CINTACS



Newsletter of the Cincinnati Section of the American Chemical Society

Oct., 2003 Vol. 41, No. 1

Meeting Calendar

Friday,	Oesper Award
Oct. 10	at U. of Cincinnati

Wed.,	Art Ellis, NSF
Nov 12	at Four Points Hotel

1101.12	at Four Fouris Hote

- Wed.,Ken Setchell, UCDec. 10at Xavier University
- Wed.,Isiah Warner, LSUJan. 14at Embassy Suites
- Wed., Chemist of the Year Feb. 25 at Givaudan Flavors
- Wed.,Don TomaliaMarch 24at Miami University

Thurs.Arthur Ford, USGSApr. 22at NKU

Fri. Party Night! May 21

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Retired Chemists Committee
and much more!

The 2003 Oesper Banquet and October Monthly Meeting

Friday, Oct. 10, 2003

co-sponsored by the Department of Chemistry, University of Cincinnati

honoring

Professor Alan G. MacDiarmid University of Pennsylvania and University of Texas at Dallas

with featured after-dinner speaker (PLEASE NOTE THE CHANGE IN SPEAKER AS COMPARED TO THE PRINT EDITION OF CINTACS)

> Dr. Wade Adams Rice University

"Be a Scientist Save the World"

About the Awardee

Alan MacDiarmid was the chemist responsible in 1977 for the initial synthesis and chemical and electrochemical doping of polyacetylene, $(CH)_x$, the prototype conducting polymer, and the

(Continued on page 4)

About the Speaker

Dr. Wade Adams is the Director of the Center for Nanoscale Science and Technology at Rice University. The Center is devoted to the development of new innovations on the nanometer scale Dr. Adams retired from the US Air Force senior executive (*Continued on page 12*)

THE CINTACS NEWSLETTER

Vol. 41, No. 1 Oct, 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

With the beginning of a new year for the Cincinnati Section of the ACS, I want to thank Allan Pinhas, past Chair and newly elected Trustee, for a great 2002-2003—and for all his help as I have transitioned into my position as Chair. I also want to congratulate all of the newly elected officers (listed elsewhere in this issue) and thank everyone who has agreed to chair a committee in 2003-2004 (full list in the November issue). The Cincinnati Section is a volunteer organization, and we cannot be successful without you!

The heart of any local section's activities is its monthly meetings. I'm excited about this year's line-up, which begins with the annual Oesper Award Symposium honoring Nobel Prize Winner Alan MacDiarmid. The banquet will be held the evening of Friday, October 10, with the actual symposium on Saturday, October 11.

Preceding the banquet on October 10 will be the Cincinnati Section's annual poster session. Poster information should be forwarded electronically to Jennifer Hodges-Thomas at UC (hodgesjr@email.uc.edu) by October 6. The after-dinner speaker on October 10 will be Dr Wade Adams—whose talk "Be A Scientist. Save The World" is a call-to-arms for all of us! Make your reservation for the banquet now, so you don't forget.

In addition to regular meetings and special-interest discussion groups, the Section will continue our outstanding ongoing activities and initiate some new ones. Of continuing note is our award-winning participation in National Chemistry Week (October 18-25). Gloria Story has arranged major NCW activities for Cincinnati (Hamilton County Libraries and the Cincinnati Museum Center, among others). Watch for articles related to NCW as part of the *Cincinnati Enquirer/ Post* Newspapers in Education Program. Contact Gloria (story. gm@pg.com) if you want to be a part of the 2003 NCW activities.

New or expanded activities for the Section this year include (please see articles elsewhere in this issue for details):

- A Retired Chemist Committee, chaired by Ralph Damico (open to anyone over the age of 21).
- Participation in the ACS Project SEED, chaired by Bill Connick.
- Government Relations, chaired by Brigette Ramos.

My goal is to have something of interest in the Cincinnati Section for all 1700+ ACS members in the area. **Please take the time to come to a meeting, to meet your fellow chemists, to get involved!** And, if you have any ideas for activities that we are not now doing, be sure to let me know.

