

The Accelerator

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Indiana Section
of the American
Chemical Society

Chair's Corner

By Laura Slocum

As a high school chemistry instructor, my time is usually measured by how much of a semester remains. In a week, I have parent-student-mentor conferences and that means the semester is half over. It also means that my year as chair is rapidly drawing to a close.

I want to draw your attention to three of our most popular events that happen each fall. The Career Night in September was a HUGE success. The thoughtfulness and foresight that the planning committee put into this event was greatly appreciated by all who attended. Several of my high school teaching colleagues especially appreciated the attention given to students, particularly those at the high school level. This event is recapped elsewhere in this newsletter too.

The Fifth Annual Poster Session was held on Monday, October 11th, and National Chemistry Week will be celebrated at The Children's Museum on November 6th. This year's poster session also included invited high school students, including Project

SEED students and the two student groups from our local section that won their categories in the Regional Chemagination Contest.

There have been some problems with posting new information on our local section website and I apologize for this inconvenience to you. The Executive Committee has voted to move our local section website to a different server, where we will have easier access and can post new information in a timely manner. Please watch for more information in regard to this new website.

I know that Julie O'Brien could use some help with National Chemistry Week. This is a great opportunity for you to meet other members of your local section and support those presenting at the museum. Please contact her if you can help.

You should have received your ballot for the 2005 Indiana Section Officers. Please return your ballot by November 1st.

Finally, I would like to extend a special invitation to those of you who have not attended a monthly event this year. We would like to meet you. Also, if you are interested in serving on any of the committees, an extra hand is always appreciated.

It's National Chemistry Week! Come Celebrate Chemistry on November 6th!

By Julie O'Brien

The 2004 Indiana Section National Chemistry Week celebration will take place on Saturday, November 6 from 10 AM to 3 PM. The event will be held throughout The Children's Museum of Indianapolis (www.childrensmuseum.org). As the largest Local Section event of the year, approximately 200 volunteer chemists from across Central Indiana help to make it all possible. Over 3000 museum visitors are expected on Saturday, which provides the Local Section with excellent exposure to the general public.

This year's theme is *Health and Wellness*. As part of the celebration, section volunteers will engage museum visitors in activities that help the public better understand what chemistry is and how it related to their health and wellness. Plan to bring your family and friends to the fun-filled event, which will include many

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It's National Chemistry Week! (continued from page 1)

chemistry demonstrations and hands-on activities provided by our exhibitors. Please let others know about this exciting event.

Special Thanks to Dow AgroSciences and Eli Lilly and Company for sponsoring the Indiana Section's National Chemistry Week event.

All of the activities listed below are FREE with museum admission.

***New this year!* Chemists in the Library**

The museum has a branch of the Indianapolis-Marion County Public Library "The InfoZone" on the first floor. Books related to chemistry and health will be on display. Section volunteers will be reading chemistry and health books during story time on November 6. Check out the library display case of chemistry-related items!

***New this year!* Health-Related Trivia throughout the Museum**

Look for trivia about topics like hand washing in the museum's bathrooms and other public areas.

***New this year!* How Much Sugar Do We Eat?**

We'll have a display of the amount of sugar that the average American consumes each year. It's going to be big!

13th Annual High School Chemistry Competition

Nine high schools, including defending champion Fountain Central, will vie for the Golden Goggle trophy. Student teams develop a series of simple activities around a common chemical principle and perform them for museum visitors. The teams are judged on scientific accuracy, safety procedures, and creativity. This event will be located on the mezzanine above the museum entrance.

New this year! An awards ceremony for the competition will be held in the Lilly Theatre immediately after the conclusion of the contest. Help cheer on the high schools and show your support of their hard work by attending!

High Schools Participating in NCW Chemistry Competition

Fountain Central High School
Zionsville Community High School
Delta High School
Union County High School
The Indiana Academy for Science, Mathematics, and Humanities
Cardinal Ritter High School
Warren Central High School
Brebeuf Jesuit Preparatory School
Tabernacle Christian School

Chemistry is a Blast! Shows in the Lilly Theatre

A rotating mix of demonstrations by chemists from Eli Lilly and Company will intrigue the audience while emphasizing chemical principles and safety. *Shows on the hour*

Chemistry Activities throughout the Museum

Local companies, universities, and professional organizations provide interactive experiments and demonstrations on the ramp system around the museum.

