

# CINTACS



Newsletter of the Cincinnati Section of the American Chemical Society

December, 2009  
Vol. 47, No. 3

## Meeting Calendar

Dec. 3	Sibrina Collins College of Wooster @ Xavier University
Jan. 13	Gary Reineccius University of Minnesota @ Givaudan
Feb. 10	Chemist & Research Associate of the Year
Mar. 10	Daniel Nocera MIT Joint with Dayton Section
Apr. 14	A. Jorgenson University of Toledo Education Awards Night @ NKU
May	Party Night [TBA]

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## DECEMBER MEETING

December 3<sup>rd</sup>, 2009

Xavier University 

*Conaton Board Room, Room 201 Schmidt Hall*

**Joint Meeting with the National Society for the  
Professional Advancement of Black Chemists  
and Chemical Engineers (NOBCCHE)**

*Featured Speaker:*

Dr. Sibrina Collins, College of Wooster

### Program:

**5:15 - 6:15pm:** Board Meeting (*Location TBA*)

**5:30 - 7:00pm:** Registration, Conaton Board Room, 2nd  
floor Schmidt Hall

**6:00 - 7:00pm:** Social Hour, Conaton Board Room.

**7:00 - 8:00pm:** Dinner: Conaton Board Room (\$25.00 or  
\$15.00 for students, emeritus, unemployed & new mem-  
bers).

Menu: Pan Seared Chicken Breast with Hunter Sauce, Gar-  
den Greens Salad with Italian Vinaigrette, Wild Rice Pilaf,  
Fresh Seasonal Vegetable Medley, Fresh Baked Bread,  
Chocolate Mousse with Raspberry Sauce, Whipped Cream  
and Chocolate Shavings, Coffee, Tea. Vegetarian entree  
available upon request when making reservations.

**8:00 - 9:00pm:** Speaker, Dr. Sibrina Collins:

**"African American Contributions in Science"**

*(Continued on page 3)*

**THE CINTACS NEWSLETTER****Vol. 47, No. 3 December, 2009**Editor.....Kevin Ashley  
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 early-mid December for the January 2010 issue (due to the holidays). Electronic submission is strongly preferred. All materials should be sent to:

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**From the Chair**

Circle Thursday, December 3, 2009 on your calendar for our December meeting at Xavier University. At this joint meeting with the National Organization of Black Chemists and Chemical Engineers, NOBBChE, we welcome back to Cincinnati, organometallic chemist and inorganic chemistry professor Sibrina N Collins, now at the College of Wooster, Wooster, OH. Dr. Collins was a Visiting Assistant Professor at the University of Cincinnati in 2005. At last year's Xavier meeting, during the talk by ACS President Elect Joseph Francisco, the topic of the history of African Americans in chemistry came up. Dr. Collins is also passionate about that history so the title of her talk is, "African American Contributions in Science." Dr. Collins is also presenting the connections between the Chemical Industry and Hip Hop to beginning chemistry students at the new Cincinnati Stem High School on December 4, 2009, kicking off our partnership with the Cincinnati STEM High School. In the October 26, 2009 Chemical & Engineering News Dr. Collins published a guest editorial, see the following link: <http://pubs.acs.org/cen/editor/87/8743editor.html>.

Especially with salary raises scarce this year, take the opportunity to recognize great local chemistry locally. It's not too late to nominate a colleague or coworker for the 2010 Cincinnati Chemist of the Year and Research Associate of the Year. For the Chemist of the Year, submit the candidate's CV and at least two letters of recommendation. The Chemist of the Year should hold a terminal degree and must be a Cincinnati Section and ACS member. For the Research Associate of the Year, submit the candidate's CV and one letter of recommendation. The Research Associate does not need to be an ACS member. Additional documents for both awards are appreciated but optional. The deadline for nominations is December 31<sup>st</sup>. Please submit materials to Heather Bullen, Awards Committee Chair at: [bullenh1@nku.edu](mailto:bullenh1@nku.edu).

October 18<sup>th</sup> to 24<sup>th</sup> was National Chemistry Week in Cincinnati and throughout the US. Thank you to everyone who contributed to make our local celebration of chemistry successful, safe, fun and festive. I hope everyone was recognized in the NCW Thank You article appearing later in this issue of CINTACS. Special recognition goes to our industrial sponsors, Cognis, Givaudan, P&G, and Wright Brothers, our partner institutions, the Cincinnati Museum of Natural History, the Duke Children's Museum, all the area libraries and librarians, the Cincinnati Enquirer, Newspaper in Education, and coordinators Heather Bullen, Keith Walters, Gloria Story, Kathy Gibboney, and Jamie Heimkreiter.

