

# CINTACS



Newsletter of the Cincinnati Section of the American Chemical Society

September, 2009  
Vol. 47, No. 1

## Meeting Calendar

Sept. 20	Family/Friends Picnic @ Germania Park
Oct. 18-24	National Chemistry Week 'Chemistry—It's Elemental'
Oct. 30	Oesper Award Activities Susan Lindquist, MIT Oesper Awardee @ University of Cincinnati
Dec. 3	Sibrina Collins College of Wooster @ Xavier University
Jan. 13	Gary Reineccius U. Minnesota
Feb. 10	Chemist of the Year
Mar. 10	Joint with Dayton [TBD]
Apr. 14	A. Jorgenson, U. of Toledo Education Awards Night @ NKU
May	Party Night [TBD]

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Come to the first "meeting" of the year:

## 6<sup>th</sup> ANNUAL FAMILY AND FRIENDS PICNIC Elemental Fun at Germania Park Sunday, September 20, 2009, 1-5 PM

Activities and entertainment will include food, drinks, music, liquid nitrogen ice cream, chemistry puzzles, chemistry demonstrations and a cornhole competition. Celebrate the end of summer and the beginning of fall by connecting with your old friends and meeting new friends.

Bring your family! Germania Park has a playground for children and playing fields for various sports. Conveniently located just north of Cincinnati, the park has a covered pavilion so it will be fun rain or shine. Bring your friend or cornhole partner! You might win a unique, artist designed chemistry themed cornhole game!

Registration: 1:00-2:00 PM

Food/Potluck: The section will provide grilled hot dogs, hamburgers, brats, metts, and chicken as well as condiments and drinks including beer, soft drinks and juice boxes.

Attendees are cordially requested to bring a dish to share. If your last name starts with A-M please bring a side dish or salad for 6. If your last name starts with N-Z bring a dessert for 6.

Food will be served at 2 PM

Cost: \$10 for individual members or \$15 for members with their family or friends. \$5 for individual retired members, first time chemists, K-12 teachers, students and unemployed members or \$10 for the same with their family or friends.

Reservations: The meeting reservation form is online at

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**THE CINTACS NEWSLETTER****Vol. 47, No. 1 September, 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 September 12 for the October 2009 issue. Electronic submission is strongly preferred. All materials should be sent to:

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**From the Chair**

I hope all members have enjoyed a fun and rejuvenating summer. We will begin our Cincinnati Section "year" of meetings and events with our annual Family and Friends Picnic at Germania Park. Tap beer, soft drinks, and your favorite picnic foods will be provided by the section and members will share their favorite side dishes and desserts. The retired chemists group will present chemistry demonstrations to delight kids and all young chemists at heart. A local artist, Mallory Feltz has agreed to produce one-of-a-kind chemistry Cornhole game sets which you can win. You won't want to miss "The Elements Song" by Tom Lehrer, liquid nitrogen ice cream or the zany chemistry puzzles. The chemistry conversations will be light and your spouse, kids and friends get to hang with others who endure chemists and engineers as spouses, parents, or friends.

Mark October 18<sup>th</sup> to 24<sup>th</sup> as National Chemistry Week on your calendars. This year's theme "Chemistry-It's Elemental" is one that's easy to get excited about. The theme was chosen since 2009 is the 140 year anniversary of the Periodic Table. Heather Bullen and Keith Walters are coordinating our National Chemistry Week Demonstrations at area libraries. New and continuing demonstrators are needed, appreciated and always welcome. Keith and Heather are scheduling a training session and will provide you with ideas and supplies to get you started. You can also volunteer with another dedicated crew of volunteers led by Gloria Story providing demonstrations at the Cincinnati Museum Center on October 23<sup>rd</sup> and 24<sup>th</sup>.

The Oesper Symposium and Banquet is October 30<sup>th</sup> at The University of Cincinnati. This year's Oesper Award honoree is Professor Susan Lindquist of The Massachusetts Institute of Technology. Susan studies protein folding and will present her work on prion proteins, their surprising conformations and functions, at the conclusion of the symposium. After the symposium, the banquet begins with a reception and the Cincinnati Section ACS student poster session followed by dinner and the Oesper Award presentation. Elaine Fuchs, of The Rockefeller University will deliver the after dinner lecture. Additional speakers for the symposium include: Thomas J. McGarry, Northwestern University, Elaine Fuchs, The Rockefeller University, Kent G. Golic, University of Utah, Peter M. Tessier, Rensselaer Polytechnic Institute, Tricia R. Serio, Brown University and Luke Whitesell, Whitehead Institute for Biomedical Research.

