

# CINTACS



Newsletter of the Cincinnati Section of the American Chemical Society

February, 2007  
Vol. 44, No. 5

## Meeting Calendar

Feb. 15	Chemist of the Year Givaudan Flavors
Mar. 14	Shirley Corriher Beckett Ridge CC (joint w. Dayton Section)
Apr. 19	M. Sarquis/L. Hogue Teachers Night Northern Kentucky U.
May. 23	Party Night HofbrauHaus Newport, KY

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## Section Home Page:

[http://www.che.uc.edu/  
acs](http://www.che.uc.edu/acs)

## February Monthly Meeting 2007 Cincinnati Chemist of the Year

*The evolution of bisphosphonates such as Actonel® into the leading nonhormonal therapies for osteoporosis, and the role played by Cincinnati chemists in their development*

*honoring Dr. Hal Ebetino*



### Abstract\*

The discovery and development of the bisphosphonates for use in the treatment of bone disease represents a unique, interdisciplinary example of drug discovery. The fields of biochemistry, biomineralization science, pharmacology, and medicinal chemistry were utilized and continue to be important, in the study of the optimal drug alternatives within this class for clinical use. Founding work on the bisphosphonate etidronate, a mimic of the natural bone regulator pyrophosphate, by scientists at Procter and

*(Continued on page 4)*

### About the Award Winner and Speaker

Frank H. Ebetino received a B.S. in Chemistry at St. Lawrence University and his M.S. & PhD degrees in Organic Chemistry at the University of Rochester. His advanced degrees were earned under the mentorship of Prof. Andrew S. Kende. Dr.

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**THE CINTACS NEWSLETTER****Vol. 44, No. 5 February, 2007**

Editor.....Bruce S. Ault  
 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 March 6 for the April, 2007 issue. Electronic submission is strongly preferred. All materials should be sent to:

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From the Chair,

The February meeting is the time when the Cincinnati Section recognizes outstanding local chemists and research associates with respective Annual Awards. It is with great pleasure that I announce the winner of our 2007 Cincinnati Chemist Award to be Dr. Hal Ebetino of Procter & Gamble Pharmaceuticals. Hal Ebetino is a medicinal chemist with over twenty years experience spanning a wide range of therapeutic areas. Currently he is a Research Fellow in New Drug Development at P&GP in Mason. He is especially renowned for his extensive work on SAR and mechanism of action of bisphosphonates; work which has led to many successful drugs in the marketplace such as Risedronate (Actonel®) [see more in this CINTACS].

Regrettably, I must also announce that no nominations were received for a deserving research associate this year.

We thank the Givaudan Flavors for once again sponsoring this traditional Award Meeting and Phil Christenson for handling the meeting site arrangements. In line with my goal of providing our members with more opportunities for professional contacts this meeting will be held jointly with the Ohio Valley Section of The American Institute of Chemical Engineers (AIChE). AIChE is just one of many technical societies whose chapters comprise a larger local organization known as the Engineers and Scientists of Cincinnati or simply as the ESC. Older ACS members may recall how we once held our monthly meetings in the formerly-owned ESC headquarters building on E. McMillan Avenue. Like ACS, the ESC presents annual awards and many of our members have been honored in the past as their "Distinguished Scientist of the Year". As chemists we are sometimes seen by others as having a rather myopic view of technology as a whole. I am hopeful that by having more joint meetings with other professional societies we can dispel that notion.

Also in February three Discussion Groups are planned spanning a wide range of interest. Joy Henderson will convene a group for Career Development which should appeal especially to younger chemists while chemist/turned patent lawyer Clement Luken will discuss inventions and patents, a subject close to home for those of us working in industry. And, as a final bonus for our AIChE attendees and others, a representative from Givaudan will be offering a company overview presentation during our DG period.

