

CINTACS



Newsletter of the Cincinnati Section of the American Chemical Society

January, 2013
Vol. 50 No. 4

Section Calendar

- Jan 16 – Dr. Abbie Griffin: Attributes of Serial Innovators @Westin
Feb 13 Chemist of the Year, MBC
Feb 15 Deadline for 2012 ChemLuminary Nominations
Mar 13 Joint meeting with Dayton, Marriott North
Apr 7-11 National ACS meeting, New Orleans
Apr 20 Chemists Celebrate Earth Day
Apr 24 Dr. Ariel Fenster, & Teacher / Student Awards @NKU
May 10 Party Night

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January Monthly Meeting Wednesday, January 16, 2013 Taft Ballroom, Westin Hotel

Featured Speaker

Professor Abbie Griffin, University of Utah

Program:

- 5:45 – 6:30 Board Meeting – Harding Room, 3rd Floor, Westin (across from Registration table)
- 5:30 – 7:00 Registration, 3rd Floor, Westin
- 6:00 – 7:00 Social Hour, 3rd Floor Balcony, Westin Hotel
- 7:00 – 8:00 Dinner, Taft Ballroom, 3rd Floor Westin (\$25.00, or \$15.00 for students, emeritus, unemployed or Teacher members). Buffet Menu: Sauteed Beef tips in red wine sauce, Vegetarian Lasagna, or Chicken Breasts with a red pepper coulis, mixed salad greens, turkey spinach salad, fresh fruit, garlic mashed potatoes, roasted seasonal vegetables, and fresh assorted rolls. Dessert: Triple Chocolate Layered Mousse or Mango Citrus Mousse Cake, Coffee, Tea.
- 8:00 – 9:00 Featured Speaker, Prof. Abbie Griffin: **“Best Practices in Finding, Supporting and Managing Serial Innovators”**, from her book, “Serial Innovators: How Individuals Create and Deliver Innovation in Mature Firms”

(Continued on page 3)

THE CINTACS NEWSLETTER**Vol. 50, No. 4 January, 2013**Editor.....Adam Bange
Advertising.....Dan Esterline

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 25 for the February 2013 issue. Electronic submission is strongly preferred. All materials should be sent to:

Adam Bange
Xavier University
3800 Victory Parkway
Mail Location 4221
Cincinnati, Ohio 45207-4221
Tel.: (513) 745-3950
Fax: (513) 745-3695
E-mail: Bangea1@xavier.edu

ACS Cincinnati SectionChair:

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reno.ea@pg.com

1st Vice Chair & Chair-Elect:

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mcgill@nku.edu

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kea0@cdc.gov

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james.mack@uc.edu

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walterske@nku.edu

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From The Chair:

Hello Cincinnati ACS!

Welcome to 2013! The beginning of a new year is a time of reflection, fresh starts and looking ahead to what the future might hold. In the past 5 months, our Section has held 4 monthly meetings, jointly with UC hosted the Oesper Symposium, had an organic discussion group, served a highly successful NCW for our community, supported the Lloyd Library Pharmaceutical exhibit, had all counselors attend the National meeting in Philadelphia, had 4 of our members selected as ACS Fellows and dispensed 1 educational grant. Cincinnati is an amazingly active Section and fortunate to have so many members passionate about Chemistry!

The National ACS Spring meeting is just around the corner. Registration is now open for the April 7-11, 2013 meeting in New Orleans, with the theme "The Chemistry of Energy and Food" (excellent location choice for this theme). And closer to home, the Fall meeting is moved back from August to September and will be in Indianapolis, Sept. 8-11, 2013, with the theme "Chemistry in Motion". The proximity to Cincinnati facilitates more students attending, thus potentially the Cincinnati ACS Board may consider increasing the student travel awards for this one conference. Students may also consider presenting at the Indianapolis conference instead of in Dallas in April 2014. The 10th year of Chemists Celebrate Earth Day will be on April 20, and our CERMACS regional conference will be May 15-17, in Pt. Pleasant, MI.

'Chemistry for Life' is truly a fitting motto for the ACS. Looking ahead, climate effects, STEM education, customizable bio-therapies, eco-vita (products that give back to nature), waste management, and energy consumption are some of the areas where chemists and chemistry will be called on to provide the innovation needed to improve our lives.