October Monthly Meeting The 2003 Ralph and Helen Oesper Banquet and Poster Session

honoring Alan G. MacDiarmid University of Pennsylvania and University of Texas at Dallas

Friday, October 10, 2003 University of Cincinnati Faculty Club

Program

6:00-7:20 p.m. Local Cincinnati Poster Session/Social Hour, including complimentary snacks

7:30 p.m. Oesper Banquet (dinner includes your choice of 1) Pan-seared chicken breast with roasted pepper sauce; 2) Lemon baked cod; or 3) Grilled marinated portobello mushrooms with pesto angel hair primavera.) \$26.00 (\$13.00 for students, emeritus, unemployed and new members)

Presentation of the 2003 Oesper Award to Professor Alan MacDiarmid

After-dinner speaker, Dr. Wade Adams (please note the change in speaker as compared to the print edition of CINTACS) *"Be a Scientist.....Save the World"*

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. 6, 2003. 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 ¹/₂ 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 I71**, 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.

(Continued from page 1) "rediscovery" of polyaniline, now probably the foremost industrial conducting polymer.

In 1973, he began research on $(SN)_x$, an unusual polymeric material with metallic conductivity. His interest in organic conducting polymers began in 1975 when he was introduced to a new form of poly-



acetylene by Dr. Hideki Shirakawa at the Tokyo Institute of Technology. The ensuing collaboration between MacDiarmid, Shirakawa and Alan Heeger (then at the Department of Physics at the University of Pennsylvania) led to the historic discovery of metallic conductivity in an organic polymer, thus introducing and establishing the field of conducting polymers (electronic polymers). In 2000 these three collaborators received the Nobel Prize in Chemistry for this pioneering research.

This initial discovery and ensuing studies permitted MacDiarmid, in collaboration with Shirakawa, to attempt the first chemical doping of $(CH)_x$ and to collaborate on detailed physics studies with Heeger. That an organic polymer could be readily doped to the metallic regime introduced a phenomenon, completely new and unexpected to both the chemistry and physics communities.

His current scientific interests are centered around the technologically important conducting polymers, polyaniline and poly(ethylenedioxy thiophene), and their use in conducting polymer nanofibers (diameter <100 nm) and inexpensive, disposable plastic and paper electronic circuits.

MacDiarmid's most recent research has created electronic organic fibers with a diameter of ~ 4 nanometers. A nanomaterial is a material consisting of a substance or structure which has at least one dimension less than 100 nm (the diameter of a human hair is approximately 50,000 nm). His objective is to combine the fields of electronic organic polymers and electronic nanofibers to develop a new field of "nanoelectronics". He is also actively involved in the establishment of a new institute (The Jilin MacDiarmid Institute) of organic nanomaterials at Jilin University, Changchun, China, opened in November 2001 and a new Institute (MacDiarmid Institute of Materials Science and Nanotechnology) at Victoria University of Wellington, New Zealand.

MacDiarmid has recently accepted the James Von Ehr Distinguished Chair in Science & Technology, and also the position of Professor of Chemistry and Physics at the University of Texas at Dallas while maintaining his Blanchard Chair in Chemistry, at a reduced level of input, at the University of Pennsylvania.

MacDiarmid was born in New Zealand 76 years ago and after obtaining his higher education at the University of New Zealand, University of Wisconsin and Cambridge University. He joined the faculty of the University of Pennsylvania in 1955. He is author/coauthor of over 600 research papers and approximately 25 patents. He is also the recipient of nume rous awards and honorary degrees, both nationally and internationally.

After-Dinner Talk Oesper Award Banquet Oct. 10, 2003

"BE A SCIENTIST SAVE THE WORLD"

Dr. Wade Adams Rice University

Abstract

Energy is both the single most important problem facing humanity today and a magnificent scientific opportunity. We will need a minimum of ten terawatts (the equivalent of 150 million barrels of oil) per day from a new, clean energy source by 2050. Solving this problem will demand revolutionary breakthroughs in the physical sciences and engineering, and particularly in nanotechnology. This talk will discuss the magnitude of the problem, some enabling nanotechnology revolutions that will be needed to address the problem, the people/workforce issues that impinge on the problem, and some thoughts on how to organize to solve the problem.

