

CINTACS



Newsletter of the Cincinnati Section of the American Chemical Society

May, 2006
Vol. 43, No. 8

Meeting Calendar

May 19 Party Night
River Boat Cruise on the
Mark Twain (boarding be-
gins at 6:30 PM)

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and more....

May Monthly Meeting Party Night! Friday, May 19, 2006

*Riverboat Cruise and Dinner aboard the
Mark Twain*

Sponsored by YourEncore!

The dinner cruise will board at the Newport Landing (see below for directions at 6:30 PM; sailing time is 7:00 pm. The cruise will dock at the Newport Landing at 10:00 pm. We will be the only party on the boat.

Cost \$32.00 per person (cash bar)

Dinner Menu

Rotini, Penne, and Fettuccini Pastas; Marinara and Alfredo Sauces; Olive Oil with peppers, onions, and Mushrooms; Julienne Breast of Chicken; Italian Sausage Meatballs; Fresh Garlic Bread; Traditional Caesar Salad; Sheet cake for dessert white with chocolate icing

Reservations: *The deadline for reservations is Friday May 12, 2006*

- 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 last resort, you may send your reservations by email to kim.carey@uc.edu.
- If it is impossible to make your reservation via the internet, call 513-556-0293; leave name, affiliation, phone number, and choice, and price category, if half-price.

(Continued on page 3)

THE CINTACS NEWSLETTER**Vol. 43, No. 8 May, 2006**

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 August 1 for the September, 2006 issue. Electronic submission is strongly preferred. All materials should be sent to:

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From the Chair

It is time to celebrate a successful program year with a Riverboat Cruise for our May Party Night – sponsored by the YourEncore, Inc. I will repeat my plea one last time. **“Please do come to the meetings and every time ask a different person, colleague, co-worker, friend or student to come with you”**. This time also bring your spouse/partner for the fun.

As I had written in the September CINTACS, “Local Sections enable members to communicate and interact with other chemists in their areas, participate in programs that will enhance their professional development, and contribute to the public understanding of chemistry in their communities”. To carry out this charge, the section needs members to serve as elected officers and appointed committee chairs. We have 19 officers, locally and at the national level, and 41 committee chairs, with some doing double duty, there are 47 individuals. As the chair and personally, I am grateful to each and every one of them for their contributions to making this year another great year for the section. Truthfully, I found the section chair position tougher than I expected; it was a successful year only because we worked as a team. Thank you all, officers, chairs, and all other volunteers. It is impossible to mention everyone by name, please see the lists of officers and committee chairs on the section’s website (<http://www.che.uc.edu/acs/>). However, I have to point out a few for their long-term commitment in areas that require intense work. CINTACS editor Bruce Ault continues to ensure we reach all membership, regularly and on time. National Chemistry Week/Earth Day chair Victor Arredondo and his army of volunteers continue to excel in community outreach. The chairs of Awards Committees, Jim Her-shberger, John Williams, and Richard Sunberg continue to help us recognize chemists, teachers, and students. Thanks again and again.

In 2004, our section was number one among the Large Local Sections in membership participation. For 2005, our meeting participation was up, I believe we will be number one again, and looking at 2006 participation so far, we should continue to be number one. Thanks to all membership for your participation.

Now that my job is done, I wish George Rizzi, the next chair, all the best.

Emel Yakali

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(Continued from page 1)

Directions to BB Riverboats Newport Landing
101 Riverboat Row
Newport, KY 41071

75 South: Follow 75 across the river into Kentucky. Take the first exit at the end of the bridge (Covington/5th Street exit #192). At the bottom of the exit ramp, turn left onto 5th Street. Staying in the right hand lane, take 5th Street to the end. Turn left onto Garrard. Turn right onto 4th Street. Follow 4th Street across the small bridge into Newport. Turn left onto Columbia and follow to the end. Turn left on Riverboat Row. BB Riverboats is on the right.

71 South: Travel south to exit 1J – Newport, KY. Merge onto I-471 south across the bridge. Take Newport/Bellevue Route 8 exit #5. AT the end of the exit ramp, turn left onto Dave Cowens Drive and follow to Washington. Turn left on Washington and follow to 4th Street. Turn right onto 4th Street and follow to Columbia. Turn right on Columbia and follow to end. Turn left onto Riverboat Row. BB Riverboats is on your right.