Looking ahead to March, our meeting will be on March 14<sup>th</sup> at the Beckett Ridge Country Club in West Chester. A joint meeting is planned with Dayton Section (Peter Mirau, Chair) and our guest speaker is chemist/culinary expert Shirley Corriher from Atlanta. In addition we'll be having a Chemical Information DG featuring Bartlow Culp from Purdue U. This meeting should be both fun and educational and a nice one for inviting a spouse or good friend. Please

*(Continued on page 15)*

**February Monthly Meeting  
Thursday , February 15, 2007**

**Givaudan Flavors  
1199 Edison Dr.  
Cincinnati, Ohio**

**Joint meeting with the American Institute of Chemical Engineers  
(AIChE), Ohio Valley Section**

**Sponsored by Givaudan Flavors**

*Honoring, Dr. Hal Ebetino 2007 Cincinnati Chemist of the Year*

**Program**

5:30 – 7:00 pm	Registration	
5:30 – 6:30 pm	Joint Discussion Group with AIChE	DTR #2
	Career Development Discussion Group with Joy Henderson	CDR #2
	<i>(see page 5 for details)</i>	
	Discussion Group on Technical Patents with Clem Luken	CDR #1
	<i>(see page 5 for details)</i>	
6:00 – 7:00 pm	Social Hour: Cheese with crackers and grapes, veggies with dip, punch, iced tea, soft drinks	
7:00 - 8:00 pm	Buffet Dinner, House Salad, Sliced Roast Beef au jus and Horseradish Cream Sauce, Stuffed Chicken Florentine, Steamed Vegetables, Roasted Red Skin Potatoes, New York Style Cheesecake with Raspberry Sauce and coffee	
	\$20.00 (\$10.00 students, emeritus, unemployed and new members)	
8:00 pm	Meeting and Featured Speaker, Dr. Hal Ebetino	

**Dinner Reservations:** The meeting reservation form is online at <http://www.che.uc.edu/acs/cinacs.html>. This is the best and easiest way to register. As a lesser alternative, you may send your reservations by email to [kim.carey@uc.edu](mailto:kim.carey@uc.edu). If it is absolutely impossible for you to make reservation via the internet, call 513-556-0293 (please leave name, affiliation, a contact phone number and state if you are in one of the ½ price categories). Deadline for reservations is 12:00 noon on Monday, Feb. 12.

**Directions:**

**From I-75 North**, take the Towne St. exit. Go right at the end of the exit. Turn left at the light onto Paddock Rd. At the first light, turn left onto Edison Dr. and enter the TechSolve Research Park. Givaudan Flavors is on the left, however, continue on Edison past the visitors entrance and park in the employee parking lot which is behind the building. Use the entrance near the south end of the parking lot. The entrance will be marked.

**From I-75 South**, take the Paddock Rd exit and turn left at the end of the exit onto Paddock Rd. Turn right at the third stoplight onto Edison Dr and continue as above.

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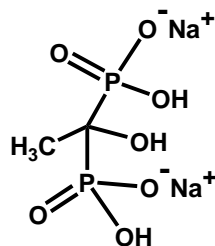
Ebetino has over 22 years of medicinal chemistry experience and has been conducting research at Procter & Gamble Pharmaceuticals since 1984, where he currently holds the title of Research Fellow, New Drug Development. He has been a Visiting Scholar at the University of Southern California, Los Angeles, since 2003. His research and publications span a variety of therapeutic areas ranging from Cardiac, Bone Metabolism, Cancer, Anti-infectives, Obesity and Arthritis. He is most well known for his many years of research on a class of bone active agents, bisphosphonates, where he was part of the Procter and Gamble team that discovered the therapeutic agent Actonel for Osteoporosis. His further work on structure-activity relationships and collaborations on the bisphosphonate mechanism of inhibition of bone loss helped lead to the ultimate discovery of their enzymatic target within the bone cell, the osteoclast. In 1998, he was the organizer and chairman of the XIVth International Conference on Phosphorus Chemistry (ICPC) in which the Cincinnati Local Section played an important role in this event as the host and as a sponsor of this meeting where many members participated on the local organizing committee. He has served as a member of the international scientific boards of both the ICPC conferences and the International Conferences on Bisphosphonates in Davos, Switzerland for over 10 years. Dr. Ebetino has been very active in the American Chemical Society, chairing the Norwich, N.Y. Section in 1990 and the Cincinnati Local Section in 1999-00. His current research interests include organophosphorus, heterocyclic, and peptidomimetic chemistry. This research also extends to the biochemistry, physical chemistry, and pharmacology of bisphosphonates in the fields of bone metabolism, cancer, and arthritis. Dr. Ebetino has presented over 60 invited lectures at conferences and universities. He has also coauthored over 200 other conference posters and lectures, and over 100 journal articles and patent applications.

