

CINTACS



Newsletter of the Cincinnati Section of the American Chemical Society

Nov., 2003
Vol. 41, No. 2

Meeting Calendar

| | |
|-------------------|--|
| Wed., Nov. 12 | Art Ellis, NSF at Four Points Hotel |
| Wed., Dec. 10 | Ken Setchell, UC at Xavier University |
| Wed., Jan. 14 | Isiah Warner, LSU at Embassy Suites |
| Wed., Feb. 25 | Chemist of the Year at Givaudan Flavors |
| Wed., March 24 | Don Tomalia at Miami University |
| Thurs. Apr. 22 | Arthur Ford, USGS at NKU |
| Fri. May 21 | Party Night! |

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November Monthly Meeting

The "ABCs" of Nanotechnology: Atoms, Bits and Civilization

Dr. Athur Ellis
Director, Chemistry Division
National Science Foundation



Abstract

Nanotechnology has been touted as the next industrial revolution. Our ability to image and manipulate atoms is leading to new kinds of materials and devices that have the ability to transform our society in profound ways. Demonstrations will be presented that illustrate key aspects of nanotechnology and how it can be integrated into chemical education.

About the Speaker

Dr. Ellis joined the National Science Foundation as Director of the Division of Chemistry in July, 2002. He is on detail from the University of Wisconsin-Madison, where he has served as Meloche-Bascom Professor of Chemistry since 1986. Dr. Ellis and his co-workers conduct research in chemical sensors and nanoscale shape memory alloys. They also develop instructional materials based on nanotechnology. Dr. Ellis received a B.S. degree in chemistry from the California Institute of Technology, and a Ph.D. degree in inorganic chemistry from the Massachusetts Institute of Technology. He received the 1997 ACS George C. Pimentel Award in Chemical Education and an NSF Director's Distinguished Teaching Scholar Award in 2001.

THE CINTACS NEWSLETTER**Vol. 41, No. 2 Nov., 2003**Editor.....Bruce S. Ault
Advertising.....Ed Hunter

CINTACS is published eight times a year (October through May) by the Cincinnati Section of the American Chemical Society. The submission deadline will be approximately October 22 for the December, 2003 issue. Electronic submission is strongly preferred, except for original photos. All materials should be sent to:

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From the Chair

The November meeting will be held at the Four Points Hotel by Sheraton, Cincinnati Northeast. The featured speaker at the meeting will be Art Ellis, Director of the Chemistry Division at the National Science Foundation and Professor of Chemistry at the University of Wisconsin. Professor Ellis is an active researcher in the area of nanotechnology and has won several national awards for his teaching. His talk will be a real opportunity for us to learn what the “nanotechnology revolution” is all about.

The sponsor for this meeting is Advanced Testing Laboratory. Meeting sponsorship is vital to the solvency of the Section. Income from meeting sponsors accounts for nearly 10% of our annual budget. (You can see details of the budget on the Section’s web site: www.che.uc.edu/acs.) Meeting sponsorship subsidizes half-price meals for retired and student members, the social hour before the meeting, and speaker expenses. Ted Logan has done his usual outstanding job of lining up sponsors for all of our meetings this year. We owe a great vote of thanks to the meeting sponsors—corporate and individual, listed elsewhere in this issue—for their generosity.

Also vital to the operation of the Section is the vast array of volunteers who chair committees. This issue lists all of these chairs—thanks to each of you for the time you put in to make the Section better.

I am proud to announce that the Cincinnati Section received the *Local Section Public Relations Award* from the ACS Committee on Public Relations and Communications. This award was accepted by Gwen Baumann, last year’s Public Relations Committee Chair for the Section, at the ChemLuminary celebration during the September National ACS meeting in New York. We were also a finalist for the *Greatest Community Involvement in National Chemistry Week Award*. Gloria Story’s National Chemistry Week efforts in 2002 led to this nomination. Gloria once again did a superb job coordinating the Section’s 2003 efforts for NCW. Thanks to both Gwen and Gloria for their hard work!

Finally, on the subject of awards, nominations for Cincinnati Chemist of the Year and Cincinnati Research Associate of the Year are due by December 10 and should be sent to Jim Hershberger. Please consider nominating a colleague for one of these awards.

