

CINTACS



Newsletter of the Cincinnati Section of the American Chemical Society

September, 2007
Vol. 45, No. 1

Meeting Calendar

Sept. 23	Family/Friends Picnic @ Germania Park
Oct. 19-20	Oesper Award Banquet @ Univ. of Cincinnati
Dec. 11	M. Platz, Ohio State U. @ Xavier University
Jan. 16	Chemist of the Year @ Sharonville Conv. Ctr.
Feb. 20	H. Bungay, R.P.I. @ Museum Center
Mar. 19	Zymurgy @ Great Wolf Lodge
Apr. 16	Awards Night @ Northern Kentucky U.
May (?)	Party Night: Reds Game & Banquet

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PLEASE join us for the Section's
first "meeting" of the 2007-2008 session:

**4th ANNUAL
FAMILY AND FRIENDS PICNIC
At Germania Park
Sunday, September 23, 2007, 1-5 PM**

Activities and Entertainment will include a DJ, cornhole competition, "DOOR" PRIZES, and chemical demonstrations. Plus, you can find out about the section activities, committees, and discussion groups for the year.

Germania Park has a playground for children as well as playing field for various sports. The park is conveniently located in a scenic rural setting and has a covered pavilion. The picnic is on rain or shine.

Registration: 1:00- 2:00 pm

Food/Potluck: The section will provide grilled hot dogs, hamburgers, chicken, and bratwursts as well as condiments and drinks (beer, soft drinks, and juice boxes).

Attendees are cordially requested to bring food. Last names A – M please bring a side dish or salad for 6 and N-Z a dessert for 6.

Food will be served at 2 pm.

Cost: \$10 member individuals or \$15 members with family. \$5 member retirees, first time non-members, K-12 teachers, and students or \$10 for same with family.

Reservations: The meeting reservation form is online at www.acscincinnati.org/acs. This is the best and easiest way to register.

As a last resort, you may send your reservations by e-mail to kim.carey@uc.edu. If it is impossible to make your reservation via

(Continued on page 3)

THE CINTACS NEWSLETTER**Vol. 45, No. 1 September, 2007**Editor.....Kevin Ashley
Advertising.....Ed Hunter

CINTACS is published eight times a year (September through May) by the Cincinnati Section of the American Chemical Society. The submission deadline will be approximately September 10 for the October 2007 issue. Electronic submission is strongly preferred. All materials should be sent to:

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From the Chair

After a summer off from local section activities, we resume a new year for the Cincinnati local section with the 4th annual picnic at Germania Park on Sunday, September 23rd. This is a great opportunity to meet new friends and greet old ones in a very informal and enjoyable venue. If you haven't attended the picnic before, I encourage you to give it a try (details are listed on the cover page of this issue of CINTACS). October is always a busy month. The 2007 Oesper Symposium at UC on October 19-20 will honor James Collman and is followed immediately by National Chemistry Week, October 21-27, celebrating "The Many Faces of Chemistry". After taking November off, we resume with the December meeting at Xavier featuring Matt Platz who will do double duty as organic discussion section speaker as well as the featured speaker on innovative ways to use reactive intermediates to kill viruses in the blood supply. In January, we will recognize the Chemist and Research Associate of the Year at a new venue, the Sharonville Convention Center, and in February, an ACS tour speaker, Henry Bungay, will address a timely subject, "Bioenergy without Hype". In March, Tracy Hamilton, another ACS speaker will address a favorite topic, the chemistry of beer. He will be joined by Ken Lee, the Brewmaster at Sam Adams Brewery in Cincinnati. A tasting and pairing of beer with the menu items are planned. The meeting is at the Great Wolf Lodge at Kings Island, a beautiful new venue. At the Awards night in April at NKU, John Fortman will talk about "The Awesome Variety of Things that Chemists Do" and we will end the year with a buffet on the Riverboat Deck above center field for Party Night in May at the Great American Ballpark. I hope that there is something for everyone at each meeting and I ask you to encourage your reluctant colleagues to stick a toe in the water and attend a few meetings.

