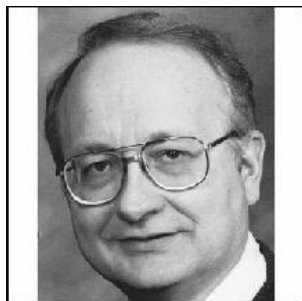


IN THIS ISSUE...

IN MEMORIAM: <i>DR. JOHN LONG</i>	1
MEETING NOTICE	2
ABOUT THE TOPIC: <i>THE GLOBALIZATION OF SCIENCE</i>	2
ABOUT THE SPEAKER: <i>DR. NANCY B. JACKSON</i>	3
ACS COLUMBUS SECTION - SUMMER TIME REVIEW	3
FESTIVAL OF CHEMISTRY AT COSI.....	4
ATTENTION HIGH SCHOOL CHEMISTRY TEACHERS!	4
CELEBRATE CHEMISTRY IN THE MOVIES DURING NATIONAL CHEMISTRY WEEK 2010: <i>BEHIND THE SCENES WITH CHEMISTRY!</i>	4
COLUMBUS SECTION ACS CALENDAR OF EVENTS.....	5
ABOUT <i>THE CHEMICAL RECORD</i>	6
CHANGE OF ADDRESS	6
ADVERTISING RATES	6
SECTION E-MAIL ROUTING	6
PLEASE SUPPORT OUR SPONSOR... ..	6

Editor's Note: We are deeply saddened by the passing of Dr. John Long, a former Columbus Section Chair and one of our most loyal supporters. John was a kind, gentle, intelligent man with a terrific sense of humor, and he was a very entertaining speaker. John will be greatly missed by all of us in the Section.

**IN MEMORIAM:
 DR. JOHN LONG**



John R. "Toad" Long (May 16, 1945) rounded third and made his final slide home on Thursday, August 19, 2010. He joined his parents Jesse R. and Cerelda "Betty" Long, mother-in-law Martha MacDonald and sister-in-law Ginger M. Long who have already crossed that plate. John was an avid baseball fan. He loved the Detroit Tigers (win or lose) and The Green Bay Packers (ditto). Learning to move forward without him are his wife of 40 years, Melody; sons, Aaron of Delaware, OH and Major Jesse and wife Major Valarie Long; brothers, Gary (Lynne) Long of Toledo and Willis F. Long of Madison, WI; many beloved nieces and nephews; and special friends, Mike and Donna Sue Froman. John graduated from the University of Toledo in 1967 with a Bachelor of Science degree and from the then just plain Ohio State with a Ph.D. in Chemistry. He was employed by GFS Chemicals, Inc. in Powell, OH from 1997. He loved his job and his co-workers who became his "family".

John sang with the Praise Team at Sawmill Baptist Church (where he was also an Elder) and played guitar or piano with them. He spoke to area groups about the Shroud of Turin. During his "glory years", John played softball with many teams, winning Player of the Year in 1977 in the NIST League in Gaithersburg, MD. John loved his Lord, his family, his kitties and had many special friends. You know who you are. Contributions in John's memory may be made to HomeReach Hospice, 3595 Olentangy River Rd., Columbus, OH 43214 or a charity of your choice-or buy a ball and bat and teach a child to play the game. Toad says batting left-handed is the best! Funeral services were held at Sawmill Baptist Church on Tuesday, August 24, 2010 with Pastor David W. Nuhfer officiating. Interment was at Toledo Memorial Park. Condolences may be sent to the family at www.rutherfordfuneralhomes.com