**Please Support
CINTACS Advertisers!**

November Meeting

Wednesday, Nov. 12, 2003
Four Points by Sheraton Northeast
8020 Montgomery Road, Cincinnati

Sponsored by Advanced Testing Laboratory

Featured Speaker: Dr. Arthur B. Ellis
National Science Foundation

| Time | Function | Location |
|--------------|--|------------------|
| 5:30 pm | ACS Board Meeting | Parlor Suite 130 |
| 6:00-7:00 pm | Registration | |
| 6:00-7:00 pm | Social Hour | Kenwood Ballroom |
| 7:00-8:00 pm | Dinner | Kenwood Ballroom |
| | Menu: Choice of New York strip sirloin, grilled salmon fillet, or baked vegetable lasagna. Garden salad, rolls and butter, whipped potatoes, green beans almondine. Apple pie, coffee, tea, or iced tea. | |
| | Cost: \$25.00 (retirees, students, K-12 teachers \$12.00) | |
| 8:00 | Meeting and Featured Speaker Dr. Arthur Ellis <i>The "ABCs" of Nanotechnology: Atoms, Bits and Civilization</i> | Kenwood Ballroom |

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. If it is absolutely impossible for you to make reservations via the internet, call 513-556-0293 (please leave name, affiliation, a contact phone number, dinner entrée choice, and state if you are in one of the ½ -price categories). Deadline for reservations is 12:00 noon on Friday, November 7. **If you must miss the meeting after you have made reservations, please call to cancel.**

Directions: Take I-71 to the Montgomery Road exit. Go north on Montgomery Road (away from Kenwood Towne Center). Immediately upon turning onto Montgomery Road, there will be a BP station on your right. The driveway to the Four Points by Sheraton is directly past the BP station.

Section Wins ChemLuminary Award

The Cincinnati Section has won the 2003 Committee on Public Relations and Communications **Local Section Public Relations Award** for medium large to very large sections. Gwen Baumann, 2002-03 Chair of the Section's Public Relations Committee, accepted the award at the ChemLuminary celebration on September 9 at the ACS National meeting in New York. One particular accomplishment of Gwen's public relations efforts was emphasized in the citation: "A highlight of the Local Section public relations was a week long *News in Education* program, cosponsored by The Procter & Gamble Company and published in the *Cincinnati Enquirer* and the *Cincinnati Post* newspapers."

The Section was also a finalist for the National Chemistry Week Task Force's award for **Greatest Community Involvement in NCW**. Although the Section did not win this award, Gloria Story and her NCW Committee was cited for their excellent work: "The Section arranged for the mayor to declare it National Chemistry Week in Cincinnati and worked closely with local companies, the Cincinnati Museum Center, the *Cincinnati Enquirer*, and local students to bring chemistry alive for the public."

Congratulations to both Gwen and Gloria!

THE YOUNGER CHEMISTS COMMITTEE:

So what if you aren't exactly a "younger" chemist?

(We'll use the term "seasoned" so as not to upset anyone who doesn't fit the "age 35 and under" category of a younger chemist!)

Don't worry, you are still important to the Younger Chemists Committee! We would like to utilize your experiences, your contacts, and your

wisdom to help get younger chemists involved in ACS and give them more resources in the Cincinnati area. YCC would like to solicit the involvement of the seasoned chemists in ACS as we work to:

- Set up industrial/laboratory tours of local facilities
- Locate technical speakers for chemical and chemistry-related talks, and
- Organize an employment/career skills event for Spring 2004, as well as establish an ongoing network of local employers willing to participate in job search assistance.

Specifically, we need people who can provide contact information for local companies that would be willing to give small group tours of laboratory and/or manufacturing facilities. We need recommendations and contact info for people who have given presentations which may be suitable for newly established younger chemists. We need people willing to participate in mock interviews, resume reviews, job search discussion groups, and other career related activities. Any help in any of these areas would be most appreciated.

Most of all, we need seasoned chemists to start cajoling, badgering, and otherwise encouraging any younger chemists to get involved in the Younger Chemists Committee and ACS at-large. YCC activities are typically relaxed, social, informal events where chemists (including, but not limited to the about-to-graduate, graduating, and recently graduated) under 35 can connect professionally and personally. Look around you- there's probably a YCC-type lurking somewhere around your workplace. Tell them about YCC and ACS. Tell them to check out the YCC link from the local section's web site. Tell them to give one of our events a try, or bring them along to a local section meeting. You or any younger chemist you know can contact the committee chairperson, Joy Henderson, at Barr Laboratories, henderj@barrlabs.com, 513-731-9900 x 7227, with questions and for more information, or to offer your help and/or suggestions.

*Even if you are on the right track, you'll get
run over if you just sit there.*

--Will Rogers, humorist

THE YOUNGER CHEMISTS COMMITTEE: Distillery Tour

YCC is offering an opportunity for younger chemists to tour the Seagrams distillery in Lawrenceburg, Indiana on **Friday, November 21**. Lawrenceburg is about 35 minutes west of downtown Cincinnati and is home to major development, manufacturing, and bottling operations for a variety of product lines.

