

CINTACS



Newsletter of the Cincinnati Section of the American Chemical Society

April, 2009
Vol. 46, No. 7

Meeting Calendar

- Apr. 15 Education Awards Night
@ Northern Kentucky U.
- May [?] Party Night
Riverboat cruise or
Reds ballgame

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April Monthly Meeting Wednesday, April 15, 2009

Education Awards Night @ Northern Kentucky University

Sponsored by Girindus America, Inc.

Featured Speaker: Ms. Pamela Addison



High School Chemistry Teacher of the Year 2000

(Continued on page 3)

THE CINTACS NEWSLETTER**Vol. 46, No. 7 April, 2009**

Editor.....Kevin Ashley
 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 April 13 for the May 2009 issue. Electronic submission is strongly preferred. All materials should be sent to:

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From the Chair

I am writing this note a week before the March 11th meeting. I hope everyone enjoys hearing Shirley Corriher at the March meeting at the Sharonville Convention Center, and thanks again to Advance Testing Laboratory, Inc. for their generous sponsorship of the March meeting and for their continuing support for local section meetings over the years. Our April meeting at NKU will be devoted to the recognition of local chemistry teachers and students. We thank Girindus America, Inc. for their sponsorship of this meeting and Stefan Paula of NKU for making all of the arrangements. There will be a variety of awards given for outstanding achievement in science and chemistry:

Teacher of the Year Awards: Ms. Angela Collins, Scarlet Oaks Development Campus (Sharonville), is the High School Chemistry Teacher of the Year; Mr. Steve Federman, Loveland Intermediate School (Loveland, OH), is the Middle School Science Teacher of the Year; and Ms. Mary Neises, Bauer Elementary School (Miamisburg, OH), is the Elementary School Science Teacher of the Year. Congratulations to these three outstanding teachers who devote their careers to inspiring the next generation of scientists. Also, thanks to Chair Jeff Seeley and his awards committee.

Oesper and Chemistry Olympiad High School Awards: Congratulations to the winners of the annual Oesper and Chemistry Olympiad examination competitions. Congratulations to the teachers of these outstanding students. Thanks to Committee Chair John Williams for his many years of dedication to this program.

Elementary School Awards: Congratulations to the winners of the National Chemistry Week Poster contest. These kids created posters that reflected the theme for NCW, 'Having a Ball with Chemistry'. Thanks go to the teachers who encouraged participation in the contest, and to Jamie Heimkreiter who chairs the award selections.

Outstanding Achievement in Chemical Education in the Cincinnati Section: Jerry Sarquis of Miami University and Mickey Sarquis of Miami University Middletown for their many years of devoted service to Chemical Education in the Cincinnati Section. Jerry and Mickey are retiring and moving home to California.

Fifty-Year Recognition and Sixty-Year Recognition: We will also recognize the 50-year and 60-year members of the section for their long-standing professionalism and dedication to the ACS

After dinner, our speaker will be Pam Addison (HS Teacher of the Year 2000, Norwood HS, retired) who will present her passion for sharing science and chemistry with the public.

Keep tuned to this station for Party Night plans in May.

-Roger Parker

(Continued from first page)

April Monthly Meeting: Education Awards Night
Wednesday, April 15, 2009
Northern Kentucky University, Highland Heights, KY

Featured Speaker: Pamela Addison
High School Chemistry Teacher of the Year 2000

Sponsored by Girindus America, Inc.

→**The meeting will take place at the new NKU Student Union (Program on page 5)**

Directions to NKU:

From downtown Cincinnati:

- Go east on U.S. Highway 50 (Columbia Parkway) and take Exit 1J, I-471 South, Newport, Kentucky.

Go south on I-471 to the traffic light at the intersection of I-471 and U.S. Highway 27. Continue straight and turn right at the next traffic light onto Nunn Drive.

East on I-275 only (use these directions if coming from the Greater Cincinnati / Northern Kentucky Airport):

- Take Exit 76, "Three Mile Road/Northern Kentucky University."
Turn right. The first traffic light is Kenton Drive; the second traffic light is Nunn Drive.