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Th	e Department of Chemistry at the University of Cincinnati
	presents
Τ	he 2003 Ralph and Helen Oesper Symposium
	honoring
	Alan G. MacDiarmid
	James Von Ehr Distinguished Chair in Science & Technology, Professor of Chemistry & Physics, University of Texas at Dallas and
	Blanchard Professor of Chemistry University of Pennsylvania, Philadelphia
	Saturday, Oct. 11, 2003 University of Cincinnati 502 Rieveschl Hall
9:00 a.m.	Professor Marshall Wilson, Head, Department of Chemistry Welcome and Introductory Remarks
9:10	Joel S. Miller, University of Utah "Organic Magnets: New Chemistry, New Bonding, and New Materials for the New Millennium"
10:15	Art J. Epstein, Ohio State University "Conventional and Unconventional Magnetism in Organic-Based Solids: New Opportunities in New Materials"
11:00	Ray H. Baughman , University of Texas at Dallas "Super Tough Nanotube Composite Fibers for Artificial Muscle and Electronic Textile Ap- plications"
	Lunch (11:45-1:10) UC, Faculty Club (Buffet \$14; Students \$7) Reservations are required: Please send an email to: Kim.Carey@uc.edu
1:15	Paras N. Prasad , State University of New York at Buffalo "Emerging Opportunities at the Interface of Photonics, Nanoscience and Biology"
2:00	Tim M. Swager , MIT "Polymer Electronics for Ultra-Sensitive Chemical and Biological Sensors"
	Afternoon Break (2:45 – 3:10 PM)
3:15	Alan Graham Mac Diarmid, University of Pennsylvania and University of Texas at Dallas "Electronic Polymers: New Materials for the 21st Century"

Project SEED

Project SEED is a program administered by the American Chemical Society that offers a unique opportunity for economically disadvantaged high school students to spend the summer conducting hands-on chemical research with scientists in a laboratory setting. For the first time in more than a decade, the Cincinnati Section of the ACS sponsored a Project SEED program in 2003. Part of the funding for this program came from the proceeds of a 2001 anonymous donation to the local Section for this purpose. Three students spent eight weeks in Project SEED at the University of Cincinnati, doing chemical research.

- Javier Jones, Purcell Marian High School, worked in the laboratory of Professor Dave Smithrud on protein mimetics.
- Neal Mitchell, Jacobs High School, worked in the laboratory of Professor Bill Connick on two-electron platinum reagents.
- Nina Yarbrough, Withrow International High School, worked in the laboratory of Professor Anna Gudmundsdottir on the synthesis of azidoarylketones.

All three students had a very positive summer experience. "It's been the best summer of my life," said one. Another learned that "chemists are cool nothing like what I thought." [Yes, that's a real quote!]

Bill Connick is the 2003-2004 chair of the section's Project SEED committee. If you are a high school chemistry teacher with a student who might be interested in participating in Project SEED next summer, or if you are a practicing chemist (academia, industry, or government) who would like to host a high school student in your lab, contact Bill at bill.connick@uc.edu.

Visit the Section's Home Page

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

Nina Yarbrough, a junior at Withrow International High School, working on her chemistry problem this summer in the laboratory of Dr. Anna Gudmundsdottir in the Chemistry Department at the University of Cincinnati. Nina was a Project SEED student supported by the ACS.

Section Meeting Sponsorship

For the first time, we have managed to secure a sponsor for each of the eight Cincinnati Section meetings in the 2003-2004 program year., before the first meeting on October 10th. These sponsors have each committed to at least \$1000 in " in-kind" or cash to support the Social Hours, student dinners, dinners for speakers and guests, and speaker expenses such as lodging, food, and transportation, A/V needs, and room facilities. Among other things, this means we can be more aggressive in bringing National ACS members into our local activities, enticing more students to participate in the meetings, and accessing better known speakers.

The list of monthly dates and sponsors presented below is interesting in many aspects. Note we have two members, Robert Laughlin and Rick Fayter,

who have agreed to sponsor their third meeting. This generosity deserves our highest recognition and thanks.

Secondly, and for the first time, we have an individual sponsor from the academic world, Marshall Wilson. Also, the University of Cincinnati Chemistry Department will again sponsor the October meeting in conjunction with the Oesper award celebration. Givaudan will host the Feb. 25th meeting on their premises while providing all the amenities mentioned earlier. Procter & Gamble will be a contributor and sponsor as it has been for over 25 years, and a P&G division, P&G Pharmaceuticals, will sponsor the December meeting. Advanced Testing Laboratory for the third year will sponsor the Nov. 12 meeting.

