

# CINTACS



Newsletter of the Cincinnati Section of the American Chemical Society

January, 2008  
Vol. 45, No. 4

## Meeting Calendar

- Jan. 16 Chemist & RA of the Year  
@ Sharonville Convention Center
- Feb. 20 H. Bungay, R.P.I.  
@ Museum Center
- Mar. 19 Zymurgy (Beer Brewing)  
@ Great Wolf Lodge  
(Joint with Dayton section)
- Apr. 16 Awards Night  
@ Northern Kentucky U.
- May 14 Party Night: Reds Game  
& Banquet  
@ Great American Ballpark

## January Monthly Meeting: Awards Night Wednesday, January 16, 2008 Sharonville Convention Center

*Sponsored by Givaudan Flavors*

**Chemist of the Year:  
Vern Hicks, Ph.D., NKU**

**Research Associate of the Year:  
Harold Vaughn, P&G**

### Schedule:

- |           |  |
|-----------|--|
| 5:15-6:15 | Board Meeting, Room 108  |
| 5:15-6:15 | Women Chemists Workshop, Video and discussion<br>Tina Engel, "Communications Styles-Understand<br>Them and Use Them," Room 107   |
| 5:30-7:00 | Registration, Room 110   |
| 6:00-7:00 | Social (cash bar), Room 110  |
| 7:00-8:00 | Dinner, Room 110 (\$20.00 or \$10.00 for students,<br>emeritus, unemployed & new members).<br>Choice of: Beef Stroganoff with Paprika Noodles,<br>Chicken Alouette or Vegetarian Pasta<br>All served with salad, vegetable, starch, dessert,<br>rolls & butter, coffee & tea |
| 8:00-9:00 | Award presentations and talk   |

**Dinner Reservations:** Make reservations online at [www.acscincinnati.org](http://www.acscincinnati.org). If it is impossible for you to register online, call Beth Reno at 513-622-1346. *The deadline for reservations is Friday, January 11.*

### In this Issue

- |   |    |
|---|----|
| January Meeting Announcement                          | 1  |
| From the Chair  | 2  |
| January Meeting Venue<br>Information & Directions     | 3  |
| Women Chemists Workshop                               | 3  |
| Chemical Information Update:<br>Patent Reform Pending | 4  |
| Programs Win Chemical Technology<br>Mini-Grants       | 5  |
| National Chemistry Week<br>Poster Winners             | 6  |
| Chemical Educators' Discussion<br>Group Meeting       | 7  |
| 2007-2008 Meeting Sponsors                            | 7  |
| CERMACS 2008 to be held<br>in Columbus                | 8  |
| CINTACS Membership News                               | 8  |
| Teacher of the Year Nominations                       | 8  |
| ChemShorts for Kids                                   | 9  |
| Hotel discounts for ACS members                       | 10 |
| Chemical Educators<br>Discussion Group Meeting        | 11 |

**THE CINTACS NEWSLETTER****Vol. 45, No. 4 January, 2007**

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 January 15 for the February 2008 issue. Electronic submission is strongly preferred. All materials should be sent to:

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**From the Chair**

In an effort to ensure that CINTACS is delivered on time, I am writing this commentary before the December meeting takes place! I can tell you that the number of registrants will likely exceed the number anticipated, which I hope reflects the interest in both the discussion session topics and the after-dinner talk. Members of the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCChE) will join us at this meeting. Thanks to Dan McLoughlin and Xavier U. for sponsoring the meeting and special thanks to the speakers.

Some of you may have noticed a new feature at the Xavier meeting: a poster presentation. Dean Stuart of UC agreed to present a poster entitled, "Analysis of Metabolites in Cerebrospinal Fluid Utilizing LC Chip Mass Spectrometry". I hope you stopped by to talk with Dean about his work. The intent of the poster was to provide an opportunity for greater interaction between local section members and the student community in Cincinnati. Hopefully, it was also a chance for students to chat with experienced chemists from the area to learn more about a career in chemistry and perhaps to inspire continued participation in local section meetings. If the poster presentation lives up to these expectations, we will do another one at a future meeting.