71/75 North: Take exit #192 (Covington/5th Street). At the end of the exit ramp, turn right. Follow 5th Street to the end staying in the right hand lane. Turn left onto Garrard. Turn right onto 4th Street. Follow 4th Street across the small bridge into Newport. Turn left onto Columbia and follow to the end. Turn left on Riverboat Row. BB Riverboats is on the right.

471 North: Take exit #5 (Newport/Bellevue Route 8). At the end of the exit ramp, turn left on to Dave Cowens Drive and follow to Washington. Turn left onto Washington and staying in the left hand lane, follow to 4th Street (first stop sign). Turn right onto 4th Street and follow to Columbia. Turn right onto Columbia and follow to the end. Turn left onto Riverboat Row. BB Riverboats is on your right.

If you need assistance with these directions, please call our office at 859-261-8500 or 800-261-8586.

YCC Tours Kentucky Distillery

On Saturday, April 1, 15 younger chemists met in Versailles, Kentucky to participate in a tour of the Labrot and Graham Distillery where Woodford Reserve Kentucky Bourbon, the official bourbon of the Kentucky Derby, is made, aged, and bottled. We learned the differences between bourbon whiskey and other types of whiskey, the critical nature of the ingredients, the cooking and distillation process, how and why bourbon is aged, and sensory evaluation involved



in final selection and maturation before bottling. The distillery is a mere 1.5 hour drive from Cincinnati, and we had a beautiful day for the trip. Tours are open to the public throughout the

week and weekend, and the Distillery staff was friendly and knowledgeable. After our tour, we had lunch together at Wallace Station in Midway, Kentucky. Our group consisted of chemists from ORSANCO, Patheon, FDA, MeasureNet, and Givaudan. This was a great opportunity to meet some new colleagues and learn about the chemistry used in the beverage industry. Thanks to all who attended!





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Younger Chemists Committee: Upcoming Happy Hour

The Younger Chemists Committee will be meeting for a final Happy Hour once again before the Summer Break. Mark your calendars for Wednesday, May 10 from 6-8 PM when we will meet up at the Hofbrauhaus in Newport for FREE FOOD AND DRINKS. Happy Hours provide an informal opportunity to get to know other younger chemist types (age 35 and under) from the Greater Cincinnati area. If you know of someone who fits the description, PLEASE encourage him or her to attend. ALL ARE WELCOME! For more information, contact YCC chair Joy Henderson, acscincinnati@yahoo.com, 513-948-2359.

**Visit the
Section's Home Page**
<http://www.che.uc.edu/acs>

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/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 Bruce Ault at bruce.ault@uc.edu or 513-556-9238.

Report from Council

**American Chemical Society
231st ACS National Meeting
Atlanta, GA
March 26-30, 2006**

Your Section Councilors participated in numerous governance activities at this meeting. Items of particular interest from the floor of Council for members include:

Nominees for President:

The Committee on Nominations and Elections presented to the Council the following nominees for selection as candidates for President-Elect, 2007: Bruce E. Bursten, Richard Eisenberg, Bassam Z. Shakhshiri, and Matthew V. Tirrell. By written ballot the Council selected Bruce E. Bursten and Bassam Z. Shakhshiri as candidates for 2007 President-Elect. These two candidates will stand for election in the Fall National Election.

The Society's Finances:

The Society ended 2005 with a net contribution from operations of \$11.6 million, which was \$9.1 million favorable to the approved budget. The favorable variance was primarily attributable to higher-than-budgeted print and electronic information services revenue and investment income, as well as expense savings from staff vacancies and reductions in information technology spending. The Society also realized \$21.0 million in investment gains. In total, unrestricted net assets increased just over \$26 million in 2005 to \$211 million, and the Society ended 2005 in full compliance with the Board-established financial guidelines.

Member Statistics:

ACS closed 2005 with 158,422 members, reversing a 4-year downward trend in Society membership. Of the 15,532 applications processed in 2005, nearly 900 came from the Member-Get-A-Member campaign, in which many councilors participated. The membership retention number remained stable at 92.4%.

