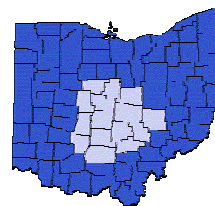




THE CHEMICAL RECORD

Volume 49, Number 5 -- September, 2007
Columbus Section of the American Chemical Society, Inc.
George Greene, Editor
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www.acscolumbus.org -- chemicalrecord@yahoo.com



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

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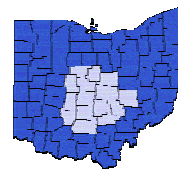
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COLUMBUS FIXTURE QUIETLY TURNS 100 *Reprinted with Permission from The Columbus Dispatch*

Columbus fixture quietly turns 100

A power player in the scientific community, Chemical Abstracts' toiling unnoticed here

Friday, June 15, 2007 3:30 AM

BY MIKE LAFFERTY
THE COLUMBUS DISPATCH

Some neighbors protested when Chemical Abstracts Service announced plans in the 1960s to build a new headquarters on Olentangy River Road.

They were spooked by the word *chemical*, which they associated with manufacturing, noise and fumes, recalled W. Val Metanomski, a researcher at Chemical Abstracts Service.



Robert J. Massie

In fact, there's no lab on Chemical Abstracts' campus, which is probably best known these days for hosting the Columbus Symphony Orchestra's Picnic With the Pops concerts.

The scientific sleuths the service employs spend their days learning about the discoveries of others rather than conducting their own experiments.

As the company celebrates its centennial this year, the service, a division of the American Chemical Society, is probably better known in labs in China and India than among central Ohioans.

"I just tell people I work for a chemical publishing company," said Metanomski, who has worked at Chemical Abstracts for 47 years.

In fact, the 84-year-old is a highly trained scientist with a Ph.D. in chemical engineering.

But his explanation is close enough for a company that ferrets out and

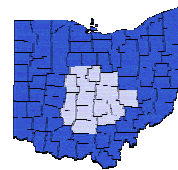


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publishes scientific information from around the world. It publishes an assortment of chemistry journals; nearly 32 million substances are listed and described in its databases; and more than 10,000 new entries are made daily.

"People find that number pretty astonishing. We are the No. 1 database by far," Chemical Abstracts President Robert J. Massie said.

Knowing what other scientists have discovered and building on their achievements is key to science.

"I feel we're doing something to help scientists out there, from medicine to fuel science," said Ida L. Copenhaver, who gave up laboratory chemistry to work at Chemical Abstracts.

Its 1,300 employees collect and publish information about scientific discoveries by scanning patent applications, research journals and other sources. Among the listings are Einstein's ideas on relativity, the invention of Bakelite, which jump-started the plastics industry, and the description of the double-helix structure of DNA.

There's a listing for the discovery of soccer-ball-shape molecules known as Buckminsterfullerenes, or buckyballs. Their shape makes them attractive as molecular containers for drugs, as ways to soak up free radicals in the body, to improve electronics, as superconductors and to make copying machines that are hundreds of times sharper.

Chemical Abstracts has been so important to the development of science that its campus, and a former site it occupied in McPherson Laboratories at Ohio State University, were designated national chemical landmarks in ceremonies yesterday.

William A. Noyes founded Chemical Abstracts in 1907. It was a journal published at the National Bureau of Standards then later at the University of Illinois. The journal moved to Ohio State in 1909 when then-editor Austin Patterson joined the OSU faculty. Chemical Abstracts outgrew several sites on campus before moving to its present quarters in 1965.

The paper journals are still published, but 95 percent of Chemical Abstracts' business now is via the Internet. Scientists in more than 100 countries tap into the service.

And yet, Chemical Abstracts remains a stranger to many here.

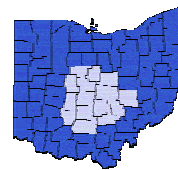
"Thank goodness for the symphony or no one would know who we are," Massie said.

mlafferty@dispatch.com



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Editorial Note: Val Metanomski provided the following corrections to the information presented in the previous article:

- a. I am not a "researcher" but an "editor".
- b. I have not worked for 47 years at CAS, but only for 43 years. (I just said that someone else holds a record of 47 years).
- c. While I said that "I work for a chemical publishing company", it was not meant that "CAS publishes an assortment of chemical journals". The latter implies that CAS publishes a lot of "primary" scientific journals, which is incorrect. In fact, CAS is not just a publisher of secondary information, but is widely known for creating and maintaining databases of chemical and related scientific information and for providing electronic search services in today's digital research environment.
- d. Austin Patterson did not join the OSU faculty, he was simply invited in 1909 to move the CA office to the Chemistry building on the OSU campus.