Importantly we have been able to draw sponsors from most segments of our Section's membership---academic institutions, both departments and individuals; industrial organizations, retirees, and relatively new companies in the Cincinnati area. This should tell the general membership that our programs are broadly sanctioned and supported by all segments of our membership roster.

Please look over the sponsors list that follows and look for opportunities to thank them for their generous support of our 2003-2004 program.

Cincinnati ACS Section Program Sponsors, 2003-2004

- Oct. 10 University of Cincinnati, Department, of Chemistry (contact: Bruce Ault)
- Nov. 12 Advanced Testing Laboratory (contact: Jamie Heimkreiter)
- Dec. 10 Procter & Gamble Pharmaceuticals (contact: Jeff Ares)
- Jan. 14 Procter & Gamble Company (contact: Ron Webb)
- Feb. 25 Givaudan Flavors (contact: Phil Christenson)
- Mar. 24 Marshall Wilson
- Apr. 22 Robert Laughlin
- May 21 Rick Fayter

Ted Logan, Chair, Sponsorship Solicitations

Survey: Short Courses

The Continuing Education Committee would like <u>your</u> 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 ¹/₂ 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.

Not an ACS member? Join the ACS now (www.chemistry.org) and save an extra \$100 on future course fees while a member.

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 a title and abstract to Jeni Hodges-Thomas, at hodgesjr@email.uc.edu no later than Monday, October 6, 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 Jeni. Please note: you do not need to attend the banquet in order to present a poster.

Officers, Cincinnati Section, American Chemical Society, 2003-2004

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<i>Councilor</i> (12/04)	Gibboney, Kathy Procter & Gamble Pharmaceuticals 8700 Mason-Montgomery Rd. Mason, OH 45040-8006	work: 513-622-2289 fax: 513-622-1433 gibboney.k@pg.com
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Alternate Councilor (12/04)	Oliver, Bill Northern Kentucky University Dept. of Chemistry Highland Heights, KY 41099-1905	work: 859-572-5409 oliver@nku.edu

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 Trustees of the Cincinnati Section 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 MonthApplication DeadlineNotification DateNovemberNovember 1, 2003December 1, 2003JanuaryJanuary 15, 2004February 15, 2004MayMay 1, 2004May 30, 2004

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 contact:

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

See the following page for the official application form for the educational grants

The Cincinnati Section of The American Chemical Society EDUCATIONAL GRANT APPLICATION

DATE

		DATE:
Name:		
Department:		
Address of Organ	ization:	
		Zip Code:
Name and Title of	f Official Certifying Or	ganizational Compliance with the Grant:
Signature		
Name/Title (print	or type)	
ACS Member or A	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	Phone: 513-272-5360
Seven Hills School	FAX: 513-271-2471
5400 Red Bank Road	E-mail: Brian.Berning@7hills.org
Cincinnati, Ohio 45227	

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."

Local Section Members Speak out for Science

Brigitte Ramos Chair, Government Affairs Committee

Through critical decisions on regulation, tax, and spending, Congress impacts how chemistry is practiced in the tri-state region. As chemists, the importance of strong support for the sciences is obvious. However, fewer than 10 members of Congress list a science related field as a previous occupation (according to ACS headquarters). With this in mind, members of the Cincinnati Local Section voiced their concerns with our members of Congress during the recent July 4th congressional recess. Joel Shulman, Diane Schmidt, Jerry Sarquis, Brad Smith, and I participated in meetings with the offices of Senator Mike DeWine and Representatives Steve Chabot, Rob Portman, and John Boehner.

In these meetings we asked that the National Science Foundation be funded at \$6.4 billion in fiscal 2004, the level authorized by Congress last year but not yet appropriated, and that the Department of Education's Math and Science Partnership program be funded at \$200 million. We emphasized that NSF and the Math and Science partnerships are critical to our nation's economic well-being and national security. In addition, we pointed out that NSF currently funds over 850 grants in Ohio, 87 of which are housed at the University of Cincinnati. In the end, the policymakers agreed that funding NSF and math and science education is important; but hey could not commit to our requested funding levels until they have a better idea of the overall budget.

