

CINTACS



Newsletter of the Cincinnati Section of the American Chemical Society

October, 2004
Vol. 42, No. 2

Meeting Calendar

Fri. Oct. 15	Oesper Banquet University of Cincinnati
Thurs. Dec. 9	Janet Reid Xavier University
Wed. Jan. 19	Jennifer Holmgren TBA
Wed. Feb. 16	Chemist of the Year Givaudan Flavors
Wed. Mar. 9	Dr. Burkhard Jansen Genome Research Inst.
Thurs. April 21	High School Awards Northern Kentucky U.
May	Party Night! TBA

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The 2004 Oesper Banquet and October Monthly Meeting

Friday, Oct. 15, 2004

cosponsored by the
Department of Chemistry, University of Cincinnati

honoring

Professor George M. Whitesides
Mallinckrodt Professor of Chemistry
Harvard University

with featured after-dinner speaker

Felice Frankel
Massachusetts Institute of Technology
The Power of the "Pretty Picture"
(see abstract on page 4)

About the Awardee

George M. Whitesides received his A.B. degree from Harvard University in 1960, and his Ph.D. from the California Institute of Technology in 1964. He is currently Mallinckrodt Professor of Chemistry at Harvard University. Prior to joining the Harvard fac-
(Continued on page 4)

About the Speaker

Felice Frankel is science photographer and Research Scientist in the School of Science at the Massachusetts Institute of Technology, Cambridge Massachusetts.

She is a Fellow of the American Association for the Advancement of Science
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THE CINTACS NEWSLETTER**Vol. 42, No. 2 October, 2004**

Editor.....Bruce S. Ault
 Advertising.....Ed Hunter

CINTACS is published nine times a year (September through May) by the Cincinnati Section of the American Chemical Society. The submission deadline will be approximately October 23 for the December, 2004 issue. Electronic submission is strongly preferred, except for original photos. All materials should be sent to:

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From the Chair

October is a busy and exciting month for our local section with two major events on the schedule: the Oesper Banquet and Symposium and National Chemistry Week.

The Oesper Banquet is typically one of the best meetings of the year and this year is no exception. The 2004 Oesper award recognizes the accomplishments of Professor George M. Whitesides of Harvard University, well known for his interdisciplinary research. The banquet speaker is the renowned science photographer Felice Frankel. The program for the Oesper Symposium on the following day is truly outstanding and is not to be missed. Our section's annual poster session will be held prior to the banquet on Friday evening. Poster presenters should send an abstract to Nebojsa Pantelic (panteln@email.uc.edu) by October 11. See the following link for additional information regarding the poster session and the Oesper Banquet: <http://www.che.uc.edu/alumni/oesper/banquet.html>

National Chemistry Week (October 17 – 23) will explore the theme of "Health and Wellness" and help show how chemistry impacts our daily life. Chemistry demonstrations and other activities are planned at local libraries and the Cincinnati Museum Center. Our section will sponsor articles regarding NCW in the *Cincinnati Enquirer/Post*. If you want to help with our section's NCW program, contact Victor Arredondo, NCW chair at arredondo.vm@pg.com.

Just a brief look ahead: there will not be a meeting in November. Our next meeting will be a joint meeting with NOBCHE on Thursday, December 9th and will feature Janet Reid, Chairwoman of the Greater Cincinnati Chamber of Commerce, as our after dinner speaker. I'm really looking forward to this meeting as I understand that Janet Reid is a great speaker. Please mark your calendars for what promises to be an interesting evening.

ChemLuminary Awards: The Cincinnati section won two ChemLuminary Awards at the National ACS meeting in Philadelphia. Our section received the Committee on Community Activities' Award for Outstanding Industrial Involvement in National Chemistry Week and the Committee on Chemistry and Public Affairs' ACS President's Award for Local Section Government Affairs. Congratulations to all involved in making those activities successful!!