Looking ahead, our next meeting is January 16<sup>th</sup> at the Sharonville Convention Center. We thank Givaudan Flavors for their generous sponsorship. This is our annual awards night and there were multiple nominees for both the Chemist of the Year and the Research Associate of the Year. Jeff Seeley's committee is pleased to announce that the Cincinnati Chemist of the Year is Vern Hicks from NKU and the Research Associate of the Year is Harold Vaughn from P&G. Congratulations to both of these highly qualified candidates! The February issue of CINTACS will provide the usual description of the accomplishments of the award winners. In addition to the Award presentations and talk, Tina Engel will hold a Women Chemists Workshop on "Communication Styles: Understand Them and Use Them." Tina will show a video that looks at the differences in communication styles between men and women. There should be interesting ensuing discussion, so I hope any of you interested will join Tina. Note that in order to accommodate an ACS tour speaker, we had to move this Award meeting from its usual February timing.

This is the time of year when we identify candidates for local section officers and for some Executive Committee and other positions. The positions available include: 1<sup>st</sup> Vice-chair (Chair Elect), 2<sup>nd</sup> Vice-chair, Secretary, Treasurer, Trustee (by succession), Counselor, Alternate Counselor, and Auditor. If you are interested in running for any of these positions, please contact George Rizzi ([georgerizzi@yahoo.com](mailto:georgerizzi@yahoo.com)) our Nominating Committee Chair.

Looking further ahead, we now have a date for Party Night. We will convene at Great American Ball Park for a Reds vs. Florida Marlins game on Wednesday evening, May 14<sup>th</sup> on the Cincinnati Bell Riverboat Deck out in center field.

With the end of 2007 now upon us, best wishes to all for a Happy Holiday Season and a Happy and Healthy New Year!

-John Janusz

## January Monthly Meeting: Awards Night Cincinnati Chemist of the Year and Research Associate of the Year

*Sponsored by Givaudan Flavors*

**Wednesday, January 16, 2008 @ Sharonville Convention Center, Room 110**  
11355 Chester Road, Sharonville, Ohio; tel. (513)771-7744

### 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.



### Women Chemists Committee Workshop: Communication Styles

January 16, 2008 @ 5:15 pm at the Sharonville Convention Center (Room 107)

Please join Tina Engel for a unique look at the delightful and very real communication style differences between the sexes. We will view a video by the renowned communications expert, Dr. Pat Heim, and start to reveal why your (opposite gender) coworkers just don't seem to understand what you are trying to say!

This presentation will be of interest to women and men alike, so everyone is welcome!

**Dr. Tina Engel**



## Chemical Information Update – Pending: Revolutionary changes in U.S. patent regulations

Edlyn S. Simmons, Chair  
Chemical Information Discussion Group

In October, 2007, Glaxo SmithKline sued the U.S. Patent and Trademark Office (PTO), and obtained a preliminary injunction from the District Court delaying revolutionary changes to the patent regulations that were scheduled to go into effect on November 1. Patent attorneys, docket administrators and information scientists breathed a sigh of relief – the new rules would require enormous amounts of extra work and very new kinds of patenting strategies. Whether the rules will eventually go into effect is unknown as of this writing.

The PTO has responsibility for creating rules for examining patent applications, and rule changes are normally drafted by PTO staff, published for public comment in the Federal Register, and modified in view of the comments it receives. The current rules permit applicants to submit as many claims as they believe are required to define their invention. The patent examiner can require that an applicant divide the claims into additional applications and/or the applicant can file voluntary continuing applications. It is the patent examiner's responsibility to search the prior art and decide whether each claim is patentable. Under the proposed rules there would be strict limits on the number of continuing applications that could be filed and applications filed separately by an inventive entity would be scrutinized for overlapping subject matter. If the application contained more than 5 independent claims and/or more than 25 total claims, the applicant would be required to search the prior art, cite relevant references, and explain to the examiner why the claims were patentable in view of the cited publications. These changes are far more than rules for implementing provisions of the patent laws.

