

Volume 50, Number 7 — November, 2008
 Columbus Section of the American Chemical Society, Inc.
 George Greene, Editor — Ron Mitchum, Section Chair
www.acscolumbus.org



IN THIS ISSUE...

NOTE FROM THE EDITOR	2
UPCOMING MEETINGS	2
MEETING NOTICE: NOVEMBER, 2008 SECTION MEETING	2
ABOUT THE TOPIC: <i>THE ASNT SOCIETY AND NONDESTRUCTIVE TESTING</i>	3
ABOUT THE SPEAKER: <i>TERRY M. WEBB</i>	3
MEETING NOTICE: DECEMBER, 2008 JOINT ACS/AICHE MEETING	4
SILVER CIRCLE TOUR OF OHIO EPA AND AGRICULTURE LABS.....	5
CHEMINSIGHT®	5
NATIONAL CHEMISTRY WEEK 2008.....	6
PHOTOGRAPHS FROM NATIONAL CHEMISTRY WEEK 2008	7
COLUMBUS SECTION ACS CALENDAR OF EVENTS.....	9
WHY TAKE AN ACS WEBCAST SHORT COURSE?	9
FREE SHIPPING DISCOUNTS WITH FEDEX® FOR ACS MEMBERS.....	10
SOFT SKILLS TRAINING: DO YOU HAVE WHAT EMPLOYERS WANT?	10
MOLECULES OF THE MONTH.....	10
SQUALAMINE	10
CAPSAICIN	10
HELP WANTED	11
PLEASE SUPPORT OUR SPONSOR.....	11
ABOUT <i>THE CHEMICAL RECORD</i>	12
CHANGE OF ADDRESS.....	12
ADVERTISING RATES.....	12
SECTION E-MAIL ROUTING	12



NOTE FROM THE EDITOR
By George Greene

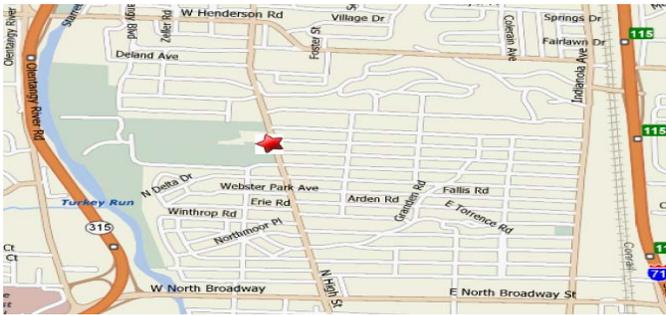
As we were going to press, we were deeply saddened to learn of the passing of **Robert Merritt**, long-time CAS employee and highly esteemed Section member who was Editor of *The Chemical Record* for seventeen years, far longer than any other Editor in history. Bob also served terms as Councilor and Chair, and we are deeply indebted to him for his outstanding work for the Section. The next issue of *The Chemical Record* will be dedicated to Bob's memory; if you would like to share stories or tributes for publication, please send them to George Greene at PO Box 360941, Columbus, OH 43236-0941 or george.greene@abbott.com.

UPCOMING MEETINGS

Please note that there are TWO meeting notices in this issue. It was necessary to run both of them due to the early date (12/9) for the December meeting. Please note the meetings as follows:

Date	Venue	Topic	Registration Deadline
Wednesday, November 19	Clintonville Woman's Club	Terry M. Webb , BP Refining: <i>The ASNT Society and Nondestructive Testing</i>	Thursday, November 13, 2008. Please see meeting notice elsewhere in this issue of <i>The Chemical Record</i> for details.
Tuesday, December 9	Columbus Zoo and Aquarium	Joint meeting with the Central Ohio Section of the American Institute of Chemical Engineers (AIChE): <i>A behind the scenes tour of the aquarium operation at the Columbus Zoo & Aquarium</i>	Tuesday, November 25, 2008, 5:00 P.M. Please see meeting notice elsewhere in this issue of <i>The Chemical Record</i> for details.