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[www.acscincinnati.org/acs](http://www.acscincinnati.org/acs). This is the best and easiest way to register. When you register indicate the number of adults and children attending. The deadline for registration is Wednesday September 16, 2009.

As a last resort you may send your reservation by email to Beth Reno at [reno.ea@pg.com](mailto:reno.ea@pg.com). If it is impossible to make your reservation via the internet or email, call Beth at 513-622-1346: leave your name, affiliation, # of people attending, a contact phone number and state if you are retired, a first time attendee, unemployed, a K-12 teacher or a student.

Directions to Germana Park, 3529 West Kemper Road, Cincinnati, OH 45251:

From I-275 take the Colerain Avenue exit and go north on Colerain (US 27) for about 2.5 miles. Take the Kemper Road exit and turn right onto Kemper. Germana Park is on the right after about 1.3 miles. From I-275 W take exit #36 toward Mt. Healthy. Turn right onto Hamilton Avenue (US 127) and go north about 0.8 miles. Turn left onto West Kemper Road. Germana Park is on the left after 1.6 miles.

## Ralph & Helen Oesper Poster Session

The ACS Cincinnati Section and the UC Department of Chemistry will co-sponsor the Ralph & Helen Oesper Poster Session & Social Hour, Oct. 30, 2009 @ 5:30 pm-7 pm in the Great Hall Tangeman University Center, University of Cincinnati. Registration is now open; submit abstracts by October 9<sup>th</sup>, 2009 to Heather Trenary at [hrtrenary@gmail.com](mailto:hrtrenary@gmail.com). Email confirmation of receipt of your abstract will serve as registration for the Poster Session. Please submit using Microsoft Word or similar format, single spaced, 150 words or less.

A full schedule of Oesper events is available at [http://www.che.uc.edu/alumni\\_community/oesper/symposium.html](http://www.che.uc.edu/alumni_community/oesper/symposium.html)

## Susan Lindquist to Receive 2008 Oesper Award

**Susan Lindquist**, Massachusetts Institute of Technology, is this year's Oesper Award winner. She is being recognized for her broad and diverse contributions to the study of the problems and benefits associated with the phenomenon of protein folding, in systems as simple as yeast to those as complex as in the human brain.



Dr. Lindquist will give the Oesper Award lecture, "Prion Proteins: Surprising Conformations and Surprising Functions" on **Friday, October 30**.

The symposium will also feature the following speakers:

**Thomas J. McGarry**, Northwestern University, "Balancing the Proliferation and Differentiation of Stem Cells"

**Elaine Fuchs**, The Rockefeller University, "Our Body Surface: From Keratins to Stem Cells"

**Kent G. Golic**, University of Utah, "Modeling a Reductive Stress Protein Aggregation Disease in *Drosophila*"

**Peter M. Tessier**, Rensselaer Polytechnic Institute, "Molecular Insights into Interactions, Structures and Small Molecule Regulators of Prions and Amyloids"

**Tricia R. Serio**, Brown University, "Prion Dynamics and Protein-Only Inheritance"

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**Luke Whitesell**, Whitehead Institute for Biomedical Research, “Unfolding Progress in Cancer Chemotherapy”

The Oesper banquet will feature a talk by **Elaine Fuchs**, The Rockefeller University. Her topic is “Stem Cells: Biology and Promise for Regenerative Medicine.”

**Banquet reservations are due by October 21, 2009.**

For more information, please visit our Web site at [http://www.che.uc.edu/alumni\\_community/oesper/](http://www.che.uc.edu/alumni_community/oesper/) or contact Kim Carey (513-556-0293; [Kim.Carey@uc.edu](mailto:Kim.Carey@uc.edu)).

## Cincinnati ACS Local Section 2009-2010 Election Winners

First Vice Chair: Victor Arredondo, P&G

Second Vice Chair: Jeff Seeley, P&G

Secretary: Rich Mullins, Xavier U.

Treasurer: Ed Hunter, U. of Cincinnati

Councilor: Roger Parker, Xavier U.