Special Discussion:

A special discussion item was put on the Council agenda for this meeting, as a follow-up to the The Board-Council Policy Committee Governance Review Task Force. This group was charged with reviewing the Society's governance, and Constitution and Bylaws, to ensure that the Society has a governing framework to enable it to best fulfill its mission, meet member needs, and remain a world-class organization. The task force developed a framework that emphasized five key elements of the Society's governance, which are: membership, geographical organization, disciplinary organization, governance structure, and governance operations. The discussion in Council at this meeting focused on membership – specifically, the requirements for ACS membership, and whether they should be made more or less restrictive, or kept the same. ACS President E. Ann Nalley invited the co-chairs of the Board-Council Policy Committee Governance Review Task Force, James D. Burke and William F. Carroll, to help frame the discussion by presenting the results of a councilor survey on ACS membership requirements. A wide range of views were expressed on the floor of Council, which will help the Membership Affairs Committee frame recommendations to be brought forth for the consideration of Council at the fall, 2006 meeting in San Francisco.

2006 Member Dues:

The Council voted to set the member dues for 2007 at the fully escalated rate of \$132.

The Special Temporary Assessment:

In December 2002, the Board of Directors approved a special temporary assessment to cover the costs of increased funding for divisions and local sections. This funding increase resulted from the Petition for Division and Local Section Funding, which was subsequently approved by the ACS Council, Board, and membership in 2003. The Board enacted the temporary assessment with the understanding that it would be reviewed each year to determine whether it could be reduced. In light of the Society's strong financial performance, the Board voted that, rather than enacting the assessment of \$8 scheduled for 2007, that the assessment would be reduced to \$4. 2007 is the final year for the Special Assessment.

Richard Zare to Receive 2006 Oesper Award

The Department of Chemistry at the University of Cincinnati, and the Cincinnati Section of the ACS will present the 2006 Oesper Award to Professor Richard Zare from Stanford University at the Oesper Banquet and Symposium October 27-28, 2006.



Professor Zare is renowned for his research in the area of laser chemistry, resulting in a greater understanding of chemical reactions at the molecular level. By experimental and theoretical studies he has made seminal contributions to our knowledge of molecular collision processes and contributed very significantly to solving a variety of problems in chemical analysis. His development of laser induced fluorescence as a method for studying reaction dynamics has been widely adopted in other laboratories.

Richard N. Zare is the Marguerite Blake Wilbur Professor in Natural Science and Chair of the Department of Chemistry, Stanford University. He was born on November 19, 1939 in Cleveland, Ohio, and is a graduate of Harvard University, where he received his B.A. degree in chemistry and physics in 1961 and his Ph.D. in chemical physics in 1964. In 1965 he became an assistant professor at the Massachusetts Institute of Technology, but moved to the University of Colorado in 1966. In 1969 he was appointed to a full professorship in the chemistry department at Columbia University, becoming the Higgins Professor of Natural Science in 1975. In 1977 he moved to Stanford University. This September he will become Chair of the Stanford Chemistry Department.

Professor Zare has won numerous research and teaching awards, and holds honorary degrees

(Continued on page 12)

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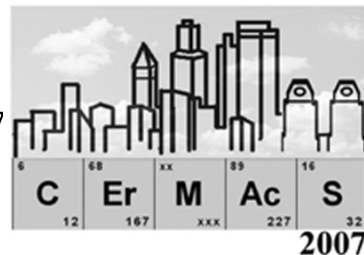
Central Regional Meeting of the American Chemical Society– CERMACS 2007

Hosted by the Cincinnati Section of the ACS



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May 20-23, 2007



Northern Kentucky Convention Center, Covington, KY

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Stay informed on the latest details, check our website at
www.cermacs2007.org

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 “Science is Fun” Guy---Dr. Bassam Shkhashiri and a special presentation by Dr. William Jensen, 2005 International Edelstein Awardee
“Illuminating Molecules” probing photochemistry & photophysics around the region
- **Forensics in the Classroom**
- **Chemistry of Obesity**
- **Chiral Separations**
- **Structure-Based Drug Design**
- **Spectroscopy**
- **Inorganic/Organometallic Chemistry**
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Contact the Program Chairs for more information:

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Chemical Information Update – Access to Electronic Publications

Edlyn S. Simmons, Chair,
Chemical Information Discussion Group

The April 2006 CINTACS Chemical Information Update column discussed the rise of the Open Access movement in scientific publishing. Open Access presumes that potential readers will be able to obtain copies of articles without a subscription to a journal and without paying a copyright clearance fee. Information derived from scientific research would be shared freely, and peer review would be offered without the intervention of salaried editors. This was the ideal of the earliest scientific community. Before publishers intervened, scientists corresponded by mail and presented the results of their studies at face-to-face scientific meetings. If you wanted a copy of Lavoisier's experimental results, you could write a letter to him and ask for it. Sharing of that type was limited to the lifetime of the individual scientist unless a third party collected information and took over the job of disseminating the information. And fortunately for posterity, Lavoisier co-founded one of the first printed chemical journals, *Annales de Chimie*, a few years before his life was (literally) cut short during the French revolution.

