

CINTACS



Newsletter of the Cincinnati Section of the American Chemical Society

September, 2013
Vol. 51 No. 1

Section Calendar

Upcoming Events

National ACS meeting, Indianapolis	Sept 8-12
Germania Park Picnic	Sept 22
NCW Training, NKU	Sept 25
NCW Outreach	Oct 20-26
Oesper Symposium, U. of Cincinnati	UC, Oct 25
Joint meeting with NOBCCHE, Xavier Univ	Dec 11

Come to the first gathering of the Cincinnati ACS for 2013-2014:

10th ANNUAL

FAMILY AND FRIENDS PICNIC

Chemistry Fun at Germania Park

Sunday, September 22, 2013, 1-4 PM

Ask family and friends to join you as we welcome the new ACS year and enjoy a beautiful Sunday fall afternoon together. Reconnect with ACS friends and make new ones in a relaxed and casual atmosphere. Activities and entertainment will include food, drinks, games and chemistry fun!

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Gathering and Games: 1:00-2:00 PM

Food/Potluck: The section will provide grilled hot dogs, hamburgers, brats, metts, and chicken from Hammann's Catering. Drinks will be provided, including beer, soft drinks and juice boxes.

Attendees are cordially invited to bring a picnic dish to share (consider ~6 adult servings). (If possible, please note ingredients, like "contains nuts" or "gluten-free" to aid those with dietary restrictions.) Members with last names beginning with A-N are asked to bring a side dish, while those with last names starting with M-Z are asked to bring a dessert. Food will be served at 2 PM .

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THE CINTACS NEWSLETTER**Vol. 51, No. 1 September, 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 September 25 for the October 2013 issue. Electronic submission is strongly preferred. All materials should be sent to:

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From the Chair

Hello Section Members,

Welcome to the new year of the Cincinnati section of the American Chemical Society. As I assume the role of chair of the section, I have been truly amazed by what I have learned so many different members do to make us such a strong section. We got to witness Gloria Story win a very well deserved(!) service award at our party night last May. I wish we could also give awards to everyone who makes the section run so smoothly. I am humbled to have the opportunity to be the chair of such a wonderful group of chemists!

We start the year with our 10th annual – can you believe it? – family picnic at Germania Park on Sunday September 22, 1-4 PM. Classic picnic fare (hot dogs, hamburgers, brats, metts, and chicken) will be grilled for us by Hammann's Catering. Be sure to show off your culinary skills by bringing a side dish or dessert to share. Here's hoping to beautiful fall weather to allow us to enjoy great food, friends and outdoor games.

National Chemistry Week this year is October 20-26 and planning is off to an amazingly strong start, thanks in huge measure to the collective work of Jackie Thomas, Hong Zhang, and Patrick Hare. And what would we do without Ed Escudero, Susan Hershberger and Ed Von Bargaen leading our demos year in and year out? Please see information later in the CINTACS and volunteer to have a fun time helping at the library demos.

The first formal meeting of the year will be the Oesper Symposium on October 25 at UC, where a fabulous lineup of speakers has been planned. Daniel Nocera (Harvard University) will be presenting his work on the artificial leaf, while Richard Eisenberg, the Oesper Award Honoree, will present his seminar: "Fuel from Water: The Light-Driven Generation of Hydrogen". Professor Harry Gray (Cal Tech) will cap off the symposium as our after dinner speaker.

Our traditional joint meeting with NOBCChE at Xavier will be December 11. I am very excited that the 2012 winner of the NOBCChE Lloyd N. Ferguson Young Scientist Award Winner, Dr. Stefan France, has agreed to be our guest speaker of the night. Dr. France earned his BS in chemistry at Duke University and his MA

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and PhD at John's Hopkins University. He is a newly tenured associate professor of chemistry at Georgia Tech and will share the results of some of his most recent work with us.

We are finalizing dates with two exciting speakers for January and March, our Chemist of the Year meeting will be February 12 and the school awards meeting at Northern Kentucky University will be April 16. Please come out this year to our monthly meetings and enjoy good times with chemistry friends, old and new alike.

Diana McGill
Chair

Cost:

\$10 for individual members or \$15 for members with their family or friends.

\$5 for individual members who are re-tired, K-12 teachers, unemployed, or student affiliates or \$10 with their family or friends.

Reservations: The meeting reservation form is online at www.acscincinnati.org/acs. When you register indicate the number of adults and children attending. The deadline for registration is Wednesday, September 18 at noon.

Directions to Germania 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. Germania 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. Germania Park is on the left after 1.6 miles.