While on the topic of innovation, our January speaker is Dr. Abbie Griffin, Royal Garff Presidential Chair of the David Eccles School of Business at the University of Utah. Dr. Griffin's research has focused on how scientists innovate, what attributes and skillsets are exhibited in top innovators, and observing what cultures and organizational structures help innovators to flourish or flounder. Dr. Griffin has authored numerous books, papers and presentations on the topic, and one lucky meeting attendee will receive a signed copy of the book, "Serial Innovators: How individuals create and deliver innovation in mature firms".

This is also the time when we start thinking of Officers and Committee Chairs for next year. Please keep the Cincinnati ACS Section in mind as you think about ways to share and promote chemistry in 2013!

Here's to a happy and prosperous (or helium and phosphorous) New Year!

Beth

Directions to Meeting Venue:

The Taft Ballroom is located on the third floor of The Westin Cincinnati Hotel, overlooking the Hotel's Atrium and Cincinnati's landmark Fountain Square. The Westin Cincinnati street address is 21 E. 5th Street, Cincinnati, Ohio 45202 • Phone: (513) 621-7700.

Parking is conveniently located underneath the hotel in the Fountain Square South City parking garage. Access is provided via elevator to the meeting location from this parking lot, so you can move from your car to the meeting without being outside in the elements. You may also choose to park directly under Fountain Square, however, you must come up stairs to then access the hotel elevator / escalator to arrive at the third floor.

FROM South

- Take Interstate 71/ 75 North
- Stay in the far right lane and proceed to I-71 North
- Exit onto 2nd Street and turn left onto Vine Street

The hotel is located 2½ blocks ahead on the right between 4th and 5th streets with the entrance just past the traffic light for a cross walk. Turn right at the Green City parking sign before the Westin Valet parking to access the parking garage. The parking garage entrance will be on your left, turning a spiral.

FROM East:

- Take Interstate 275 South to interstate 471 North.
- Proceed to the 3rd Street exit. Continue on 3rd Street to Vine Street

The hotel is located 1½ blocks ahead on the right between 4th and 5th streets, with the entrance just past the traffic light for a cross walk. Turn right at the Green City parking sign before the Westin Valet parking to access the parking garage. The parking garage entrance will be on your left, turning a spiral.

FROM North (Interstate 71 South):

- Take Interstate 71 South and stay in the far left lane to the 3rd Street Exit (will also say Stadium)
- Proceed 4 blocks on 3rd Street and turn right onto Vine Street. Go through the intersection with 4th.

The hotel is located 1½ blocks ahead on the right

between 4th and 5th streets, with the entrance just past the traffic light for a cross walk. Turn right at the Green City parking sign before the Westin Valet parking to access the parking garage. The parking garage entrance will be on your left, turning a spiral.

FROM North (Interstate 75 South):

Take Interstate 75 South to the 7th Street Exit.

- Proceed 6 blocks on 7th Street and turn right onto Walnut
- Continue 3 blocks and turn right onto 4th Street. Continue on 4th Street for one block, turn right onto Vine Street

The hotel is on the right between 4th and 5th streets, with the entrance just past the traffic light for a cross walk. Turn right at the Green City parking sign before the Westin Valet parking to access the parking garage. The parking garage entrance will be on your left, turning a spiral.

January Featured Speaker

Dr. Abbie Griffin, Chair, Marketing Department, David Eccles School of Business, University of Utah

“Best Practices in Finding, Supporting and Managing Serial Innovators”**Abstract:**

Innovation is seen as the lifeblood of any research organization, and deemed essential to a business’s long term existence. With higher order goals of improving health, ameliorating disease, facilitating tasks to make life easier, or just making the world a better place to live, scientists apply their natural curiosity to search for innovative solutions. Dr. Griffin has spent time studying the attributes and characteristics of scientists and engineers who excel at developing innovative products or services, and the surrounding environment and cultures that nurture (or suppress) these endeavors. Her data is drawn from a broad range of industry, and over 125 in-depth interviews. Although not every research scientist is a “serial innovator”, there are many more serial innovators that can be identified and developed in our current workforce. Dr. Griffin will describe the organizational structure, development experiences and personality model that lends to the development of serial innovators.