On October the 30<sup>th</sup>, the 29<sup>th</sup> Oesper Symposium and Banquet at the University of Cincinnati was celebrated along with our October meeting. The all-day symposium and banquet honored the science achievements in protein folding of Susan Lindquist of MIT.

*(Continued on page 6)*

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**Register Online:**

Please register online at [www.acscincinnati.org](http://www.acscincinnati.org). Alternatively, you may email the webmaster at [webmaster@acscincinnati.org](mailto:webmaster@acscincinnati.org) to register.

**Directions to Meeting Venue:**

The Xavier University Conaton Presidential Board Room is located on the second floor of Schmidt Hall. Parking is provided free with *the parking pass below* at the F&W Center on Dana Avenue across the street from Schmidt Hall. A map of Xavier University with directions can be found at <http://www.xavier.edu/about/Maps-Directions.cfm/map.pdf>.

Address of Xavier University: 3800 Victory Parkway, Cincinnati, Ohio 45207

**From I-71:** Exit at the Dana Avenue Exit. Proceed west on Dana Avenue past Ledge-wood Drive. As the road begins a slight turn, the Alumni Center parking area will be on the left before you reach Victory Parkway.

**From I-75:** Exit at Mitchell Avenue. Proceed east on Mitchell Avenue, crossing over Reading Road. Continue to Dana Avenue and turn left. Just after crossing Victory Parkway, the entrance to Alumni Center parking area will be on the right.

**From Route 562:** Exit the Norwood Lateral at Reading Road. Continue in the left lane of Reading Road to Victory Parkway. Merge left onto Victory Parkway at the light. Continue to Dana Avenue. Turn left onto Dana Avenue. The entrance to Alumni center parking area will be on the right in about half a block.

**XAVIER UNIVERSITY**

Conaton Presidential Board Room  
*Second floor Schmidt Hall*

**Temporary Reserved Parking Permit**

Valid for American Chemical Society Meeting  
F&W PARKING AREA

December 3, 2009

CARD MUST BE DISPLAYED ON PASSENGER SIDE OF DASHBOARD



## African American Contributions in Science

Professor Sibrina N. Collins

Department of Chemistry  
College of Wooster  
Wooster, Ohio

A native of Detroit, Michigan and a graduate of Wayne State University, Sibrina Collins is an organometallic chemist. She earned her Ph.D. from The Ohio State University (2000) under the direction of Professor Bruce Bursten, investigating the low-temperature matrix photochemistry of ruthenium cyclopentadienyl dicarbonyl dimers. She completed a postdoctoral position at Louisiana State University with Professor Isiah Warner. Between 2003 and 2006, Dr. Collins was an assistant professor of chemistry at Claflin University in Orangeburg, South Carolina. Her research efforts focus on the crystal-engineering of metal-organic frameworks (MOFs), which have many potential applications as electronic materials.

Dr. Collins was a visiting assistant professor in the Department of Chemistry at the University of Cincinnati (2005) and Furman University (2003). She has also worked as a writer and editor for the American Association for the Advancement of Science (AAAS) in Washington, DC. From May 2006 to May 2008, she served as the Director of Graduate Diversity Recruiting at the University of Washington. Dr. Collins returned to The Ohio State University in the summer of 2008, as a visiting assistant professor. She is now on the faculty of the Department of Chemistry, The College of Wooster, Ohio.

A member of ACS and NOBCChE, and passionate about the history of African Americans in the chemical sciences, Collins will present an overview of the contributions of African Americans in various fields of science, including biology, chemistry and physics. Profiles of scientists like Saint Elmo Brady, the first African American to earn a Ph.D. in chemistry, will be included. Her talk will also include current demographics, historical trends, and data from recent reports. Sibrina also uses hip-hop music as a means to encourage minority students to pursue the sciences. Sibrina will connect hip-hop music to chemistry in her presentation tomorrow at the Cincinnati STEM High School, part of an ACS Innovative Project Grant to the Cincinnati Section.

## NATIONAL CHEMISTRY WEEK THANK YOU

Magical sand that doesn't get wet, pumpkins that spew oxygen (encased in bubbles of "Joy"), perfectly reflective silvered glass, glowing antique Uranium glass, very cool liquid nitrogen frozen flowers, glowing lamps lit by Tesla coils, very hot heater meals packs, the micro Thermite reaction, taking water apart (electrolysis) and putting it together in a hydrogen and oxygen mini rocket... these were all elements of the Cincinnati Section's 2009 celebration of National Chemistry Week.

Using the theme, "Chemistry, It's Elemental!", the 140<sup>th</sup> anniversary of the Periodic Table was celebrated throughout Cincinnati, southwest Ohio, northern Kentucky and southeast Indiana. National Chemistry Week 2009 in Cincinnati was successful due to the effort of many, many, many chemists and Cincinnati Section Members.