Alternate Councilor: George Rizzi, ret'd. (P&G)

Auditor: David Bom, Givaudan

Trustee: Roger Parker, Xavier U.

Congratulations to all!

## National Chemistry Week – Seeking Volunteers

The ACS Cincinnati Section will once again be promoting National Chemistry Week (October 18<sup>th</sup>-24<sup>th</sup>) throughout the greater Cincinnati region.

This year's theme is “Chemistry - It's Elemental”. We will be contacting volunteers soon with information on National Chemistry Week (NCW), including a date for training.

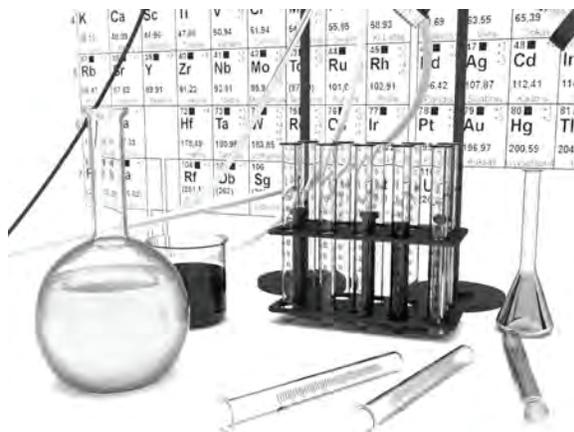
If you haven't participated before, but are interested in NCW outreach activities to local libraries, please contact us.

Your National Chemistry Week co-ordinators are:

Keith Walters: [walterske@nku.edu](mailto:walterske@nku.edu)

and

Heather Bullen: [bullenh1@nku.edu](mailto:bullenh1@nku.edu)



Visit the ACS Cincinnati Section On-line:

[www.acscincinnati.org](http://www.acscincinnati.org)



## Earth Day Celebration 2009 at Sawyer Point a Success!

Reported by Donna Weidemann

Last April 18<sup>th</sup> the Cincinnati Section of the ACS hosted a booth at the annual Earth Day Celebration at Sawyer Point. The weather was beautiful, warm, but not too hot lending to a large turnout at this years event. We featured a lot of different demonstrations this year which attracted many visitors to our booth.

In keeping with this year's theme "Air – The Sky's The Limit," we did several demos around the gaseous composition of air and properties of gases. Susan Hershberger captured people's attention demonstrating the paramagnetic properties of Oxygen vs. Nitrogen by pouring liquid O<sub>2</sub> or N<sub>2</sub> over a strong magnet. Another eye catcher was a large gallon jar filled with a million cake sprinkles color coded to represent the ratios of the gases in our atmosphere. Naturally, we did quite a few CO<sub>2</sub> tricks including using the carbon dioxide from your breath to make a slightly basic water solution with phenol red turn from pink to clear. The kids also enjoyed putting out a candle by pouring CO<sub>2</sub> gas over the flame, and seeing how much CO<sub>2</sub> gas is in soda pop. We generated both O<sub>2</sub> and CO<sub>2</sub> gases, via yeast and peroxide, or baking soda and vinegar, respectively, to demonstrate the O<sub>2</sub>/CO<sub>2</sub> cycle. Very long plastic bags were used to demonstrate the Bernoulli principle via blowing up one bag like a balloon and the other with a burst of your breath. Children and adults were amazed at the difference!

We had a couple of demonstrations on solar power. Most interesting to the crowd was a solar powered miniature fan. The Koenig family brought a contraption where the fan blades were black on one side and white on the other. As the sun's rays hit the fan blades, the difference in the temperature from one side of the blade to the other cause the fan blades to turn.

Mingming Lu brought samples of biodiesel she and her students made out of used cooking oil. Martha Brosz and students demonstrated PUR water purification and collected pennies to fund clean water in developing countries. We also put out Golden Rod

paper for the children to "draw" with a Q-tip and base.

I extend my sincere thanks and appreciation to all those who helped with the selection of demonstrations, setting up, manning the booth and closing down for the day: Gloria Story, Kristie Jones, Keelin Walser, Mingming Lu and students, Martha Brosz, her husband and student, Susan Hershberger, René Peters, Karen Kershner, Greg Applegate, Tom Terwilliger, Beth Statt and Ascencion Koenig and her family. I'm looking forward to another fun Earth Day next year.