<p>MEETING NOTICE: NOVEMBER, 2008 SECTION MEETING Columbus Section of the American Chemical Society, Inc. www.acscolumbus.org Wednesday, November 19, 2008</p>		<p>The Clintonville Woman's Club 3951 N. High St. Columbus, OH 43214 614-268-5525 www.clintonvillewomensclub.com</p>	
PROGRAM	Terry M. Webb, BP Refining: <i>The ASNT Society and Nondestructive Testing</i>		
5:00-6:00 PM	Executive Committee Meeting (open to all members)		
6:00-6:45 PM	Reception: Hors d'oeuvres will be served.		
6:45-7:30 PM	Dinner: Herb-stuffed fish or Chicken Rothschild, including tossed garden salad, chef's choice of sides and desserts, soft drinks, coffee and tea.		
7:30-8:30 PM	Speaker: Terry M. Webb , <i>The ASNT Society and Nondestructive Testing</i>		
Cost	\$25 per person members and non-members, \$20 for retired and unemployed members, \$5 per student. Payment will be collected at the door; cash and checks accepted. Please remember that this is a meal order and must be paid. Please help us control costs by honoring your order.		
Reservations	Please use the voicemail reservations service by calling 614-447-3600 extension 7047. Follow template for reservations*. Alternatively, please send e-mail to The Columbus Section at 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. • Employer or school. • Your choice of entrée, Herb-stuffed fish or Chicken Rothschild • Your phone number, in case we need to contact you. 		

Reservation Deadline	Thursday, November 13, 2008. Your reservation is a dinner order and must be paid.
Program Contact	Ron Mitchum, 614-873-0710, ronaldmitchum@core.com .
Directions	<p>The Clintonville Woman's Club 3951 North High Street Columbus, Ohio 43214 614.268.5525</p> 
	 <ul style="list-style-type: none"> The Clintonville Woman's Club is located 0.7 miles south of Henderson Rd. on the west side of North High Street. The private clubhouse is nestled atop the Adena Brook Ravine, adjacent to the Whetstone Park of Roses in the heart of Clintonville Please sign-in at ACS Hospitality table.

ABOUT THE TOPIC: *THE ASNT SOCIETY AND NONDESTRUCTIVE TESTING*

The presentation will include an overall description of the organization and what ASNT (the American Society for Nondestructive Testing) is all about, including services. Nondestructive testing (NDT) will be defined with many photographs and a description of some of the more specialized NDT methods used throughout the world.

ABOUT THE SPEAKER: *TERRY M. WEBB*

Terry M. Webb is the Refining NDE Specialist for BP Refining. He is a Lifetime Member of ASNT since 1980 and is a certified ASNT NDT Level III in Radiographic Testing, Ultrasonic Testing, Liquid Penetrant Testing, and Magnetic Particle Testing. He has a BA degree from Marshall University in general studies with a major in Nondestructive Testing and minor in Engineering. He has over 20 years of experience in the field of nondestructive testing through job positions in oil refining, chemical plants, nuclear power plants, fossil fuel power plants, and synthetic fuels (coal gasification).



Terry's position with BP Refining is to provide NDT support to five BP refineries in the USA and six overseas in the Netherlands, Germany, Spain and Australia. NDT support includes building capability through guidance, procedures and problem solving on specific NDE applications.

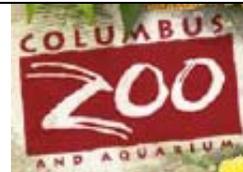


Volume 50, Number 7
November, 2008
Page 4

Terry will share technical knowledge and good NDT practices on existing and emerging NDE technologies, their limitations and possible applications.

**MEETING NOTICE: DECEMBER, 2008 JOINT
ACS/AICHE MEETING**

American Chemical Society, Columbus Section
American Institute of Chemical Engineers, Central Ohio
Section
Tuesday, December 9, 2008
~ 5:00 PM and ~ 6:00 PM with staggered start times



The Columbus Zoo and Aquarium
4850 West Powell Rd, Powell, Ohio
www.columbuszoo.org

PROGRAM:

A behind the scenes tour of the aquarium operation at the Columbus Zoo & Aquarium

The Columbus Zoo & Aquarium is a world-renowned facility consisting of over 90 acres of space for more than 700 wildlife species. As part of the AICHE/ACS tour, both Discovery Reef and the Manatee exhibit will be visited. Discovery Reef is a 110,000 gallon salt water tank depicting a coral atoll. 1,200 pieces of man-made coral and special wave-producing equipment combine for a beautiful and always captivating experience! The Manatee exhibit is home to Holly and Stubby, two West Indian Manatees who have been rescued from the wild. They live in an exhibit modeled after the 10,000 Islands region of Florida, complete with a 190,000 gallon water tank. Come behind the scenes and discover the process that goes into making these exhibits work. Also during the month of December, *Wildlights at the Zoo* will be going on. The zoo will be decorated with 3 million holiday lights.