As the above awards demonstrate, we do, indeed, have an outstanding section. One of the key factors in making our section success over the years is the strength and dedication of our volunteers, especially our committee chairs. The list of committee chairs is published in this month's issue and so now is a good time to recognize **them** and thank them for their contributions to our section. Without their efforts, this section would come to a screeching halt. Many of

(Continued on page 9)

**October Monthly Meeting
The 2004 Ralph and Helen Oesper Banquet
and Poster Session**

honoring
**George M. Whitesides
Harvard University**

**Friday, October 15, 2004
University of Cincinnati Faculty Club**
(see page 16 for Oesper Symposium Program on Saturday, Oct. 16)

Program

5:30-6:50 p.m. Local Cincinnati Poster Session/Social Hour, including complimentary snacks

7:00 p.m. Oesper Banquet (dinner includes your choice of 1) Chicken roulades with spinach.; 2) Lemon baked cod; or 3) Grilled marinated portobello mushrooms with pesto angel hair primavera. \$25.00 (\$13.00 for students, emeritus, unemployed and new members)

Presentation of the 2004 Oesper Award to Professor George M. Whitesides

After-dinner speaker, Felice Frankel
The Power of the "Pretty Picture"

Dinner Reservations: The meeting reservation form is now 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. If absolutely impossible to make reservations via the internet, telephone 513-556-0293 (if you call, please leave a contact phone number and dinner entrée choice). Deadline for reservations is 12:00 noon on Monday, Oct. 11, 2004. Include your name, affiliation, and state if you're in one of the 1/2 price categories. If you decide you must miss a meeting after you have made reservations, please call to cancel. If you do not cancel, the Section will have to charge you because it will have been charged by the University. Interested persons are welcome to attend the award presentation and after-dinner talk free of charge, without signing up for dinner. We still ask that you register for the meeting, and note that you will not be having dinner.

Directions: If you approach **via I-75**, take the Hopple Street exit and turn left at the light. You will pass over the highway. At the next light, go "straight" (straight here is actually about a 45 degree turn to the left). You are now on Martin Luther King Drive. Continue up King to the 4th traffic light. You will reach the first one quickly, the second one about ½ mile after that, the third (Clifton Ave.) after going up a long hill, and the 4th as you continue eastward with the campus on your right. Turn right at this 4th traffic light onto campus, and then right into the parking garage.

If you approach Cincinnati coming **south on I-71**, get off at the Taft Street exit (exit 3). After the light at the end of the off-ramp, continue straight (west) on Taft for about 1.3 miles. At this time, Hughes High School is directly in front of you, and you must turn. Turn right onto Clifton Avenue. The University is now on your right side. Continue on Clifton to King; turn right (eastbound) on King and follow to the first light. Turn right onto campus, and then right into the library garage.

Felice Frankel

The Power of the "Pretty Picture"

Abstract

The advent of remarkable new imaging tools has given us an exciting opportunity to see science in ways we've never dreamed of. And surely, one of the reasons why so many scientists delve into the field in the first place has to do with its inherent beauty. But why is communicating that attribute discouraged to be part of the conversation? It's true that researchers should be absorbed in the documentation of research to communicate to their colleagues, but unfortunately, that's where it seems to stop — that the "good enough" image is good enough.



We are missing a unique opportunity. The growing interdisciplinary nature of research is fertile ground for using pictures to translate important science to each other. Moreover, using accessible and communicative images and other forms of visual representations, could be a valuable tool to engage future researchers. It *is* possible for an image or illustration or diagram to be both highly informational and breathtaking to look at.

(Continued from page 1)

vancement of Science and has received grants from the National Science Foundation, the Guggenheim Foundation, the National Endowment for the Arts, the Alfred P. Sloan Foundation, the Graham Foundation and the Loeb Fellowship at Harvard University, among others. She is author of "*Envisioning Science, The Design Craft of the Science Image*" and coauthor with George M. Whitesides of "*On the Surface of Things, Images of the Extraordinary in Science*". Her photographs have appeared on the covers and inside pages of *Nature*, *Science*, *Advanced Materials* and others. Frankel and colleagues are organizing MIT's second *Image and Meaning* conference: *Envisioning and Communi-*

cating Science and Technology, to promote new collaborations among researchers, imaging and graphic experts, and writers, June 23-25, 2005 at the Getty Center, Los Angeles.

She and Whitesides are working on their second book:

(Continued from page 1)

ulty in 1992 he was a member of the chemistry faculty of the Massachusetts Institute of Technology. His research interests include physical and organic chemistry, materials science, biophysics, complexity, surface science, microfluidics, self-assembly, micro- and nanotechnology, and cell-surface biochemistry.