20th Century publishers provided authors with a limited number of copies of their articles, which the author could mail to others on request. Most readers simply visited a library or ordered printed copies through interlibrary loan. 21st century technology allows distribution of journal articles without resort to a printing press. Journals or individual scientific studies can be stored on a server for online viewing or downloading over the Internet. The studies can be published in conventional journals and made available to subscribers electronically, on the server of one of the new open access journals or preprint servers like arXiv.org, or they can be loaded on the author's institutional server. Unlike traditional printed journals, the open access journals are not usually available from multiple sources. The research published on a server is

archived only until someone pulls the plug. The catastrophic failure of a publisher's server could easily wipe out the entire archive.

To prevent loss of the knowledge recorded on electronic journal archives, a consortium of university libraries has established a program known as LOCKSS. The name is an acronym for "Lots of Copies Keep Stuff Safe." Libraries create copies of subscribed journals on a university server as "dark archives" of electronic scholarly journals. The copies are stored redundantly to ensure eventual recovery in case of a disaster and are not accessed unless access to the journal archive is lost. In 2006 the CLOCKSS initiative, "Controlled Lots of Copies Keep Stuff Safe," has expanded the use of LOCKSS technology to provide a global dark archive that will serve libraries, publishers and scholarly societies by archiving scholarly literature beyond the collections of the participating universities, protecting against long-term interruptions in access to materials on a publisher's server and making orphaned or abandoned literature available to the scholarly community.

Protecting established journals is a great step forward, but it doesn't solve the problem of accessing journals on private and government servers. To that end, directories of open access repositories are being created. The Universities of Nottingham and Lund have established the Directory of Open Access Repositories and the OpenDOAR service. According to a press release dated 26 January 2006, "The OpenDOAR service is being developed to support the rapidly emerging movement towards Open Access to research information. This will categorize and list the wide variety of Open Access research archives that have grown up around the world." More information about this service can be found at the DOAR website, <http://www.opendoar.org/>.

Footnote: This year, the Chemical Information Discussion Group is offering hints and updates on chemical information resources available to most chemists and techniques for using them. Feedback, contributions, and requests for information you'd like to see in future columns are welcome. If you have any comments, suggestions, or contributions, please email them to simmons.es@pg.com

Information for Chemical Educators

The Biennial Conference on Chemical Education (BCCE) will be held at Purdue University in West Lafayette, Indiana from July 30 to August 3. It is a wonderful conference that brings educators from high schools, colleges, and universities together to share activities, strategies, and relevant content in the teaching of chemistry. Visit the website at www.chem.purdue.edu/bcce/. Registration opens in mid-April. If you are interested in carpooling to the conference, contact Linda Ford at Linda.ford@7hills.org. She will try to coordinate that transportation option.

The chemical educators' discussion group is looking for three host sites for the 2006-07 school year as well as new program ideas. Please contact Linda to show your interest in hosting a meeting and to make programming suggestions.

The final piece of information involves the regional ACS meeting to be hosted by the section in Cincinnati in May 2007. Linda is bringing together a committee of educators to plan a workshop for educators on Sunday, May 20, 2007. Please e-mail Linda to convey your interest in serving on that planning committee. Linda will convene that committee during this month.

Invitation for Feedback on the ACS Approval Guidelines

The ACS Committee on Professional Training (CPT) is undertaking a major revision of the ACS Guidelines for approval of bachelor's degree programs in chemistry. The goals of revising the ACS guidelines include:

- Simplifying the ACS guidelines for approval of chemistry programs
- Allowing greater flexibility for departments to develop certified degree tracks
- Encouraging department-initiated innovation and curriculum improvement

- Providing faculty and infrastructure requirements that support excellent chemistry programs.

The overview of the proposed revisions to the ACS guidelines (link) that CPT is considering can be accessed from the CPT website at www.chemistry.org/education/cpt.

CPT invites you and your department to respond to these proposed changes by June 1, 2006, and thereby contribute to the ACS guidelines revision process. Please send comments to CPT by email to cpt@acs.org with a subject of "ACS Guidelines Revision."