Beyond the new regulations, patenting procedures may be changed by Congress, through a bill entitled the Patent Law Reform Act of 2007, passed by the House and waiting for action by the Senate. The law changes contemplated by the bill would make major changes in US law and give the PTO the right to require that applicants submit search reports in all patent applications.

Will the temporary injunction be lifted? Will the bill become law? What will these changes in law and regulations mean to chemists and other inventors? The Chemical Information Discussion Group will meet in person at the February meeting of the Cincinnati Local Section. We look forward to seeing you at the Cincinnati Museum Center for an update and some discussion.

### Footnote:

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)

In the summer of 1998, I was a high school **Project SEED** student. With my mentor, I researched ground water contamination at auto salvage yards. Project SEED **ignited my desire** to become a chemical engineer.

Fast forward nine years, I have been part of the Merck team that **brought the first** cervical cancer vaccine to the world. I am truly **making a difference...**and it all started with a SEED.

-Anita Hurtado-Strok

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## Programs Win Collaborative Mini-Grants

### Mini-grant winners

The winners of the Fall 2008 round of Equipping the 2015 Chemical Technology Workforce mini-grants have been announced. The following will receive \$500 for their activities to support technician education and professional development.

- **Alvin Community College (Alvin, TX)** for a day-long open house on process technology careers. High school students and community members will meet local industry representatives, tour college laboratories, and learn about education and careers in process technology.
- **Delaware Technical and Community College (Newark, DE)** for a dinner to introduce students and recent graduates of the chemical and biotechnology programs to local industry representatives. Students will bring their resumes and have the opportunity to interact with potential employers.
- **ACS Illinois Heartland Section (Peoria, IL)** for "A Day in the Life of a STEM Technician," organized in collaboration with the Central Illinois Workforce Development Board. Students and community members will meet Science, Technology, Engineering, and Math (STEM) technicians, see poster and oral presentations on their work, and win door prizes.
- **Northeast Tennessee Technician Affiliate Group (Kingsport, TN)** for a student outreach program. NET-TAG will host a symposium and panel discussion on chemical technology careers, a tour of a local manufacturing/research facility, and a networking social for students.
- **National Technical Institute for the Deaf at Rochester Institute of Technology (Rochester, NY)** for the establishment of a chemical technology club. Operated by chemical technology students, the club will organize field trips to local businesses and seminars by guest speakers. Club members will also perform demonstrations at local science fairs and schools for deaf and hard-of-hearing students.
- **ACS Division of Chemical Technicians (TECH)** for a symposium highlighting career opportunities for technicians at the 235<sup>th</sup> ACS National Meeting. Because technicians frequently lack employer support for meeting travel, travel grants will be provided for qualified technicians. Through panel discussions TECH will explore ways to address the needs of working technicians better. All of the mini-grant winners have proposed strong programs that bring together several different sectors of the chemical enterprise for the benefit of current and future chemical technicians. Equipping the 2015 Chemical Technology Workforce is proud to help support these activities.

### More mini-grants to be awarded

The deadline for the next round of mini-grants is 11 March 2008. Winners of the mini-grants will be announced at the 235<sup>th</sup> ACS National Meeting in New Orleans. Information on proposal submission and past winners can be found at [www.acs.org](http://www.acs.org) (follow the path: Education > Educational Resources > Chemical Technology > Building Partnerships).

### ***Background on Equipping the 2015 Chemical Technology Workforce***

Equipping the 2015 Chemical Technology Workforce is a collaborative initiative that kicked off at the 232<sup>nd</sup> ACS National Meeting.