Whitesides has won numerous medals and honors in his career, including the James Flack Norris Award (ACS, New England Section) (1994), the Arthur C. Cope Award (ACS) (1995) and the National Medal of Science (1998). He has served on the advisory board of many organizations, including the National Research Council, the National Science and the Department of Defense DARPA Science Research Council, and is currently on the editorial boards of 9 respected journals.

Call for Posters!

The annual poster session for the Cincinnati Section of the American Chemical Society will take place prior to the Oesper Award Banquet on Friday, Oct. 10, 2003 (see page 3 for meeting details). All members of the section are welcome to present posters at this session (within space limitations). Members interested in presenting a poster should submit the title to Nebojsa Pantelic, at panteln@email.uc.edu no later than Monday, October 11, for inclusion in the program. Please visit the Oesper Banquet website at: http://www.che.uc.edu/grad_program/oesper_banquet.htm for additional details and abstract specifications. Questions should also be directed to Nebojsa. Please note: *you do not need to attend the banquet in order to present a poster.*

Chemical Educators Group

Nanotechnology in the Classroom

At every turn, students are seeing the words, nanotechnology and microstructure, in the popular media. What are we doing in the classroom to address these terms and areas of research? Let us come together for our first meeting of the school year to share our approaches and activities that incorporate material science and condensed state concepts. The meeting will be held on Wednesday, October 13, in Linda Ford's classroom at Seven Hills School. The meeting will begin at 6:30 PM for announcements and social time. The program will begin at 7 PM and conclude by 8:30 PM. Linda had the opportunity to do research in superconductivity at the National High Magnetic Field Laboratory in Tallahassee during the summer. She will share some of the activities on magnetic materials that fit into the nanotechnology theme. The evening should also include topics such as new alloys, liquid crystals, polymers, ceramics, optical fibers, semiconducting materials, films, and nanotubes. If you plan to present, please contact Linda prior to the meeting so that she can create an organized order of presentation. Encourage your colleagues to attend; new faces are always welcome. Expect to go home with well-tested and creative new ideas for your curriculum!

Nancy Klas will host the winter meeting at St. Xavier High School. The program will be a classroom project sharing session. Teachers are encouraged to share projects that incorporate research, device building, contests, 3-D displays and or posters, and multi-disciplinary interaction. Aimee Hansen will host the spring meeting at Mason High School. We are still deciding on a program topic for that meeting; please share any hot ideas for programming with Linda Ford at Linda.ford@7hills.org.

DIRECTIONS to Seven Hills: Exit I-71 at Red Bank Road. Proceed east to the first traffic light and turn right onto Duck Creek. As you travel up the hill take the first quick right onto Old Red Bank Road. Travel about 0.1 mile and you will see the school on your right. Turn into that first parking lot by the tennis courts. The science classrooms face the courts; Linda will have her outer classroom door well marked. Any questions? Call the school at 272-5360.

Section Wins Two ChemLuminary Awards

The Cincinnati Section won two ChemLuminary Awards at the August National ACS meeting in Philadelphia. The Committee on Community Activities presented us with the award for Outstanding Industrial Involvement in National Chemistry Week, while the Committee on Chemistry and Public Affairs gave us the ACS President's Award for Local Section Government Affairs.

Industry plays a key role in the Section's NCW activities each year. Last year, the NCW Chair (Gloria Story) and Vice-Chair (Victor Arredondo) were both industrial chemists, as were about 50 of the 115 volunteers (representing 13 companies) who participated in the week's activities. Procter & Gamble, Cognis Corporation, and Givaudan Flavors contributed a total of \$10,000 to NCW, which generated \$4500 in matching funds from National ACS. Equistar, Advanced Testing Laboratory, MeasureNet Technology, Wright Brothers, Inc., and Jones the Florist provided in-kind contributions.

Over the past few years, the Section has become increasingly active in Government Affairs. Section representatives have visited the Cincinnati-area offices of senators (both Ohio and Kentucky) and representatives to advocate for increased funding for research in the physical sciences and for science education in grades K-12. We helped to sponsor a reception for State representatives in Columbus, organized by the Ohio Mathematics and Science Coalition, to convince the state to focus more directly on supporting science education. In March of this year, Joel Shulman presented a talk, "The American Chemical Society: Efforts to Improve the Chemical Enterprise in the United States," to a local Kiwanis Club chapter.

In addition to winning these two awards, the Section was a finalist for the Committee on Community Activities' award for Outstanding Community Involvement in NCW and the Committee on Public Relations and Communications' Local Section Public Relations Award.