These meetings were part of an initiative developed by the national ACS's Office of Legislative and Government Affairs (OLGA) to encourage and support ACS member interaction with members of Congress. It is OLGA's belief that face-to-face meetings with policymakers are the best way to educate them on issues of concern to chemists and chemical engineers.

If you would like to participate in similar activities in the future please contact me at brigit-teramos@yahoo.com or at 513-774-0329 or contact ACS staff member Brad Smith at b_smith@acs.org or at 1-800-227-5558 ext. 4479.

(Continued from page 1) ranks in January 2002. as the Chief Scientist of the Materials and Manufacturing Directorate, Research Air Force Laboratory. He is internationally known for his research in highperformance rigid-rod polymer fibers, X-ray scattering studies of fibers and liquid crystalline films, polymer dis-



persed liquid crystals, and theoretical studies of ultimate polymer properties. He is a Fellow of the American Physical Society and the Air Force Research Laboratory.

The Cincinnati Section Younger Chemists Committee

YCC, a subgroup of ACS both nationally and locally, is a network of age 35-and-under college students and younger professionals doing chemistryrelated work. YCC provides ways to meet other people who are going through (or recently went through) the same common situations: completing coursework, preparing for and succeeding in a job search, adjusting to new work environments and issues.

Locally, the Cincinnati section of YCC hosts a variety of technical and social events: tours, happy hours, discussion groups, speakers, etc. Our next event to begin this year will be a Happy Hour (free food and drinks) at Mulligan's in Hyde Park on Tuesday October 14 from 6-8 PM. You are invited to stop by and meet other younger chemists- get to know some new faces and make some new contacts. Cincinnati YCC is a great resource and network!

If you have questions, suggestions, or comments, please contact local YCC chair Joy Henderson at Barr Laboratories, henderj@barrlabs.com, 513-731-9900 x7227.

- http://membership.acs.org/y/YCC/Default. htm National YCC web link
- http://www.che.uc.edu/ycc/index.html Local YCC web link

Our Outreach Program Yields Great Fruit!

The section was invited to provide program for the summer "Science Thursdays" program at the Children's Learning Center (in the downtown branch Public library of Cincinnati & Hamilton County). Mike Hardy, one of our members active in the NCW program, brought his chemonstration magic to the library's garden. Barb Childers, Children's library assistant, wrote to Mike and us saying: "Thanks for a wonderful chemistry program in the Children's Garden at the Main Library! It was a perfect kick-off for our summer series "Science Thursdays" where we feature noisy, messy outdoor programs in our enclosed garden. Your patience and careful explanations of chemistry terms for our audience's wide variety of ages works very well. Your emphasis on "there are no wrong answers - this is all about experimentation" is a particularly powerful and positive message to children. Your careful preparations and safety precautions are equally valuable parts of your delivery. You interjected just enough spice with your interactions to keep every-

one hooked on the Kitchen Chemistry you were cooking up! I particularly liked the "molecule" activity in which you got all the children up and moving and attaching like little chains of molecules. What a vivid demonstration and one they will never forget. And that's just the point, isn't it?"

"Thanks to you for utilizing a child's natural curiosity; the kids who participated in your presentation may well become our future inventors and scientists and chemists...I hope you got to see the captivating photograph of you in your rainbow-hued lab coat with your child-sized lab assistants so serious in their huge safety goggles. My personal favorite experiment was the balloon with the skewer through it. I may use that (and others you did) in our Science Alive programs we conduct for visiting classrooms during the school year. What fun! Thank you for providing handouts and charts to interested adults who wished to duplicate the investigative experiments at home and in the classroom. I would certainly like to write a big thank you to Kroger's for donating your materials for the program."

Chemical Educators Meet October 8

Mike Gever has invited us to congregate in his classroom at Deer Park High School on Wednesday night, October 8. We gather at 6:30 PM for light refreshments, social conversation, and announcements. The program begins at 7PM; we make a point of finishing by 9 PM. The program will be a sharing of new activities, experiments, classroom approaches, and demonstrations collected at ChemEd 2003 in Auburn, Alabama by several of the area teachers who were lucky enough to attend the conference. The list includes several project ideas for alternative assessment, Internet resources from the Chemical Heritage Foundation, inquiry activities for both first year and AP level courses, forensic science projects, and bringing art and chemistry together in sun print making. The highlight of the evening could very well be bringing chemical concepts to life through song and dance!