East or west on I-275:

- Take Exit 74A, toward Alexandria, leading to I-471 south.
Go to the traffic light at the intersection of I-471 and U.S. Highway 27. Continue straight and turn right at the next traffic light onto Nunn Drive.

Parking: As of 2009, guests have to park in one of the two garages (Kenton and University Drive parking lots) and **NOT** in the surface lots. The Kenton Drive parking garage is closest to the new Student Union, where the meeting will take place. The parking fee of \$2.00 can be waived if you bring your ticket for validation to the registration desk. A campus map showing the locations of the parking garages and the Student Union can be found at <http://www.nku.edu/~mccartne/map/index.html>. Due to construction on campus, traffic in and out of campus can be heavy at times and it is recommended that you plan extra time for parking.

Please Register Online at www.ascscincinnati.org. Alternatively, you may email the webmaster at webmaster@ascscincinnati.org to register, or call Roger Parker at 513.771.3613.

The deadline for reservations is Friday, April 10.

About the Speaker: Pam Addison

The Cincinnati Section has a long history of recognizing and supporting high school chemistry and middle and elementary school science. Tonight as we recognize the outstanding 2009 students and teachers, we will hear from the High School Teacher of the Year 2000.

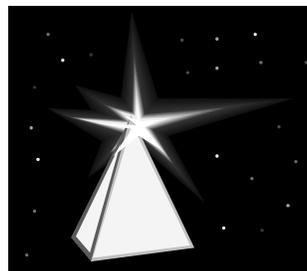
Pam Addison was a passionate, energetic and inspiring teacher in her chemistry classroom at Norwood High School for thirty years. She used and enhanced many of the activities from the Center for Chemistry Education's Teaching Chemistry and Physics with Toys, initially developed by Mickey Sarquis, Jerry Sarquis, John Williams, Lynn Hogue, Beverly Taylor, James Poth, and Dwight Portman.

In her endeavor to reach and engage all students, Pam created energetic and kinesthetic physical science lessons combining sports and physical science. Pam and her high school chemistry students together presented hands-on science activities to kindergarten to sixth grade students in her Elementary Outreach programs. Busier than ever in her "retirement from her classroom," Pam continues "teaching outside her classroom." Pam mentors new teachers by teaching workshops sponsored by the Center for Chemistry Education and volunteers extensively. She also presents for the Ohio Energy Council.

In her presentation, Pam will share how everyday objects can be used to explain some of the how and why of chemistry and science.

Abstract: "How & Why of Chemistry & Science"

How do you explain what you do as a scientist, chemist, or science educator to your neighbor over the fence, or over a beer? Pam Addison, science advocate, Cincinnati Section High School Chemistry Teacher of the Year (2000), and retired Norwood High School chemistry teacher, will present her passion for sharing science and chemistry with the public and teachers from pre-school to college. Pam will describe and demonstrate some of her favorite activities from The Center for Chemistry Education, Miami University and the Ohio Energy Project. For example, you'll "hear" how first graders can demonstrate they know how particles are arranged in solids, liquids and gases, and "see" the difference between fluorescence and phosphorescence.



**Visit the ACS Cincinnati
Section On-line:**

www.acscincinnati.org

April Monthly Meeting Program

Speaker: Pam Addison, HS Teacher of the Year, 2000 Norwood HS (retired)

“Using everyday objects to explain some of the how and why of chemistry and science”

Sponsored by Girindus America, Inc.

Wednesday, April 15, 2009 at the new Student Union, Northern Kentucky University

[Directions to NKU on page 3]*

Program:

5:00 pm Board Meeting: Student Union 109

5:30 pm Registration: Student Union 100L

6:00 pm Dinner: Student Union Ballroom 107A

Served buffet style: Sliced Roast Beef with Burgundy Wine Sauce, Baked Cod, Tossed Green Salad with Ranch and Balsamic, Rice Pilaf, Green Beans, Peas and Red Peppers, Rolls with Butter, Assorted Fruit Pies. Coffee, Tea and Water. Vegetarian meals will be available. \$20.00 (\$10.00 students, emeritus, unemployed and new members)

7:00 pm Awards presentation: National Chemistry Week Poster Competition Winners

7:15 pm Ms. Pam Addison, Norwood HS, retired

8:15 pm Awards Presentation, Science Teacher Awards and Oesper and Chemistry Olympiad Competition Winners.

