

# CINTACS



Newsletter of the Cincinnati Section of the American Chemical Society

March, 2009  
Vol. 46, No. 6

## Meeting Calendar

- Mar. 11 Shirley Corriher,  
Food Chemist  
Joint with Dayton section  
@ Sharonville Convention  
Center
- Apr. 15 Education Awards Night  
@ Northern Kentucky U.
- May [?] Party Night  
Riverboat cruise or  
Reds ballgame

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## March Monthly Meeting Wednesday, March 11, 2009

**Joint with ACS Dayton Section  
Sharonville Convention Center  
Sharonville, Ohio**

*Sponsored by Advanced Testing Laboratory*



**Shirley Corriher**

*“The Secrets of Food Revealed”*

The great adventures behind the scenes in cooking: Shirley will tell of her latest discoveries, adventures, and misadventures in dealing with the chemistry of food and recipes—everything from keeping green veggies green to, “The Saga of the Great American Pound Cake.”

*(Continued on page 3)*

**THE CINTACS NEWSLETTER****Vol. 46, No. 6 March, 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 March 12 for the April 2009 issue. Electronic submission is strongly preferred. All materials should be sent to:

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**From the Chair**

The March meeting will be a joint meeting with the Dayton Section. I am especially pleased to introduce our guest speaker, Shirley Corriher of Atlanta. Educated as a chemist with a B.A. from Vanderbilt, Shirley has used her chemistry background to educate thousands of cooks on the science underlying everyday cooking. As she says, "You can't be a great cook without understanding the chemical properties of food and how they interact with other variables, such as temperature, time and the type of cookware used".

Shirley is a nationally recognized personality, a popular speaker and the author of a best-selling book, *Cookwise: The Hows and Whys of Successful Cooking* (Morrow, 1997) and her new book, *BakeWise*. In addition, she is currently a well-known culinary consultant and has worked with luminaries such as Julia Child and Roland Mesnier, the White House pastry chef. This is a return visit for Shirley: the last time was for our highly successful March meeting in 2006. I look forward to her return visit and I urge that you come and bring a friend or spouse for an entertaining and educational evening.

The March meeting will also include a Chemical Information Discussion Group (Edlyn Simmons, Chair) and will feature John Zabalski of Chemical Abstracts Service: "Properties Information added to the Registry file and Sci-finder." The Section thanks Advanced Testing Laboratory for sponsoring the March meeting at the Sharonville Convention Center.

The Cincinnati Section is a proud sponsor of the 2009 University of Cincinnati Science Fair (SEE), to be held at UC on March 14, 2009. To be a volunteer judge, please contact John Tebo, [tebojh@ucmail.uc.edu](mailto:tebojh@ucmail.uc.edu).

Looking ahead, April is the month when our Section traditionally honors local K-12 students and science teachers. Once again we thank Northern Kentucky University for sponsoring the April 15th event.

Election time is near, and our Nominating Committee will have prepared a slate of candidates for Officers and Executive Committee members for 2009/2010. Contact John Janusz, Chair of the Nominating Committee.

I'll see you in Sharonville on March 11th.

- Roger Parker

*(Continued from first page)*

## March Monthly Meeting:

### Joint with the Dayton Section ACS

*Sponsored by Advanced Testing Laboratory*

**Wednesday, March 11, 2009**

**Sharonville Convention Center, Room 110**  
11355 Chester Road, Sharonville, Ohio

#### Directions and Map:

Take I-75 to the Sharon Road Exit #15.

Proceed west on Sharon Road to the first intersection (Chester Rd).

Turn right on Chester Road. The Convention Center is located ½ mile on the left.



**Please Register Online** at [www.ascincinnati.org](http://www.ascincinnati.org). Alternatively, you may email the webmaster at [webmaster@ascincinnati.org](mailto:webmaster@ascincinnati.org) to register, or call Roger Parker at 513.771.3613.

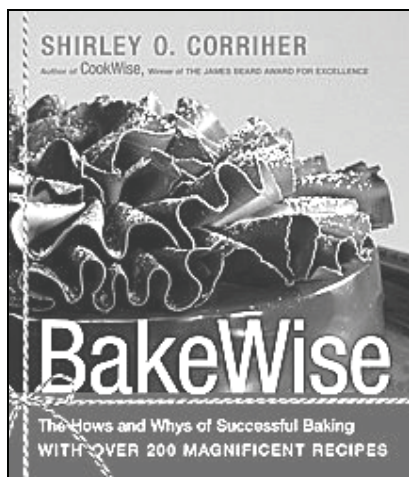
*The deadline for reservations is Friday, March. 6.*

## About the Speaker: Shirley O. Corriher

Most people recognize Shirley as the "Mad Scientist" on the *Good Eats* TV show. She has appeared on: *Good Eats*, *Smart Solutions*, *Sara Moulton Cooking Live*, *Homecooking*, and *Nathalie Dupree*, to name a few, and once on ABC's *Jimmy Kimmel Live* with Snoop Dog as her fry chef. Shirley Corriher was The Best Cooking Teacher of the Year In *Bon Appétit's* "Best of the Best" Annual Food and Entertaining Awards, 2001.