George Rizzi

Outstanding Service Award - 2013

At the May meeting, George Rizzi, a long-standing member of ACS (50+ years) and the Cincinnati Section, was formally recognized for his outstanding service to the Cincinnati Section. The Outstanding Service Award was established in 1997 to recognize the dedicated service and outstanding contributions sustained over a period of time by individual members to the Cincinnati Section. George has served the Cincinnati Section in various capacities over the years. He has held several officer positions, including Chair (2006/2007) and Secretary (held for multiple terms). As Chair, he did an outstanding job organizing well attended meetings with a strong list of speakers. George has also been very active in the Retired Chemists Committee which provides informational chemistry demonstrations at area elementary and middle schools. The Cincinnati Section relies on its member volunteers to do the various jobs that allow the Section to serve its membership and the larger community and keep our section functioning at a high level. Whenever something needs doing, it is not unusual to see George step forward to volunteer his time and talent to help with various local section activities, such as, being a judge at a local science fair or helping the Chair find speakers for our monthly meetings.

Trained as an organic chemist, with B.S., M.S. and Ph.D. degrees from Worcester Polytechnic Institute, he did post-doctoral research at Stanford University before joining Procter & Gamble Company. At P&G, he worked in R&D for over 35 years, mostly in food chemistry and food additives, establishing a strong record of patents and technical publications in peer reviewed journals. Since his retirement from P&G, in addition to his activities with the Cincinnati section, he maintains interest in chemistry through private research, consulting, and part-time teaching. George also makes technical presentations on food and flavor chemistry at national ACS meetings and at international meetings.

National Chemistry Week 2013 - Call for Volunteers!

We are still in need of additional volunteers for NCW 2013! This year's theme is "**Energy Now and Forever!**" NCW is Oct 20-26th.

Cincinnati Public Libraries:

We already have a big requests list for demos at the Cincinnati Public Library - If you would like to lead a Library demo email ncw.acs@gmail.com and let us know. This is a great way to really interact with children in the local area and help inspire future generations of chemists!

Cincinnati Museum Center (CMC):

If you would like to help out at the CMC please contact Gloria Story (story.gm@pg.com). This is a great venue to celebrate chemistry and it reaches so many children!

Demo Practice:

Demo practice this year will be held at Northern Kentucky University on Wednesday September 25 at 6:30 PM. Thanks to Ed Escudero, Susan Hershberger and Ed Von Barga for agreeing to lead us in demos again this year.

Thanks again to everyone in advance for your help with NCW this year! Please feel free to email ncw.acs@gmail.com if you have any questions.



Oesper Symposium News

Before you know it, the Oesper Symposium will be upon us; this year, it will be held on Friday October 25, with a deadline for dinner registration of October 21. We are very excited that Harry Gray will be the dinner speaker. He will introduce his friend, Dr. Richard Eisenberg, the Tracy Harris Professor Emeritus and Professor at the University of Rochester, as this year's Oesper Award winner.



Harry Gray

California Institute of Technology

Harry Gray is the Arnold O. Beckman Professor of Chemistry and the Founding Director of the Beckman Institute at the California Institute of Technology. In 1961, after graduate work in inorganic chemistry at Northwestern University and postdoctoral research at the University of Copenhagen, he joined the chemistry faculty at Columbia University, where he investigated the electronic structures and reactions of inorganic complexes. In 1966, he moved to Caltech, where for over 40 years he has been working on problems in biological inorganic chemistry and in organic photochemistry. Awards for his work include: the National Medal of Science in 1986; the Priestley Medal in 1991; the National Academy of Sciences Award in Chemical Sciences in 2003; the Benjamin Franklin Medal in Chemistry and the Wolf Prize in Chemistry in 2004; and the Welch Award in Chemistry in 2009. He is a member of the National Academy of Sciences; the American Academy of Arts and Sciences; the American Philosophical Society; a foreign member of the Royal Danish Academy of Sciences and Letters; the Royal Swedish Academy of Sciences; the Royal Society of Great Britain; and the Accademia Nazionale dei Lincei.

Oesper Poster Information:

It is that time of year again to start thinking about submitting abstracts for the Oesper poster session that will be held October 25th from 5:30 -7:00 at the Great Hall in TUC. If you want to be in the poster session please submit an abstract to Amie Norton at nortonai@mail.uc.edu. Abstracts need to contain a title, list of authors and the abstract itself. (The word limit this year has been increased to 200 words). Please submit as a word document. You will receive an e-mail confirmation that will serve as your reservation for the poster session. **The deadline for submitting an abstract is October 18, 2013.** Contact Amie with questions.