There are some important changes in the local section worth highlighting. After many years of dedicated service to the section, Bruce Ault is stepping down as editor of CINTACS and Kevin Ashley is taking his place. Similarly, after many years of excellent service, Kim Carey is passing responsibility for the website to Matt Gardlik. The existing website (<http://www.che.uc.edu/acs/cinacs.html>) has a link to the new website (<http://www.acscincinnati.org/acs/>). Website information will soon be updated and additional content added. If you have suggestions for new website content, let me know.

This note will end with congratulations to the section members involved in National Chemistry Week and the SEED program. Both have been selected as finalists for ChemLuminary Awards to be presented at the August ACS meeting in Boston. These awards reflect the consistent track record the Cincinnati section has sustained in service to chemistry and the community. Congratulations to Victor Arredondo (again!), Suri Iyer and all who helped make these efforts a success.

I hope to see many of you at the picnic, September 23rd.

John Janusz

(Continued from page 1)

the internet, call 513-556-0293; leave name, affiliation, a contact phone number, and state if you are in one of the half price categories. *The deadline for registration is Monday, Sept. 17. When you register please indicate the number of adults and children attending.*

Directions to Germania Park, 3529 West. Kemper Road, Cincinnati, OH 45251

From I-275 take the Colerain Avenue exit and go north on Colerain (Rt 27) for about 2.5 miles. Take the Kemper Road exit and turn right onto Kemper. Germania Park is on the right after about 1.3 miles. From I-275 W, take exit # 36 toward Mt. Healthy. Turn right onto Hamilton Avenue (Rt 127) and go north about 0.8 miles. Turn left onto West Kemper Road. Germania Park is on the left after 1.6 miles.

Contact Joy Henderson at 513-948-2359, acscincinnati@yahoo.com or John Janusz at 513-622-3803, janusz.john@pg.com for additional information.

Oesper Banquet and Poster Session

Invitation to Participate in the Poster Session

The Department of Chemistry, University of Cincinnati and The American Chemical Society, Cincinnati Chapter, announce the 27th Ralph & Helen Oesper Banquet, Poster Session & Symposium. Professor James P. Collman, Stanford University, is this year's Oesper Award winner. The poster session and banquet will be held on October 19, with the symposium taking place on the 20th.

Abstracts are invited for the 27th Ralph and Helen Oesper Symposium Poster Session. The abstract should be single spaced and should include 100 words or less, not including references. Please send your abstracts to Heather Trenary at hrtrenary@gmail.com by October 5th. For more details about the symposium, banquet reservations, the poster session, model abstract, and other information, log on to: http://www.che.uc.edu/alumni_community/oesper/default3.html

James Collman to Receive 2007 Oesper Award

The Department of Chemistry at the University of Cincinnati, and the Cincinnati Section of the ACS will present the 2007 Oesper Award to Professor James Collman from Stanford University at the Oesper Banquet and Symposium, October 19-20, 2007.



Professor James P. Collman is currently the George A. and Hilda M. Daubert Professor of Chemistry at Stanford University. He has made a lasting impact in numerous areas of chemistry, chiefly in organometallic and bioinorganic chemistry. He has won numerous national and international awards in both inorganic and organic chemistry, and has been a member of both the National Academy of Sciences and the American Academy of Arts and Sciences since 1975. He has published more than 340 scientific papers. His impact on chemistry will continue well into the future as he currently has more than forty former students and postdocs in academia, including *two* former postdocs who have gone on to win Nobel Prizes in Chemistry.