In March 2004, Shirley received the prestigious Research Chefs' Holleman Award for outstanding achievement in technical communication. She is also in *Who's Who of American Women*, 2002 through present, and *Who's Who*. She has long been a leading food writer and syndicated columnist. Her book, *CookWise*, was the regular column for *Fine Cooking* for 10 years, 1994 through 2004, and she continues to write a regular syndicated column in *The Los Angeles Time Syndicate's Great Chefs Series* (1998-present), now the Chicago Tribune's Media Services.

Shirley has recently published a new book, *BakeWise*.



## March 11 Meeting Program Sharonville Convention Center

5:15—6:15 PM:

Chemical Information Discussion Group:  
John Zabilski, Chemical Abstracts Service

Properties information added to the  
Registry file and Scifinder, Room 108

5:30—7:00 PM:

Registration, Room 110

6:00—7:00 PM:

Social (open bar), Room 110

7:00—8:00 PM:

Dinner, Room 110 (\$25.00 or \$15.00 for  
students, emeritus, unemployed).

Choice of: Beef Stroganoff with Paprika Noodles,  
Chicken Alouette or Vegetarian Pasta.  
All served with salad, vegetable, dessert, rolls & but-  
ter, coffee & tea

8:00—9:00 PM:

Shirley Corriher, "The Secrets of Food  
Revealed"

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Section On-line:**

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## Physical Property Data in the CAS Registry File

Edlyn S. Simmons, Chair  
Chemical Information Discussion Group

The Chemical Abstracts Service (CAS) announced on December 29, 2008, that more than 23.8 million predicted proton Nuclear Magnetic Resonance (NMR) spectra were being added to SciFinder. CAS is making the proton NMR spectra available through an agreement with ACD/Labs, a respected organization that has supplied other property information to CAS.

SciFinder is a platform for chemical research combining the Chemical Abstracts database, the CAS Registry File and the Medline database with a user interface designed for use by practicing chemical scientists working in industry. SciFinder Scholar has slightly different features and a price structure tailored to academic scientists. The bibliographic data from Chemical Abstracts, as the CAPlus database, the Registry file, Medline, and a host of other scientific databases are searchable on other platforms, notably the STN International search service with search and display features tailored toward professional informational scientists.

The CAS Registry database was created during the early days of computerized data management to create a unique identifier for each chemical substance encountered by indexers during

production of *Chemical Abstracts*. Originally created to simplify creation of indexes to the printed abstracts, the Registry file grew to become the de facto standard for registration of all chemical substances, and now has records for over 41 million organic and inorganic substances and more than 60 million biosequences identified by CAS as coming from a reputable source, including patents, journals, chemical catalogs, and selected substance collections on the worldwide web. The registry numbers assigned to these compounds are linked to bibliographic records in *Chemical Abstracts* and other databases, as they have been since the founding of Registry.

And how do the NMR spectra fit into this scheme? In recent years, CAS has been adding adding experimental and predicted physical property values to the Registry database. These can be searched and displayed in the various search platforms. It is beyond the scope of this column to cover all the properties and their sources. If you want to learn more about physical property data on SciFinder and Registry, please come to the Chemical Information Discussion Group meeting at the Cincinnati Section's March 11, 2009, meeting. Our guest speaker will be John Zabalski, Senior Applications Specialist at CAS.

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

## Announcing 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 18<sup>th</sup> 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](mailto: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  
[wiedemann.dj@pg.com](mailto:wiedemann.dj@pg.com) ; 513-627-7584

## Physical Property Data in the CAS Registry File

John Zabilski

Senior Application Specialist, CAS

On December 29, 2008, The Chemical Abstracts Service (CAS) announced that more than 23.8 million predicted proton Nuclear Magnetic Resonance (NMR) spectra were being added to SciFinder. These proton NMR spectra augment the 1.9 billion predicted and experimental properties and data tags already available in SciFinder. Discover methods of finding and using this data to identify associated substance information and bibliographic references including patent information using SciFinder and STN International.

SciFinder is a platform for chemical research combining the Chemical Abstracts database, the CAS Registry File and the Medline database with an easy user interface designed for use by practicing chemical scientists. STN International provides flexible search and display features tailored toward professional informational scientists.

## Brief Bio of John Zabilski:

John Zabilski is a Senior Application Specialist for Chemical Abstracts Service (CAS), a division of the American Chemical Society. In his current position John is responsible for providing training for both SciFinder and STN products for major CAS customers, including Procter & Gamble. John has been employed by CAS for 28 years where he has held multiple positions including editorial, client services, CAS Help Desk, and STN search services. John holds a Bachelor in Chemistry from Cornell University and a MBA from Ohio State University. John's expertise is in substance search techniques and patent information. John is also a registered US Patent Agent.

## 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  
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## 2009 Central Regional Meeting of the ACS Announces Call for Papers

**Cleveland, Ohio  
May 20-23, 2009**

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. Abstracts will be accepted through **March 16, 2009 (see information below)**.