FROM THE CHAIR

It is time for all the ACS members to put the fall schedule on your calendars. I hope everyone had a great summer. I know everyone is looking forward to the meetings that are being arranged by the Section. Although it is difficult to have a general theme for our meetings due to our diverse corps of volunteers and organizations, I hope everyone in the Section will see something that will encourage you to attend. I personally welcome you to attend. Mark it on your calendar and make it a habit to further your professional growth through interaction with and within the Section and Society. The monthly meetings are an excellent place to meet other professionals in your area, further your personal professional growth and interact with professionals which have a common goal. Kill the TV, put down the Dispatch and come join your local section for great evening.

John Long, Chair

Ronald Mitchum, Chair-elect

VOLUNTEERS NEEDED!

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 **Andrea Arnett** or **Julia Moniaci** at aarnett@kforce.com. I would like to publish the list of candidates in the October 2007 Chemical Record. The publication deadline is September 21, 2007.

RK Mitchum, Chair-Elect

Editor's Note: Persons interested in these positions can find more information in the "Call for Nominations" below.

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 2007. Nominations and names of candidates should be sent to:

Andrea Arnett, Nominating Committee Chair
Kforce Scientific Staffing
614.776.3213 direct
614.899.0504 fax
aarnett@kforce.com

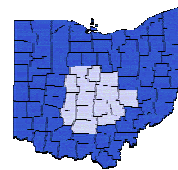


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The Nominating Committee is responsible for presenting two candidates per office. A member can also be nominated as a candidate by petition signed by 5% of the section membership, which would be about 80.

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 is 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.

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 that serve staggered 3-year terms to ensure continuity.

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".

Now is the Time-- Nominate Yourself or Nominate a Colleague—e-mail Andrea or Julia at aarnett@kforce.com or phone 614-776-3213.

Thank you.

Ronald Mitchum, Chair-Elect

UPCOMING MEETINGS

By Ronald Mitchum, Chair-Elect

Sept 18, Tuesday: Monthly Section Meeting. Joint ACS-AIChE meeting to be held at Battelle: Topic: *Polymer Electrolyte Membrane (PEM) Fuel Cells*. See the September Meeting Notice below.

Oct TBA: Monthly Section Meeting. Reception, dinner and talk at CAS. **Dr. Bruce Bursten**, President-Elect of the American Chemical Society will talk on the ACS Focus for his term. The 50 year Member awards will be presented as well as the Teacher of the Year Award. See the October *Chemical Record* for Date and Time.

Nov 13 Tuesday: 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 *Chemical Record* for more meeting details.

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.

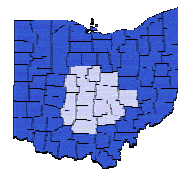
February 21 Thursday: Monthly Section Meeting: **Dr. Henry Bungay**-ACS Tour speaker. The speaker will give the section a lecture on *Bioenergy Without Hype*. Put it on your calendar!

March 20 Thursday Monthly Section Meeting: **Dr. Tracy Hamilton**-ACS Tour Speaker will present-*Zymurgy: Art and Science of Making Beer*. Put it on your calendar and don't miss this one.



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MEETING NOTICE

Columbus Section of the American Chemical Society, Inc.

<http://www.acscolumbus.org>

Tuesday September 18, 2007, 5:30 PM

Program: PEM Fuel Cells

Battelle Memorial Institute
505 King Avenue
Columbus, OH 432017
614-424-6424

<http://www.battelle.org>

Speaker: Dr. James Saunders, Battelle Memorial Institute

4:30 – 5:30 PM	Executive Committee meeting (open to all Section members.)
5:30 – 6:30 PM	Social Hour (appetizers and punch)
7:30 – 8:30 PM	Dr. James Saunders to discuss fuel cell research
Menu	California Chicken (oven baked chicken breast topped with sautéed mushrooms, artichoke hearts and red grapes in a white wine sauce with wild rice and a fresh vegetable medley). Served with salad, assorted drinks, and dessert (gourmet cookies and dessert bars). Vegetarian Meal Upon Request Only
Cost	\$22 per person (\$5 per student)
RSVP	Please RSVP to Nicholas Knebel at KnebelN@battelle.org or 614-424-4079 , no later than Friday, September 7th , and include the following information: <ul style="list-style-type: none">• If citizen of US: RSVP with name and company.• If non-US citizen: RSVP with name, company, country of citizenship, and citizenship status in the US (e.g. permanent US resident/green card holder, temporary visa, etc.)
Reservations Deadline	Friday, September 7th. Your reservation is a dinner order and must be paid.
Directions	Coming from the North: 315 S, Exit at Kinnear Road toward Olentangy River Road, turn left onto King Avenue, turn right into Battelle's visitor parking lot (505 King Ave). Coming from the South: 315 N, Exit at Medical Center Drive toward King Avenue/Hospital, go straight through light across King Avenue into Battelle's visitor parking lot (505 King Ave). Please park in the visitor parking area, and enter through Battelle's main entrance.