National Chemistry Week is a community-based annual event that unites ACS local sections, businesses, schools, and individuals in communicating the importance of chemistry to our quality of life. Even in challenging economic times, our industrial sponsors, Cognis, Givaudan and P&G contributed to our inserts in the Cincinnati Enquirer through Newspapers in Education (NIE). These sponsors also provided the ACS Celebrating Chemistry to Schools in the tri-state area. Kathy Gibboney coordinated the NIE effort. Our sponsors also enabled our demonstrating chemists to hand out Celebrating Chemistry and pictorial Periodic Tables and ACS pencils, erasers, tattoos (temporary) and balloons to visitors to our library presentations at over 30 libraries in the tri-state area. Thanks to Jamie Heimkreiter, who coordinated our local section and ACS national poster contest. We will celebrate our winners at our April meeting.

Keith Walters and Heather Bullen coordinated all the library presenters and ordered their supplies. Ed Escudero arranged for more demonstration materials and presented a demonstration preparation workshop, September 29<sup>th</sup> at Summit Country Day High School. Lead library presenters included: Sue Buescher, Ed Escudero, Gloria Story, Hairong Guan, Kristi Fliter, George Rizzi, Bill and Kyle Crawford, Charlie Rader, Susan Hershberger, Kris Mason, Linda Ford and the Seven Hills School Science Club, T J Moorehead, Mary Stroud and Xavier Students, Frank Huss, Laurie Breyfogle, Barbara Alexander, Elizabeth Picos, Donna Wiedemann, Darla Kettenacker, Hong

Zhang, and the NKU SAACS. Many presenters handled more than one library; the NKU SAACS group covered six libraries in northern Kentucky!

Another group of area chemists, predominately from P&G and LyondellBasell Industries, collaborated with the Cincinnati Museum Center (CMC) to present demonstrations in the Rotunda and the Duke Energy Children's Museum lobby on both Friday October 23<sup>rd</sup> and Saturday October 24<sup>th</sup>. The Museum team included Gloria Story, Ed and Linda von Bargen, Carrie Furnish, Brandon and Teri Dunphy, Kristi Fliter, Jamie Heimkreiter, Amy Weiskittel, Sue and Mike Setty, Dennis and Kristin Pattinson, Michele Mangels, Susan Hershberger, and Austin Hiler, Aaron Adams, Kitty Vanderpool, and Anne Biederman from Boy Scout Troop 956, Hamilton, OH. The major ingredient for the liquid nitrogen demos was generously donated by Roza Vilner with Wright Brothers, Inc., who continued their annual donation of a 230 L liquid nitrogen dewar to the demonstrators at the Museum Center. Thanks to Mike Howard of the OMNIMAX Theater at the Museum Center for access to a projector cart and screen. All the activities at the Museum Center wouldn't be possible without the cooperation of Regina Hall, Amanda Bishop, and Shelby Archer from the CMC's Museum of Natural History and Science, Claire Pollock from the CMC's Duke Energy's Children Museum, and Garland Curry and all the security staff at the CMC.

In addition, Roger Parker and Richard Bretz were instrumental in partnering with Merck and ACS and helping the Cincinnati Section distribute Merck Indexes to area high school teachers and students.

Thanks to those of you who worked in the background. None of these individuals could have been out "demonstrating" without the liquid nitrogen, dry ice, other supplies, supportive business, bosses, co-workers, families and friends that stood behind them. Thanks for a great community effort—we'll do it again next year. If you were involved and your name was omitted, let us know; we do thank you and we will mention your name next year. If perchance you'd like to join in the all this fun next year, we would love to include you! Watch this space In January; we plan to start organizing for next year.

Reported by  
**Susan Hershberger**  
and  
**Gloria Story**



(Continued from page 2)

Again, thanks are due to a large cast of people for making the Oesper event successful. This event would not be possible without the expert organization and dedication to detail provided by Kim Carey, along with Heather Trenary, Pat Limbach, and Heather Bullen.

Looking ahead to the new year, our January meeting returns to our usual second Wednesday evening of the month, January 13.<sup>th</sup> The meeting will be held at Givaudan and features Gary Reineccius of the University of Minnesota talking about food and flavor.

I hope to see you at the December meeting.

-Susan Hershberger

### ACS Cincinnati website opinion survey (last reminder)

*3rd & final notice:*

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

### Want to Support Your Local Chemistry Teachers? Need Materials for a High School Event?

Consider the *ChemMatters* publication. *ChemMatters* is a bimonthly magazine for high school students published by the ACS Education Division, and its mission is to help students find connections between the chemistry they learn and the world around them. Each issue brings intriguing stories informing readers about creative applications of chemistry or real-life mysteries solved by chemistry. A free, web-based Teacher's Guide contains background information, follow-up hands-on activities, classroom demonstrations, and other resources allowing teachers to incorporate *ChemMatters* into their instruction, or assign it as supplemental reading. A 25-year archive of the *ChemMatters* magazine is now also available on CD.