Reservations should be made online at www.acscincinnati.org. [Deadline Friday, April 10, 2009]

*Note that guests must park in one of the two garages.

→ We will validate the \$2 garage tickets at registration.



Elementary School Science Educator of the Year: Mary Neises

Mary Neises, Bauer Elementary School, Miamisburg Ohio (Kelly Lee Marker, Principal), is recognized by the Cincinnati Section of the American Chemical Society as our *2008 Elementary School Science Educator of the Year*.

Mrs. Neises earned her BS in Education at Bowling Green State University in 1975, and M.Ed. at Wright State University in 1989. She currently teaches first grade. Among her contributions to science education, she spends her summers instructing fellow educators at the Miami University (Oxford OH) Center for Chemical Education. She has received numerous grants including a “First Graders CAN Make a Difference” grant, with which she led Earth Day activities and used money raised for projects at the Cox Arboretum and area parks.



**Middle School Science
Educator of the Year:
Stephen Federman**

Stephen Federman, Loveland Intermediate School, Loveland OH (Chad Hilliker, Principal), is recognized by the Cincinnati Section of the American Chemical Society as our *2008 Middle School Science Educator of the Year*.

Mr. Federman earned his B.A. in Science Ed. and B.A. in Zoology at Miami University (Oxford OH), in 1981 and his M.Ed. at Miami U. in 1995. He currently teaches sixth grade science and language arts. He has been the recipient of numerous grants and awards and is an active contributor to the ACS National Chemistry Week. His influence outside the classroom includes delivery of workshops at CoSI (Columbus), Campbell Gard Outdoor Education Center, and the Buckeye Assessment Team for Science.



**High School Science
Educator of the Year:
Angela Collins**

Angela Collins, Scarlet Oaks Career Development Campus, Sharonville, OH (Julie Woodward, Dean of Instruction), is recognized by the Cincinnati Section of the American Chemical Society as our *2008 High School Chemistry Teacher of the Year*.

Mrs. Collins earned her B.S. in Education at Wright State University in 1999, and obtained her M.S. in Education at Wright State in 2001. She currently teaches chemistry and serves as Science Department Chair at Scarlet Oaks. Among her contributions to Chemical education, Ms. Collins has been an instructor at the Center for Chemical Education at Miami University. There she provided area school teachers with knowledge of new Ohio science content standards and innovative techniques for implementing those standards in the classroom.

SPONSORS FOR MONTHLY ACS CINCINNATI SEC- TION MEETINGS IN THE 2008- 2009 PROGRAM YEAR

Each of these individuals, universities, companies, and departments listed below have agreed to sponsor one monthly meeting with a donation of \$1000 in cash or IN KIND services or facilities to defray the costs of holding a meeting:

September:
(no sponsor sought)

October:
Chemistry Department
University of Cincinnati

November:
(no meeting)

December:
Xavier University
Chemistry Department

January:
Givaudan Flavors
(with additional contribution from Iota Sigma Pi)

February:
Procter & Gamble Company

March:
Advanced Testing Laboratory

April:
Girindus America, Inc.

May:
Dr. Milton Orchin

[There may be shifts in Sponsor/Date assignments.]

The Cincinnati Section and its members are extremely grateful to these individuals and companies and recognize that the quality of our programs is improved by this financial support.

Ted J. Logan, Chair
Committee on Solicitations and Sponsorships
tjlogancin@aol.com

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❖ Mobile Phase Filters	❖ pH Strips
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CERMACS

Central Regional Meeting of the American Chemical Society

*Cleveland, Ohio***May 20-23, 2009**American
Chemical
Society

2009 Central Regional Meeting of the ACS

The Cleveland Section of the American Chemical Society invites you to the 2009 Central Regional Meeting of the American Chemical Society, CERMACS 2009, at the historic Renaissance Cleveland Hotel, Cleveland, Ohio, May 20-23, 2009. This event is being co-sponsored by the Electrochemical Society, the Society for Applied Spectroscopy, the American Vacuum Society, the Yeager Center for Electrochemical Sciences, and Case Western Reserve University.