The 2007 Oesper Banquet will be held on Friday evening, Oct. 19, and will feature Professor John Brauman from Stanford University as the after-dinner speaker. The 2007 Oesper Symposium will be held on October 20, 2007 and will feature Professor Kimoon Kim, Pohang University of Science & Technology, Dr. Matthew J. Holcombe, Nove Technologies, Inc., Professor Christopher A. Reed, University of California, Riverside, and Professor Barry K. Sharpless, The Scripps Research Institute, as well as the award address given by Professor Collman. Professor Collman will speak on, "Steady-State 4-Electron Reduction of Oxygen by a Synthetic Analog of Cytochrome C Oxidase under Rate-Limiting Electron Flux." Mark your calendars now!

Science Café on Chemistry Careers

Mark your calendars! Spread the word! Help us make this Science Café a success! Make plans now to be a part of this event which will explore career paths in chemistry and other STEM (Science, Technology, Engineering and Mathematics) fields!

Who: You, your friends and neighbors, and your kids' teachers (graduate credit available for participating teachers)

What: Science Cafés are designed to give scientists and non-scientists the opportunity to gather in an informal environment to discuss the latest scientific topics. This Café will promote awareness of unusual and exciting chemistry careers and provide robust dialog on attracting students to these career paths. The event will include:

Plenary session by Bill Carroll entitled The Evolving Chemistry Enterprise: Where Will We Be in 2015?,

Presentations by area scientists (this means YOU!), and

30-minute breakout sessions led by Bill and area scientists highlighting exciting careers available in local chemical industries.

Where: The new community center in Johnston Hall on the Miami University Middletown Campus (map and directions available at http://www.mid.muohio.edu/about/campus_map.cfm)

When: October 6, 2007, from 9 AM to 3:30 PM—If your schedule permits, stay for the whole session. If time is limited, we hope you'll join us for Bill's plenary session. (Schedule details will be posted on the Cincinnati Section website.)

Why: Teachers can't guide students to consider

career paths if they don't know such careers exist. For example, until the recent focus on forensic science began in the media, how many children said they wanted to be forensic scientists? Not many. Now it's among the top career aspirations among young people. Working together, we can give other chemistry careers a similar boost.

How: We need your help! **Present** on your unique chemistry career and employer, **promote** the event to teachers and the general public, and **attend** the event. (Contact Susan Hershberger as soon as possible at hershbs@muohio.edu or 513-727-3438 if you are willing to make a presentation and/or lead a break-out session about your career and employer.) By September 28, make a reservation to attend by contacting Kate Miller (reharkcm@muohio.edu, 513-727-3470) so that we'll have enough f

Featured Speaker:

Bill Carroll is a dynamic speaker who brings scientific and general public audiences to new understandings of issues facing the chemical industries and their workforces through engaging metaphors and rich storytelling. He was the 2005 President of the ACS and is Vice President, Chlorovinyl Issues, for Occidental Petroleum Corporation. He works on public policy issues and communications related to chlorine and PVC. He is also Adjunct Professor of Chemistry at Indiana University, Bloomington, Indiana, where he teaches polymer chemistry.

National Chemistry Week 2007:

This Café provides a great chance to get a jump start on the 2008 National Chemistry Week theme—"The Many Faces of Chemistry."

Sponsorship:

This event is generously sponsored by the American Chemical Society and the Ohio Board of Regents.

CERMACS 2007 Awards

Several awards were presented during the Central Region meeting of the ACS held May 20-24 at the Northern Kentucky Convention Center. These awards honor excellence in teaching, commercial innovation, volunteerism, and student research.

The "ACS Division of Chemical Education Central Region Award for Excellence in High School Teaching" was awarded to **Ms. Rachel Badanowski**, Southfield High School, ACS-Detroit Section.

The "ACS Central Region Volunteer Award," was awarded to **Dr. Victor Arredondo**, Procter & Gamble, ACS-Cincinnati Section.

Two awards for the "ACS Central Region Industrial Innovation Award," were presented:

Dr. Mark R. Sivik, Procter & Gamble, ACS-Cincinnati Section

Dr. Binh T. Nguyen, Dow Corning, ACS-Midland Section.

Awards were given to acknowledge research presented in poster format based on "clarity of problem statement, originality of research, cross-discipline collaboration, and overall presentation quality."