-Adapted from *The Columbus Dispatch*

MEETING NOTICE

Columbus Section of the American Chemical Society, Inc. http://columbus.sites.acs.org Program: <i>The Globalization of Science</i> ACS President-Elect Dr. Nancy B. Jackson		Thursday, October 21, 2010 6:00 pm Chemical Abstracts Service 2540 Olentangy River Road Columbus OH 43202 614-447-3600 www.cas.org
5:00-6:00PM	Executive Committee Meeting (open to all members)	
6:00-6:45 PM	Reception: Hors d'oeuvres, beverages and wine sponsored by CAS.	
6:45-7:30 PM Dinner	Spinach Salad with Raspberry Vinaigrette Roast Beef Au Jus or Haddock with Lemon-Dill Sauce or Grilled Vegetable Stack Steamed Buttered Green Beans, Oven-roasted Red Potatoes with Rosemary, Rolls and Butter, Iced Brownies or Pumpkin pie with whipped cream Coffee, Decaf, Hot Tea or Iced Tea, Soft Drinks	
7:30-8:30 PM Program	<i>The Globalization of Science</i> Dr. Nancy B. Jackson	
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 (payable to "Columbus Section ACS") accepted. <i>Remember that this is a dinner order and must be paid. Please help control costs by honoring your order.</i> 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: acscols@earthlink.net or use the Meeting Reservation form on the web site http://columbus.sites.acs.org .	
*Voicemail/e-mail Reservations Template	<ul style="list-style-type: none"> • First and last name: Please spell last name. • Membership category: member, non-member, retired, emeritus, unemployed, student, other. • Employer or college/university. • Your choice of entrée: Roast Beef or Haddock or Vegetable Stack. • Your phone number, in case we need to contact you. 	
Reservation Deadline	Thursday, October 14, 2010 at noon.	
Program Contact	Steven N. Rosenthal 614-447-3600, ext 2070, srosenthal@cas.org	
Directions	From 315, north or south, exit at Ackerman Road, toward Olentangy River Road. Enter the CAS campus from either Dodridge St. or Olentangy River Road driveways and follow signs for visitor parking. Parking is available in numbered spots also. Enter the main building, Building A, and proceed to the ACS hospitality table.	

ABOUT THE TOPIC:

THE GLOBALIZATION OF SCIENCE

Next year, 2011, is the United Nations-designated International Year of Chemistry. Not only is it a good time to celebrate chemistry, it is also a moment for us to reflect on the globalization of chemistry and all science. This talk will address the international trends in chemical and scientific R&D and the impact and opportunities it will bring to the US scientific enterprise. Discussion of how the American Chemical Society should respond and support their members regarding the changing global landscape of science and technology will be included.

ABOUT THE SPEAKER:
DR. NANCY B. JACKSON

Nancy B. Jackson is manager of the International Chemical Threat Reduction Department in the Global Security Center at Sandia National Laboratories which assists the U.S. Department of State and other federal agencies in solving problems related to international chemical security. With the U.S. Department of State, Dr. Jackson has developed the Chemical Security Engagement Program an international program to raise awareness of chemical safety and security among chemical professionals and to enable the practice of safety and security in the research, teaching, and commerce of chemicals. Previously, Dr. Jackson was deputy director of Sandia's International Security Program where she assisted the director in fulfilling its mission to create technology-based solutions through international cooperation to reduce the threat of weapons of mass destruction proliferation and terrorism. During the past four years, Dr. Jackson was responsible for leading the Laboratory Directed Research and Development program for Global Security which requires identifying and overseeing the research program in support of Global Security.



Prior to her positions in Global Security, Dr. Jackson was involved in research and development at Sandia, as a principal investigator and a manager. Primarily her research was in heterogeneous catalysis with an emphasis on energy applications. Later work involved chemical imaging with a wide variety of applications from biological systems to homeland defense problems. Dr. Jackson is a National Affiliate of the National Academies where she has served on several boards and chaired studies. Dr. Jackson is a Fellow of the American Association for the Advancement of Science and was recipient of the 2005 American Indian Science and Engineering Society Professional of the Year Award. Dr. Jackson was a member of the Board of Trustees of Rocky Mountain College and is a Research Associate Professor at the Chemical and Nuclear Engineering Department of the University of New Mexico. Dr. Jackson has a B.S. degree in chemistry from George Washington University from which she won a Distinguished Alumni Achievement Award in 2005 and has a Ph.D. in chemical engineering from the University of Texas at Austin.

In 2009, she was elected to the Presidential succession of the American Chemical Society. She will serve as President-Elect for 2010, President for 2011, and Immediate Past President for 2012.

ACS COLUMBUS SECTION - SUMMER TIME REVIEW
BY PROFESSOR JEFF TRENT

Thank you ACS Columbus Section for your continued support of *Simply Science Days* during Columbus Recreation and Parks *Summer Camp Terra*. Parks staff members call in January/February each year to reserve a spot for ACS Kids & Chemistry demonstrations and hands-on activities from ACS. The Columbus Section sponsored activities July 7th and August 11th this year. This was an informal education exercise reaching 120 students ages 6 to 12 with the two presentations at Antrim Park. The ACS Kids & Chemistry Program was presented by ACS Members: **Jeff Norris**, Advance Product Development Engineer (Chemist) at Hi-Stat, A Stoneridge Company, and **Jeff Trent**, Analytical Development Chemist at Boehringer Ingelheim Roxane Laboratories.