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

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](http://www.cermacs2009.org).

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In addition to the technical program, CERMACS 2009 will include an opening mixer and an awards banquet where the following awards will be presented:

- The Stanley C. Israel Regional Award For Advancing Diversity in the Chemical Sciences
- The ACS Division of Chemical Education Central Regional Award for Excellence in High School Teaching
- The E. Ann Nalley Central Regional Award for Volunteer Service to the American Chemical Society
- The Regional Industrial Innovation Award

Special meeting rates have been arranged at the Renaissance Cleveland Hotel, 24 Public Square, Cleveland, Ohio 44106. For reservations, call (216) 696-5600 and ask for the ACS rate. General Chair: CERMACS09: Prof. Daniel A. Scherson, [daniel.scherson@case.edu](mailto:daniel.scherson@case.edu), (216) 368 5186. Program Chair: Dr. Kenneth Street, [Kenneth.W.Street@nasa.gov](mailto:Kenneth.W.Street@nasa.gov), (216) 433-5032. Exposition: Amir Zaman, [sponsorship@electrochem.org](mailto:sponsorship@electrochem.org), (609) 737-1902 x103.



*Cleveland skyline*

*Renaissance Cleveland Hotel*



### Note from the Chair-Elect, Susan Hershberger

January 23-35 was a “fun” weekend at the 2009 ACS Leadership Conference...well we did play ACS Section Trivia, it was held in Fort Worth, Texas, the food was good, the temperature were in the 50’s and 60’s, and flowers were blooming in flower beds. Seriously, this conference was supposed to energize and motivate local section officers, introduce some of the faces connected with ACS and allow local sections officers to connect with other local sections officers from near by sections. (I spent part of the conference with the treasurer from the Dayton Section, the chair elect of the Akron Section, the chair of the Northeastern Ohio Section, and the chair of the Penn-Ohio Border Section.).

Meeting section officers from around the country, I was struck by how wealthy our Cincinnati Section is, especially in terms of active members. I will need all the input and help that all of you as active section members can provide. So here is the first official plea, if there is a chemistry or science speaker you want to hear, a chemistry or science activity you envision or would like to attend, or a chemistry message you want to share in the greater Cincinnati area, send me an email ([hershbs@muohio.edu](mailto:hershbs@muohio.edu)). Together we can figure out...when... or...how...or...who can we work with to make your idea happen.



### Former ACS President Bursten Praises House Speaker's Support for Science

Bruce Bursten, Ph.D., immediate past president of ACS, has praised U.S. House Speaker Nancy Pelosi for her promise that science will be of major importance in the upcoming Congress.

Leaders of major institutions representing government, academia, business and science were invited to attend the Innovation Roundtable hosted by House Speaker Nancy Pelosi at Princeton University last December.

In his remarks to the gathering, Dr. Bursten said, "Science and engineering must be the engines of the innovation that assure our economic prosperity, our national security, our energy independence, and our responsible stewardship of our planet." Dr. Bursten is Dean of the College of Arts and Sciences at the University of Tennessee, Knoxville.

The purpose of the annual roundtable was to discuss how Congress could move ahead to renew the national commitment to the physical sciences and energy research.



**50% Off the  
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## **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](mailto: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..  
Mason, OH 45040



### **Science Fair March 14<sup>th</sup> at the University of Cincinnati:**

#### **Science & Engineering Expo (SEE)**

The University of Cincinnati is hosting the Ohio Academy of Science Southwest District Science & Engineering Expo (SEE) on March 14, 2009. This science fair is open to all grade 7-12 students who received a 'superior' rating at their school's science fair. The Cincinnati Section is sponsoring awards for the Science Fair. Section members are encouraged to volunteer as judges for the expo. For further information, please contact John Tebo at [tebojh@ucmail.uc.edu](mailto:tebojh@ucmail.uc.edu) ; Phone: 513-556-1494.

### **Last Call for Nominations: Outstanding Service Award**

Nominations will be accepted for the Cincinnati Section Outstanding Service Award until **March 15, 2009**. The nominee should have performed an extraordinary service to the Cincinnati Section. The nominator should be a member of the Section. A complete nomination consists of a letter written by the nominator detailing the reasons the nominee is deserving of the award, and at least one supporting letter by another member of the Section; may include nominee's CV.

Nomination materials should be sent to:

Jeff Seeley, Ph.D.  
P&G, 11511 Reed Hartman Hwy., Cincinnati, OH 45241  
[seeley.ja@pg.com](mailto:seeley.ja@pg.com)



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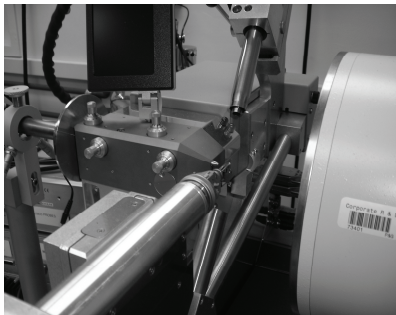
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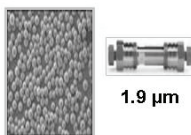
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