



The

Indiana Section of the American Chemical Society

Accelerator

Visit our website: <http://www.franklincollege.edu/indyacs>

Chair's Corner

Hello everyone, I hope that 2005 is treating you as well as it has me. It looks as if we have made it through one more Indiana winter which should make everyone smile (especially my Georgia-born wife).

With spring upon us and summer just right around the corner, let me inform you of what events the local section is planning. Our program chair, Jeffrey Ward, has been hard at work to plan some very exciting events for our members and the local community. In April, we will be hosting Dr. Steven Nawrocki for a talk titled "Helping the Dead Speak with Forensic Anthropology." With the popularity of forensic science in television programs, this event should appeal to a wide audience. The presentation and dinner will be held at the University of Indianapolis on April 26th. Look for more details in this newsletter or on our website <http://www.franklincollege.edu/indyacs>.

In May, we will hold our annual Awards Banquet honoring high school students from the local section. Butler University will host this event. We will send a postcard and emails announcing the event closer to the date.

Over the summer months, we have planned for another baseball outing and a chemistry of wine program at a local vineyard. Stay tuned to the newsletter and website for more information on these events.

I would like to thank everyone who has attended a meeting or multiple meetings this year. The program we put together is for our members, and it is very rewarding to see members attend and enjoy the events. To those of you who have not been to a monthly meeting, I urge you find one and mark it on your calendar. And as always, if you have an idea for an event or how to make an existing one better, please feel free to contact me about this. I hope to see you at our next meeting.

Lindell Ward, Section Chair

NEW WEBSITE!

Check it out at: <http://www.franklincollege.edu/indyacs> get news and info about upcoming local section events, committees and programs!

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Newsletter Editor

Annette Vitale Brown
abbrown@dow.com

Publicity Chair

Brian Mathes
mathes@lilly.com

Section Chair

Lindell Ward
lward@franklincollege.edu

The Indiana Local Section of the American Chemical Society publishes the Accelerator four times a year. The Section is not responsible for statements or opinions printed in this publication. The Editors are responsible for all unsigned and staff articles.

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To find up to date information about Local Section activities,
visit our website: <http://www.franklincollege.edu/indyacs>

Do we have your email address?

Every month our section sends out an email reminder about upcoming activities. If you have not been receiving our monthly email reminders, please contact the National Office to change your information at: 1-800-333-9511, or go to the National website to update your information:

<https://acswebapplications.acs.org/applications/addrupdate/addrchange.cfm>

You can change your address here as well. Your help will assist us in managing our membership list and keep you informed about section events.

Brian Mathes, Publicity Chair



Mark your calendars now!

National Chemistry Week 2005

**The Joy of Toys!
Saturday, November 5**

The Children's Museum of Indianapolis

Chemagination: Celebrating Visions of our Chemical Future

Somehow, the room has time-shifted. You've been transported twenty-five years in the future and are chatting with bright young high school students about new developments in the chemical sciences. They are enthusiastically reporting to you how these new breakthroughs are changing lives of teenagers and their families across the globe.

No, you are not dreaming. You are participating in a contest sponsored by the American Chemical Society.

Chemagination asks student teams to envision a development to be covered in an issue of ChemMatters magazine twenty-five years in the future. The team must research current chemical literature, design and write the article for ChemMatters, and present the idea in a science-fair format. Teachers have commented that this program seems to enliven chemistry for many talented students who were not previously enthusiastic about science.

This year, the Indiana Section of the American Chemical Society sponsored our local Chemagination at the University of Indianapolis. Our Chair of Education, Dr. Katherine Stickney, presided. Five contestant groups from two area high schools participated.

Because each category is judged separately, there are three first place

teams (one each in three of the four possible categories). First place winners will proceed to the National Chemagination Contest in Washington DC.

The winners in each category are:

Alternate Energy: First Place Winner "Enzymatic Fuel Cells: The Power Source of Now", Joy Hwang and Joshua Hutchins; Carmel High School

Alternate Energy: Second Place Winner "Magnetic Rotary Engines: The New Gas Saver" Adlam and Senetar; University High School

Medicine: First Place Winner "The Sober Wheel: The Clear-Headed Decision" Steele, Girvin, and Troy, University High School

Medicine: Second Place Winner "STD Vaccinations" Thompson, Campbell and Karimi, University High School

New Materials: First Place Winner "The CCHS: Advent of a Fashion Revolution" Kozey, Newell and Williams, University High School.

Ann Cutler, Member at Large

Are You 35 or Younger?

Wanted: Help with YCC Initiatives!