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(Continued from page 2)

our committee chairs have been faithfully and gladly doing the job for many years. Going forward, to be frank, it is essential that the next generation step forward and get involved. So, take a careful look at the list of committees and consider how you might get involved and make a contribution. Then, contact Emel Yakali or myself.

Phil Christenson, Chair
 phil.christenson@givaudan.com

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Trustees Funds Report FY 1 July 2003 thru 30 June 2004

	01-Jul-03	30-Jun-04
Money Market (Checking Account) Fund	\$ 26,329	\$ 18,881
Mutual Funds	\$ 127,082	\$152,884
Total Working Capital *	\$ 153,411	\$171,765
Disbursements - Educational Grants **	\$ 600	
- Miami University - Symposium	\$ 1,500	
Total Disbursements	\$ 2,100	

* Increase in working capital is net of Management Fees by UBS Financial Services and Disbursements authorized by the BOD

** Educational Grant for 2002/03 carried over., Grants accepted for 2003/04 were paid in July 2004

Respectfully Submitted, Hank Greeb, Trustee, 2005

EDUCATIONAL GRANTS

The Cincinnati Section of the American Chemical Society has funds available for the purpose of improving chemical education in the geographic area served by the local section (OH: Adams, Brown, Butler, Clermont, Clinton, Hamilton, Highland and Warren counties; KY: Boone, Campbell, and Kenton counties; IN: Dearborn and Ohio counties). The Educational Grants Committee was established to make recommendations to the Cincinnati Section Board of Directors for the disbursement of these funds.

The committee hereby invites applications for these grants from all members (teachers, students, industrial chemists, etc.) of the chemical community in the service area of the section. Applications will be accepted and reviewed three times during the year according to the following schedule.

Review Month	Application Deadline	Notification Date
November	November 1, 2004	December 1, 2004
January	January 15, 2005	February 15, 2005
May	May 2, 2005	May 30, 2005

Grants will be awarded for such activities as attending educational workshops, participation in summer research programs, innovative education programs, instructional equipment, etc. Proposals, which incorporate the use of funds from other agencies or corporations, including the agency, or corporation, with which the applicant is affiliated, will be given preference in the selection process. Funds will generally not be awarded for the purchase of common supplies or chemicals. However, any application, which meets the basic criteria for which the fund was created, will be given serious consideration. Grants will be, in most cases, limited to \$1,500; exceptional proposals will be considered for larger amounts. No school or organization will be allowed to receive more than one (1) award per calendar year. Within one year from the time the grant is awarded, a report describing the used of the funds and the impact that the project had is expected to have on improving chemical education is to be forwarded to the committee chairperson.

For further information or an application, please see following page, or contact:

Brian Berning
Seven Hills School
5400 Red Bank Road
Cincinnati, Ohio 45227

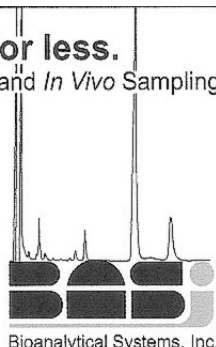
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Visit the
Section's Home
Page

<http://www.che.uc.edu/acs>

www.bioanalytical.com bas@bioanalytical.com

The Cincinnati Section of The American Chemical Society
EDUCATIONAL GRANT APPLICATION

DATE: _____

Name: _____

Organization: _____

Department: _____

Address of Organization: _____

County: _____ State: _____ Zip Code: _____

Name and Title of Official Certifying Organizational Compliance with the Grant:

Signature _____

Name/Title (print or type) _____

ACS Member or Affiliate? _____

How many individuals will benefit from this grant if your proposal is funded? _____

Grant criteria: Funds are to be used to improve chemical education in the area served by the Cincinnati Section of the American Chemical Society.

Grant Proposal: The proposal should contain 300-500 words, double-spaced on official letterhead. It should describe the objective(s) of the project, how the project will be carried out, how the project would improve chemical education, how the program fits into the education program (if the applicant is from a school) and who would benefit. Also, the proposal should contain a detailed budget that outlines expenditures, the amount being requested from the Educational Grant and the amount being requested from other sources.