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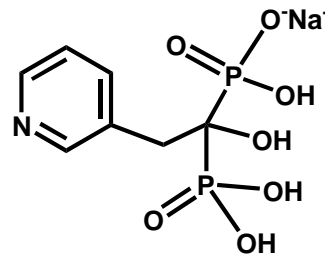
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Gamble collaborating with an academic institution, led to the first discovery of the *in vivo* activity of this class.

Etidronate



Risedronate



The clinical success of this early bisphosphonate stimulated further research to expand the oppor-

tunities available with this drug series. This led to the discovery of the highly potent nitrogen containing bisphosphonate subclass, which now includes most of the bisphosphonates currently used in the clinic. The synthesis and screening of more than 200 bisphosphonate compounds led to the selection and development of risedronate as a drug for the treatment of osteoporosis. These advanced studies also demonstrated that certain structural requirements were necessary for specific bone resorption inhibitory effects. The pyridinyl bisphosphonate risedronate, for example, has its key nitrogen moiety anchored in a preferred orientation for optimal interaction at its intracellular target; Farnesyl Pyrophosphate Synthase. Most recently, molecular modeling, enzyme-ligand protein crystallography, and enzyme kinetics have offered new insight into the mechanism of action of the nitrogen containing bisphosphonates at this enzymatic target and further highlighted the specificity of this class.

Similarities and differences among the bisphosphonates continue to be contrasted. A variety of studies have demonstrated a number of differential activities among the members of this class, including differences in enzyme inhibitory potencies, differences in their strikingly unique bone mineral interactions, as well as differences in their effects *in vivo*. A novel modeling concept has also been developed to explain differences in the bisphosphonates' interactions on hydroxyapatite, the main inorganic calcium phosphate mineral phase in bone. Work continues to better link

(Continued on page 8)

## Career Development Discussion Group

Joy Henderson

All are welcome to attend an informal networking and brainstorming session regarding ways to continue professional development within your current employment position, given the constraints of time, funding, and employer support. The discussion will include examples of programs and efforts made in various areas of industry and education.



### About the Discussion Group Leader

Joy Henderson is an analytical chemist in the Ingredients Group of Flavor Creation at Givaudan in Bond Hill. She taught high school chemistry at St. Ursula Academy for 5 years, before leaving education (but not for good!) to work in industry full time. After teaching, Joy worked for 1 ½ years as an analytical chemist at Barr Laboratories. Joy was the chair of the local section's Younger Chemists Committee for nearly 4 years and is currently the local Career Development chair and the Second Vice Chair for the section.

## Chemistry and the Law Discussion Group

*Securing a Patent – the Proof is in the Paper*

Clem Luken, J.D.

Wood, Herron and Evans

For those inventors not continually involved in the process of filing and prosecuting a patent application, the trials and tribulations encountered during the prosecution process can seem daunting. Frankly, even inventors continually clued into the process at times will likely be confused and frustrated. This discussion group meeting is intended to provide an overview to the reasoning behind the requirements made by the U.S. Patent Of-

ice, the courts and by your own patent attorney relating to providing a description of your invention, identifying the existing patents and other publications of which you are aware, and in otherwise providing the information to the U.S. Patent Office which will ultimately result in a well-defined and enforceable patent property.



### About the Discussion Group Leader

Clem Luken is a partner with the intellectual property firm of Wood, Herron and Evans in Cincinnati, OH. The firm has specialized in obtaining and protecting patents, copyrights and trademarks since 1868. Clem earned his undergraduate degree in chemistry (magna cum laude) from Xavier University in

*(Continued on page 13)*



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## Experimental Design for Productivity and Quality in R&D

**Stanley N. Deming and Stephen L. Morgan, Instructors**

**Monday through Wednesday, April 30 – May 2, 2007**

**Mason Business Center: The Procter & Gamble Company 8700 Mason-Montgomery Road, Mason OH**

*The acclaimed course that teaches the proper way to design experiments for improved research quality.*

### Who Should Attend

Chemical scientists, engineers, R&D managers, and others who need to learn proven methods or designing quality into products and processes. The course assumes no previous knowledge of statistics and is aimed at both beginning and experienced R&D workers. Each participant should bring a hand-held calculator to the course.