This shows several of our demos in action. The balloon was used to capture CO<sub>2</sub> evolved when vinegar is added to baking soda. The cake sprinkles representing the atmospheric ratio of gasses is shown. Look closely and you will see the small solar fan, and in the back left the bottles of salt with a grain of colored sand to represent a part in a million.



Some of the helpers at our show include the Koenig Family, Donna Wiedemann, daughter Keelin Walser, and Mingming Lu.

## American Chemical Society Cincinnati Section Officers 2009-2010

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## ACS Cincinnati Section Officers 2009-2010 (cont'd.)

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<i>Alternate Councilor (12/12)</i>	George Rizzi 542 Blossomhill Lane Cincinnati, OH 45224	513-761-0816 <a href="mailto:georgerizzi@yahoo.com">georgerizzi@yahoo.com</a>

## SPONSORS SOUGHT FOR 8 SECTION MEETINGS IN THE 2009-2010 PROGRAM YEAR

Again we are seeking sponsors for each of our 8 monthly Section Meetings in the new program year. Sponsorship entails a commitment of sponsorship (cash or cash equivalent) of \$1000 to essentially pay for the many expenses associated with a quality meeting to be presented to the membership. These expenses include retiree and student meal discounts, speaker's expenses, travel, housing, food, A/V, room rental for the meeting, and a Social Hour where attendees can meet others and build networks and contacts for career growth and enhancement.

Sponsors are recognized in all of the 8 issues of CINTACS, and by introduction at the sponsored meeting. This "advertisement" is of great value, especially to new companies in the Cincinnati

area. In several instances this has led to participation in governance activities in the Section.

Over the past 6 years of this successful program, Companies, academic departments, retirees, and faculty have been sponsors of monthly meetings. We are always striving to broaden the base of sponsors as this leads to better representation in Section programs and services to the membership.

If you or your employer has an interest in being a sponsor, please contact the undersigned for more details. Beyond these volunteers, we will be making phone calls and letter contacts to reach our goal of 8 sponsors. Every effort will be made to align the Sponsor's areas of interest with our monthly topics.

Ted J. Logan, CHAIR  
Sponsorships and Solicitations Committee  
Cincinnati Section, ACS  
Phone: 513-385-8856  
E-mail: [TJLOGANCIN@AOL.COM](mailto:TJLOGANCIN@AOL.COM)

## Nominations for Cincinnati Chemist of the Year and Research Associate of the Year

Recognize your colleagues and co-workers for their outstanding contributions to our field. Please submit a nomination for Cincinnati Chemist of the Year or Research Associate of the Year.

The nomination deadline is **December 31**.

The Chemist of Year shall hold a PhD and must be a member of the section. Nomination requires two letters of recommendation and the nominee's CV.

The Research Associate must be or have been a practitioner within the chemical discipline. Nomination requires a letter of recommendation; CV and additional documentation are optional, but appreciated.

Nomination materials should be sent to:

Jeff Seeley, Ph.D.

[seeley.ja@pg.com](mailto:seeley.ja@pg.com)

*or*

11511 Reed Hartman Hwy  
Cincinnati, OH 45241

## Passing of Joseph Cantrell

A brief note from George Rizzi:

Page 55 of the July 20, 2009 issue of Chemical and Engineering News carried the obituary of Joseph Cantrell, a physical chemist who was Chair of the Cincinnati Section in 1985.

## Good News from the ACS National Meeting in DC!

Ted Logan and Bill Heineman have been selected to the 2009 Class of ACS Fellows. The awards were presented August 17 in the Grand Ballroom of the Marriott Hotel at the Washington DC National Meeting.

Congratulations to Ted and Bill for this achievement. They were nominated by the Cincinnati Section ACS.

Also, the Section has been nominated for a ChemLuminary Award for Outstanding Industrial Involvement. ChemLuminary Awards were given Tuesday Aug 18<sup>th</sup> at the Washington ACS meeting.

Moreover, the Section was presented with an award for 25 years of involvement in the US National Chemistry Olympiad. The recognition was given at the Washington, DC ACS National Meeting on Sunday (8/16).

-Roger Parker

## Erratum — Mistake in May '09 issue of CINTACS

On page 5 of the May 2009 issue of the CINTACS newsletter, one of the members recognized for 60 years of service to the ACS, **Robert Johnson**, had his name cited incorrectly.