ABOUT THE SPEAKER AND TOPIC

PEM Fuel Cells

Dr. James Saunders

Fuel cells are a promising method for efficiently generating electricity for applications ranging in size from watts to megawatts. Polymer Electrolyte Membrane fuel cells typically operate at temperatures ranging from 50 to 80 °C, producing

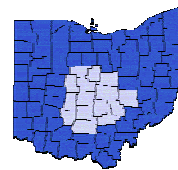


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high power densities for such low temperatures. This is an exciting area for the engineer and scientist because the fuel cell offers high efficiency and reduced emissions in a compact package, yet many challenging problems remain to be solved. Dr. Saunders will give an overview of PEM fuel cells: how they work, their advantages and problems, and describe the recent work at Battelle.

Dr. Saunders has worked in the energy area at Battelle for over 20 years. For the last five years, he has focused on PEM fuel cells, where he has been leading Battelle's efforts to develop a PEM fuel cell with high tolerance to catalyst poisons such as carbon monoxide and sulfur. The approach uses an unusual control technique to maximize performance in the presence of poisons and could reduce the weight and cost of fuel cells by simplifying the fuel processing.

Dr. Saunders is a Research Leader in the Applied Energy Systems product line at Battelle. He received degrees in mechanical engineering from Ohio University (B.S.) and the University of Illinois (M.S., Ph.D.).

NOTES FROM THE SECTION'S GOVERNMENT AFFAIRS COMMITTEE

Contributed by Manfred Luttinger

Editor's note: The following is an excerpt from a letter that Manny received from Glenn Ruskin, Director, ACS Office of Legislative and Government Affairs (chemistry.org/government.)

Dear Legislative Action Network (LAN) member:

It has been written by the venerable Chinese philosopher Confucius that "a journey of a thousand miles begins with the first step." This quote applies equally well to passage of sweeping federal legislation by the U.S. Congress—sometimes it takes years to get something right and develop the needed support.

We witnessed a good case in point last week when Congress overwhelmingly adopted milestone legislation to bolster U.S. innovation and foster our global competitiveness. The bill, *The America COMPETES Act*, brought together various pieces of legislation dealing with federal research and development as well as science, technology, engineering and math (STEM) education into a comprehensive bill. A summary of the bill can be found at

<http://science.house.gov/press/PRArticle.aspx?NewsID=1941>.

As a LAN member, the topics mentioned above will sound very familiar as you have helped advocate for them over the past several years. Since 2005, you and your LAN colleagues have generated over 21,000 letters to Capitol Hill and the White House urging passage of U.S. innovation and competitiveness legislation! During that same period of time, LAN members and local section government affairs committees met with 74 congressional offices advocating on behalf of various parts of this bill...

By the time you receive this, it is my hope that President Bush will have signed the bill into law. While enactment of the COMPETES bill is a great victory for science, we can not stop there. We need to continue to pressure the president and Congress to provide the funds to implement the COMPETES act, so stay tuned for future LAN alerts!

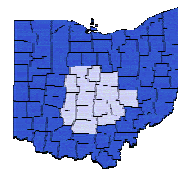
“PROFESSOR JEFF” TO PRESENT AT ACS NATIONAL MEETING

As this issue of *The Chemical Record* is being compiled, “**Professor Jeff**” **Trent** is presenting a talk at the Boston ACS national Meeting during the 20th Anniversary of National Chemistry Week Symposium (Monday, at the Seaport Hotel) entitled "PR experience with television public service announcements: NCW and CCED." This is based on the well-received television public service announcement that Jeff created and produced for National Chemistry Week.



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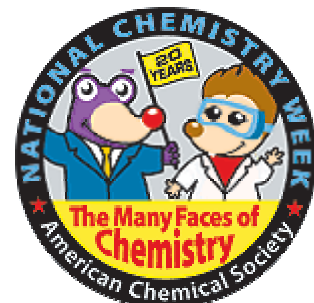


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CELEBRATE THE 20TH ANNIVERSARY OF NATIONAL CHEMISTRY WEEK

This year's celebration of National Chemistry Week, with the theme, *The Many Faces of Chemistry*, will be a very special celebration! 2007 marks the 20th anniversary of NCW. The mission of NCW is to reach the public, particularly students, with positive messages about chemistry and to provide a means of effectively mobilizing ACS local sections.