### Key Topics You'll Learn About

- Basic concepts of experimental design.
- Strengths and limitations of popular experimental design techniques.
- Applicability of common designs.
- Determining which experimental designs are appropriate or inappropriate for particular situations.

### How You'll Benefit from This Course

- Get solutions to your experimental design problems from seasoned experts.
- Learn how to significantly improve R&D quality and efficiency.
- Become more efficient in performing experiments by learning how to save resources by eliminating unnecessary experimentation.
- Learn how to match appropriate experimental designs to real-world problems.
- Gain an improved understanding of statistical process control and statistical quality control.
- Understand statistical terminology and be able to communicate more easily with statisticians.
- Develop a firm foundation for understanding advanced design techniques.
- Receive a brief introduction to Taguchi methods.
- Learn about commercial software packages for data treatment.
- Improve your skills in communicating research strategies to co-workers.

### About the Instructors

**Stanley N. Deming** is Professor Emeritus of Chemistry at the University of Houston, Texas. He is also the President of Statistical Designs. Dr. Deming is the author or co-author of more than 90 publications in the areas of analytical chemistry and related disciplines.

**Stephen L. Morgan** is Professor of Chemistry at the University of South Carolina. His current research interests include optimization and experimental design in chemistry, pattern recognition on chemical information, and data preprocessing strategies. Dr. Morgan is the author of more than 100 publications in the field of analytical chemistry and analytical biochemistry.

### Program Agenda

Check-in will begin at 8:10 a.m. the first day. The course will be taught from 8:30 a.m. to 5:00 p.m. each day. If you have technical questions about the course, contact Dr. Deming at (713) 947-1551 or at [standeming@statisticaldesigns.com](mailto:standeming@statisticaldesigns.com).

### Date and Site

April 30 – May 2, 2007, this is a 3-day course. Location: Mason Business Center (formerly Health Care Research Center) -- The Procter & Gamble Company, 8700 Mason-Montgomery Road, Mason, Ohio 45040.

### Registration and Fees

The course fee will be **\$675 for ACS members** and **\$775 for non-members** (compare to \$1345/\$1445 at a National ACS meeting). The fee includes course materials, continental breakfast, lunch, and refreshment breaks for all 3 days. Seating will be limited. Please call Rick White at 513-622-1624 and leave a voice mail with your name, affiliation, and phone number to reserve your seat today. Payment can be made by credit card at the CINTACS website (<http://www.che.uc.edu/acs>), or by sending check or money order, payable to "Cincinnati Section ACS", to the address listed below. **Payment must be received by Friday, April 20.**

Dr. Rick White, The Procter & Gamble Co.  
Health Care Research Center, Box 705, 8700 Mason-Montgomery Rd.  
Mason, OH 45040

## Greetings from Your Section's Membership Chair....

My responsibility is to maintain the list of members in the section, along with their email addresses. Periodically, I am asked by the section chair, or leaders from other groups in the section, to send email messages to the members-at-large for quick updates between CINTACS issues. This is especially important to remind members on deadlines for meeting registrations! There are no other uses for this email list, and every precaution is taken to protect the privacy of every member. If you are not receiving these updates, and would like to, send me an email at [story.gm@pg.com](mailto:story.gm@pg.com) to get added to the list. The next time you renew your membership, take the time to update your information (work/home addresses and email). Be advised that if you have problems receiving your CINTACS, it could be the address you've chosen to be your primary address. I had to change from my work address to my home address to solve my delivery problems. Hopefully, this little article will help keep the information flowing. I will make every attempt to keep the emails brief and the traffic low. Thank you! Gloria Story

## O'Dell Owens Presentation Follow-up

Following Dr. Owens's presentation at XU on Dec. 14, several persons asked for contact info where they might volunteer their services to help with inner-city education. Those interested in volunteering should contact Ms. Michelle Griffen at the Hamilton County Coroner's office, (513) 946-8716.

Visit the  
Section's Home Page

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## Final Listing of Sponsors for the 2006-7 Section Program

We now have a sponsor for each of the 8 Section meetings in the 2006-7 program year. This is the 5th straight year that our generous individual members, academic institutions, and industries have seen the value of sponsorship and stepped forward to fund this important need.