The name of Mr. Robert Kinnaird should have been listed as Mr. Robert Johnson: Kinnaird is Mr. Johnson's middle name. We apologize for this mistake.

-Kevin Ashley & Roger Parker



## Teachers Recognized at April 2009 Awards Meeting

Reported by Jeff Seeley

Winners of the Section's Teacher of the Year Awards are shown after receiving them during our 15-April celebration held at the Northern Kentucky Convention Center.

*Pictured Left-to-Right above are:*

Roger Parker (Section Chair)

Angela Collins (Scarlet Oaks Career Development Campus - High School Chemistry Teacher of the Year)

Stephen Federman (Loveland Intermediate, Middle School Science Teacher of the Year)

Mary Neises (Bauer Elementary, Miamisburg, Elementary School Science Teacher of the Year)

Jeff Seeley (Section Awards Committee)

*Congratulations to the awardees!*

## ACS Cincinnati opinion survey

The Cincinnati ACS local section would like your feedback on the website and mailing list. Please take a moment to fill out the survey at:

<https://www.acscincinnati.org/survey/>

Thank you,

-Matt Gardlik

## Heineman, Logan Named ACS Fellows

Reported by Bruce Ault

Professor William Heineman of the University of Cincinnati and Dr. Ted Logan, Procter and Gamble (retired) were named this summer as members of the inaugural group of Fellows of the American Chemical Society. This program was initiated by past-president Bruce Bursten to honor excellence in both contributions to the chemical enterprise and service to the American Chemical Society.

Nominations were accepted from officers of local sections and divisions of the ACS, from ACS national committees, as well as from individual ACS members. The inaugural class of 162 ACS Fellows is a very accomplished, prestigious group of chemistry professionals, including Nobel Laureates and past presidents of the ACS. The Cincinnati Section is delighted to that two of our own members were honored for their outstanding achievements and commitment to chemistry. Congratulations to Bill and Ted!

## Grow Your Outreach – Establish Ties with an ACS High School Chemistry Club

Local sections may grow their outreach in area high schools by establishing a partnership with their area **ACS High School Chemistry Club** and playing a tremendous role in supporting these clubs and teachers who sponsor them.

The **ACS High School Chemistry Clubs program** provides opportunities for students to cultivate their interest in chemistry beyond the classroom. There are over 180 clubs across the U.S. and Puerto Rico. The ACS Education Division provides organizational support for these clubs such as start-up handbooks and ideas for activities throughout the year.

To find the ACS High School Chemistry Clubs in your area check out the ChemClub Directory at [www.acs.org/chemclub](http://www.acs.org/chemclub).

### How can your Local Section support your area High School Chemistry Club?

Invite your local High School Chemistry Club sponsors and students to participate in National Chemistry Week or Chemists Celebrate Earth Day activities.

Invite your local High School Chemistry Club to attend a Speaker Service program, Science Café, or Meeting.

Organize a symposium about the diversity of careers in chemistry

Plan and co-sponsor a community outreach event

Provide small grants for High School Chemistry Clubs in your area.

Apply for an Innovative Project Grant to provide an activity for a High School Chemistry Club.

To find out more about the out about the ACS High School Chemistry Club program please contact [hschemclubs@acs.org](mailto:hschemclubs@acs.org)

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Since this year's Oesper award winner is a biological chemist, be sure to invite your colleagues from biology who may be interested in this timely symposium.

On December 3<sup>rd</sup>, we will kick off our partnership with the new Cincinnati STEM High School. Sibrina Collins who is also presenting to the first class of Cincinnati STEM high school students will also be our speaker at this meeting at Xavier University. The chemistry of food will be presented by Gary Reineccius at our January 13<sup>th</sup> meeting. Nominate a colleague for the chemist or chemical technician of the year to be recognized at our February meeting. We also plan a joint meeting with the Dayton Section and on April 14<sup>th</sup>, we will celebrate Earth Day early by hearing about chemistry and climate change from Andrew Jorgensen at NKU.

As I finish this note, our councilors are preparing to head to the national ACS meeting in Washington DC. At this meeting Bill Heineman and Ted Logan will be inducted into the first class of the Fellows of the American Chemical Society. The Cincinnati Section is nominated for one ChemLuminary Award for industrial involvement. In other national ACS news, students are now recognized as student members of the ACS instead of their previous student affiliation membership.