Outstanding Poster from a High School Student:
Suzanne E. Camp, Loveland HS, Ohio (directed by Dr. Rajiv Soman, University of Cincinnati)

Outstanding Poster from an Undergraduate Student:
Whitney Schmidt, Northern Kentucky University (directed by Dr. Heather Bullen)
Adam C. Link, Ohio University (directed by Dr. Klaus Himmeldirk)

Outstanding Poster from a Graduate Student:
Sayande Chatterjee, University of Cincinnati (directed by Dr. William Connick)
Joel Deve, Northern Kentucky University (directed by Dr. Keith Walters)
Abhijit Jadhav, University of Cincinnati (directed by Dr. Anna Gudmundsdottir)

Awards Committee Chair:
Dr. Jeff Seeley, Procter & Gamble Co.

National Chemistry Week 2007

"The Many Faces of Chemistry"

National Chemistry Week (NCW) is a community based program of the American Chemical Society (ACS). The mission of this annual event is to:

- communicate the importance of chemistry to our modern quality of life to the public, particularly elementary and secondary school children, and
- unite ACS local sections, businesses, schools and individuals on a achieving this goal

What do we do? We carry fun, educational chemistry demonstrations and hands on activities all over the Tri-State. The celebration dates for this year's NCW is October 21-27th, and planning is underway. I want to invite all interested chemistry practitioners (chemists, teachers, students) to join the Cincinnati ACS NCW volunteer team. There are many ways you can contribute to the NCW campaign: performing chemical demonstrations, conducting hands-on-activities with children, helping to plan/coordinate an event at a particular venue, writing articles or letters to local papers, etc.

The team also welcomes and appreciates any ideas for chemistry demos for this year's theme, so please share them with us. Contact Victor M. Arredondo, NCW chair, at arredondo.vm@pg.com, (513) 626-0242. Thank you, I look forward hearing from you!!

Mailing Address Updates

The CINTACS editor from time to time receives requests from Section members to change their mailing address for CINTACS. Unfortunately, we cannot do this locally. The mailing address information for CINTACS goes directly to our printers from ACS national, after which mailing labels are prepared. To change your address for CINTACS, you need to send ACS national your updated contact information. Fortunately, this is very easy to do. ACS members

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Executive and Auditing Committees, Cincinnati Section American Chemical Society, 2007-2008

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<i>Auditor</i> (6/08)	Mullins, Richard Xavier University Chemistry Dept. 3800 Victory Parkway Cincinnati, OH 45207-4221	513-745-3361 mullinsr@xu.edu
<i>Auditor</i> (6/07)	Story, Gloria Procter and Gamble Co. PO Box 539707 Cincinnati, OH 45253-8707	513-627-2840 story.gm@pg.com
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<i>Trustee</i> (6/07)	Rizzi, George P. 542 Blossomhill Ln. Cincinnati, OH 45224	513-761-0816 georgerizzi@yahoo.com
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Cincinnati Section Younger Chemists Committee, '07-'08 edition

As with the rest of the local section ACS, YCC is gearing up for a new season of activities for those in chemistry-related fields age 35 and under (though we don't check IDs). The purpose of YCC is to address the needs and interests of younger chemists in the region: those entering a new phase in their careers, those recently relocated looking for opportunities to socialize, and of course students of all sorts. Traditional YCC events include Happy Hours, tours, and the occasional speaker, so look for some mix of these throughout the coming year. As always, your ideas and suggestions are both welcomed and encouraged. Our first event will be a Happy Hour to start things off and get reacquainted-look for specifics in the next CINTACS. Remember, this is YOUR group, there's a lot of flexibility,

so if you have an idea, there's a good chance we can make it happen. E-mail questions or comments to the YCC chair Sean Conklin: conklinsd@hotmail.com.