Kids and Chemistry Hands-on Experiments in the Dow Biotechnology Lab

Chemists conduct hands-on experiments with elementary-age children and their parents. Experiments include *Chemical Changes* and *Jiggle Jelly*.

Largest Outdoor Periodic Table in Indiana

You will be welcomed to the museum by a huge rendition of the Periodic Table of the Elements in chalk on the sidewalk of the museum entrance. *Brought to you by the Butler Student Affiliates Chapter of the American Chemical Society*

Participating Companies, Universities, and Professional Organizations

Dow AgroSciences
Eli Lilly and Company
Roche Diagnostics
Ball State University
Butler University
Franklin College
DePauw University
Association of Women in Science
Iota Sigma Pi
National Organization of Black Chemists and Chemical Engineers (NOBCCHE)

Need more information?

Contact Julie O'Brien at jtbrien@iquest.net (preferred) or 317-276-4356.

Volunteers Still Needed!

We still have several opportunities for Local Section members to get involved with National Chemistry Week. Most involve as little as 1-2 hours of your time. Work with museum guests, or help with behind-the-scene activities, including some pre-NCW activities. All volunteers who help at NCW on Nov. 6 will receive free museum admission the day of the event as well as a NCW T-shirt.

Before National Chemistry Week:

- 1) Provide cool chemistry objects for the InfoZone Library display.
- 2) Help with museum set-up on Friday, November 5 (especially need one or two people to help lift boxes).
- 3) Be a media contact for any television spot requests.
- 4) Put up NCW posters at your workplace.

Volunteers needed on November 6 for the following:

- 1) Help at check-in area from 8 – 10:30 AM.
- 2) Staff the break area from 11:30 AM – 2 PM.
- 3) Staff NCW table, anytime between 10 AM and 3:30 PM.
- 4) Hang and remove health-related signs throughout the museum.
- 5) Check safety of NCW exhibitors to ensure that they are following the museum safety rules from 9:30 – 10:30 AM.
- 6) Judge high school contest, anytime between 10:30 AM and 2 PM.

After National Chemistry Week:

- 1) Be a presenter for teacher workshop on February 2, 2005.

- 2) Help us make the HASTI presentation free for teachers by donating to the NCW fund.
- 3) Be involved with the NEW NCW subcommittee in 2005!

Want to help? Contact Julie O'Brien at jtobrien@iquest.net or by phone at 317-276-4356.

U.S. Surgeon General's Endorsement of National Chemistry Week

"This year's National Chemistry Week focus on making healthy choices and being active will allow lots of people to live longer, healthier lives. But sometimes, the miracles of science have to step in and help out. By combining the benefits of prevention (eating well, exercising, and of course, not smoking) with the promise of scientific discovery we can ensure a healthier tomorrow for all of us." Vice Admiral Richard H. Carmona, M.D., M.P.H., F.A.C.S., Surgeon General, United States of America

TEN EASY WAYS TO CELEBRATE NATIONAL CHEMISTRY WEEK

1. During the week of October 17–23, answer your telephone announcing, "It's National Chemistry Week."
2. Telephone your favorite radio station and ask them to air a request to listeners to celebrate National Chemistry Week.
3. Wear your favorite National Chemistry Week T-shirt and ask others to wear theirs.
4. Display NCW brochures or other chemistry-related materials at your local libraries, museums, and other organizations.
5. Visit a local elementary school classroom and provide them with "Great Chemistry is Everywhere" stickers.
6. Take your family to a local science museum and point out the chemistry that is involved in creating the displays.
7. Do a hands-on activity or chemical demonstration with your family. Check the website <http://chemistry.org/ncw> for some simple examples.
8. Give a presentation to a local club, school, or other organization and explain how chemistry relates to your career.
9. Sponsor a chemistry-related contest for your students and/or community.
10. Have a "National Chemistry Week" party.

2nd Annual Chemistry Career Night Draws Record Turn Out

By Jeannie Cetusic

The 2nd Annual Chemistry Career Night hosted by the Indiana Local Section of the American Chemical Society was held on Thursday, September 23rd in the Riley Room at Butler University. A great line-up of speakers (and the promise of free pizza!) attracted a record turn out of well over 100 students from high schools and colleges across Indiana.