Chemistry came alive over the four hour event, which required an eight hour day for leaders loading the U-Haul truck. The staff commented that students paid more attention than in a classroom. Students called out "Lithium!", "Calcium!", and "Boron!" in answer to questions about the elements behind the Red, Yellow-Orange, and Green balls of flame, respectively, during the second round of flame tests for metals. Young scientists wearing goggles commented, "We love science days!" Another offered a riddle "Hey mister scientist, if I breathe Oxygen in the day time what do I breathe at night??"...Answer: "Nitrogen". Very nice riddle, but we actually inhale both gases at the same time in Air (21%-Oxygen, 78%-Nitrogen) with each breath.

Students focused on the evidence for chemical changes when mixed materials got cold, hot, formed a gas, or changed color. Demonstrations included cold endothermic ammonium nitrate/hot exothermic calcium chloride dissolution in water, gas production from acetic acid -sodium bicarbonate, color changes in flame tests for metals, pH color changes in liquids, and color-changing heat-sensitive materials.

The newest activity was Steam Powered Boats from Educational Innovations: www.teachersource.com/Energy/EnergyConversion/PuttPuttSteamBoat.aspx. See the boat in action on the website. Six Putt-Putt Boats were run on candles that boil water to steam, moving around a large round tray filled with water and ice cubes. The ice was added only to include all the water phases - solid, liquid, and gas (ice, water, and steam) - in the same activity. Educational goal: Gases can do work for us, pushing, turning, and spinning. Steam pushes boats and spins turbines for electricity.

Thank You again to the ACS Columbus Section for support of ACS Kids & Chemistry activities during the Simply Science Days!

FESTIVAL OF CHEMISTRY AT COSI

By JOAN HARLESS, FACULTY LEADER FOR SPECIAL PROGRAMS, COSI COLUMBUS

COSI is looking for corporate and educational partners to bring materials, hands-on activities, interactives, and, most importantly, enthusiastic people to engage our guests in the wonders of chemistry during the Festival of Chemistry on October 29, 30, and 31.

The Festival will be something like a booth event or a convention display. It will take place in our Atrium, where partners will have tables on which to display their materials and share hands-on activities with our guests. Guests move from table to table, and at past events it has not been unusual for some to spend 10-15 minutes at displays that are of special interest to them. Hours of the festival will be 5-9 on Friday, Oct. 29, 11-3 on Saturday, Oct. 30, and 1-5 on Sunday, Oct. 31. Help us show our guests, in fun and engaging ways, how important chemistry is to our everyday lives, while also highlighting rewarding careers in chemistry that are right here in Central Ohio. Take part in the event with a table full of fun, or as a volunteer (we need 30+) who will help with cart demonstrations developed by COSI. Hours are Friday, Oct. 29 5-8:30 PM; Saturday, Oct. 30 11:00 AM - 3:00 PM; Sunday, Oct. 31 12 Noon – 4 PM. Can't man a table all three days? Just let us know what works for you! Volunteers will be given a choice of three hour shifts.

For more details about this event, or if you have questions, contact **Joan Harless** at 614-228-2674 ext. 2354 or at jharless@mail.cosi.org.

Thank you so much for considering this invitation. I look forward to hearing from you!

ATTENTION HIGH SCHOOL CHEMISTRY TEACHERS!

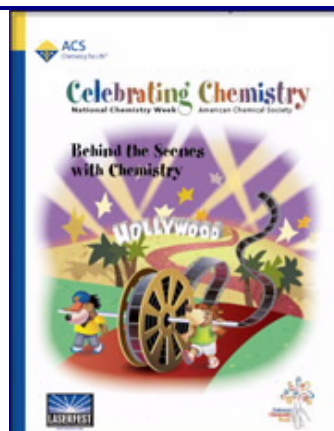
By JOAN HARLESS, FACULTY LEADER FOR SPECIAL PROGRAMS, COSI COLUMBUS

Bring your favorite chem demo to COSI and share it with your colleagues and COSI's guests during the Festival of Chemistry at COSI! Show the public how much fun chemistry can be! Nice incentives, too! Demos will be presented on Saturday, Oct. 30, and possibly Sunday, Oct. 31, depending on the number of entries. Contact Joan Harless at jharless@mail.cosi.org for details!