4:30 PM	ACS Executive Committee Meeting (open to all members). Room TBA
5:00 – 7:00 PM	Tour of the Discovery Reef Aquarium operation at the Columbus Zoo & Aquarium and taking in the Wildlights. <ul style="list-style-type: none"> • Due to space limitations behind the scenes aquarium tours will be staggered to start at 5:15 and 6:05 PM. • Please meet at Water's Edge Pavilion 1 ten minutes before your scheduled tour time. The tour will start at the pavilion. From the front gates of the zoo to the Water's Edge Pavilion 1 is 5-8 minutes. The pavilion is located in The Shores area of the zoo as indicated on the map on Page 5.
7:00 PM	Dinner at the Water's Edge Pavilion (about a 3 minute walk from aquarium).
Menu	Adventure Buffet including: Chicken Kiev, Shells in Marinara, Oven Roasted Vegetables, Red Skin Potatoes, Garden Salad, Chocolate Cake, Cheesecake, Coffee, Iced Tea and Water
Cost	Zoo admission is based on the number attending. Total cost per person will be no more than \$36 and no less than \$31. This includes admission to the zoo, parking, aquarium tour and dinner. AICHE/ACS student members will receive discounts on their meal, making their inclusive cost between \$14 and \$19.
RSVP	RSVP to Elizabeth Biddinger (Biddinger.12@osu.edu or 614-551-7899) by Tuesday, November 25, 2008, 5:00 PM. Please indicate name, company name, contact number, address to mail tickets to, preferred aquarium tour time, ACS or AICHE affiliation, and if a student AICHE/ACS member. <i>An RSVP is a request to purchase a meal and zoo tickets.</i>
Other	Tickets will be distributed prior to meeting since parking is included. Tickets will be mailed to individuals not associated with companies with large numbers of attendees. Attendees affiliated with companies with large numbers of attendees will be able to pick up their tickets at their workplace.
Directions	From I-70 East or West: Take 270 North. Follow 270 North to Sawmill Road (Exit 20) and go North (or right) on Sawmill Road. Sawmill Road will become Sawmill Parkway. Continue on Sawmill Parkway until you reach Powell Road/SR 750. Turn left onto Powell Road/SR 750. The Zoo entrance is approximately 1 mile on the right. From I-71 North or South: Take 270 West. Follow 270 West to Sawmill Road (Exit 20) and go North (or

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If you have any questions about ChemInsight, please contact us at (800) 227-5558 and ask for ChemInsight or e-mail ChemInsight@acs.org. We look forward to welcoming you as a ChemInsight expert.



NATIONAL CHEMISTRY WEEK 2008

By John Blaha and Jeff Trent

The 2008 National Chemistry Week event was held at the Columbus Public Library, Main Branch, 96 South Grant Avenue on Saturday, October 25 from 10 AM until 4 PM.

The theme for this year was *Having A Ball With Chemistry (The Chemistry Of Sports)* and information displays were directed to the chemistry involved in sports.

Jeff Trent had previously asked teachers and local section members to take copies of the *Celebrating Chemistry* newspaper to local library locations and schools to help distribute information on NCW.

Jeff Trent and **John Blaha** set up the display areas that included information on the local section and its activities, body building, the relationship of chemistry to sports, activities for children, and copies of the October 2008 *ChemMatters* magazine on chemistry and sports. Jeff also set up a special display for electrolytes to show the difference between nonelectrolytes, weak electrolytes and strong electrolytes that used electric buzzers and lights which the children found fascinating.

Perrin Shepherd brought *COSI on Wheels* and set up pH, Chemiluminescence, Endothermic and Exothermic Reaction, Slime, and Making a Gas from Solids and Liquids. Additional volunteers, **Saber Ahmed** from the Ohio Department of Agriculture, **Karen Irving** from OSU, and **Myung Han** from Columbus State Community College, ably assisted the approximately 140 children of all ages as they conducted the activities. Of course, the most popular activity still remains Slime. A great time was had by all participants and demonstrators.