As we begin this year of Cincinnati Section activities, feel free to volunteer and get involved. You never know when a new contact or skill you pickup will serve you in the future. I hope to see you at the picnic and I am sure you are better than me at corn-hole!

-Susan Hershberger

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## Get Involved in the ACS Celebration of IYC 2011: Support the U.S. Commemorative Stamp Campaign

The American Chemical Society is working to urge the United States Postal Service to adopt chemistry as a theme for a commemorative stamp in 2011 in view of the contributions of chemistry to the well-being of humankind in the U.S. and worldwide and on the occasion of the 2011 International Year of Chemistry.

The USPS gets 50,000 subject requests per year and awards only 25 commemorative stamps per year - Your efforts to contribute to this cause this year are very important and very much appreciated!

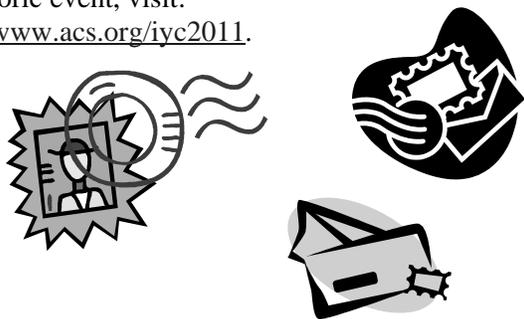
How to get involved:

Visit [www.acs.org/iyc2011](http://www.acs.org/iyc2011) to download the petition

Distribute the petition for signature among your colleagues, students, and friends (all chemists and friends of chemistry are encouraged to sign!)

Mail or FAX completed petitions to the ACS Office of International Activities no later than November 1. (see petition for fax number and address)

To learn more about IYC 2011 and to contribute ideas to the ACS celebration of this historic event, visit:  
[www.acs.org/iyc2011](http://www.acs.org/iyc2011).



## Teachers Head to Cincinnati State in October

The first meeting of the chemical educators' discussion group will be on the Central Parkway campus of Cincinnati State on Wednesday, October 7<sup>th</sup>. We will begin the evening at 6:30 PM at "The Point" in building ATLC 108 for refreshments prepared by the Culinary Program students. You will be invited to see their lab space. We will also have important announcements until 7 PM. From 7 to 9 PM, you will be able to tour the lab facilities and learn about three important programs:

Martha Brosz will lead a tour of the Chemical Technology Program. This program prepares students to become laboratory technicians or research associates in high-tech research and development or quality control laboratories, academic institutions, and government facilities.

Anne Gunkel will lead a tour of the Environmental Engineering program. EVET graduates enter positions in a wide variety of vocations including environmental restoration, government agencies and laboratories, consulting firms, and conservation districts.

Larry Feist will lead a tour of the Renewable Energy and Energy Efficiency program that addresses new occupations in several related and growing industries such as the manufacture of photovoltaic electric panels, geothermal, solar-thermal, wind turbines, and fuel cells; photovoltaic and wind turbine installation and service; and energy efficiency companies and consultants.

For directions to the campus and a campus map, go to the school website at [www.cincinnati.edu](http://www.cincinnati.edu). Park in the Central Parkway Garage (you will receive a "free parking" coupon to use when you leave). Come to the ATLC Building 1st floor. "The Point" is near the cafeteria. Signs will be posted.

Linda Ford is coordinating the discussion group again this year. She needs to update her electronic mailing list. Please provide her with the e-mail addresses of your new teaching colleagues at [Linda.ford@7hills.org](mailto:Linda.ford@7hills.org). You might want to include fellow teachers who work at the middle or junior high levels in the physical sciences.

-Linda Ford

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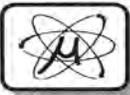
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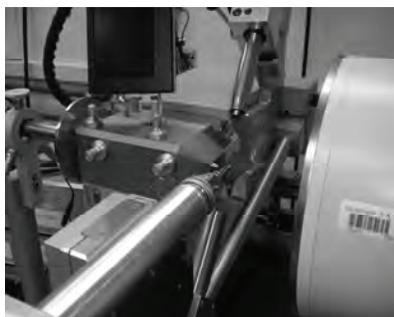


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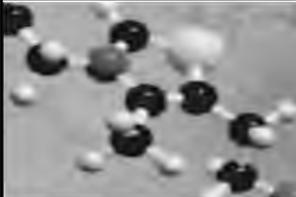
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