>THE CHEMICAL RECORD</i>	12
CHANGE OF ADDRESS.....	12
ADVERTISING RATES.....	12
SECTION E-MAIL ROUTING	12



THE CHEMICAL RECORD

Columbus Section ACS
Volume 49, Number 7 – November, 2007
Page 2



The American Chemical Society: Improving people's lives through the transforming power of chemistry.

FROM THE CHAIR

John Long, Chair, and Ronald Mitchum, Chair-Elect

The November meeting represents one of our premier events. It will be held at Ashland, located in Dublin. The speaker is a talented polymer chemist, making for an enjoyable evening of Chemistry and Dining together.

Last month **Dr. Bruce Brusten** presented "The Centrality of Chemistry". For the members and guests who joined us at the CAS, I hope you found the meeting as enriching as I did.

I would like to thank **Wendy Reichenbach** for her efforts in organizing the 50 year member awards. We had many of the 50 year members present and I am looking forward to interacting further with this group of distinguished chemists.

We presented the High School Teacher of the Year Award to **Liz Golowenski**. **Jeff Bracken** of Westerville North High School was instrumental in putting this together and the Section thanks him for his efforts. **Jeff Trent**, Councilor, and I attended a meeting of high school teachers at Westerville North High School and listened to **Liz Golowenski** present her research project to other high school teachers. This is an excellent example of the Local Section of the ACS paying forward to achieve our goal of integrating chemistry into the community.

Many times we sit on the sidelines of our profession and watch as the game is played. In some ways finding a way to make a contribution to our profession is challenging. I would challenge our members to find a way through service to the Society to make just that contribution. A small amount of voluntary service can go a long way toward meeting the goals of the Society. You can participate on committees, lead through elected office and come and participate in the meetings of the Society.

Contact me, **Ron Mitchum** at ronaldmitchum@core.com for further details and opportunities.

VOLUNTEERS NEEDED!

By R.K. Mitchum, Chair-Elect

Volunteers are still needed to fill the following elected offices for 2008: Chair-Elect, Secretary, Treasurer-Elect, Councilor and Alternate Councilor. Self nominations are welcome or nominate a colleague. We need at least two (2) nominees for each position. For further information contact Julia Moniaci at moniaci@kforce.com.

UPCOMING MEETINGS

By Ronald Mitchum, Chair-Elect

Nov 6 Tuesday	Special guest lecturer, Robert D. Blackledge , ACS Tour Speaker, will present <i>Glitter as Forensic Evidence</i> . Denison University, Granville, OH, 4:30 PM. Watch for the e-mail announcement.
Nov 14 Wednesday	Monthly Section Meeting. This will be a joint ACS-AICChE meeting. Reception, dinner and talk hosted by Ashland Specialty Chemical in Dublin. See the details elsewhere in the this issue of The Chemical Record.
Dec 13 Thursday	Monthly Section Meeting. Reception, dinner and talk at Confluence Park Restaurant . This meeting will spotlight Jack Pounds of the Ohio Chemistry Technology Council.
February 21 Thursday	Monthly Section Meeting: Dr. Henry Bungay , ACS Tour speaker. The speaker will give the section a lecture on <i>Bioenergy Without Hype</i> . Put it on your calendar!
March 20 Thursday	Monthly Section Meeting: Dr. Tracy Hamilton -ACS Tour Speaker will present <i>Zymurgy: Art and Science of Making Beer</i> . Put it on your calendar and don't miss this one.

EVANS LECTURE SERIES AT OSU

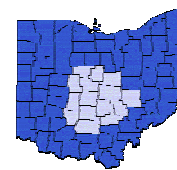
Contributed by Tom Weeks

On Thurs Nov 15 and Fri. Nov. 16 the Evans Lectures will be presented at OSU by Professor Michael Graetzel of the Ecole Polytechnique de Lausanne. Dr. Graetzel is a highly recognized and awarded scientist who has specialized in the use of nanocrystalline materials in electrochromic and other electronic devices. His Nov 15 lecture will be preceded by two lectures from the faculty. For further info go to the OSU chemistry webpage or contact leonard@chemistry.ohio-state.edu.



THE CHEMICAL RECORD

Columbus Section ACS
Volume 49, Number 7 – November, 2007
Page 3



The American Chemical Society: Improving people's lives through the transforming power of chemistry.