The Indiana Section is looking for a few (or more) good people to help plan our Younger Chemists' Committee's established award winning activity, the annual Local Section Poster Session as well as some possible new activities such as mentoring, social gatherings, etc. Do you have some of your own ideas about how to have a fun and active Younger Chemists group? If you would like to be a participating member of the Indiana Local Section YCC, contact Hilary Eppley, YCC Chair, at heppley@depauw.edu or (765) 658 4603 to get involved!

April Speaker Spotlight:

Stephen P. Nawrocki, Ph.D., D.A.B.F.A. “Helping the Dead Speak with Forensic Anthropology.”

Dr. Nawrocki is a Professor of Biology and Anthropology at the University of Indianapolis, where he has taught anatomy, osteology, and human biology since 1991. He received his B.A. in Anthropology and Psychology from the University of Maine at Orono in 1985, and his M.A. and Ph.D. in Anthropology from the State University of New York at Binghamton in 1990 and 1992. His research interests include the determination of age and ancestry from the skeleton, environmental processes affecting buried human skeletal remains, and forensic archeology. Dr. Nawrocki has considerable field experience, ranging from the excavation of a 17th century fort on the coast of Maine to the disinterment of 81 burials from a late 19th century poorhouse cemetery in upstate New York. He currently serves as a Consulting Forensic Anthropologist for police, coroners, and pathologists in the Midwest, having assisted in over 200 human remains cases to date. In his capacity as Director of Osteology for the University of Indianapolis Archeology and Forensics Laboratory, he has assisted the Indiana Department of Natural Resources on numerous lectures for state and local agencies at educational seminars around the country. He is one of only 60 Board-Certified Forensic Anthropologists working in North America. In 1999, Dr. Nawrocki was named “Teacher of the Year” at the University of Indianapolis, where he also received the Brooker Teaching Award for the Sciences in 1993.

See Stephen Nawrocki speak at our April meeting!

April 26, 2005 —

University of Indianapolis,
Schwitzer Center Room 10,
Trustees Dining Room.,
dinner at 6pm, \$12, seminar 7pm.
RSVP by April 22nd to Kathy Stickney at
kstickney@uindy.edu or 788-3552.

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get news and info about upcoming local section events,
committees and programs!

Call for 2005 OCA Nominations

The Overcoming Challenges Award (OCA) acknowledges the efforts of women and undergraduates who have overcome economic, personal, and/or academic hardships in pursuit of an education in the chemical sciences. The award consists of a plaque, a \$250 honorarium, and \$1,000 for travel expenses to the fall ACS National Meeting where the award is presented. Award candidates must be women matriculating as an undergraduate chemical science major/minor in a two-year program or at a four-year school not granting a doctoral degree in chemical-related disciplines. Nominations are due May 1, 2005, and should be sent to: Women Chemists Committee, American Chemical Society, 1155 16th Street, N.W., Washington, DC 20036. For additional information, contact the WCC at wcc@acs.org or visit <http://membership.acs.org/W/WCC>.

Recruit a Member in 2005 and Receive a Great Gift

The 2005 Member-Get-A-Member Campaign is in full swing. This year's goal is to add one new member each day – 365 in all.

Introduce a colleague or friend to the benefits of joining ACS, and once your candidate is accepted, you'll receive a custom-made throw created exclusively for this year's initiative. Measuring a generous 57" x 43" and featuring a full size periodic table of the elements, this throw will look great spread across the back of a couch, tossed over the arm of an easy chair, or stretched and mounted for display. In addition you will be enrolled in the President's Club and your name will appear in the February 13, 2006 issue of Chemical & Engineering News.

You are entitled to nominate as many candidates as you like during the campaign using a separate Member-Get-A-Member application form for each nomination. (Please be aware that the program does not apply to student affiliate recruits, i.e. undergraduate students.)

Please help us reach our goal of 365 members in 2005. Look around at meetings, in your office or lab. Who do you see who belongs in ACS but has not, as yet, joined? Find someone? Then get the ball rolling by going to chemistry.org/membership/mgm.html and downloading an application.

Franklin College Hosts Tour Speaker and Large Audience

On March 1st, 2005, the Indiana Section of the American Chemical Society hosted its first tour speaker of the year at Franklin College Chapel. Professor Joseph Vinson from the University of Scranton, presented a talk entitled "The Chemistry of Marijuana in Humans." The function was well attended, with 85 people present, and the audience ranged from high school students to retirees. Dr. Vinson introduced this topic by reviewing the history of marijuana throughout civilization. The majority of the presentation centered on the active molecules in marijuana and how they are metabolized in the human body. Thanks to all who came out for this interesting subject!