Meeting Sponsors for Eight Section Meetings

We have 8 meetings scheduled in the 2007-2008 Cincinnati Section Program year (There is no meeting in November). Our goal is to have a sponsor for each. Sponsorship entails a \$1000 cash or "in kind" contribution to defray meeting expenses, leading to better programs, higher attendance, and more student attendance. We believe our sponsorship program is meeting these goals and thus we are continuing the program for 2007-2008 and beyond. As in the past 5 years, corporations, academic institutions, retirees, and other individuals have volunteered to be sponsors.

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So far we have 5 sponsors lined up for the program year: University of Cincinnati, Xavier, Givaudan, Procter & Gamble, and Girindus America. We hope to add three more sponsors to complete the roster, within the month.

If you would like to be a sponsor, or can suggest individuals, companies, or academic institutions who would be willing to help this worthy cause, please contact the undersigned.

Ted J. Logan, Chair
Sponsorship Solicitations Committee
Tel.: 513-385-8856
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 - Phone Number
 - Email Address
- Nature of Your Business

Visit the ChemInsight web page at:

<https://cheminsight.org/portal/acs>

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can update address and member information conveniently at:

<http://acswebapplications.acs.org/applications/addrupdate/addrchange.cfm>

(make sure you get both lines of the URL into your web browser's address line).

Changes made at this site will affect all of your ACS official mailings (dues notices and so forth, as well as CINTACS). If you need additional information, contact Kevin Ashley at KAshley@cdc.gov or 513-841-4402.



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Central Regional Meeting of the American Chemical Society, CERMACS 2007

CERMACS 2007 was hosted by the Cincinnati Section of the ACS, and took place on May 20-23 at the Northern Kentucky Convention Center, Covington, KY.

The CERMACS 2007 technical program contained over 500 presentations (oral presentations and posters), and there were nearly 1,000 attendees. Over 25 exhibitors and 15 sponsors supported the conference. For a full re-cap of CERMACS 2007, visit the Cincinnati Section ACS website at: http://www.che.uc.edu/cermacs/CERMACS_07.htm.



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ACS Cincinnati Section Women Chemists Commit- tee

The Cincinnati Section of the ACS Women Chemists Committee (WCC) is initiating an effort to form a steering committee for the purpose of identifying services and activities that will be of value to the Women Chemists of Cincinnati. An email survey has been sent to female Cincinnati Section ACS members. Please respond to the survey! If you did not receive a survey, please send your contact information to Tina Engel by email (engel.tm@pg.com) or by phone (513-622-3723). Please provide the following information:

- First and Last Name
- Employer (if employed)
- Work and/or Home Phone Number
- Email address

Look for additional information on the Cincinnati Section ACS WCC in future issues of CINTACS.

The Women Chemists Committee serves the membership of the American Chemical Society. Our mission is to be leaders in attracting, developing and promoting women in the chemical sciences. There are three goals designed to fulfill the mission statement: 1. Attract women to a profession in the chemical sciences. 2. Provide leadership for career development opportunities for women in the chemical sciences. 3. Promote and recognize the professional accomplishments of women in the chemical sciences.

For information on the ACS National WCC, visit the website at <http://membership.acs.org/W/WCC/>

ACS Women Chemists Committee
1155 Sixteenth Street NW
Washington, DC 20036

This Month in Chemical History

Harold Goldwhite
California State University, Los Angeles
hgoldwh@calstatela.edu

A towering giant of the physical sciences, and yet one of the most modest and unassuming of men, was born on September 22, 1791, in Surrey, England, third child of a blacksmith and a farmer's daughter. Michael Faraday has always been one of my scientific heroes. He was essentially self-educated, and born and raised in humble circumstances. By force of character and intellect he became a leader among chemists and physicists. His life is an exemplary one, and well worth recounting.