National Chemistry Week: "Your Home - It's All Built on Chemistry"

October seems far away, but it and National Chemistry Week (NCW) will be here before we know it. Each year the American Chemical Society's NCW campaign reaches millions of people with positive messages about the contributions of chemistry to their daily lives. It is the one time during the year that chemists unite with the common goal of spreading the word that chemistry is good for our economy, our health, and our well-being. The celebration dates for 2006 are **October 22 – 28** with the theme, "**Your Home—It's All Built on Chemistry**".

Planning starts long before NCW arrives, and our (the Cincinnati Section) coordinator is Victor Arredondo. You may contact Victor at arredondo.vm@pg.com to volunteer your help, or to learn more about our activities.

Some ways that you can contribute to the NCW campaign are: helping at an event planned by the NCW coordinator; performing chemical demonstrations at a neighborhood school; conducting hands-on activities with children at museums, malls, or libraries; or writing articles or letters to the editor of the local paper.

NCW is sponsored by the Office of Community Activities (800-227-5558 ext. 6097, ncw@acs.org). Visit <http://chemistry.org/ncw> over the summer as more content is added!



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Steve Fennessey at (513) 794-9777, Steve.Fennessey@YourEncore.com

Vote!

The election for officers of the Cincinnati Section for the 2006-2007 year is now underway. Elected officers include First Vice Chair and Chair Elect, Second Vice Chair, Secretary, Treasurer, Trustee, Auditor, Councilor(s) and Alternate Councilor(s). Ballots must be returned by May 15, to the address on the return envelope in the ballot packet. If you have not received your ballot in the mail by now, please notify Phil Christenson, Chair of the Nominations Committee, as soon as possible. He may be reached by phone at 513-948-4942 or phil.christenson@givaudan.com

Upcoming Regional Meetings

Regional meetings represent an effective way to interact with fellow chemists. Below are upcoming meetings not too far from Cincinnati.

37th Central Regional Meeting

The Central Regional Meeting (CRM) will take place May 17 – 20, 2006, in Frankenmuth, Michigan, during their World Festival of Beer. CRM will open with Jean Michel Cousteau speaking on Ecology and Economics of the Sea and end with a two-day silicon symposium with many exciting programs in between. Visit their website at www.crm2006.org.

37th Great Lakes Regional Meeting

The Great Lakes Regional Meeting (GLRM) takes place in Milwaukee, WI, May 31 – June 2, 2006. Advance registration is still open online or you can download a form at <http://alchemy.chem.uwm.edu/GLRM06>. Polyoxometalate Chemistry, Supramolecular Chemistry, and Perspectives and Recent Advances in Organophosphorus Chemistry: A Symposium in Honor of Professor Sheldon Cremer is among the symposia they have planned. Planners have also scheduled tours of the Aldrich Chemical Company's new headquarters and of the S. C. Johnson Company's building designed by Frank Lloyd Wright.

38th Middle Atlantic Regional Meeting

Those of you with a sweet tooth better mark your calendars for June 4 – 7, 2006, the dates set for the Middle Atlantic Regional Meeting (MARM) to be held in Hershey, PA. Symposia include Contributions of Analytical Chemistry to Food Safety; Sweet Dreams: Part I, The Chemistry of Chocolate (Chemistry of Artificial Sweeteners, Chemistry of Sugar/Carbohydrates); Sweet Dreams: Part II, Chemistry of High Tea, Chemistry of Beer, Chemistry of Wine (with tastings, of course!); and Cleaning Validation Topics in the Pharmaceutical World. There will also be celebrations of the 100th anniversary of the FDA and the birthday of Joseph Priestley. Register now at www.marm2006.org.

“Second Career” Chemical Education Scholarships Available

The Hach Scientific Foundation is offering second career chemical education scholarships to chemists. Scholarship money is available for second career chemistry teachers! The Hach Scientific Foundation is a private multi-million dollar foundation dedicated to chemistry and chemical education. The Hach Scientific Foundation is providing scholarships across the country to chemists interested in pursuing a Masters in education and teachers certificate. For more information, visit:

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(Continued from page 6)

from: the University of Arizona (1990), Northwestern University (1993), Eidgenössische Technische Hochschule Zürich (1993), Uppsala University (2000), Columbia University (2000), The University of York (2001), The State University of West Georgia (2001), Hunan University (2002), and Université Paul Sabatier (2003).