The meeting dates and specific sponsors for each meeting are presented below:

Meeting Date	Sponsor
Sept. 24, 2006	Dr. R. G. Laughlin
October 27, 2006	U. of Cincinnati, Chemistry
November	No Meeting
Dec. 14, 2006	Xavier University, Chemistry
Jan. 18, 2007	Procter & Gamble Company
Feb. 15, 2007	Givaudan Flavors
March 14, 2007	Advanced Testing Laboratory.
April 18, 2007	Girindus America, Inc.
May 23, 2007	Dr. Milton Orchin

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## Project SEED for High School Students - Summer 2007

For the fifth summer in a row, the Cincinnati Section will participate in the 2007 Project SEED Program, an ACS sponsored program that places economically disadvantaged high school students in academic, industrial, and governmental research laboratories for eight-to-ten weeks during the summer.

The program will build on its success from the past four summers, during which students from Aiken, Hamilton, Jacobs, Purcell Marian, Winton Woods, and Withrow International high schools worked with University of Cincinnati and Xavier University chemistry faculty. This coming summer will involve as many as four students who each will receive \$2,500 while working for 8-10 weeks in local research laboratories under the direct supervision of a mentor.

If you are a high school teacher with a student who might be interested in participating or if you are a practicing chemist (academia, industry or government) who would like to host a student, or make a contribution to the program, please contact the program coordinator, Dr. Suri Iyer at the University of Cincinnati, [suri.iyer@uc.edu](mailto:suri.iyer@uc.edu). Student eligibility and application information are available at [http://www.che.uc.edu/undergraduate/hs\\_research.html](http://www.che.uc.edu/undergraduate/hs_research.html). Participating research sites are expected to contribute a fraction of the stipend for each hosted student.

## 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 can update address and member information conveniently at:

<http://acswebapplications.acs.org/applications/addupdate/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).

*(Continued from page 4)*

these mechanistic aspects to clinical observations. Risedronate is now marketed, as the prescription medication Actonel®, for the prevention and treatment of osteoporosis. Overall, this class of drugs has become a widely accepted alternative to previously utilized hormonal therapies for post-menopausal osteoporosis.

\* co-authored by James J. Benedict, Christopher Perkins, Charles R. Degenhardt, Ray P. D'Alonzo, Susan M. Dansereau, M. David Francis, R. Graham, G. Russell, Roger Phipps, & Bobby Barnett.



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## Chemical Information Update – Google Patent Search

Edlyn S. Simmons, Chair, Chemical Information Discussion Group

On December 14, 2006, alert users of the Google search engine found a new option under the “More” link on the homepage - Patents. Google users without much patent searching experience were delighted by the attractive display format and immediately began to question the need for expensive subscription patent databases. Experienced patent searchers began analyzing the database content and features, and within hours the Chemical Information and Patent Information Users Group discussion lists were abuzz with messages sharing a few successes and a lot of horror stories.

Google Patent Search is admittedly a beta version, and it needs a lot of work before becoming suitable for anything but document display and superficial patent searching. This column is being written only two weeks after Google Patent Search was introduced, and it may have changed by the time you read this, but here are some preliminary findings. Google Patent Search claims to contain all U.S. patents, but the database was at least four months out of date when this was written. Since 2001, the U.S. Patent and Trademark Office has been publishing patent applications before grant, but Google does not have published applications or, of course, patents from any other country. Searches for common terms never retrieved more than 1200 patents, suggesting an upper limit on the number of hits. Even searches for specific patent numbers

sometimes fail, suggesting that the file is incomplete. Tools for downloading full document images are still in the wish list stage.

The good news is that Google has converted the entire USPTO image database into text through optical character recognition. You can search the text of patents far older than those available in other free patent databases, but there are more garbled words in newer patents than in databases that use the USPTO text feed. Displaying the patent record gives you a copy of the patent document with your search terms highlighted throughout in pale yellow. Drawing page images are shown as part of the default display, along with the first page of the document, making this an exceptionally good place to view mechanical, electrical and design patents.

Like any other database that depends on keyword searching, Google Patent Search is an unreliable place to search for chemical compounds. Chemical nomenclature allows for great variation in terminology, spacing and punctuation, and only a database like Chemical Abstracts that indexes chemical structure or standardizes compound name formats can be counted to give good retrieval. Once you have a U.S. patent number, however, Google is an excellent place to view the patent document online.