**About the Speaker:**

Dr. Abbie Griffin is the Royal L. Garff Presidential Chair in Marketing, David Eccles School of Business, University of Utah. Her research interests include measuring and improving new product development processes, obtaining customer inputs to new product development, decreasing time to commercialize products, and management of technology. Dr. Griffin received her BS. in Chemical Engineering from Purdue University, an MBA from Harvard Graduate School of Business, and a PhD in Management from MIT Sloan School of Management, awarded in June, 1989, with emphasis on the Management of Technology Innovation and Marketing (Special interest in commercializing new products and technologies). Thesis titled "Functionally Integrated New Product Development." Dr. Griffin previously served as a Professor of Business Administration, Marketing, at the University of Illinois, Urbana-Champaign, and as Associate Professor of Marketing and Production Management, University of Chicago, Graduate School of Business. She has over 50 publications in refereed journals and several books and book chapters. Her latest books is ‘*SERIAL INNOVATORS: How Individuals Create and Deliver Breakthrough Innovations in Existing Organizations*’, (Griffin, Abbie, Raymond L. Price and Bruce Vojak, Palo Alto, CA: Stanford University Press, April, 2012). Dr. Griffin was named “Top 50 Researcher” in the field of Technology and Innovation Management by the International Association of Management of Technology in 2008. She is the Editor, *Journal of Product Innovation Management*, and sits on the Board of Directors for the Utah Chapter of the American Marketing Association. Abbie currently resides in Salt Lake City, UT.

STEM Conference May 6th, 2013

Request for Proposals

Proposal Review: Beginning on, **January 10th, 2013**, proposals for 1 hour presentations at the STEM Conference May 6th, 2013 will be accepted. The deadline for submission of proposals will be **February 10th, 2013**. You will receive notification of acceptance by **March 1st, 2013**. You may be asked to make the same presentation more than once at the conference.

Delivery: Applications may be completed in one of two ways; either by using Survey Monkey at <https://www.surveymonkey.com/s/7HLOJPR> or by downloading the hard copy, filling out the requested information and mailing it to :

Julie Steimle
University of Cincinnati
611C Old Chemistry
2855 Campus Way
PO Box 210076
Cincinnati, Ohio 45221

If you intend to complete the Request for Proposals through Survey Monkey, we highly suggest that you download a hard copy first, and review the information thoroughly before beginning the online process.

Submission: Please submit the entire proposal (both the Cover Page and the Description of Proposed Presentation) together. Questions regarding RFP's should be directed to Julie Steimle at (513) 556-6454.

Registration: Please note that you will also be required to register for the conference once the registration site opens on January 24th. All participants including presenters will pay the \$25 conference fee which includes, lunch, parking, up to 5 contact hours, and a flashdrive loaded with all the materials supplied by each of the presenters at the STEM Conference.

ACS Project SEED Program

Summer Research Internship Program for Economically Disadvantaged High School Students

The ACS Project SEED summer research program opens new doors for economically disadvantaged students to experience what it's like to be a chemist. Students entering their junior or senior year in high school are given a rare chance to work alongside scientist-mentors on research projects in industrial, academic, and federal laboratories, discovering new career paths as they approach critical turning points in their lives. [More about Project SEED](#)

Summer Programs

Summer I

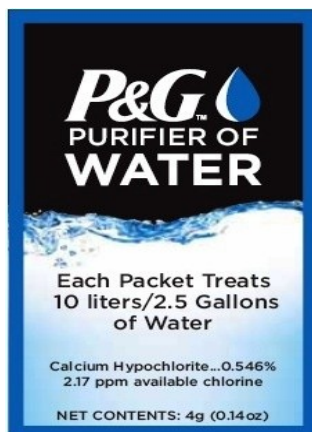
For first-time participants, students conduct research in chemistry or a related field supervised by a scientist mentor and receive a fellowship award of \$2,500.

Summer II

Summer I students get a second opportunity to continue working on their Summer I project or beginning a new one. Students receive a \$3,000 fellowship award and may be eligible for a travel grant to present research at an ACS or other scientific meeting.

Contact Hairong Guan, Hairong.guan@uc.edu for further info on the local section SEED activities

Coins for Cleaner Water Project



ACS has continued to partner with Procter & Gamble to launch *Coins for Cleaner Water*. Every day, several billion people around the world live without clean water. More than 4,000 children die every day from diseases caused by drinking unsafe water. ACS will raise funds to purchase water purification packets that can be used in areas of the world that do not have readily available clean and potable water.