Support high school teachers and students in your area and present them with a gift of a *ChemMatters* subscription (only \$14) or *ChemMatters* CD (\$30). For more information about these great resources visit [www.acs.org/ChemMatters](http://www.acs.org/ChemMatters). To receive a limited number of free copies of *ChemMatters* contact Marta Gmurczyk: [m\\_gmurczyk@acs.org](mailto:m_gmurczyk@acs.org); 202-452-2105.

### Willing to grow your outreach to area high schools?

Consider supporting your local ACS High School Chemistry Clubs, which provide opportunities for students to cultivate their interest in chemistry beyond the classroom. There are over 200 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 you and your Local Section support your area High School Chemistry Clubs? Following are just some ideas:

- Provide the information about the ACS High School Chemistry Club program to a high school teacher in your area and encourage them to sponsor a ChemClub
- 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 visit our website at [www.acs.org/chemclub](http://www.acs.org/chemclub) or contact us at [hschem-clubs@acs.org](mailto:hschem-clubs@acs.org)

## 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 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 six 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.

Currently contact Ed Hunter  
at: [hunterje@ucmail.uc.edu](mailto:hunterje@ucmail.uc.edu)

[for Ted J. Logan, CHAIR  
Sponsorships and Solicitations Committee  
Cincinnati Section, ACS]

## 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 should hold a terminal degree and must be a member of the Cincinnati section of the ACS. Nomination requires two letters of recommendation and the nominee's CV.

The Research Associate of the Year must be or have been a practitioner within the chemical discipline. ACS membership is not a requirement. Nomination requires a letter of recommendation; CV and additional documentation are optional, but appreciated.

Nomination materials should be sent to:

Heather A. Bullen  
Associate Professor  
Department of Chemistry  
Northern Kentucky University  
Nunn Drive  
Highland Heights, KY 41099  
email: [bullenh1@nku.edu](mailto:bullenh1@nku.edu)  
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## FIRST CALL FOR ABSTRACTS

### 42<sup>nd</sup> Central Regional Meeting of the ACS

#### ***CHEMISTRY: REACTING TO PROVIDE NEW TECHNOLOGIES***

June 16-19, 2010 — Dayton Convention Center and Crown Plaza Hotel  
in Historic Downtown Dayton, Ohio!

#### ***Featured Symposia***

Computational Materials Science: Theory, Modeling, & Simulation  
Nanomaterials: Synthesis, Structures, Functionalization & Applications  
New Vistas in Biotechnology: Chemistry, Materials & Applications  
Combinatorial Characterization in Nano-Bio Systems  
Chemistry & Materials for Alternative Energy  
Metamaterials  
Chemistry for Peace  
Small Chemical Business Programming  
Materials for Aerospace and Space Applications  
Chemical Education Symposium and HS Teacher Award  
Chemical Information and the Patterson-Crane Award  
Minority Leaders in Nanomaterials Research Workshop  
Traditional areas, such as Organic, Inorganic, Biochemistry, and P-Chem  
Student Poster Sessions

Go to [CeRMACS2010.org](http://CeRMACS2010.org) for more information and to submit your abstract!

#### ***Pre- and Post-Meeting Attractions***

Dayton Dragons Baseball at Fifth-Third Field, Downtown Dayton –  
[daytondragons.com](http://daytondragons.com)  
US Air Force Museum – [www.nationalmuseum.af.mil](http://www.nationalmuseum.af.mil)  
The Dayton Art Institute – [www.daytonartinstitute.org](http://www.daytonartinstitute.org)  
Boonshoft Museum of Discovery – [www.boonshoftmuseum.org](http://www.boonshoftmuseum.org)  
Schuster Performing Arts Center – [www.schustercenter.org](http://www.schustercenter.org)  
Historical Oregon District – [www.oregondistrict.org](http://www.oregondistrict.org)  
Carillon Historical Park – [www.carillonpark.org](http://www.carillonpark.org)  
The Dayton International Peace Museum – [www.daytonpeacemuseum.org](http://www.daytonpeacemuseum.org)  
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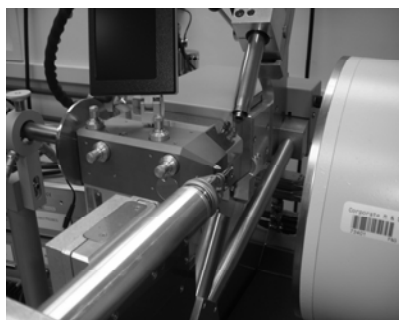
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