The evening began with an overview of the many opportunities for chemists in Indiana and in general by Dr. Lindell Ward, Professor of Chemistry at Franklin College. In addition to highlighting a number of different career options for chemists, as well as typical starting salaries for various education levels, Lindell pointed out to the students that not *all* chemists are geeks running around in white lab coats blowing things up! Kevin Willard regaled the audience with tales of his nearly 25 years with Eli Lilly and Company in synthetic chemistry in pharmaceuticals, formulation development in animal health, product manufacturing, and project management encompassing several different areas of chemistry. Kevin proved that chemistry is truly multi-faceted and that career opportunities are plentiful, even within the same company.

We then switched gears to focus our attention on academia. Dr. Robert Pribush, Chemistry Professor at Butler University, demonstrated his passion for his work in a very thorough account of what it takes to be a college professor, while Amie Williams took us a step back to consider what graduate school in chemistry is like. Amie is a graduate student in the chemistry department at Indiana University in Bloomington, and she explained to the students what each year in graduate school typically requires. Dr. Jacqueline Rosales then took the stage to tell us about a number of two-year technology degree programs offered by Ivy Tech State College in Lafayette, Indiana. Dr. Rosales described the Chemical Lab Technician, the Forensic Lab Technician, and the brand new Biotechnology Lab Technician programs which she directs.

The last two speakers of the evening discussed more non-traditional but increasingly popular career paths. Professor Jay Siegel, director of IUPUI's brand-new bachelors program in Forensic and Investigative Science, dispelled the myth that real forensic science has anything to do with what happens on CSI. He emphasized that forensic science is very pragmatic and multidisciplinary in nature. It employs the principles of chemistry, physics, biology, and mathematics, as well as social science theory and law, to help solve crimes and serve justice. Dr. Kevin McLaren, lawyer with Barnes & Thornburg, discussed

(continued on page 4)

2nd Annual Chemistry Career Night (Continued from page 3)

opportunities in intellectual property law for scientists. Kevin helped students understand the differences between copyright, trademark and patent law as well as the advantages and disadvantages of being a patent agent versus a patent lawyer. Best of all, he gave away prizes for students who answered his questions correctly!

The evening ended with a roundtable discussion in which all of the speakers and a few invited guests fielded questions from the audience. Joining the speakers were Dr. Richard DiMarchi, chair of the Biomolecular Sciences department at Indiana University, and Tracey Ward, chemist at Elanco Animal Health. The discussion was quite lively with several questions directed to Professor Siegel about the emerging field of forensic science. For their participation, all students received a Chemistry Career Night t-shirt (in color this year!) and speakers received highly coveted Mole stainless steel travel mugs.

All-in-all, the 2nd Annual Chemistry Career Night was a great success. Special thanks go to Lindell Ward, Bob Pribush, Scott Holmstrom and Angela Bridges for helping to organize this awesome event.

5th Annual Poster Session Is a Success!

By Hilary Eppley

On Monday October 11, the Indiana Section of the American Chemical Society hosted its 5th Annual Poster Session in the newly renovated Julian Science and Mathematics Center at DePauw University. The event attracted poster presentations from industrial scientists, undergraduate and graduate students from across central Indiana. The event was co-sponsored by Dow AgroSciences and Eli Lilly and Company with additional support from the Local ACS Section, Butler University, and DePauw University. 120 people attended the event and 69 posters were featured. Participants hailed from Franklin College, DePauw University, Indiana State University, Rose-Hulman Institute of Technology, Wabash College, Earlham College, Butler University, Ball State University, and IUPUI (Schools of Medicine, Informatics, and Science). In addition, high school students from the ACS Project SEED program and the 2003 Chemagination winners from University High School in Indianapolis also presented posters. Industrial scientists from Eli Lilly and Company and Dow AgroSciences participated as well.

At the poster session, the Local ACS Section highlighted its accomplishments from 2003 and its three recent ChemLuminary awards, including one for the 4th Annual ACS Poster Session held last year at Eli Lilly! In addition to the poster presentations, attendees were treated to tours of the newly renovated facilities, including a museum quality interactive periodic table. A presentation on the National Historical Chemical Landmark at DePauw in honor of the prominent African American chemist, Percy Lavon Julian, and his work on the synthesis of natural products was also part of the tour. Dr. Tom Sparks, an Advisor at Dow AgroSciences, gave the keynote address on the history of the science of the natural product-based insecticide Spinosad and related compounds in the talk entitled "Discovery Research: From Questions to Molecules." Next year the poster session will be held at Dow AgroSciences, and all are encouraged to attend!