P&G's water purification packets are being distributed through Children's Safe Drinking Water (CSDW), a foundation the company created in 2004. Since CSDW's creation, P&G has distributed over 500 million packets to 63 countries and has partnered with several global relief organizations including AmeriCares, CARE, IFRC, PSI, Save the Children and World Vision. Through these efforts, over 5 billion liters of clean water have been made available to people around the globe. The program has saved more than 22,000 lives and prevented over 165 million days of disease. Each packet costs only 3.5 cents and safely treats 2.5 gallons of water. ACS is proud to partner with P&G's Children's Safe Drinking Water program. Our goal is to raise enough funds to be able to provide over 2 million gallons of clean water.

Beginning this fall during National Chemistry Week, ACS local sections will work in their communities throughout the country to raise money and awareness of this important initiative. All donations are tax deductible, and receipts will be issued to donors who pay by check or money order. Dr. Greg Allgood demonstrated how quickly the contents of the sachet are able to 'clean' water at our April 2012 meeting. A limited number of sachets are available from National ACS so similar demos can be provided to other groups. Our Cincinnati section will collect "coins" at our local meetings and events – look for the "Purifier of Water" sign!

New "Ask and ACS Chemist" Outreach Program from the ACS!

The ACS is launching a new program called "Ask an ACS Chemist". Our Publications Division technical support for ACS journals receives roughly 10-15 science-related inquiries each week, typically from high school and undergraduate students. The questions are usually along the lines of:

How does the microscopic method determine particle size?

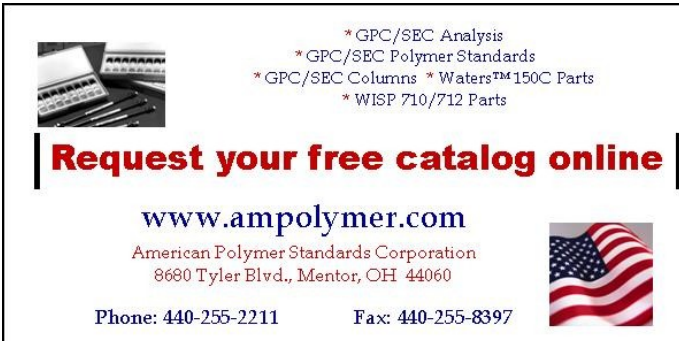
Which enzyme is inhibited by zinc in Alzheimer's?

What is chemical equilibrium?

Currently when we receive these questions, one of our staff members will direct them to a host of journals where the student may or may not find an answer. We would like to offer the students a more personal touch by funneling those questions to a collective of scientific professionals, such as yourself, and allowing you to share your expertise on the subject matter.

We anticipate this initiative will require very little commitment on your end; you may contribute as often as you choose. The format will be a forum of threaded posts in an ACS Network group to which you would be invited to join. You would then begin receiving the notifications as new questions are posted and can log in to view and/or comment where you feel comfortable.

If you are interested in participating in this outreach program, please send an email to Mikal Ankrah at outreach@acs.org and you will be invited to join the Network group.




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NATIONAL CHEMISTRY WEEK 2012 – Thank You to all the Volunteers!!! We had another Fantastic Year!!



This year, we celebrate 25 years of National Chemistry with the theme of “*Nanotechnology – The Smallest BIG Idea in Science*”.

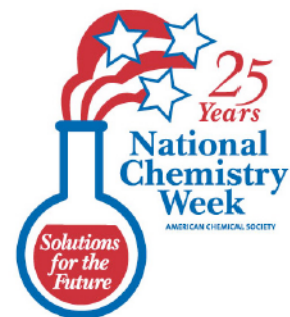
Nanotechnology is all round us and has applications to the environment, energy, materials, and health. Whether it’s the nanoscience used in environmental cleanup, to develop more efficient lighting, to make stronger, lighter, and durable materials, or to make nanomedicine that help us get well, chemistry and nanoscience improves our daily lives.