The theme for CERMACS 2009 is *Meeting Energy & Environmental Challenges Through Functional Materials*. In addition to the traditional symposia on Analytical, Inorganic, Organic, and Physical Chemistry, the meeting organizers are planning symposia on:

- Energy Storage and Energy Conversion
- Functional Materials
- General Catalysis
- Women in Electrochemistry
- Chemical Education
- Chemical Biology
- Medicinal Chemistry
- Art and Science
- Forensic Science
- Computational Chemistry
- Environmental Chemistry
- Health Impact of Nanomaterials
- Lunar Regolith and Simulants
- 100 Years of Chemistry in Cleveland

**ACS**
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CERMACS 2009 is pleased to announce three keynote speakers for the technical program, Professor Charles M. Lieber of Harvard University, Professor Daniel G. Nocera of the Massachusetts Institute of Technology, and Dr. Linda Abraham-Silver of the Great Lakes Science Center. The Cleveland Section will continue four decades of tradition by presenting the Morley Medal for 2009 at the Morley Award Symposium. The Morley Medal recognizes significant contributions to chemistry through achievements in research, teaching, engineering, research administration and public service, outstanding service to humanity or to industrial progress. Workshops and short courses are planned. The undergraduate program will include an undergraduate research poster session as well as networking opportunities. Contact information for symposia chairs and details regarding this event can be found at the CERMACS 2009 website, www.cermacs2009.org.

Second Announcement: Earth Day 2009

Dear Volunteers!!

Once again it time for Chemists to Celebrate Earth Day! For those who do not know me, my name is Donna Wiedemann; I am leading our Section's ACS Earth Day Celebration 2009 at Sawyer Point again this year. The National ACS Earth Day theme this year is "Air - The Sky's the Limit," focused on the earth's atmosphere, aspects of the composition, how to keep it healthy, and how to harness energy from it. I would like to tie it into the Greater Cincinnati Earth Coalition theme of "One Earth.....One Chance." The event this year will be on Saturday, April 18th at Sawyer Point.

Thus, I ask you to please do the following: Let me know whether you will be volunteering to help out with Earth Day this year. I can be reached at (513) 627-7584 or via email at wiedemann.dj@pg.com. I would like to have at least two people at the booth at any given time. Of course more are welcome!

I would like to have a team of people to help with developing demonstrations consistent with this year's theme. All ideas are welcome! I would like for anyone with an Atmospheric Chemistry background to please contact me. Once I hear from those interested in participating this year I will set up a teleconference to explore demonstration ideas. I would like to have some quick experiments the public can do themselves, especially something the children can do to remind them of Earth Day beyond the event.

Thank you very much for your time and attention! I look forward to hearing from you and working together to show how chemists can work in concert with our environment.

-Donna Wiedemann
e-mail: wiedemann.dj@pg.com;
tel. 513-627-7584

ACS LEADER DEVELOPMENT SYSTEM SCHOLARSHIP PROGRAM QUESTIONS AND ANSWERS

What is the Scholarship Program and why is it being instituted?

The ACS Leadership Development System's Scholarship Program has been established to encourage maximum participation in the ACS Leadership Development System courses. Whether a member is new to volunteering, an experienced volunteer looking to step into a leadership role, a newly elected officer, or a seasoned leader, the scholarship program is designed to provide incentive for all members to participate in these world-class courses.

Below are answers to the most common questions members might have.

1. What are these scholarships?

The scholarships are a systematic means to provide members with financial support and incentive to participate in the ACS Leadership Development courses. The scholarships are alpha-numeric "discount codes." The enrollee will buy the course electronically at www.acs.org/professionaldevelopment and will enter the code during the check out process.

2. How much are the scholarships for? Are there different scholarships for the different course categories - online, facilitated, and the Extraordinary Leader?