The Importance of the America COMPETES Act

The Subcommittee on Public Policy (SPP) of the ACS Committee on Economic and Professional Advancement (CEPA) would like to inform ACS members of an important piece of science legislation that expires this year. The America Creating Opportunities to Meaningfully Promote Excellence in Technology, Education, and Science Act, more commonly known by the acronym the COMPETES Act, was a key piece of highly bipartisan science legislation that first became law in 2007. It was inspired by the findings from the 2007 National Academy of Sciences report 'Rising Above the Gathering Storm', which identified ways to create high-quality jobs and focus new science and technology efforts on meeting the nation's needs. The original America COMPETES Act established a broad consensus for increasing U.S. investments in groundbreaking research in the physical sciences and engineering fields at the National Science Foundation (NSF), the Department of Energy (DOE) and the National Institute of Standards and Technology (NIST). The enacted legislation also significantly increased emphasis on science, technology, engineering, and math (STEM) education at the Department of Education (DoEd) and the NSF. It set authorization levels for these key science agencies for three years ('07-'10). The America COMPETES Act was a shining example of successful political bipartisanship and one of the most broadly supported pieces of major legislation passed by Congress in recent memory. COMPETES was reauthorized in 2010, again for three years and with bipartisan support, and expires at the end of 2013.

The ACS has been meeting with members of congress over the past several months advocating on behalf of COMPETES and would like to make ACS members aware of the effort.

While the specific provisions of the upcoming version of COMPETES are still being negotiated, the following public policy positions of the ACS can serve as a good template for issues most important to the Society:

U.S. Innovation and Entrepreneurship http://portal.acs.org/portal/PublicWebSite/policy/publicpolicies/enable/innovation/WPCP_011518

Science and Technology Funding
http://portal.acs.org/portal/PublicWebSite/policy/publicpolicies/enable/stfunding/CNBP_023895

Science Education Policy
http://portal.acs.org/portal/PublicWebSite/policy/publicpolicies/invest/educationpolicies/WPCP_011527

More detailed information on the COMPETES Act can be found at <https://www.fas.org/sgp/crs/misc/R42779.pdf>

Thank you for your attention,

]Louise Lawter, Chair

The Subcommittee on Public Policy, ACS Committee on Economic and Professional Advancement (CEPA)

Chemistry Oesper Exam Top Scorers



1st Level Oesper

Rebecca Allen - Ursuline
Teacher: Diane Rose

Parker Gloffelty - Walnut Hills
Teacher: Jeff Lazar

Pearce Kieser – Seven Hills
Teacher: Linda Ford

Sven Knobloch - Walnut Hills
Teacher: Jeff Lazar

Mary McGrath – Ursuline
Teacher: Diane Rose

Nathaniel Tiffany – Walnut Hills
Teacher: Jeff Lazar

Max Weiskittel – Walnut Hills
Teacher: Jeff Lazar

2nd Level Oesper

Jack Bargemann -Walnut Hills
Teacher: Jeff Lazar

James Gao – Mason
Teacher: Jeff Lazar

Nikolas Henderson – Lakota East
Tacher: Greg Mahlerwein

Nicolas Hershey - Sycamore
Teacher: Mike Geyer

Sam White - Wyoming
Teacher: Andrew Felczan

Chemistry Olympiad Finalists



These students qualified to sit for the National Chemistry Olympiad exam,
representing the Cincinnati Section and their schools

<u>STUDENT</u>	<u>TEACHER</u>	<u>SCHOOL</u>
Nikolas Henderson	Greg Mahlerwein	Lakota East
Anne McAlister	Greg Mahlerwein	Lakota East
Jack Bargemann	Jeff Lazar	Walnut Hills
Sam White	Andrew Felczan	Wyoming
David Trate	Jennifer Chast	Loveland
Natalie Dall	Jennifer Chast	Loveland
Burkett Evans	Brett Becker	Madeira
Derek Shu	Chris Ennis	Mason
James Gao	Chris Ennis	Mason
Ben Sorscher	Linda Ford	Seven Hills
Soham Agarwal	Mike Geyer	Sycamore
Nicolas Hershey	Mike Geyer	Sycamore

Project SEED



Summer 2012 Students and Mentors

- Levi Kirby
James Mack & Hairong Guan, UC
- Daryl Ringwood
Adam Bange & Supaporn Kradtap, Xavier
- Thomas Houston
Michael Baldwin & Peng Zhang, UC
- Patrick Carr
– Anna Gudmundsdottir, UC

American Chemical Society

Summer 2013 Mentors

- Laura Sagle
– Protein-Nanoparticle Biosensors
- Hairong Guan
– Catalytic Release of H₂ from Ammonia-Borane with Nickel Complexes
- William Connick
– Vapochromic Materials for Chemical Sensing
- Anna Gudmundsdottir
– Towards Making Photoremovable Protecting Groups
- James Mack
– The Development of Environmentally Benign Organic Reactions
- Peng Zhang
– Synthesis of Silver Nanoparticle-based Photosensitizers

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