The Faraday family moved to London when Michael was only 5, and when he was still in his teens his father died. His early education was fragmentary: "consisting of little more than the rudiments of reading, writing, and arithmetic at a common day school" to quote the man himself. At the age of 13 he became an errand boy in the shop of a bookbinder and stationer, and at 14 became an apprentice in the same shop. "Whilst an apprentice I loved to read the scientific books which were under my hands, and among them delighted in [Mrs.] Marcet's Conversations in Chemistry and the electrical treatises in the Encyclopedia Britannica. I made such simple experiments in chemistry as could be defrayed in their expense by a few pence per week, and also constructed an electrical machine ..." We see here the themes of chemistry and electricity which were to become the center of Faraday's scientific work.

In 1812 a customer took Faraday to hear some lectures by Sir Humphrey Davy, Professor at the Royal Institution. Inspired by these, and by his own reading, Faraday made careful copperplate notes of the lectures, embellished with drawings, and eventually sent them to Davy with a request to be considered for a position. Davy interviewed Faraday, gave him a realistic appraisal of the prospects of a career in science: "telling me that science was a harsh mistress and in a pecuniary point of view but poorly rewarding those who devoted themselves to her service"; and eventually appointed him as a laboratory

assistant. Davy had recently married a rich widow, and was reducing his involvement with the Royal Institution. In 1813 he and Lady Davy, accompanied by Faraday, made an extended tour of Europe and in Florence, Faraday assisted Davy in combustion of diamond at the focus of a large burning lens. Faraday was promoted in 1815, and in 1816 gave his first course of lectures and published his first paper, analyzing the native caustic lime of Tuscany. In 1817 six publications of Faraday's appeared. His early chemical work included a variety of analyses, and experiments on novel alloys of iron. In 1821 Faraday was promoted again, to the post of superintendent of the laboratory, and this allowed him to marry, since living quarters were furnished for him at the Institution.

By 1824, when he was 33, Faraday had been elected to the Royal Society, had collaborated with Davy on the liquefaction of chlorine and ammonia, and had begun his work on the relationship between magnetism and electricity. He was also involved in some more practical matters. The Royal Society asked him to work on improving optical glasses. Faraday was a hard worker, and unsparing of himself. His laboratory notebooks, which have been published and which are models of note-taking, show how hard he drove himself. In 1827 he published a book on Chemical Manipulation which went through four editions, and is a wonderful source of information about how early nineteenth-century chemistry was actually done.

He took few holidays, and suffered periodically from fatigue and exhaustion. In 1833 and 1834, turning to electrical conduction, he established the principles of electrochemistry in what we now call Faraday's Laws. Seeking a nomenclature for this new subject he turned to Whewell at Cambridge, and they coined the terms so familiar to us all: electrode, ion, electrolysis etc.-- all derived from impeccable classical roots. Towards the end of the 1830's Faraday took on yet more public responsibilities, including acting as an elder in his church. The weight of his burdens broke him for a while. He had to stop his scientific work for a year, and for four years he greatly reduced his lecturing and research. However he maintained one important tradition of the Royal Institution, namely the presentation of a lecture course around Christmas time to a

(Continued on page 13)

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juvenile audience. One of these lecture series is one of the classics of popular science, and has remained in print continuously from the time it was first given. I refer, of course, to Faraday's *Chemical History of a Candle*. If you haven't yet read it, you have a treat in store.

Faraday's last years as a researcher were devoted to studying the effects of magnetic fields on light, and he did further work on gas liquefaction. The last decade of his life saw a great diminution of his scientific work, but he had well earned his retirement. He died on August 25, 1867. Let me end with a quotation from J. R. Partington, the eminent historian of chemistry. "In his time Faraday was a model for scientific men. Of humble origin, he rose by his genius to the highest rank of scientific eminence, and his moral character and integrity were on the same level."

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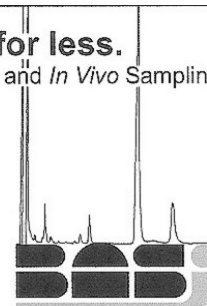
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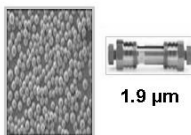


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