MEETING NOTICE

Columbus Section of the American Chemical Society, Inc.

<http://www.acscolumbus.org>

Wednesday, November 14, 2007

Program: Renewable Resource-Based Unsaturated Polyester Resins

Ashland Performance Materials

5200 Blazer Pkwy.

Dublin, OH 43017.

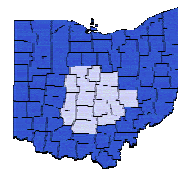
Speaker: Dr. Darcy Culkin

4:30 – 5:30 PM	Tour of Tech East (Building 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 Meeting (open to all members), Room 1A (lower level) Building 2 (flagpoles in front)
5:30 – 6:15 PM	Reception. Sign in first floor Building 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, and tea.
7:00 – 8:00 PM	Dr. Darcy Culkin: Renewable Resource-Based Unsaturated Polyester Resins
Cost	\$20 per person, \$18 for retirees/unemployed and \$5 per student
Reservations	Please use the voice mail reservations service by calling 614-447-3600 extension 7047. follow the template for reservations*. Alternatively, please send e-mail to The Columbus Section at the following e-mail address: acscols@cas.org
*Voice Mail/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.• Employer.• Tour or no tour.• 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.
Reservations Deadline	5:00 PM, Thursday, November 8, 2007. Your reservation is a dinner order and must be paid.
Program Contact	Ronald Mitchum , 614-873-0710, ronaldmitchum@core.com
Security Note	All visitors must be pre-registered and will be checked in at Tech East (Building 4) if taking the tour and/or at Building 2 on the first floor for the reception and dinner. Attendees should arrive no later than 6:15 pm. If you plan on attending the Executive Committed meeting, please state in the above template and meet in the lobby no later than 5 pm. All attendees must check out upon leaving.
Directions	<p>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 is 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.</p> <p>From the west</p> <ul style="list-style-type: none">• 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 <p>From the north</p> <ul style="list-style-type: none">• Take I-71 South to the I-270 WEST exit



THE CHEMICAL RECORD

Columbus Section ACS
Volume 49, Number 7 – November, 2007
Page 4



The American Chemical Society: Improving people's lives through the transforming power of chemistry.

- | | |
|---------------|--|
| | <ul style="list-style-type: none">• 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 | <ul style="list-style-type: none">• Take I-70 W to I-270 N• Take I-270 N to EXIT 17 (Dublin/Route 33 East.)• Turn RIGHT on FRANTZ RD.• Turn RIGHT on BLAZER PARKWAY• Buildings will be on your right as you curve around on Blazer Parkway |

ABOUT THE SPEAKER

Dr. Darcy A. Culkin joined Ashland, Inc. as a Senior Research Chemist in July of 2006. Her research focuses on the development of unsaturated polyester resins that are derived from renewable resources. She received degrees in chemistry from Northwestern University (B.A.) and Yale University (Ph.D.) and completed a National Institutes of Health Postdoctoral Fellowship in collaboration with Stanford University and IBM Almaden Research Center.

ABOUT THE TOPIC

Sustainability Efforts in the Composites Industry

Dr. Culkin's presentation will focus on sustainability efforts in the composites industry. The presentation will include a discussion of the development of Ashland's ENVIREZ® product line, which is based on unsaturated polyester resins made with renewable resources. Current applications as well as opportunities for green growth will be highlighted.

CALL FOR NOMINATIONS

The Nominating Committee of the Columbus Section requests nominations for the Slate of Candidates for office for the Local Section Elections which will take place in October-November 1007. Nominations and names of candidates should be sent to:

Julia Moniaci, Nominating Committee Chair
Kforce Scientific Staffing
614.776.3213 direct
614.899.0504 fax
moniaci@kforce.com

The Nominating Committee is responsible for presenting two candidates per office. A member can also be nominated as a candidate by petition signed by 5% of the section membership, which would be about 80.

All elected officers are members of the Executive Committee (EC) of the section and are required to attend the EC meetings at the request of the Section Chair. Candidates for office should have a willingness and enthusiasm for ACS service. Experience is welcome but not necessary; training is provided. Nominees for Councilors are encouraged to have prior or current service to the ACS as Councilor/Alternate and/or Officers for a Local Section or Technical Division.