We gratefully acknowledge **GFS Chemicals** for sponsoring this event.

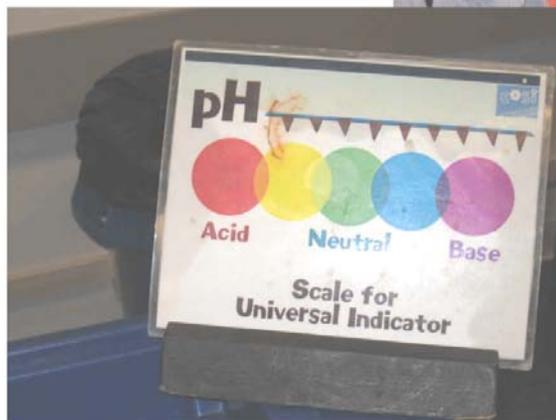
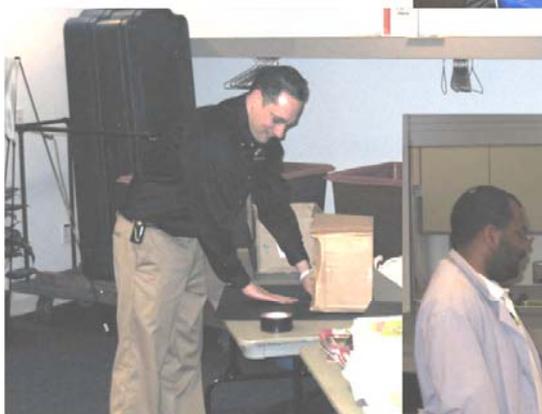
PHOTOGRAPHS FROM NATIONAL CHEMISTRY WEEK 2008

By John Blaha

Right: **Perrin Shepherd** demonstrates the intricacies of slime.



Below: **Jeff Trent** sets up.



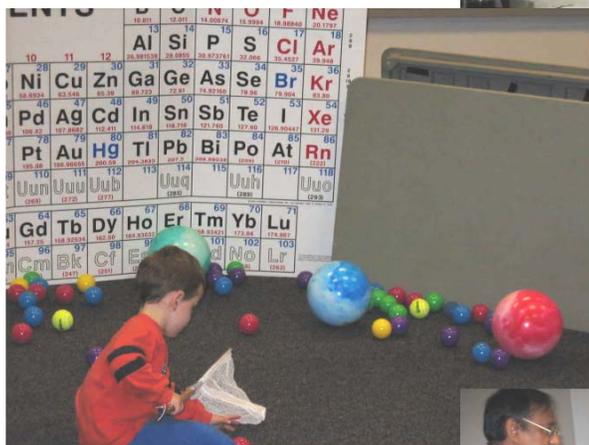
Above: **Perrin Shepherd** from COSI (left) helping **Sabir Ahmed** set up

Left: Sign for pH activity.



Left: **Myung Han**
 (Columbus State)
 demonstrating pH.

Below: **Karen Irving**
 (OSU) demonstrating *It's A Gas*.

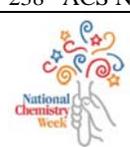


Above: Chasing balls
 in the play area.

Right: **Saber Ahmed**
 demonstrating *It's A Gas*



COLUMBUS SECTION ACS CALENDAR OF EVENTS

2008	November	13	Thu		Deadline for reservations for November 19, 2008 Section Meeting
2008	November	19	Wed	Clintonville Woman's Club, 3951 North High Street, Columbus Ohio 43214	Monthly Section meeting with Terry Webb , American Society for Non-Destructive Testing. See details elsewhere in this issue of <i>The Chemical Record</i> .
2008	November	25	Tue		Deadline for reservations for December 9, 2008 Joint Meeting
2008	December	9	Tue	Columbus Zoo and Aquarium	Joint meeting with the Central Ohio Section of the American Institute of Chemical Engineers. See details elsewhere in this issue of <i>The Chemical Record</i> .
2009	March	22-26	Sun-Thu	Salt Lake City, Utah	237 th ACS National Meeting and Exposition
2009	April	22	Wed	Here, There, Everywhere!	 Chemists Celebrate Earth Day. Stay tuned for announcements of Columbus Section activities.
2009	August	16-20	Sun-Thu	Washington, DC	238 th ACS National Meeting and Exposition
2009	October	20-26	Sun-Sat	Here, There, Everywhere!	 National Chemistry Week: <i>Chemistry--It's Elemental!</i>
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: The chemistry of materials.