Now the veterans of the chemical educators' discussion group know the drill. Bring a new colleague to the meeting! This is the quickest way in town to grab a fistful of new teaching ideas and to network with other teachers. Here are your directions:

From 75, travel east on Ronald Reagan (Cross County) Highway and exit at Plainfield Rd. Turn right (south) onto Plainfield and follow the road about one mile to the high school at 8351 Plainfield Rd.

From 71, travel west on Ronald Reagan Highway and exit at Plainfield Rd. Turn left onto Hunt Rd. At the stoplight, turn left (south) onto Plainfield Rd. and travel 1 mile to the school. We will meet in Room 225. If you have any other questions, call Mike at 513-

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 14

Retired Chemist Committee

More than 14% of the members of the Cincinnati Section of the ACS are retired chemists. To help the Section direct activities toward the interests of these members, we have initiated the Retired Chemist Committee, chaired by Ralph Damico. The inaugural project for the committee is to use our many knowledgeable, retired chemists to bring science to schools in the Greater Cincinnati area.

The program has two main goals:

- Initially, to present science/chemistry demonstrations, "magic shows", to kindergarten to 6th grade students.
- 2. To give in-service day talks and presentations to K-6 teachers, who often have little back-ground in science and are hesitant to include it in their curricula.

Those who volunteer to join this group will not be starting from scratch. A cadre of volunteers-including Richard Sunberg, Gloria Story, Ed Von Bargen, Tim Bates, Mike Hardy, and others--has been presenting chemistry demonstrations from kindergarten to senior citizens for many years. This group can serve as training supervisors for the new volunteers. A tool kit of supplies, discussion topics, prepared talks, and experiment kits will be provided.

We expect to begin training this fall and start the school programs in January. Volunteers will be asked to commit a half day for training. Then, if you wish, you will spend several days a year doing presentations. You will start out with an experienced presenter and work up to a solo flight.

We are searching for interested retired chemists and others to help with the program. Please contact Ralph Damico at 772-0065 or RDamico@Aol.com if you are interested. Give it a try! You are under no obligation to continue if it's not for you.

For those who don't know Ralph, he is an organic chemist who retired from P&G in 1994 after 31+ years in R&D. After retirement, he volunteered as a chemistry tutor at St. Xavier High School from 1994 to 1998. He says that this experience was by far the most rewarding of all his volunteer activities.

Thus, he hopes that bringing chemistry to schools in the Greater Cincinnati area will be rewarding for him and for many other volunteers.

ChemLuminary Awards Finalist

The ChemLuminary Planning Committee of the American Chemical Society has selected the Cincinnati Section as a finalist for two ChemLuminary Awards. They are the **Committee on Public Relations and Communications Local Section Public Relations Award** (the Public Relations Committee was chaired by Gwen Baumann) and he **National Chemistry Week Task Force Greatest Community Involvement in NCW Award** (the NCW Committee was chaired by Gloria Story).

The announcement of the winners and the award presentations will be on Tuesday, September 9, at the ChemLuminary celebration during the ACS National meeting in New York. Prior to the award presentation, a poster session will allow the Cincinnati Section and all other sections who have been selected as finalists to showcase their activities.

Email Addresses Needed

We are trying to update contact information, including email addresses, for the 1700 members of the Cincinnati Section. To facilitate this, we ask you to do the following:

- Make sure that ACS National has your correct profile. You can do this by going to www.acs.org, logging on with your login and password, and then editing your profile. Please make sure that your email address is listed correctly.
- If you have never logged on to www.acs.org, or you have forgotten your login and/or password, simply log in as a New User and create a login/ password.
- Separately, if you haven't received any email messages from the Cincinnati Section or your email address has changed in the past six months, send a message to Grover Owens, Cincinnati Section Membership Chair, at owens.gd@pg.com, giving him your email address.

Thanks for helping us keep our records up to date!