Locally, chemical demonstrators were very creative and came up with some amazing demonstrations around nanotechnology and more traditional demos. Some demonstrations included the magic of ferrofluid, temperature effects on memory shape wire, magic sand, instant snow, playing with Bucky balls, acid-base chemistry, barfing pumpkins, Mentos® Rockets, making slime, surface tension, and experiments with dry ice.



National Chemistry Week is an annual community outreach program hosted by all 189 local sections of American Chemical Society. It is designed to show how chemistry supports everyone and contributes to our quality of life and the nation’s economy. This year, chemists and engineers from all over the community, were brought together to help celebrate by leading chemistry demonstrations all over the Greater Cincinnati Area.

This celebration and activities would not be possible without the support of our volunteers and sponsors. This year, volunteers and sponsorship came from local industries, companies, and universities. Special thanks to Cognis, Givaudan, Procter & Gamble, Wright Brothers, Inc., Washing Systems, Summit Country Day School, Wilmington College, University of Cincinnati, and Xavier University. Monetary donations contributed by sponsors go towards paying for inserts advertisements and extra demo supplies for volunteers. Thank you to Jamie Heimkreiter, who coordinated our local section and ACS national poem contest. Gloria Story coordinated activities at the Cincinnati Museum Center, and Jackie Thomas coordinated activities at the local libraries.





Chemistry Demo Practice

Susan Hershberger, Ed von Bargaen, and Ed Escudero coordinated demos and ideas for the Chemistry Demonstration preparation workshop this year. It was held on Oct 5th at the GYM, a P&G facility (a really fun and creative place to do demos!). A big THANK YOU to Susan and Ed V for leading the practice this year! Susan gave great clever ideas for demos and Ed V gave a great session on what to do when things

don't go your way during a demo! We know that for some of our members it is a long commute to our demo location, and for that reason, we are trying to move it around the Cincinnati area - please let us know if you are willing to host future chemistry demo practices for future NCWs.

VOLUNTEERS this year included Ed von Bargaen, Carrie Furnish, Michele Mangels, Brandon and Terri Dunphy, Linda Winslow, Lynn Hogue, Ruth Bailey, Scott Tremain, Eric Johnson, Kinshasha "Kat" Azariah, Mike Story, Tim Schafermeyer, Sue Buescher, Ed Escudero, Gloria Story, Supaporn Kradtap, Shui Li,



Kristi Fliter, George Rizzi, Cheryl Hunn, Susan Hershberger, Matt DeMatteo, Jacob Bertand, Lola KellySmalls, Olubolaji Akinterinwa, Eloise Richardson, Will Huber, Fleumingue Jeanmary, Helen Kemp, Jonas Locke, Jamie Titus, Barbara Alexander, Steve Heinzman, Donna Wiedemann, Bill Crawford, David Wilson, Dorothy Jones, Haiben Chen, Hong Zhang, Jackie Thomas, Xavier students coordinated by Mary Stroud and Barbara Hopkins, Miami Chemical Society students coordinated by Tessa Woodruff, Wilmington College students coordinated by Alfred R. Conklin, Jr, the NKU ACS-SA coordinated by Patrick Hare, University of Cincinnati students

coordinated by Anna Daigle, the Boy Scouts of Troop 956 (Hamilton, OH), and all that helped out with NCW this year!

A special thanks to Tessa and Casey of the Miami Chemical Society who performed a LIVE ON-AIR chemistry demonstration this year! Thank you to Susan Hershberger and Ed von Bargaen who helped out in the preparation and set up for this event. This segment was featured on FOX 19 News! Thank you FOX 19 News for this opportunity. The segment was aired on October 23th and highlighted the joint efforts of the Cincinnati ACS section and the libraries in the local community celebration of NCW. Thank you



to Phyllis Hegner, Public Library of Cincinnati & Hamilton County, for coordinating this segment for us! If you missed the segment and want to see our two volunteers in action visit: <http://www.fox19.com/category/240225/video-landing-page?clipId=7872130&autostart=true> to see the video.

Highlights of Chemistry Demonstrations at Local Venues for NCW

We had chemistry demonstrations at 23 Hamilton county libraries, 6 libraries outside Hamilton County, the NKU SAAC group covered 6 Northern Kentucky libraries, Wilmington College coordinated events on campus, and another great on-air chemistry demo on FOX19 News! We wish to especially thank Diane Smiley for coordinating the Hamilton County Libraries and for taking pictures at the various demos. Overall, we were able to reach out to well over 500 kids in the local community at all the libraries and schools!