The scholarships are for facilitated courses and the *Extraordinary Leader* course only. Scholarships are not applicable for online courses.

The scholarships for the facilitated courses are 50% of the course fee.

The price for facilitated courses is \$150. The value of the scholarship is \$75, so the member pays only \$75 for the course.

The scholarships for the *Extraordinary Leader* course are greater than 50% of the fee for the course. The price for the *Extraordinary Leaders* course is \$650. The value of the scholarship is \$350, so members pay only \$300 for the course. The \$300 is equivalent to the cost of the comprehensive assessment tool used in the course.

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3. Who has access to scholarships? How are scholarships distributed?

Local Section and Division members should contact their respective chairs to receive scholarships for the four-hour facilitated courses. The Committee on Local Section Activities (LSAC) and the Committee on Divisional Activities (DAC) will distribute the scholarships for the *Extraordinary Leader* course.

The Committee on Committees (ConC) and the Committee on Meetings and Exhibitions (M&E) will distribute all scholarships (four-hour facilitated and the *Extraordinary Leader* course) for Committee and Regional Board members.

The enrollee will buy the course electronically at www.acs.org/professionaldevelopment and will enter the scholarship code during the check out process.

The ACS Center for Professional Development will, at their discretion, award scholarships to specific individuals who demonstrate leadership commitment and/or potential leaders who will be key to the future leadership of ACS.

4. My employer is paying for the course; can I still use a scholarship?

The scholarships are intended to help ACS volunteers participate in the ACS Leadership Development System, given the outstanding value of the course we would prefer that scholarships not be used to reduce the costs that employers pay. The final decision on distribution of scholarships is up to the Local Section, Division, the Committee on Committees and the Committee on Meetings and Exhibitions.

Scholarships are limited to use by members only. Non-members are not eligible to receive scholarships.

5. What courses qualify for use of scholarships?

The scholarships are good for the ACS Leadership Development System facilitated courses and its *Extraordinary Leader* course.

Scholarships are not applicable for the online ACS Leadership Development System courses.

Scholarships do not apply to Continuing Education (ACS Short Courses). The scholarship system applies to courses in the ACS Leadership Development System only.

6. Do scholarships have an expiration date?

Scholarships are good for one year from January 1 to December 31. Scholarships will be disseminated to Local Sections, Divisions, Committees (via ConC) and Regional Boards (via M&E) at the beginning of each calendar year. In addition, LSAC and DAC will distribute *Extraordinary Leader* course scholarships.

If the scholarship is not used within that period of time, it will not be valid.

7. Where can they be used?

Scholarships can be used at any venue where leadership courses are offered – National Meetings, Regional Meetings, and other venues, excluding the ACS Leadership Institute.

Scholarships cannot be used for an ACS course that is sponsored and conducted by an external group, e.g. NOBCCChE or other sister societies.

8. Are the scholarships transferable?

No; however, there are plenty of scholarships for everyone.

If an individual receives a scholarship and does not use it, the scholarship should be returned to the group they received the scholarship from so that they may pass on the scholarship to another member to use.

9. Are members limited as to the number of scholarships they can receive?

No, members are encouraged to take multiple courses.

Members should work with their Local Section, Division, Committee or Regional Board to obtain scholarships for the courses that will help them gain the skills needed. Local Section and Division members should work with LSAC or DAC to obtain a scholarship for the *Extraordinary Leader* course.

**50% Off the
Nat'l Meeting Price!**

Dispersion in Liquids: Suspensions, Emulsions, And Foams

Ian Morrison, Instructor

**Thursday and Friday, April 30–May 1, 2009
Mason Business Center – The Procter & Gamble Company
8700 Mason-Montgomery Road, Mason Ohio**

Why Attend?

Help solve your colloidal, foam, and dispersion problems in this course designed for scientists and engineers engaged in research and development in the chemical, petroleum, coatings, food, electronics, pharmaceutical, cosmetics, and ceramics industries. Topics covered will include surface and interfaces, surfactants, nanoparticle technology, interparticle forces and stability, laboratory techniques, emulsion technology, dispersion processing, foam technology, and polymer stabilization.