When former ACS President, George Pimentel, conceived the idea of celebrating National Chemistry Day in 1987, he never could have predicted where his idea would lead. From a one-day celebration, National Chemistry Day grew into National Chemistry Week. From a biennial celebration, the celebration became an annual event in 1993. The program has been the recipient of several prestigious public relations and association awards.

Join with ACS this October 21- 27, in this 20th anniversary year of National Chemistry Week to celebrate *The Many Faces of Chemistry*, emphasizing the diversity of the discipline and its practitioners.

VOLUNTEERS NEEDED FOR NCW CHEMISTRY DEMONSTRATIONS *Saturday, October 27, 2007*

Volunteers are needed to help guide the public in performing chemistry demonstrations on Saturday, October 27, at the Columbus Metropolitan Library, Main Branch, 96 South Grant Avenue. The experiments are simple (acid-base reactions, making "slime", generating carbon dioxide from baking soda and acetic acid, etc.) *COSI on Wheels* and volunteers from the Columbus Section of the American Chemical Society will provide all of the chemicals, setup, and supplies, and we will show you what to do. We are extremely grateful to our friends at GFS Chemicals for sponsoring this important educational event.

This is a terrific way to introduce kids (and adults) to chemistry and show them that science is indeed FUN! If you are not comfortable performing demonstrations we also need volunteers for "crowd control" (greeting guests, making sure everyone has safety glasses, etc.)

Shifts are from 10-12, 12-2, and 2-4. If you would like to sign up for a shift (or two), please contact **Professor John Blaha** at 614.287.5930 or jblaha@cscce.edu

CHEMISTS CELEBRATE EARTH DAY *Contributed by Jeff Trent*

ACS had a *Chemists Celebrate Earth Day* (CCED) display and volunteer at COSI for eight hours on April 22nd. Recycled paper, CCED tattoos, and 250 Celebrating Chemistry handouts for the kids were presented by **Jeff Trent**. Photos from the Library, Zoo, and COSI as well as the CCED recycled paper display used at COSI were presented during the executive committee meeting.

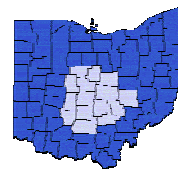
"PROFESSOR JEFF" TO FOLLOW IN FOOTSTEPS OF "MR. WIZARD?"

Congratulations to **Jeff Trent**, who has received notification that he has been nominated through the American Chemical Society as a candidate to host a new Television show named *ELEMENTAL!* The show, now in development, is being pitched to the Science Channel which is owned by the Discovery Channel. We wish Jeff the best of luck as he applies for this position.

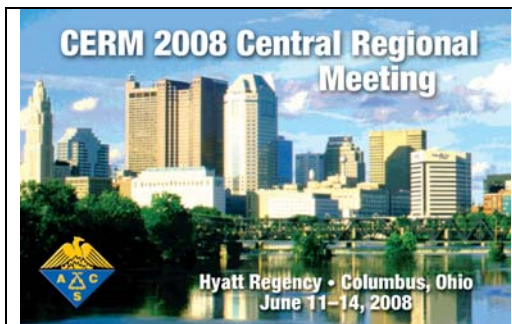


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2008 CENTRAL REGIONAL ACS MEETING COMES TO COLUMBUS

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.

WELCOME NEW MEMBERS!

Compiled by George Noethlich, Membership Chair

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

AMANDA SMEIGH
ANDRES ZAVALETA
BAOHAN XIE
CARA C EVANS
CHENYANG TIE
GANG RUAN
JANGGUEN LEE
JEREMY C WHITE
JOSEPH MARKOWITZ

JOSEPH MICHAEL STARITA
JOYCE MILLER
KATIE DEMERS
LESLIE WANAMAKER
LY J LEE
MARCELLA CARD
MARGARET REID
MEGAN M FLETCHER
PATRICK M WOODWARD

SABER AHMED
SIVARAMAKRISHNAN MUTHUKRISHNAN
SOUMITRA DESHMUKH
STEVEN D WEIL
TED M CLARK
TIFFANY FREDS
WILLIAM A VON WOTRING
WILLIAM J MALICOATE
XIAOLING LU