The Offices for election are as follows:

Chair-Elect

The Chair-Elect succeeds the Chair after one year of service in this position. The main responsibilities are Program and Planning. Attendance at Leadership Training provided by ACS is also required. This is very good training both for ACS service and for personal growth.

Secretary

One-year position. The main function is to maintain records, record minutes of Executive Committee meetings, and assist the Chair on agenda items.

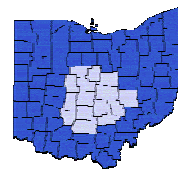
Treasurer-Elect

The Treasurer-Elect succeeds the Treasurer after serving one year in this position. The Main responsibilities are to assist the Treasurer and become familiar with procedures.



THE CHEMICAL RECORD

Columbus Section ACS
Volume 49, Number 7 – November, 2007
Page 5



The American Chemical Society: Improving people's lives through the transforming power of chemistry.

Councilor

The Councilors represent the Section's membership before the ACS at National meetings and on governance-related functions as required through the year. The section has three Councilors who serve staggered 3-year terms to ensure continuity.

Now is the Time-- Nominate Yourself or Nominate a Colleague—e-mail Julia at moniaci@kforce.com

Persons interested in these positions can find more complete descriptions in the Section's Job Manual. The Manual in its current draft version is at: www.acscolumbus.org, under the pull-down menu "How we work".

Volunteers are needed to fill the following elected offices for 2008: **Chair-Elect, Secretary, Treasurer-Elect, Councilor and Alternate Councilor.** Self nominations are welcome or nominate a colleague. We need at least two (2) nominees for each position.

For further information contact **Julia Moniaci** at moniaci@kforce.com or www.kforce.com

THE COLUMBUS SECTION AWARD FOR 2008 By Lewis Hogarth

Nominations are now being solicited for the Columbus Section Award for 2008.

This award is given every two years to a scientist who has carried the chemical sciences in new and original directions. The nominees 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.

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, 2008 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 consists of a cross-section of chemical scientists from industry, academia and private business, will consider any nomination up to 1st. March, 2008, 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 for additional details.

Silver Circle

BIOFUEL TALK
Contributed By Tom Weeks

Our section's Silver Circle group held a luncheon meeting on Sept 26 and heard **Dr. Bhima Vijayendran** give a very informative talk on *Emerging Opportunities for Bio-Based Products*. Dr. Vijayendran is Senior Research Leader and Vice President of Commercialization at Battelle.

Silver Circle is targeted for section members age 55 and older; it holds several luncheon technical meetings a year. If you want to join the 60 members already on the mailing list, send an email to tomweeks@aol.com.

ACS LAUNCHES SOCIAL NEWS AND BOOKMARKING SITE

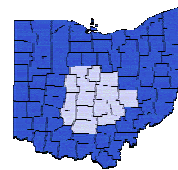
In June 2007, the American Chemical Society launched a new social news and bookmarking site called chemistry.org/exchange. The site allows members and those interested in science news and research to share articles with a larger community.

Registered users can vote on submitted, previously-published articles which will promote the articles to the site's front page. They can also save articles to their favorites; this may be especially useful to those who want to create their own library of published articles or of articles that may further their research. Users can find other community members with similar interests through "tags": metadata one applies to one's own profile.



THE CHEMICAL RECORD

Columbus Section ACS
Volume 49, Number 7 – November, 2007
Page 6



The American Chemical Society: Improving people's lives through the transforming power of chemistry.

The site enables two-way communication between registered users via an internal messaging system. It also allows the community to add comments to the submitted articles.

Since its launch in June 2007, chemistry.org/exchange has averaged nearly 1,700 visitors each month.

WELCOME NEW MEMBERS!