*(continued on page 10)*

***CINTACS Announces***  
**The 2007 Cincinnati Section's National American Chemical Society's  
 (ACS) Chemistry Week Poster Contest Winners**

"The Many Faces of Chemistry"

**Here are the winners of the local Cincinnati Section of the ACS:**

<i>Category</i>	<i>K- 2<sup>nd</sup> grade</i>	<i>3<sup>rd</sup> - 4<sup>th</sup> grade</i>	<i>5<sup>th</sup>-8<sup>th</sup> grade</i>	<i>9<sup>th</sup> - 12<sup>th</sup> grade</i>
<i>1<sup>st</sup> Place Winners</i>	<b>James Bond</b>	<b>Keerthi Nalluri</b>	<b>Gage Wayman</b>	<b>Kelsey Roberts</b>
<i>Grade Level</i>	<b>Kindergarten</b>	<b>4<sup>th</sup> grade</b>	<b>5<sup>th</sup> grade</b>	<b>12<sup>th</sup> grade</b>
<i>Represented School</i>	<b>Phoenix Community Learning Center</b>	<b>Symmes Elementary</b>	<b>Taylor Mill Elementary</b>	<b>Madeira High School</b>
<i>Teachers</i>	<b>Mrs. Means</b>	<b>Mrs. Paterson</b>	<b>Mrs. Lohmoeller</b>	<b>Mr. Becker</b>
<i>Location</i>	<b>Cincinnati, OH</b>	<b>Loveland, OH</b>	<b>Covington, KY</b>	<b>Madeira, OH</b>

The local Cincinnati Section of the American Chemical Society has once again sponsored a chemistry contest as a part of National Chemistry Week. This year the contest was based on "**The Many Faces of Chemistry.**" The challenge was to create a poster that was fun, motivational, and inspired students to pursue a science/chemistry-related career.

The local ACS section elementary contest committee has selected one winner from each grade category K-2<sup>nd</sup>, 3<sup>rd</sup>-4<sup>th</sup>, 5<sup>th</sup>-8<sup>th</sup> and 9<sup>th</sup>-12<sup>th</sup>.

The first place winners of the Cincinnati Section of the ACS, along with their teachers and parents, will be honored as guests of our local section's Teacher's Night Awards Banquet dinner meeting on April 16<sup>th</sup>, 2008, at Northern Kentucky University.

The Cincinnati Section ACS has submitted the local winning poster in each of the four grade categories to the National ACS Office of Community Activities in Washington, D.C. First and second place winners of the national contest will be announced on the national website and via email announcement to the winners after the week of November 5th.

This year, we had an overwhelming response of posters that were submitted. Therefore, in addition to the above winners, we would also like to recognize the following students as honorable mention. They will receive a certificate in the mail to their respective school in April, 2008.

Mari Smith, 4<sup>th</sup> grade, CHCA Otto Armleder Memorial Education Center, Mrs. Cepress  
 Cheyenne Palmer, 5<sup>th</sup> grade, Taylor Mill Elementary, Mrs. Muzny  
 Curtis Bales, 5<sup>th</sup> grade, Taylor Mill Elementary, Mrs. Muzny

*(Continued on next page)*

## Sponsors for the 2007-2008 ACS Cincinnati Section Pro- gram Year

Here is the listing of the sponsors for the eight monthly Cincinnati ACS meetings in the 2007-2008 program year:

September: Frank Diehl  
October: University of Cincinnati, Department of Chemistry  
December: Xavier University, Department of Chemistry  
January: Ted J. Logan  
February: Givaudan Flavors  
March: Advanced Testing Laboratory, Inc.  
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May: Girindus America, Inc.

These companies, universities and individuals have recognized the importance of a strong Cincinnati Section program and have generously contributed money to help the section increase the value of its programs to all ACS members.

These donors will be recognized at their sponsored meeting and in the monthly meeting announcement in each of the 2007-2008 issues of

the CINTACS newsletter.