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

COLUMBUS SECTION ACS CALENDAR OF EVENTS

Compiled by Maria Rosenthal, Ron Mitchum, and George Greene

2007	September	7	Fri		Deadline for reservations for September, 2007 Section Meeting
2007	September	18	Tue	Battelle Memorial Institute	Monthly Section Meeting. Joint ACS-AIChE meeting to be held at Battelle: Topic- <i>Polymer Electrolyte Membrane (PEM) Fuel Cells</i> . See the "September Meeting Notice" elsewhere in this issue of <i>The Chemical Record</i> for details.
2007	September	21	Fri		Deadline for submission of material for October issue of <i>The Chemical Record</i>.
2007	October	TBA	TBA	Chemical Abstracts Service	Monthly Section Meeting. Reception, dinner and talk at CAS. Dr. Bruce Bursten , President-Elect of the American Chemical Society will talk on the ACS Focus for his term. The 50 year Member award will be presented as well as the Teacher of the Year Award. See the October <i>Chemical Record</i> for Date and Time.

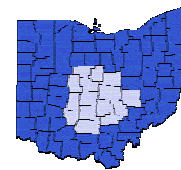


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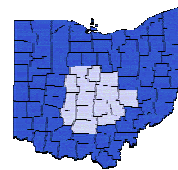
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2007	October	21-27	Sun – Sat	Here, There, Everywhere!		National Chemistry Week 2007: <i>The Many Faces of Chemistry.</i>
2007	October	23	Tue	Here, There, Everywhere!	6:02 AM until 6:02 PM: International Mole Day , in celebration of Avogadro's Number.	
2007	October	27	Sat	Main Branch, Columbus Metropolitan Library, 96 South Grant Avenue	10:00 AM – 4:00 PM: National Chemistry Week interactive event featuring COSI on Wheels. Approximately fifty volunteers are needed to work two-hour shifts performing hands-on chemistry demonstrations (we will show you what to do) or providing crowd control (welcoming students, making sure that everyone is wearing goggles, etc.) Please contact Professor John Blaha (jblaha@csc.edu) if you would like to participate.	
2007	November	13	Tue	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	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.	
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>	

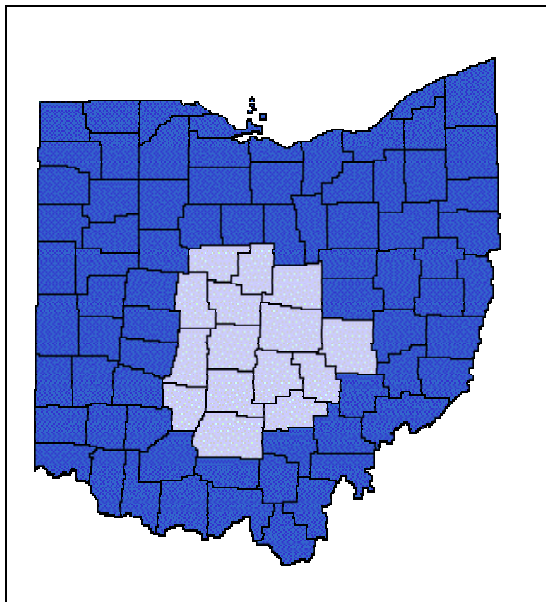


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ABOUT THE COLUMBUS SECTION

The Columbus Section of the American Chemical Society comprises approximately 1,500 members who live and work in the following central Ohio counties: Delaware, Fairfield, Fayette, Franklin, Hocking, Knox, Licking, Madison, Marion, Morrow, Muskingum, Perry, Pickaway, Ross, and Union.

The Mission of the American Chemical Society (ACS) is to encourage in the broadest and most liberal manner the advancement of the chemical enterprise and its practitioners. Toward that end, the ACS advances scholarly knowledge, provides professional services and support, communicates with varied audiences, and is actively involved in the science, education, and public policy arenas.

The Columbus Section of the ACS adheres to this mission and the strategic thrusts of the National organization and leadership by providing programs and networking opportunities for Chemistry professionals in Central Ohio.

We invite ACS members and scientists in the community to lend their expertise and talents to our activities in science education, government and legislative policy issues, safety in our industrial plants and in our communities, and care of our land.

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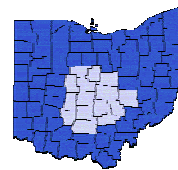
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ABOUT ACS

The American Chemical Society is a self-governed individual membership organization that comprises more than 158,000 members at all degree levels and in all fields of chemistry. The organization provides a broad range of opportunities for peer interaction and career development, regardless of professional or scientific interests. The programs and activities conducted by ACS today are the products of a tradition of excellence in meeting member needs that dates from the Society's founding in 1876.

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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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