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Few companies are immune from the economic hardships in the headlines and many budgets have been trimmed. But it is still crucial to your career to engage in continuing education to expand your skills and stay abreast of new topics. So save your time and money and take a look at the courses available online through the American Chemical Society. ACS offers a wide variety of webcast short courses and our fall schedule is open for registration now.

ACS courses are well-respected throughout the industry. ACS Webcast Short Courses provide the same quality training that ACS has long been known for, but, because the courses are presented over the Internet, they offer added convenience and flexibility.

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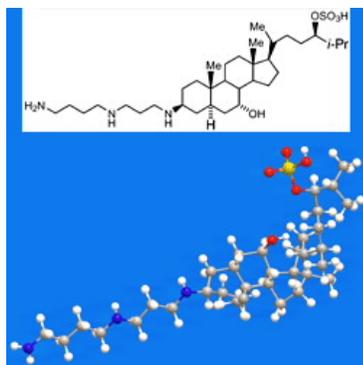
NEW! ACS members can now enjoy significant savings on envelope and small parcel shipments sent via FedEx(r), one of the nation's premier small package carriers. All ACS members can receive discounts up to 26% on domestic and international shipments sent via FedEx(r), and up to 20% on printing and copying services at FedEx Offices. For more information, and to enroll online, go to www.partnership.com/65ACS/.

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ACS Careers has joined forces with Harvard Business Publishing to deliver 42 online business and professional advancement courses. The course library includes topics such as Career Management, Negotiating, Leading and Motivating, Presentation Skills, Strategic Thinking, Team Leadership, Time Management, and many other high-quality courses.

Look for more information at www.acs.org/professionaldevelopment.

MOLECULES OF THE MONTH



Squalamine

Squalamine is a broad-spectrum antibiotic found in the dogfish shark (*Squalus acanthias*). It was first reported by researchers at the University of Pennsylvania School of Medicine in 1993. The website <http://www.squalamine.com> makes somewhat extravagant claims about the benefits of taking a squalamine-containing supplement.

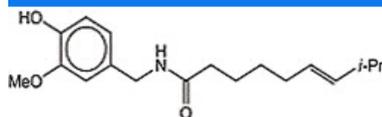
[Get more information on this molecule](#) from CAS (Chemical Abstracts Service)



Capsaicin

The aromatic amide capsaicin is the "hot stuff" in chili peppers and paprika. It takes its name from *Capsicum*, the genus to which many peppers belong. It was isolated in 1816; its structure was elucidated in 1920; and it was first synthesized in 1930.

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





Volume 50, Number 7
November, 2008
Page 11

HELP WANTED

ADJUNCT POSITION at OTTERBEIN COLLEGE in PHYSICAL CHEMISTRY

Winter and Spring Quarters 2009 (5 Jan - 10 Jun), *CHEM 340/341; 350/351 -- Physical I and II with lab* (class and lab times are negotiable). Ph.D. required.

Please send a brief statement of qualifications and resume to:

Prof. Jerry A. Jenkins, Chair
Department of Chemistry & Biochemistry
One Otterbein College
Otterbein College
Westerville, OH 43081
jjenkins@otterbein.edu
614/823-1616, FAX 823-1968

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Volume 50, Number 7
November, 2008
Page 12

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

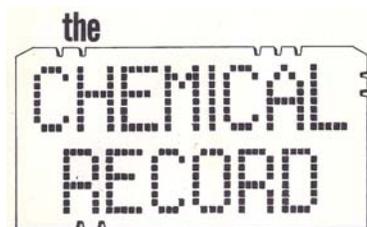
Changes in postal or e-mail address should be reported to the Membership Chair, **George Noethlich**, 2740 Bella Via Avenue, Columbus OH 43231-2305, e-mail gnoethlich@wowway.com. George will forward the change-of-address information to ACS Headquarters.

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** (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)



Columbus Section of The American Chemical Society, Inc.
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