Ted J. Logan, Chair  
Sponsorship Solicitations Committee  
Cincinnati Section, ACS  
Tel.: 513-385-8856  
E-Mail: [TJLOGANCIN@AOL.COM](mailto:TJLOGANCIN@AOL.COM)

*(Continued from previous page)*

Rachel Neltner, 10<sup>th</sup> grade, McNicholas High School, Ms. Goines  
Sam Tucci, 10<sup>th</sup> grade, McNicholas High School, Ms. Goines  
Katie Jonas, 10<sup>th</sup> grade, Cincinnati Hills Christian Academy, Mr. Laughlin  
Stephanie Smith, 11<sup>th</sup> grade, Withrow University High School, Mrs. Johnson  
Ben Van Wrinkle, 11<sup>th</sup> grade, Mason High School, Mrs. Hansen

Educators, thank you for encouraging your students to participate in this contest. No one ever stands so tall...as when they stoop...to help a child.

ACS Cincinnati Section  
NCW Poster Contest Committee



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## **CERMACS 2008 to be held in Columbus in June**

The 40th Central Regional Meeting (CERM) of the American Chemical Society will be hosted by the nearby Columbus Section in June of next year. The meeting will be held in the Hyatt Regency Columbus from the evening of June 10th to the 14th, 2008.

Details of the meeting can be found on the conference website (<http://www.cermacs2008.org>), which will be updated regularly as plans develop. In addition to an outstanding core scientific program, there will also be a focus on education and selected industry/business topics. Suggestions or questions can be e-mailed to [cermacs2008@chemistry.ohio-state.edu](mailto:cermacs2008@chemistry.ohio-state.edu).

On behalf of the Organizing Committee, I invite you to mark your calendars now in anticipation of an outstanding meeting.

Regards,

Jimmy Cowan  
General Chair, CERMACS 2008

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

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



## **CINTACS Membership News**

Email notifications for section meetings are sent by the membership chair a week or two before each meeting registration deadline. If you are not receiving this notification and would like to, send a note to the membership chair ([story.gm@pg.com](mailto:story.gm@pg.com)).

Some company email systems are blocking the messages, so you may want to check with your IT personnel if you are not receiving them. Some members need to clean out their inboxes as well. ☺ Your preferred address for CINTACS mailings and your current email address are sent to your local section from the national office. You can update your addresses each time you renew your membership, or log on to [www.acs.org](http://www.acs.org) and update your profile.

Gloria Story  
Cincinnati Section Membership Chair

## **Nominations for Teacher of the Year Awards**

Please nominate outstanding educators from the area for High School Chemistry Teacher of the Year, Middle School/Junior High School Science Teacher of the Year, or Elementary School Science Teacher of the Year.

Nominations should include the teacher's CV and at least one letter of nomination (ideally from the school principal), indicating why the individual exemplifies excellence in Chemistry Education (for High School) or Science for Middle or Elementary School.

Please submit your nominations to Jeff Seeley by 15-February 2008 via [Seeley.ja@pg.com](mailto:Seeley.ja@pg.com).



## ChemShorts for Kids

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by **Dr. Kathleen A. Carrado**  
**Argonne National Labs**  
[kcarrado@anl.gov](mailto:kcarrado@anl.gov)

*The Elementary Education Committee of the ACS Chicago Section presents this column. They hope that it will reach young children and help increase their science literacy. Please share with children and local teachers.*

**Please note: All chemicals and experiments can entail an element of risk, and no experiments should be performed without proper adult supervision.**

### Thermometer Thoughts

Kids, how would you like to make your own thermometer? All you will need is some water, rubbing alcohol, a clear, narrow-necked plastic bottle, food coloring, a clear plastic straw, and tape or modeling clay. Here is what you do:

1. Pour equal volumes of rubbing alcohol and water into the bottle. You want the bottle to be at most 1/4 full.
2. Add a couple drops food coloring.
3. Put the straw in the bottle such that the bottom is under the liquid, but not touching the bottom of the bottle.
4. Fix the straw in place using tape or clay. Seal the bottle so that air can not get in or out of the bottle around the straw.
5. Heat the bottle and watch what happens. The easier way is to hold it in your hands for a few minutes.
6. You can cool the bottle by putting it in the fridge.