Compiled by George Noethlich, Membership Chair

Please join us in welcoming the following new members who have joined the Section recently:

BO WANG

CHARLOTTE J OWENS

CHEN REN

CHRISTINA E OMALLEY

DARLENE FLORENCE

DAVID P DUNLEVY

EMMANUEL O JOHNSON

JENNIFER B HOYLE

JOSEPH A ROSSIN

JOSHUA D SWARTZ

JUAN I SANZ VALERO

KEVIN J GALAT

KWONG W LAI

LAKEESHA M BUTLER

LUBICA N ALABAKOVSKA

NING LIU

PAUL R BOULIER

ROBIN F RIGHETTINI

ROSS EDGAR DALBEY

SRINAGESH K POTLURI

STEVEN DAVIS

SUSAN L BOUND

TIMOTHY L TESCHLER

WEI LUN CHANG

WILFRED SMULDERS

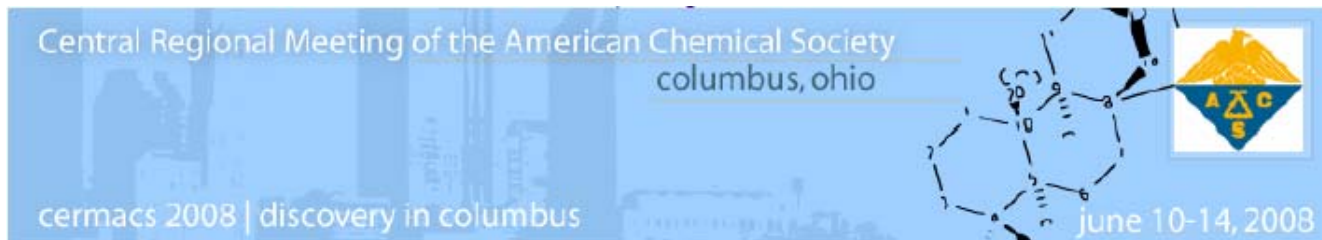
WILLIAM C SCHUMACHER

WILLIAM J CLARK

YALI ZHANG

YUAN LIU

New members are invited to attend their first Section meeting dinner free of charge.



2008 CENTRAL REGIONAL ACS MEETING COMES TO COLUMBUS

The 2008 meeting of the Central Region of the American Chemical Society will be held June 10-14, 2008 in Columbus, sponsored by The Ohio State University Chemistry Department and the Columbus Section of ACS. Please mark your calendars and contact **Jimmy Cowan**, cowan@chemistry.ohio-state.edu, if you would like to help organize the meeting. Additional information about the meeting can be found online at <http://www.cermacs2008.org/site/>

JOIN THE BAND...AND INCREASE LAB SAFETY AWARENESS!

Looking for a way to encourage your friends to put safety first? Check out new eye-catching bracelets from the ACS Committee on Chemical Safety. The safety bracelets are uniquely designed in white and orange colors displaying the ACS logo, the message to "Think Safety", and the web site for gathering further information on ACS safety resources. With 10 in a pack, these bracelets will be ideal for your students, colleagues, family and friends and a great way to promote safety around the lab, office, school and at home. Price: \$2.00 each \$12.50/10 pack; 10% off - 100 (10 packs) or more; 20% off - 200 (20 packs) or more; 30% off - 500 (50 packs) or more. Available through the ACS Online Store (<http://www.acs.org/store>).

YCC ANNOUNCES NEW FEATURES ON WEBSITE

The Younger Chemists Committee (YCC) has added new features on their website. The networking features enable younger chemists to have on-line discussions and get involved in ACS, and packaged presentations have been posted to make local and regional younger chemist programs easy to host.

Discussion Board – Questions about whether graduate school is right for you? Interviewing tips? Navigating your career? Post them here!

Volunteer Form – Want to get involved but don't know how? Sign up with the Younger Chemists Network!

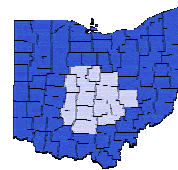
Prepared Programs – Interested in putting on a local program? We have prepared programs posted for you to use. On the website now are "Effective Presentations", "Mentoring", and "Making an Impact"

Check it out at www.acs.org/ycc, and click on YC Networks (Discussion Board and YCN) or Local Sections (Prepared Programs)