CELEBRATE CHEMISTRY IN THE MOVIES DURING NATIONAL CHEMISTRY WEEK 2010:

BEHIND THE SCENES WITH CHEMISTRY!

BY "PROFESSOR JEFF" TRENT



National Chemistry Week (NCW) is a community-based annual event that unites ACS local sections, businesses, schools, and individuals in communicating the importance of chemistry to our quality of life.

Chemistry is everywhere, whether prominent as a science fair project or tucked behind the scenes of a movie set or book. During National Chemistry Week 2010, explore the special effects in movies to appreciate that it is not magic, but rather common chemical concepts which explain the mystery behind the "magic" that is shown.

Movie special effects featured include artificial snow (sodium polyacrylate,) fog and smoke (dry ice,) and fake glass (sugar glass, www.ehow.com/how_2078408_make-sugar-glass.html). Imagine walking along a snowy city sidewalk, steam pours from a grate in the pavement. Oops! An unlucky pedestrian startled by a speeding vehicle slips and breaks through the shop window avoiding the oncoming car! We've used all our movie tools: snow, dry ice steam, and sugar glass shattering.

Also featured are Harry Potter movie special effects – artificially Aged Paper (white paper soaked in black tea,) ancient iron tannate ink (tea and iron sulfate,) and color changing paper (white paper soaked in purple cabbage juice.)




ACS Columbus Section National Chemistry Week events include the following:

- October 21st – Columbus Section Meeting at CAS – 6:00 PM
- October 23rd - Columbus Metropolitan Library 10:30 AM -3:00 PM with COSI on Wheels. The Columbus Section is also a day sponsor for WCBE 90.5 FM today. Listen for our on air spots throughout the day.
- October 29-31 – Three-day *Festival of Chemistry* at COSI – All Day Activities

We need volunteers for the Library Event and for the COSI Festival of Chemistry:

- For the Library Event contact **John Blaha** at Columbus State Community College jblaha@csc.edu if you will be available anytime between 10:30 AM and 3:00 PM on Saturday October 23rd
- For the COSI event see the article on the Festival of Chemistry for details.

COLUMBUS SECTION ACS CALENDAR OF EVENTS

Year	Month	Date	Day	Location	Comments
2010	October	14	Thu		Deadline for making reservations for the October Section meeting. See details elsewhere in this issue of <i>The Chemical Record</i>
2010	October	17-23	Sun-Sat	Here, There, Everywhere!	 National Chemistry Week: <i>Behind the Scenes with Chemistry!</i>
2010	October	21	Thu	CAS	Monthly Section meeting with Dr. Nancy Jackson, ACS President-Elect
2010	October	23	Sat	Here, There, Everywhere!	 6:02 AM – 6:02 PM: <i>International Mole Day</i> , in honor of Avogadro's Number.
2010	October	23	Sat	Columbus Metropolitan Library, Main Branch	10:30 AM – 3:00 PM: Chemistry demonstrations for all ages with COSI on Wheels. Volunteers are needed to assist with the demonstrations; please contact Professor John Blaha , jblaha@csc.edu , if you are interested.
2010	October	29–31	Fri-Sun	COSI	Festival of Chemistry at COSI. See details elsewhere in this issue of <i>The Chemical Record</i> .
2010	November	TBA	TBA	TBA	November Section Meeting.
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> .
2011	March	27-31	Sun-Thu	Anaheim	241 st ACS National Meeting and Exposition
2011	Aug-Sept	8/28-9/1	Sun-Thu	Denver	242 nd ACS National Meeting and Exposition
2012	March	25-29	Sun-Thu	San Diego	243 rd ACS National Meeting and Exposition
2012	August	19-23	Sun-Thu	Philadelphia	244 th ACS National Meeting and Exposition



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, **David Speth**, 614-688-5162, 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.

SECTION E-MAIL ROUTING

Please send items for distribution to the Section e-mail list to **Maria Rosenthal** (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).

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