There are a great many U.S. patent databases, and also a great many databases of patents from other countries. They vary enormously in cost and features. Google Patent Search has the advantage of being easy to find, because Google is on everyone’s desktop. But it has a long way to go before it deserves to be the patent database of choice.



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## CALL FOR PAPERS

**CERMACS 2007-ACS Central Regional Meeting  
Northern Kentucky Convention Center  
Covington, KY, May 20-23, 2007**

The CERMACS2007 organizing committee invites you to join us for an action packed meeting of science and fun! The meeting, with the theme "*Learn Today...Influence Tomorrow*" will have technical sessions, workshops and poster sessions spanning the breadth and depth of the wonderful world of chemistry. A small sampling of the special symposia planned are:

- **The "Fantastic Four" Science Guys---** Bassam Shkhashiri, David Katz, Al Hazari & John Fortman will amaze and delight you with their demonstrations.
- The real world of CSI Chemistry will be explored in the symposium "**Investigative Forensic Science**" featuring **William Dean, Chief of Forensic Sciences & his team at the Hamilton County Coroner's Office.** Coupled with this symposium is a session on teaching "Forensics in the Classroom"
- The scientific art of "dazzling and sensing" will be explained in multi-day symposia entitled "**Illuminating Molecules**" and "**Chemical & Biological Sensors**"

An ambitious undergraduate and graduate student program is also planned.

- A 2-day graduate workshop "**Preparing for Life After Graduate School**" (PFLAGS) will take place on May 18-20 at Xavier University.
- Workshops and sessions on "**Targeting the Job Market**", "**Resume Preparation**", "**Interviewing Skills**" and "**Going Somewhere?-Career Paths in Chemistry**" are open to all.
- Students will have an opportunity for individual **Resume Reviews.**
- Students are highly encouraged to present their research in the many general and poster sessions that are planned.

**For more information or to submit your abstract, follow the links at [www.cermacs2007.org](http://www.cermacs2007.org)**

For further information, please contact us:

**Technical Program:** Jeanette Krause,  
[jeanette.krause@uc.edu](mailto:jeanette.krause@uc.edu), 513-556-9226

**Exhibits:** Michael Kurutz, [kurutz@MeasureNet-Tech.com](mailto:kurutz@MeasureNet-Tech.com) or Robert Voorhees,  
[robert.voorhees@uc.edu](mailto:robert.voorhees@uc.edu), 513-556-9297

**Undergraduate/Student Affiliate Events:** Heather Bullen, [bullenh1@nku.edu](mailto:bullenh1@nku.edu), 859-572-5411 or Keith Walters, [walterske@nku.edu](mailto:walterske@nku.edu), 859-572-5315

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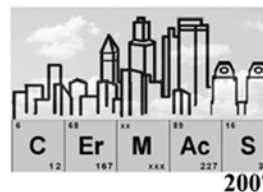


**Central Regional Meeting of the American  
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*Hosted by the Cincinnati Section of the ACS*

*Northern Kentucky Convention Center, Covington, KY*

**May 20-23, 2007**



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**For more information or to submit abstracts, follow the links on our website  
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*Symposia & General Sessions & Events*

- **Investigative Forensic Science** featuring William Dean, Chief of Forensic Sciences & his team at the Hamilton County Coroner's Office
- **Chemical Education** featuring the “Fantastic Four” Science Guys---Bassam Shkhashiri, David Katz, Al Hazari & John Fortman
- “**Illuminating Molecules**” and “**Chemical & Biological Sensors**” will enlighten us with the newest in the art of “dazzling and sensing”—probing photochemistry, photophysics & sensors around the region
- “**Art of Brewing**” brought to you by the Master Brewers Association of the Americas (MBAA)

**Forensics in the Classroom**

**Chemistry of Obesity**

**Green Chemistry**

**Chiral Separations**

**Inorganic/Organometallic Chemistry**

**Synthetic Organic Chemistry**

**Organic Chemistry using Microwaves**

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**Chemical Informatics**

**Terahertz Spectroscopy**

**Small Chemical Business Seminar**

**Initiatives in Chemical Education**

**Vendor Exhibits**

**Chemical Technicians Program**

**Bioinorganic Chemistry**

**Phosphorus Chemistry**

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**Flavor Chemistry**

**HPLC**

**Computational Chemistry**

**Biological NMR**

**Metallomics**

**Atmospheric Chemistry**

**Job Hunting & Interviewing Workshops**

**Going Somewhere?-Career Paths in Chemistry**

**Poster Sessions**

*Chemical Abstracts Service 100<sup>th</sup> Anniversary Celebration  
Cincinnati Section of the ACS “Party Night”, Wednesday May 23, ALL WELCOME*