Our tour will take us through the process of beverage production from discovery/development in the new Technical Center to bottling the finished goods. We will meet at the plant at 5:30 PM for light snacks and schmoozing, and then begin the tour at 6 PM. The tour will last roughly 2 1/2 hours. After the tour you are welcome to join us at Whisky's (a terrific local restaurant) for late dinner and socializing. *There is no cost for this tour, but the number of available spaces is limited to 25 people only.* Preference will be given to the YCC (age 35 and under) types, but extra spaces may be used by the more "seasoned" chemists among us (though these may be available only on short notice once we have confirmed the YCC reserved spaces.) Contact YCC chair, Joy Henderson, henderj@barrlabs.com, 513-731-9900 x7227 to reserve your spot (or to request an extra spot should there be one). Directions to the facility will be provided.

Cincinnati Section Meeting Sponsors 2003-2004 Program Year

October 10: University of Cincinnati, Department of Chemistry
November 12: Advanced Testing Laboratory
December 10: Procter and Gamble Pharmaceuticals
January 14: The Procter and Gamble Company
February 25: Givaudan Flavors
March 24: Marshall Wilson
April 22: Robert Laughlin
May 21: Rick Fayter

Chemical Demonstrations for the General Public

Some of our local members have been looking into the various safety issues concerning chemical demonstrations to public audiences such as students, scouts or at National Chemistry Week events. The National ACS has published safety guidelines, available at the National Chemistry Week Web site, which our local section has adopted as a guide. [www.chemistry.org, choose Nat'l Chem. Week under "Quick Find", navigate to Safety Guidelines from list]

We have also verified that any person who is giving a demonstration representing the ACS is covered under the National ACS liability insurance policy in case of an accident. The board has approved a program of registering your activity with the local section so that it is recognized that you are representing the ACS. You may register your event by contacting Kathy Gibboney at 513-622-2289 or gibboney.k@pg.com. The required information is name, phone or email, description, time and location of event and intended audience.

We encourage all who are interested to give demos and do hands-on chemistry with groups – it is a fun and rewarding experience! We also encourage you to observe good safety practices in your activities!

Chemist Wins ASTM Award

In April, 2003, Dr. Kevin Ashley received a 2003 Award of Merit and the accompanying title of "fellow" from ASTM International, for individual contributions to standards activities. Ashley is a research chemist with the Centers for Disease Control, National Institute for Occupational Safety and Health (CDC/NIOSH) in Cincinnati. His work focuses on the development of analytical methods for the identification of environmental pollutants, including lead, in the workplace. His particular interests are field-portable methods for the on-site measurement of toxic metals in workplace air, and electroanalytical methods for industrial hygiene applications. Congratulations!

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Keep that ACS Membership!

It was recently brought to the attention of the Section's Board members that there may be confusion in the minds of some 50- year and emeritus members, sometimes leading to the dropping of their ACS membership. Specifically, one member thought he would be called on to attend meetings, join committees, and generally keep active in order to hold these honorary titles. Since he couldn't do these things, he cancelled his ACS membership. This is far from actuality.

The 50-Year Member status is self-explanatory and requires only 50 years of full dues payment; the Emeritus title is added when the member reaches 70 years of age. No activity or meeting participation is required. But, for either of these

categories, the same package of benefits is provided as for full dues paying members. These include, but are not limited to, waiver of National ACS dues, free registration at all National and Regional meetings, and free C&E NEWS. Our Section also provides half price meals at Section meetings, to all retired members and members of these two categories.

So, there is nothing to lose and everything to gain by keeping your membership when you reach 50-year or emeritus status.

KEEP THAT ACS MEMBERSHIP!

Ted J. Logan
Councilor and Emeritus Member.

CINTACS Short Courses

The Continuing Education Committee would like *your* opinion to help schedule future Short Courses. Specifically, we would like to know which of the following course topics is of most interest to our membership:

- [1] Chemical Engineering and Process Fundamentals for Chemists
- [2] Dispersion of Fine Particles in Liquids
- [3] Emulsions and Microemulsions
- [4] Experiment Design for Productivity and Quality in R&D
- [5] Fundamentals of High Performance Liquid Chromatography
- [6] Interpretation of Mass Spectra
- [7] Microsoft Excel[®] for Scientists and Engineers
- [8] Molecular Biology and Recombinant DNA Technology
- [9] Pharmacology for Chemists
- [10] Polymer Chemistry
- [11] Statistical Analysis of Laboratory Data
- [12] Synthetic Organic Chemistry: Modern Methods and Strategy

Please select from the above list the one (1) course that you would most like to attend if offered in the Cincinnati area at ½ the price (that's 50% off!) of what you would pay at a National ACS meeting or Pittcon. Send your reply to white.dr.2@pg.com prior to October 30. Thank you.