Send five (5) copies of the application and the proposal to:

Brian Berning
Seven Hills School
5400 Red Bank Road
Cincinnati, Ohio 45227

Phone: 513-272-5360
FAX: 513-271-2471
E-mail: Brian.Berning@7hills.org

Reports: Grant recipients are required to submit a report to the Committee within one year from the time of notification of the award. The report will include an outline of how the funds were used, what had been purchased, if anything, with the funds and what benefits have been derived thus far from the use of the funds.

Acknowledgment: It is requested that the major instruments purchased with the use of these funds be tagged with the following acknowledgment: "This equipment was purchased (in part) with an Educational Grant from the Cincinnati Section of the American Chemical Society."

American Polymer Standards Corporation

P.O. Box 901, Mentor, OH 44060 * 8686 Tyler Blvd., Mentor, OH 44060

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Award Nominations Solicited

Cincinnati Chemist of the Year

The Section Awards Committee requests nominations for the 2004 Cincinnati Chemist of the Year. This award, given annually since 1950, recognizes professional accomplishments of a member. The 2004 Chemist of the Year will be the featured speaker at the February meeting. Deadline for nominations is December 9, 2004 (the date of the December meeting).

Cincinnati Research Assistant of the Year

The Section Awards Committee requests nominations for the 2004 Cincinnati Research Assistant/Chemical Technician of the Year. This award, given annually, recognizes job skills, safety, teamwork, leadership, publications and presentations, reliability, communications skills, and additional professional and community activities. A Chemical Technician/Research Assistant is defined as a person whose training includes successful completion of a two year post-high school chemistry curriculum or equivalent work in a Baccalaureate program, or equivalent knowledge gained by experience. The 2004 award will be presented at the February meeting. The winner will be the section's candidate for the National award. Deadline for nominations is December 9, 2004 (the date of the December meeting).

Outstanding Teaching Awards

Do you know a teacher who inspires his/her students? Fills them with a curiosity about the world of science and chemistry? The Cincinnati Section of the American Chemical Society is looking for these people – and honors three each year.

The *High School Chemistry Teacher of the Year* is awarded annually, to recognize accomplishments of those of us who teach chemistry at the secondary school level.

The *Middle School/Junior High School Science Teacher of the Year* is awarded annually to honor science teaching at this level.


The *Elementary School Science Teacher of the Year* is awarded for excellence in elementary teaching.

All three awards recognize teaching ability, enthusiasm, mentoring skills, and other leadership activities. Nominees need not be members of the American Chemical Society. Generally speaking, anyone teaching in these capacities within 35 mile radius of downtown Cincinnati is eligible. These awards will be given at the April Meeting.

Deadline for nominations is January 19, 2004 (at the meeting).

For a nomination form contact:

Jim Hershberger Ph 513-529-2441
Department of Chemistry Fax 513-529-1675
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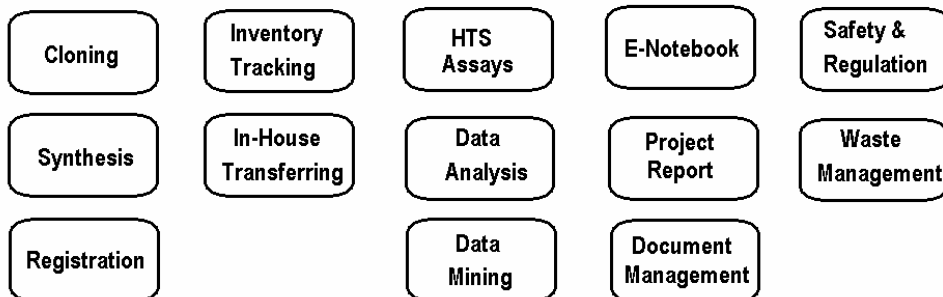
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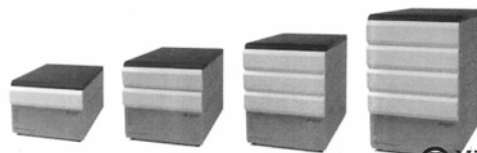
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Joanna Aizenberg, *Bell Laboratories*, "Control of Inorganic Crystallization by Organic Surfaces: A Bio-inspired approach"

John I. Brauman, *Stanford University*, "Exotic Electronic States of Negative Ions"

Jean M. J. Fréchet, *University of California at Berkeley*, "Designing Dendrimers and Nanoparticles for the Delivery of Therapeutic Agents and Vaccines"

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