Key Topics You'll Learn About

Principles of colloid and interface science relevant to the formation and stability of dispersions in aqueous and nonaqueous media.

Surfactants – mechanisms, structure-property relations, selection guidelines.

Fundamental concepts and laboratory techniques to study the chemical and physical properties of interfaces.

Properties of emulsions and emulsifiers.

The basic principles governing foam formation, inhibition, and antifoaming.

Experimental methods to quantify particle size, charge, dispersion, stability, and rheological and electrokinetic properties.

Methods to stabilize and destabilize both aqueous and nonaqueous dispersions.

How You'll Benefit from This Course

Consult with a seasoned expert about your R&D problems.

Gain a valuable understanding of relevant techniques.

Become proficient at relating observable dispersion properties to fundamental causes.

Develop an industrial approach to this subject by examining and discussing practical examples.

Take the opportunity to discuss with the instructor your own related problems.

Become familiar with the terminology of the field.

Be exposed to the latest techniques to produce and characterize dispersions, emulsions, nanoparticles.

About the Instructor

Ian Morrison is a Fellow at Cabot Corporation. Previously, he was the Director of Ink Technology at E Ink Corporation, and a Principal Scientist at Xerox Corporation. He has over 20 years experience in teaching short courses.

Program Agenda

Surfactant Science and Technology – Adsorption at interfaces; common anionic, cationic and nonionic surfactants; solution properties of surfactants; source and selection of surfactants.

Spreading, wetting and adhesion – Basic principles of the nature and stability of interfaces; molecular models of interactions across interfaces; contact angles; Laplace pressures; Marangoni effects.

Laboratory Techniques – Particle size and charge measurements; acoustic techniques; adsorption from solution; rheology.

Suspension and Emulsion Stability – Dispersion-force attraction; steric stabilization; electrostatic repulsion; role of ionic strength and zeta potential; stability in nonaqueous media; electrosteric stabilization.

Foam Technology – Bubble formation and stability; physical properties of foams; mechanisms and antifoaming.

Emulsion Technology – Emulsifiers; HLB and PIT scales; physical properties of emulsions; phase inversion; comminution and attrition; commercial processing equipment.

Nanoparticle technology – nanoparticles at interfaces; common particle synthetic techniques; surface modification; applications and processing.

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Date and Site

April 30-May 1, 2009: this is a 2-day course. Location: Mason Business Center (formerly Health Care Research Center) -- The Procter & Gamble Company, 8700 Mason-Montgomery Road, Mason, Ohio 45040. Check-in at 7:30 a.m. on the first day of the course and the course runs from 8:30 a.m. to 5:00 p.m. each day.

Registration and Fees

The course fee will be **\$650 for ACS members** and **\$750 for non-members** (compare to \$1,395 at a National ACS meeting). The fee includes course materials, continental breakfast, lunch, and refreshment break. Seating will be limited. To reserve a seat, please send an e-mail to Rick White (white.dr.2@pg.com) or call (513) 622-1624 with your name, affiliation, phone number and ACS membership status. Payment by credit card can be made by going to the CINTACS website <http://www.acscincinnati.org/acs/> and scrolling down to the short course announcement. Or, you may send check or money order, payable to "Cincinnati Section ACS", to the address listed below. **Payment must be received by Friday, April 17.**

Dr. Rick White
The Procter & Gamble Co.
Mason Business Center, Box 705
8700 Mason-Montgomery Rd..
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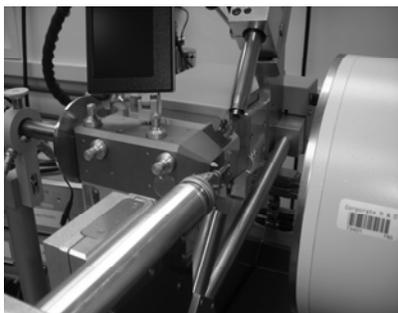
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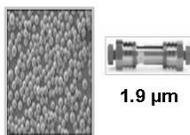
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