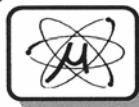
Congratulations - you just made a thermometer! Just like any thermometer, the liquid expands when warmed. This makes the liquid no longer fit in the bottom of the bottle. As the alcohol expands the colored mixture moves up through the straw. You can watch your thermometer and see how the liquid changes throughout the day. What happens if your thermometer is in shadow or in sunlight? The liquid should go up the straw with heat and down the straw when cooled (hopefully not all the way or the thermometer might not work anymore).

Why does the level of the liquid change with temperature? Because the air in the bottle changes volume with temperature. As air is heated it either expands or exerts more pressure. In trying to expand and in exerting pressure, it fights gravity and pushes some liquid up the straw. Most common thermometers work with exactly these principles.

Reference:

<http://www.energyquest.ca.gov/projects/thermometer.html> and  
[http://experimentopia.org/experiment/build\\_your\\_own\\_thermometer](http://experimentopia.org/experiment/build_your_own_thermometer)

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*(continued from page 5)*

The goals of Equipping the 2015 Chemical Technology Workforce are:

1. To raise awareness of the changing needs of professional technicians
2. To highlight opportunities for industry, academia, professional societies, and the community to collaborate on meeting those needs
3. To increase involvement of current and future technicians in the American Chemical Society

In 2007, Equipping the 2015 Chemical Technology Workforce began offering \$500 mini-grants to encourage activities that support technician education and career development. To date, 12 mini-grants have been awarded.

For more information on Equipping the 2015 Chemical Technology Workforce, visit [www.acs.org](http://www.acs.org), call 202-872-6108, or email [ChemTechLinks@acs.org](mailto:ChemTechLinks@acs.org).

Keep it growing.

Project SEED

[www.acs.org/giving](http://www.acs.org/giving)

## Chemical Educators' Discussion Group Meeting Feb. 5 at Mason H.S.

### A Winter Night in Mason:

On Tuesday, February 5, the Chemical Educators' Discussion Group will meet in Aimee Hansen's classroom at Mason High School for a sharing session. How do you bring current events/issues into your classroom discussion? Do you have short, reader-friendly articles that connect with important curricular concepts? Do you have short films or audience-grabbing Powerpoints that capture chemistry in the real world? Pick your favorites to share with the group! That way we can all fill out our arsenal of great teaching tools. For added fun, bring a creative idea for celebrating St. Valentine's Day in chemistry class.

Let us convene at 6:30 PM for light refreshments and conversation. The program will begin at 7 PM and conclude at 8:30 PM. If you plan to present, send Linda Ford a quick e-mail at: [Linda.ford@7hills.org](mailto:Linda.ford@7hills.org).

### Directions to Mason High School:

From I-75: Take Tylersville exit (#22). Go east for 4 miles and turn left on Mason-Montgomery Road. You will see the middle school on your right; drive past and then turn right into the next drive. The high school will be on your left. Enter the parking lot and park on the side facing the middle school and the football field. The classroom is number A213 and is located up the stairs, through the double doors on the right. Aimee will post signs to help you find your way.

From I-71: Take the Mason-Montgomery Road exit (#19) toward Fields Ertel Road. Go north from exit onto Mason-Montgomery Rd. and drive by Lowes, Kroger, Panera, etc. Travel about 3 miles. Once you pass Tylersville, you will see the middle school and then follow the directions listed above.

The address of the school is 6100 S. Mason-Montgomery Rd. Call Aimee's classroom at 398-5025 ext. 31213 if you need further help.

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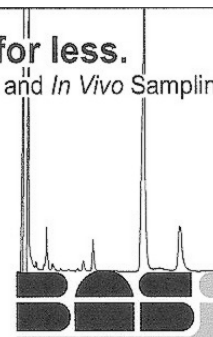
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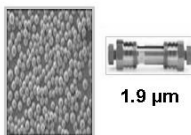
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