**Oral & Poster presentations from all areas of Chemistry are welcome**

**Program information, contact:**

Jeanette Krause 513-556-9226 [jeanette.krause@uc.edu](mailto:jeanette.krause@uc.edu)

**Vendor & Exhibits information, contact:**

Robert Voorhees 513-556-9297 [robert.voorhees@uc.edu](mailto:robert.voorhees@uc.edu)

Michael Kurutz 866-621-3427 [kurutz@MeasureNet-Tech.com](mailto:kurutz@MeasureNet-Tech.com)

**Student Program information, contact:**

Keith Walters 859-572-5315 [walterske@nku.edu](mailto:walterske@nku.edu)

Heather Bullen 859-572-5411 [bullenh1@nku.edu](mailto:bullenh1@nku.edu)

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*(Continued from page 5)*

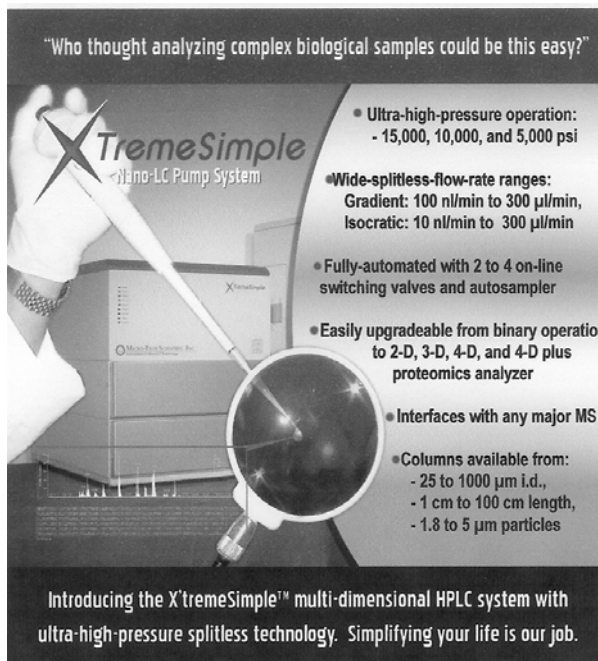
1978. He began work as a chemist in applications research with Emery Industries in Cincinnati (now Cognis Corporation) and is a listed inventor on 6 patents. While at Emery, he earned a Master of Science degree in chemistry from Xavier University in 1981. In 1986 he earned his Juris Doctor degree from Chase College of Law and began work with Wood, Herron and Evans, becoming a partner in 1994. Clem is former president of the Cincinnati Intellectual Property Law Association (1996) and is a member of the American, Ohio and Cincinnati Bar Associations. His focus at the firm is on litigation, chemical technology matters and trademark matters.

## YCC Dinner and a Movie

Wednesday Jan. 31 we'll get some pizzas and have a screening of "An Inconvenient Truth" (details TBA). Bring a date! Maybe this will mark the beginning of a tradition of checking out science-related movies. Don't forget to check the web site to see what we're up to: [www.che.uc.edu/ycc](http://www.che.uc.edu/ycc). Thanks to everyone who has come to our recent events!

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*(Continued from page 7)*

The Section's governance and members are grateful for this support, which will lead to higher meeting attendance and improved quality and value of our meetings.

Ted J. Logan, Chair, Solicitations Committee  
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spread the word!

Finally, remember that our annual election for Officers and some Executive Committee positions is fast approaching. Nominating Committee Chair Emel Yakali welcomes your recommendations and/or questions; call her at (513) 745-5686 or e-mail at [emel.yakali@uc.edu](mailto:emel.yakali@uc.edu).

Thanks and BCNU at the Givaudan meeting,

George. Rizzi, Chair  
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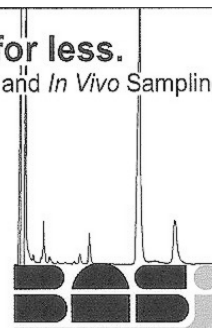
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