Professor Zare served as the Chair of the President's National Medal of Science Selection Committee 1997-2000, chaired the National Research Council's Commission on Physical Sciences, Mathematics, and Applications, 1992-1995, and was Chair of the National Science Board the last two years of his 1992-1998 service. He currently acts as Chairman of the Board of Directors at Annual Reviews, Inc. Professor Zare has given named lectures at numerous universities, has authored and co-authored over 700 publications and more than 50 patents, and he has published four books.

The 2006 Oesper Banquet will be held on Friday evening, Oct. 27, and will feature Professor Dennis Jacobs from Notre Dame University as the after-dinner speaker. The 2006 Oesper Symposium will be held on October 28, 2006 and will feature a number of outstanding researchers as well as the award address given by Professor Zare. More information on the banquet and symposium will be published in the September and October issues of CINTACS. In the meantime, updates and details may be found at <http://www.che.uc.edu/alumni/oesper/index.html>.

The 2007 ACS Central Regional Meeting

CERMACS 2007 is coming to Cincinnati *May 20-23, 2007!* Volunteers are needed in all areas, including several committee chairs, committee members for most committees and volunteers as needs arise. Also, consider contributing a talk or poster when the call for papers is issued later this year. Contribute and participate!

See: www.cermacs2007.org for more details, or contact the general chair for the regional meeting, Joe Caruso, at:

joseph.caruso@uc.edu

Section Meeting Sponsors, 2005-2006 Program Year

We now have a sponsor for each of the Section meetings, 7 in total. These generous companies and universities are listed below, with the meeting they have or will sponsor.

October 14	UC Chemistry Department
December 7	Xavier University
January 18	Givaudan Flavors
February 15	The Procter and Gamble Company
March 15	Advanced Testing Laboratory
April 20	Girindus America, Inc.
May 19	YourEncore, Inc.

The Section and its members are grateful for this support, which will lead to higher attendance and improved quality and value of meetings.

Ted J. Logan, Chair
Sponsorship Committee

Upcoming Seminars, Department of Chemistry, University of Cincinnati

Fri. May 5:	Prof. Elliot Chaikof Emery University and Georgia Institute of Technology
Fri., May 12:	Prof. Michael Paulaitis Ohio State University
Fri., May 19:	Professor William Heineman University of Cincinnati
Fri., May 26:	Dr. Barry Farmer Wright Patterson AFB
Fri., June 2:	Dr. John C. Lechlieter President and CEO Eli Lilly and Company (Awards Day Seminar)

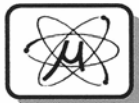
Seminars are held at 3:00 PM in Room 502 Rieveschl. The public is welcome. A reception is scheduled after each seminar in the History of Chemistry Museum. More details can be found at <http://www.che.uc.edu/graduate/seminars.html>

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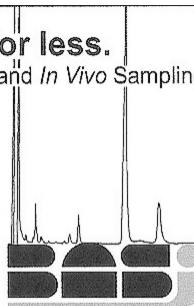
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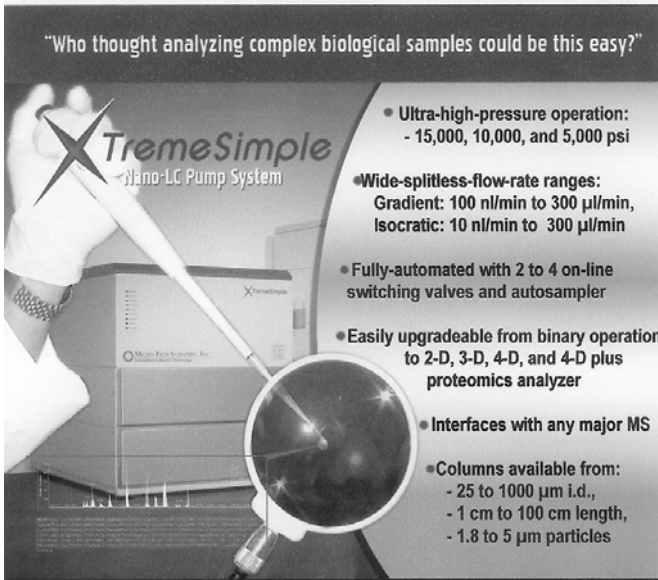
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