NCW 2003 "Earth's Atmosphere and Beyond"

Gloria Story, local NCW chair

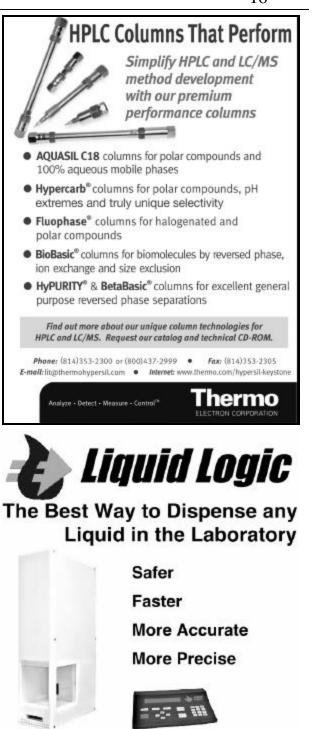
(Please note: This article, written August 21, 2003, describes NCW plans and events up to this date. The website will have the final information.)

The Cincinnati section will celebrate National Chemistry Week with chemonstrations at local libraries and the Cincinnati Museum Center. P&G Recruiting, P&G Pharmaceuticals, Givaudan, and the ACS matching fund will sponsor the Newspapers in Education program of the Cincinnati Enquirer/Post during NCW (http://cincinnati.com/nie/ calendar/). The section thanks P&G, Givaudan, and the national office for making this possible!

Emphasizing the ACS safety guidelines, we will be having a training event on Thursday, October 2nd for all our chemonstration volunteers. Ed Von-Bargen (P&G) and Amy Weiskittel (Equistar) will be leading this effort, with Equistar as the host.

The events at the Cincinnati Museum Center (CMC) are in the planning stage. We will have program there on Friday, the 24th and Saturday, the 25th, from 10 - 5:00. Students from Rebecca Stricklin's Oak Hills High School Chemistry Club will be volunteering to provide chemonstrations with other NCW volunteers. This year, we plan to provide a passport for each child (celebrating the 100 years of flight as well as OH's bicentennial) that they can get stamped as they go to the three FREE stations around the CMC. Station 1, in the rotunda, will provide a fun hands-on demo to encourage them to visit the other 2 stations. Station 2, in the entrance to the Children's Museum, will also provide a fun handson demo that encourages them to make the trek to station 3, in the News Reel Theater. There, more hands-on demos will be provided with goodie bags to collect for each fully stamped passport. The goodies will include fun items from the ACS online store, the Celebrating Chemistry newspaper, and anything else we can beg, borrow, and steal.

 $(Continued \ on \ page \ 20)$



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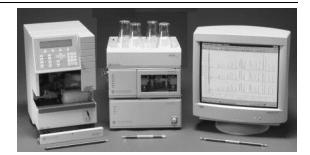


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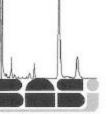
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Linda Ford Receives James Bryant Conant Award

On March 23, 2003, Linda Ford formally received the James Bryant Conant Award as the national chemistry high school teacher of the year. The award was presented by Dr. Charles R. Everly, representing Albemarle Corporation, sponsor of this award for 24 years. At right, Linda Ford is shown with Dr. Everly (left) and Ted Logan (right), councilor for the Cincinnati Section.



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Here are two professional developments announcements that could be of interest to many of you. The 18th Biennial Conference on Chemical Education will be held on July 18-22, 2004 at Iowa State University in Ames. To learn more about this conference visit the website, www.chem.iastate.edu/ bcce, or e-mail question to bcce@iastate.edu. ChemEd 2005 will occur July 31 to August 4, 2005 in beautiful Vancouver, British Columbia. Save your money! Write an educational grant! Make family vacation plans that intersect these terrific professional opportunities!

Finally, Linda Ford is chairing the chemical educators' discussion group again this year. Please send your comments, suggestions, and/or questions to her at Linda.ford@7hills.org.

(Continued from page 16)

Richard Sunberg continues to lead our poster contest program for students in K $- 12^{th}$ grade. We hope to include into the "Earth's Atmosphere and Beyond" theme, our OH celebrations for the 100 years of flight and the bicentennial. Stay informed on all our activities on our website (http://www.che.uc.edu/acs/cinacs.html).

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