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 10, 2003 (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 10, 2003 (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 14, 2004 (at the meeting).

Nomination forms for each award may be requested from, and returned to:

Jim Hershberger
Department of Chemistry
Miami University
Oxford, OH 45056

Ph 513-529-2441
Fax 513-529-1675
Hershbjw@muohio.edu

American Chemical Society

Regional Industrial Innovation

Awards Program:

Shining a Wider Spotlight on Successful Industrial Research & Development

ACS regional meetings provide an unparalleled opportunity to obtain top-notch technical programming that is customized to reflect scientific challenges and business opportunities. One unique program that delivers on these efforts is the **American Chemical Society's (ACS's) Regional Industrial Innovation Awards Program**, sponsored by Industry Member Programs. This program honors individuals and teams for their creative chemical innovations that have resulted in a commercial product or process.

Recipients of this award come from a broad range of companies such as 3M Co., Lucent Technologies, Molecular Probes, Inc., Dupont Co., Dial Corp., Pacific Northwest National Laboratory, Precision Combustion, Inc., Pfizer Inc, General Motors, Abbott Lab., Merck Co., Bayer Corp., GelTex Pharmaceuticals, Eastman Chemical, Sealed Air Corp., Texas Instruments, The Procter & Gamble Co., etc.

The recipients are honored during their respective ACS regional meeting which includes a symposium that features 20-minute presentations by the honoree(s) and the presentation of an official ACS certificate at a special awards banquet. Furthermore, the Regional Industrial Innovation Awards Program presents several other opportunities.

- This program allows the ACS, a global leader in serving chemists, the opportunity to recognize scientific researchers for their creative contributions to society and their corporate leadership for the advancement of a healthy regional economy;
- Honorees gain the well-earned recognition of their peers and co-workers in the chemical profession; and through local, regional, and national media coverage, the company can use the success story to enhance its public image, develop lasting goodwill in the community, and increase employee

morale within the company;

- The program presents a significant networking opportunity for ACS members, ACS governance, industrial researchers, corporate leaders, and students; and
- The program promotes the awareness and importance of the chemical profession and the valuable contributions that chemists make on our everyday life.

Consider placing a nomination for the 2004 Regional Industrial Innovation Awards Program. **The deadline for submitting nominations for the 2004 cycle is January 15, 2004.** For further information, please contact Vanessa Johnson-Evans at 202-872-4373, 1-800-227-5558, ext. 4373, or cheminnovations@acs.org. Information can also be found at <http://chemistry.org/industry/regionalawards>.

Project SEED 35th Anniversary

Since 1968, Project SEED has opened the door to science experiences for economically disadvantaged high school students who otherwise might not have this opportunity. More than 7,100 talented students have experienced scientific research during the summer months in local academic, industrial, and governmental laboratories with volunteer research chemists as mentors.

Your support for the summer program, college scholarships, and/or the endowment will enable ACS to keep the doors to a career in chemistry open to students in need.

*Not everything that is faced can be changed;
nothing can be changed until it's faced.*

--James Baldwin

*There are two ways of meeting difficulties:
you alter the difficulties or you alter yourself meeting them.*

--Phyllis Bottome

Money Matters

Cincinnati Section Budget Overview

Ever wonder what the society spends to put on its fine programs and bring in top notch speakers? The Local Section board recently passed the operating budget for the 2003-04 fiscal year. The \$93,000 budget includes \$15,000 for National Chemistry Week programs and just over \$40,000 for our local meetings, speakers and the annual short course. All of the details for this year's budget, as well as the report on last years budget, are posted on the section web-site.

the Budget and Finance website. This site provides easy-to-understand information about the finances of the ACS and is updated regularly with information that is important for every member to know.

Highlights of the site include:

- The latest B&F report to Council
- The Society's 2002 Consolidated Financial Statements
- Financial overview
- Details of the Society's reserves
- The Sources and Uses of Society Funds

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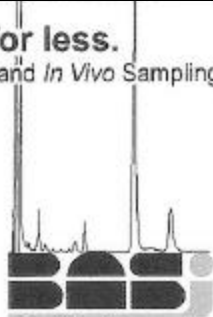
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