THE CHEMICAL RECORD

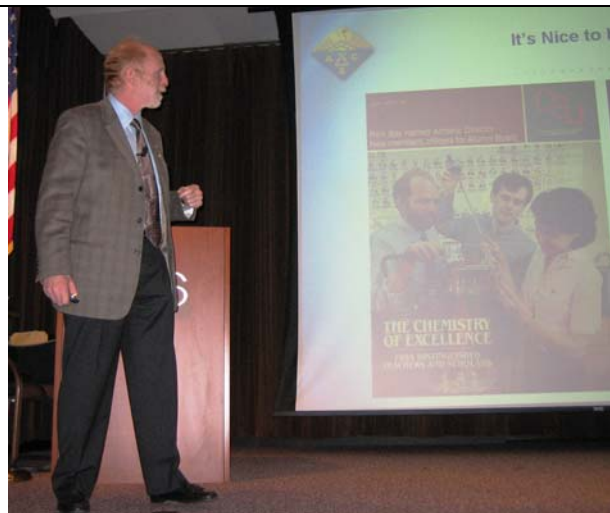
Columbus Section ACS
Volume 49, Number 7 – November, 2007
Page 7



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PHOTOGRAPHIC HIGHLIGHTS OF OCTOBER, 2007 SECTION MEETING

Contributed by Steve Rosenthal



Bruce Bursten, ACS President-Elect, is back home again in Columbus.



Jeff Bracken joins **Bruce Bursten** in congratulating the Section's *Chemistry Teacher of the Year*, **Liz Golowenski** of Olentangy Liberty High School.

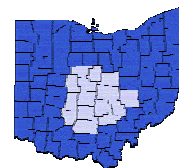


50-Year Award Presentation (Left to Right): **Bruce Bursten** with 50-year honorees **Bill Sheppard**, **Leo Paquette**, **Richard Markle**, **Michael Hoechstetter**, **Paul Guevin**, **Carl Placeway**, and **Richard J. Timmons**



THE CHEMICAL RECORD

Columbus Section ACS
Volume 49, Number 7 – November, 2007
Page 8



The American Chemical Society: Improving people's lives through the transforming power of chemistry.

CAS EXCEEDS ALL PREVIOUS RECORDS FOR INPUT TO DATABASES

In its 100th anniversary year, Chemical Abstracts Service (CAS) logged the largest number of records added to the CAplusSM database in a single week: 24,623 records were added the week of July 30, 2007, referencing chemical and related scientific research in the world's journals and patents. Researchers worldwide using CAS products such as SciFinder®, SciFinder ScholarTM and STN® now have access to a greater quantity of daily updated scientific information than with any other source. CAS announced this and other database content developments at the American Chemical Society National Meeting in Boston, August 20, 2007.

By the end of July 2007, CAS' weekly input had reached an average of 20,924 records, compared to 19,551 per week in the record analysis year 2006, an increase of 7%.

"CAS has always reflected the growth and scope of chemistry-related literature," said Matthew J. Toussant, Ph.D., CAS Senior Vice President of Editorial Operations. "The sheer volume of new records entering the CAplus database each day indicates the magnitude and diversity of research now occurring worldwide. It also speaks well of CAS' editorial operations and the hundreds of scientists who make it work."

CAS made many other enhancements to its literature and substance databases this year, including the addition of U.S patent records from 1870-1889 to enhance the oldest segment of the CASM/CAplus databases. CAS also continued to build upon its strength in making patents from Asian countries accessible. Recently added to CAS databases were utility model patents issued from January 1, 2007 from the State Intellectual Property Office of the People's Republic of China (SIPO). CAS also continued to improve the timeliness of its Korean patent records and now makes records for patent applications from the Indian Patent Office available online within 14 days of publication.

"Patents are a special focus of recent enhancements," said Toussant. "Patents are now the leading source of new substance information in the CAS REGISTRYSM database and accounted for 63% of new substance records by CAS in 2006."

More information about CAS database content is available at www.cas.org.

COLUMBUS SECTION ACS CALENDAR OF EVENTS

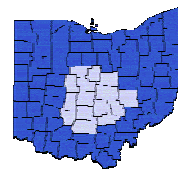
Compiled by Maria Rosenthal, Ron Mitchum, and George Greene