Welcome, New Members of the Executive Committee!

Kids and Chemistry Chair – *Jaclyn Barrett*

Jaclyn recently graduated from Butler University with her BS in Chemistry. While at Butler, she interned at the FDA and participated in a summer National Science Foundation-Research Experiences for Undergraduates program at the University of Cincinnati. In late July 2004, she joined Eli Lilly and Company working in an Analytical Technologies Physical Properties group. She has volunteered to take over the Chair position of Kids in Chemistry for our Local Section.

Project SEED Chair – *Charsetta Grant*

Charsetta Grant is originally from Owings Mills, Maryland, a suburb of Baltimore. She did her undergraduate studies at Carnegie Mellon University, where she majored in Chemistry. While at Carnegie Mellon, she also completed an MS program in Management and Public Policy. Charsetta worked for a few years as a chemist (civilian employee) for the Department of the Army and then went back to graduate school. She completed an MS at the University of Pittsburgh and a PhD at the University of Virginia in 2001. Currently, she is a Research Scientist (Chemist) in the Chemical Product Research and Development group at Eli Lilly and Company.



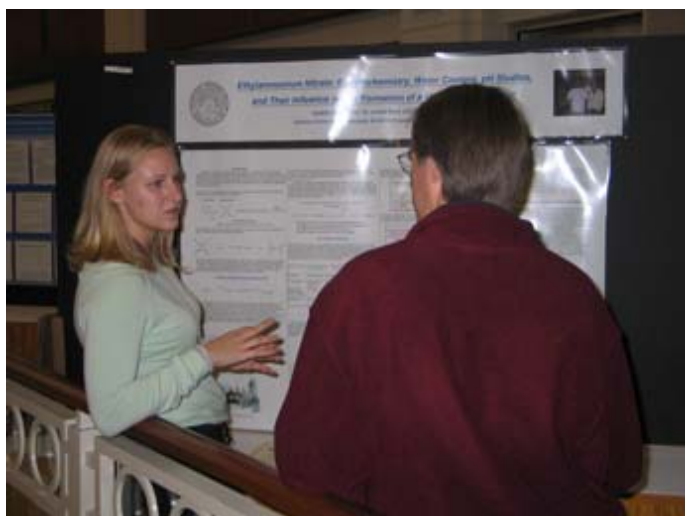
The Julian Science and Mathematics Center at DePauw University, site of the 5th Annual Indiana Section of the ACS Poster Session



Industrial attendees discuss the interactive Periodic Table of the Elements



Student presenters and attendees discuss poster presentations



Research was described to attendees

To find up to date information about Local Section activities, visit our website:

<http://membership.acs.org/i/indiana/>

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Upcoming Events

Monday, November 1

2005 Election Ballots Due

Saturday, November 6

National Chemistry Week-Children's Museum
For more information or to volunteer,
contact Julie O'Brien (jtobrien@iquest.net or 317-276-4356)

Wednesday, November 10

National ACS President-elect Bill Carroll
Dinner and Presentation at Lilly Corporate Center
RSVP to Marty White BY November 5, 2005
By phone (317-276-4506) or email (WHITE_MARTHA_P@LILLY.COM)

Wednesday, November 24

Local Section Membership Survey Due to
Marshall Parker, Membership Chair, at mparker2@dow.com
Entry into a drawing for gift certificates for those who return surveys by
the deadline!

ACS President-Elect Bill Carroll to Visit Indiana Section!

By Laura Slocum

The Indiana Section is honored to provide you with an opportunity to meet Bill Carroll, President-Elect of the American Chemical Society, on Wednesday, November 10th. The dinner meeting will be held at Eli Lilly Corporate Center at 6:00 PM. Bill's presentation, Enterprise 2015, will start at 7:00 PM. The cost for the dinner will be \$15.00 and you must RSVP to Marty White BY Friday, November 5th. You can reach Marty at 317-276-4506 or via e-mail at WHITE_MARTHA_P@LILLY.COM.

The Accelerator Newsletter

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Indiana Section

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