Highlights of NCW Demonstrations at the Cincinnati Museum Center (CMC)

Team CMC had a special surprise this year at the museum...our Friday demonstrations were part of the CMC Batfest celebration. We hosted over 3,550 guests that day! Saturday we only had about 2,000 visitors...gee. We also, for the first time ever, had the wonderful problem of way too many Saturday volunteers...unheard of!! We hope to have the same problem next year, but we'll try to make a more organized schedule to improve the elbow room. ☺ We also participated in the Pennies for Clean Water program, collecting coins to help purchase P&G™ Purifier of Water packets. Over the two days at the museum, we collected \$20 in coins that will be converted into almost 500 gallons of clean water in Third World countries. We celebrated nanochemistry in our usual style - shrinking balloons, crushing flowers, and beating nails with banana hammers thanks to our partners at Wright Brothers, Inc. Their donation each year of a large dewar of liquid nitrogen is truly the hit of our demos – we'd be lost without it! Capturing CO₂ and fog in soap bubbles is also our famous crowd pleaser and draws them in by the dozens...thanks to P&G Miami Valley Innovation Center for the coolers of dry ice! Our Wilmington College partners led by Al Conklin pushed the dry ice demo up a notch by setting up their larger-than-life “drippy faucet” right in front of the Children’s museum. The perfect place for making chemical discovery FUN! Each child also made a lovely transfer picture with shaving cream and food coloring. You could tell which volunteers worked on that demo...very colorful hands! Barfing pumpkins displayed the power of a catalyst in the famous H₂O₂ decomposition – foam happily provided by little help from Joy dishwashing liquid. Ed von Barga added his famous silver bottle demo to the mix this year...performing the Tollen’s test in a Coke bottle that had all our visitors begging to take one home. Demos on sugar with glucose test strips and weighing a mole of sugar got a lot of visitors thinking about how much hidden sugar we eat everyday. Little ones loved plopping water droplets from plastic pipets onto beds of hydrophobic “magic” sand and regular sand. Michele Mangels brought back her chromatography columns...demonstrating the cleaning power of rocks vs. pebbles vs. sand vs. activated charcoal...nanochemistry in a column! This year, we wanted our faithful Boy Scout



volunteers to have a few demos of their own. Once we taught them the ins and outs of memory wire...they could share the concept like real pros. It is so special watching kids teach kids! In addition, they brought a scout skill demo that fit our theme to a T. They demonstrated the skill of rope making...combining 3 strands of bailing twine into one very strong rope. After it was made, they cut it up into pieces, finished the ends, and handed them out to the children...showing them how to tie a square knot...the "friendship" knot. Of course, they still had to help us set up, clean up, and load up the vehicles too. ☺ Don't worry...they get treated to a pizza dinner on the way home! Can't wait until next year!

Highlights of Wilmington College – High School Chemistry Night

On October 24th 2012, 4 area high schools attended (Blanchester HS, East Clinton HS, Fayetteville HS, and Greeneview HS) Wilmington College High School Chemistry Night. There were 26 high school students, 16 Wilmington College students, 15 teachers/faculty/staff/guests in attendance. The undergraduate students of Wilmington College coordinated, set up, and led the area high school students through various chemistry demonstrations. After the show, the students were divided up into groups and were taught the chemistry concept and how to perform the demonstrations. It was a great event that showcased the very bright up and coming talent in the chemistry community!



Thank you to those who worked on NCW this year! We know our volunteers could not be out there in the local community without the donated liquid nitrogen, dry ice, and miscellaneous supplies, along with supportive businesses, bosses, managers, co-workers, families, and friends. Thank you for the great community effort, and as always, we will do it again next year! If you were involved and your name was unintentionally omitted, let us know; we

do thank you and we will mention your name in our next issue. If you would like to join the fun next year, please let us know and watch for announcements next summer on our website: <http://www.acscincinnati.org/>

Reported by

Jackie Thomas
and
Gloria Story

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We continually seek 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 eight yearly 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 seven 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 eight sponsors. Every effort will be made to align the Sponsor's areas of interest with our monthly topics.

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edhunter@fuse.net



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