2007	November	6	Tue	Denison University, Granville, OH	4:30 PM: Robert D. Blackledge , ACS Tour Speaker, will present <i>Glitter as Forensic Evidence</i> . Watch for the e-mail announcement.
2007	November	14	Wed	Ashland Chemical Company, Dublin, OH	Monthly Section Meeting. This will be a joint ACS-AICHE meeting. Reception, dinner and talk hosted by Ashland Specialty Chemical in Dublin. See the November <i>Chemical Record</i> for more meeting details.
2007	November	15	Thu	Ohio State University Chemistry Department	OSU faculty lectures 2:30-3:30: Dr. Arthur Epstein - <i>Fabulous Polymers – From Superhydrophobicity to Magnetism</i> . Dr. Prabir Dutta - <i>Artificial Photosynthesis using Zeolites</i> . 4:00-5:30 Evans Lecture by Professor Michael Graetzel, <i>Chemistry and Energy, Power from the Sun by Molecular Sensitizers</i> . See the OSU Chemistry Department website, www.chemistry.ohio-state.edu for details.
2007	November	16	Fri	Ohio State University Chemistry Department	4:30 – 6:30 PM, Dr. Graetzel. See the OSU Chemistry Department website, www.chemistry.ohio-state.edu for details.
2007	December	13	Thu	Confluence Park Restaurant, Columbus	Monthly Section Meeting. Reception, dinner and talk at Confluence Park Restaurant. This meeting will spotlight Jack Pounds of the Ohio Chemistry Technology Council .
2008	February	21	Thu	TBA	Monthly Section Meeting: Dr. Henry Bungay , ACS Tour speaker, <i>Bioenergy Without Hype</i> .
2008	March	20	Thu	TBA	Monthly Section Meeting: Dr. Tracy Hamilton , ACS Tour Speaker, <i>Zymurgy: Art and Science of Making Beer</i> .
2008	April	22	Tue	Here, There, Everywhere!	Chemists Celebrate Earth Day. Stay tuned for announcements of local activities.




THE CHEMICAL RECORD

Columbus Section ACS
Volume 49, Number 7 – November, 2007
Page 9



The American Chemical Society: Improving people's lives through the transforming power of chemistry.

2008	June	10-14	Mon - Fri	Hyatt Regency Hotel, Columbus		CERM 2008 Central Regional ACS Meeting, sponsored by Columbus Section and The Ohio State University. Contact Jimmy Cowan , cowan@chemistry.ohio-state.edu for more information
2008	October	19-25	Sat – Sun	Here, There, Everywhere!	National Chemistry Week. <i>Chemistry and Sports.</i>	

COMPUTER AND ELECTRONIC DISCOUNTS FOR ACS MEMBERS

The American Chemical Society and Dell have come together to provide you with great technology solutions at excellent prices!

Get discounts on desktop and notebook computers and a complete range of reliable and affordable software and peripherals like printers, projectors and TV's.

To take advantage of this ACS member benefit, call your dedicated sales team at **1-888-506-3355**. Mention **“Dell is my technology partner”** to receive \$20 off your next order over \$500.

For more information, please visit <http://www.dell.com/assn>.

THE DECEMBER 31, 2007 DEADLINE IS GETTING CLOSER!

You have just weeks left to recruit for the 2007 [Member-Get-A-Member Campaign](#). Every Member of the American Chemical Society that recruits one new paid member will receive a 2007 Periodic Table of the Elements Throw.

At the end of the 2007 campaign the ACS member who has recruited the most new paid members will win a trip in 2008 to an American Chemical Society National Meeting of their choice -- New Orleans, LA (April) or Philadelphia, PA (August).

For MGM guidelines and to download an official MGM application, please go to www.acs.org/membership and click on MGM.

And thank you for your continued support to the American Chemical Society!

CHEMSHORTS FOR KIDS — 2007

Copyright ©2007 by the [Chicago Section of the American Chemical Society](#)
by Dr. Kathleen A. Carrado, Argonne National Labs
kcarrado@anl.gov

The Elementary Education Committee of the ACS Chicago Section presents this column. They hope that it will reach young children and help increase their science literacy. Please share with children and local teachers. **Please note: All chemicals and experiments can entail an element of risk.**

Static Power

Kids, can you imagine being able to bend water with static electricity? When two objects are rubbed against each other, some of the electrons from one object can jump to the other. The object that gains electrons becomes more negatively charged; the one that loses electrons becomes more positively charged. The opposite charges attract each other in a way that you can actually see.

One way to collect charge is to comb your hair with a nylon comb or rub it with a balloon. The comb or balloon will become attracted to your hair, while the strands of your hair (all the same charge) repel each other. The comb or balloon will also attract a stream of water, believe it or not, because the water stream carries an electrical charge.

Here is what to do:

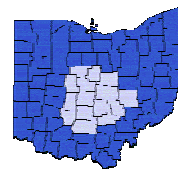
1. Comb dry hair with a nylon comb or rub it with an inflated latex balloon.
2. Turn on the tap so that a narrow stream of water is flowing (1-2 mm across, flowing smoothly.)
3. Move the balloon or side of the comb close to the water (not in it). As you approach the water, the stream will begin to slightly bend.

Experiments: It is fun to test these questions and try these variations. Does the amount of 'bend' depend on how close the comb is to the water? If you adjust the flow, does it affect how much the stream bends? Do combs made from other materials work equally well? How does a comb compare with a balloon? Do you get the same effect from everyone's hair or does some hair release more charge than others? Can you get your hair close enough to the water to repel it without getting it wet?



THE CHEMICAL RECORD

Columbus Section ACS
Volume 49, Number 7 – November, 2007
Page 10



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Tip: This activity works better when the humidity is low. When humidity is high, water vapor catches some of the electrons that would jump between objects. For the same reason, your hair needs to be completely dry when you comb it.

Reference: [Anne Marie Helmenstine](#). Reprinted with permission from Dr. Kathleen A. Carrado, Chicago Local Section. An archive of all previously published ChemShorts is available [online](#).

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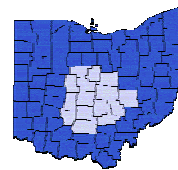
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THE CHEMICAL RECORD

Columbus Section ACS
Volume 49, Number 7 – November, 2007
Page 11



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HELP WANTED

HOT MELT ENGINEER-Elmira, NY

Duties:

- Lead the combustion systems and melting systems design engineering for glass melting and other high temperature engineering applications to include performing and overseeing flow and pressure calculations, equipment sizing, and development of design improvements and advancement of the melt services designs.
- Provide on-site technical support during installation and operational start-up's, leading the hot melt services project assignments for new and existing products.
- Coordinate major furnace capital improvement projects over next few years.
- Provide strong technical and analytical skills for the melting projects.
- Participate on project teams as a project area leader for melting services.
- Interact with corporate and all plant depts.-very visible and promotable position.
- Provide problem solving skills to assist plant in troubleshooting and resolving melting issues.
- Provide coaching to develop and strengthen melting services engineering methods. Coordinate all related Quality and Safety issues.

Requirements:

- BS in Mechanical/Ceramic or Chemical engineering.
- 5-10 years in glass/ceramic manufacturing.
- Experience with ceramic/glass melt high temperature applications.
- Experience with glass/ceramic furnaces-kilns.
- Strong knowledge of combustion/melting engineering principles.
- Ability to interface and motivate project team members and effectively meet demanding project objectives.
- Strong promotable skills for career advancement to upward Operations or Engineering levels.

PROCESS ENGINEER-Elmira, NY

Company is manufacturer of consumer hard goods-home products, house wares, glassware containers, etc. Position will provide leadership in glass/ceramic production processes to include equipment utilization.

Duties:

- Provide technical support to **Melting and Forming processes**
- Develop experimental plans to improve process yield, capability, cost reduction, and non conformity reduction
- Adheres to all plant procedures and ISO 9002 requirements including the Quality Plan
- Coordinate equipment changeovers and process set ups.
- Develop project plans to support next run recommendations
- Departmental training in knowledge based management
- Support new product form/shape design and development

Requirements:

- 4 yr degree-Chem Eng, Ceramic, Glass, ME or other technical type
- Experience with hot end, melting and forming processes desired.
- Experience with related production equipment utilization, changeovers and troubleshooting
- Experience with improving primary and secondary processes.
- Employee training and development skills
- Lean or Six sigma experience a plus.
- Must be leader type, promotable and able to make long term commitment.

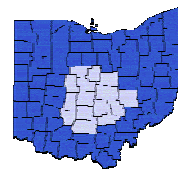
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THE CHEMICAL RECORD

Columbus Section ACS
Volume 49, Number 7 – November, 2007
Page 12



The American Chemical Society: Improving people's lives through the transforming power of chemistry.

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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.

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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!*

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