Lindell Ward, Section Chair

Professor Vinson and Lindell Ward at the "Chemistry of Marijuana in Humans" Meeting



Professor Vinson speaks with audience members after the meeting



Spring is in the air...

...and it is time for baseball again. The Indiana Section will be hosting its 4th annual baseball night at Victory Field on July 19th at 7PM. The Indians will be taking on the Syracuse Sky Chiefs. Back by popular demand will be baseball trivia with a chemistry twist. The ticket price will be \$7 a person. If interested in going, contact Brian Mathes at mathes@lilly.com by July 11th.

Call for Nominations

The Committee on Minority Affairs is soliciting nominations for the Stanley C. Israel Regional Award for Advancing Diversity in the Chemical Sciences.

Nominees for this award may come from any professional setting: academia, industry, government or other independent facility. ACS local sections and divisions also are eligible for nomination. The awardees will have increased the participation and leadership of persons from diverse and underrepresented minority groups, persons with disabilities, and women through mentoring, hiring, promotion and/or other activities that lead to greater inclusiveness within the chemical sciences.

These awards are for each of the Regional Meetings taking place in the calendar year. For information please contact Stephanie R. Allen, ACS Department of Diversity Programs, (800) 227-5558, ext. 6262.

Local ACS Section Sponsors Chemistry Awards at the Central Indiana Regional Science Fair

The 52nd Central Indiana Regional Science and Engineering Fair, hosted by the University of Indianapolis from March 22 to 23, was attended by approximately 900 students from the metropolitan Indianapolis area. There were many outstanding student-designed projects competing in the two-day event, which was made possible by support from the R. B. Annis Educational Foundation, the D. J. Angus Sciencetech Education Foundation, the Sciencetech Club, Davidson Industries, and Roche Diagnostics Corporation.

The Indiana Section of the American Chemical Society sponsored awards for the top chemistry projects at the fair. Each student-awardee received a T-shirt and a certificate noting his/her excellence in chemical experimentation. Special thanks go to Julie O'Brien of Eli Lilly and Company who designed the T-shirts and made this award possible, and Lilly and Dow AgroSciences for funding the award. The Indiana Section would like to recognize and congratulate the following students for their excellence in chemistry—keep up the good work!

Elementary Division (1st through 4th grades)
Arnold Wornhoff and Kelsie Nora (Central), Robby Morelock (Central—Lebanon), Grace Brackemyre (Hoosier Road), Timothy Van Attler (Central), Rachel Senseman and Courtney Hudson (White River), Emilee Abercrombie (Needham), Stephanie Timm (Central), Tobi Gbile (Kingsway Christian), Dominique Shelby (Alternative Learning Academy), Taylor Gentles (Durbin), Lane Matthews (Sugar Grove), Olivia Dell (Perry-Worth), and Kellie McAllister (Homecroft).

Upper Elementary Division (5th and 6th grades)
Shelbie Martin (Mount Vernon), Andy Stautz (Sycamore), Zach Crist (IPS # 84), Maria Hamdouchi (International School), Gabby Reed (Shelbyville), and Rachel Rund (South Grove).

Junior Division (7th through 8th grades):
Sydney Moulton (Craig), Rachel Johnson (Our Lady of Grace), Otto Sipe (St. Luke), Lauren Stephens (Sycamore), Alex Sventeckis (Sycamore), Hillary Kaub

(Noblesville), Karl Knight (St. Mark), and Katy Burkert (St. Matthew).

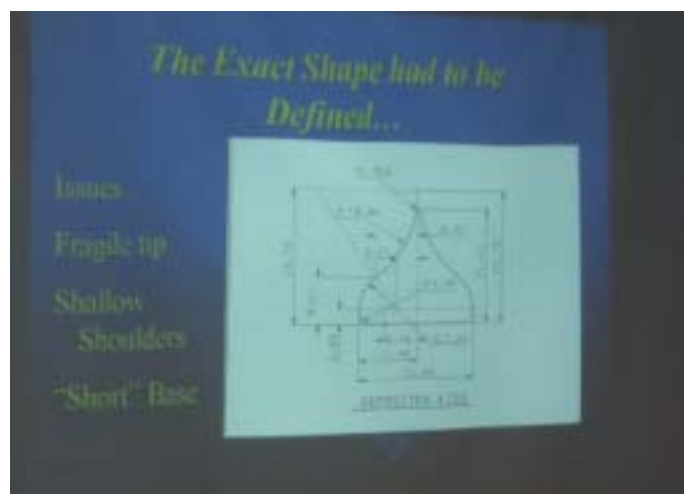
Senior Division (9th through 12th grade):
Tyler McKinney (Franklin Central), Safaa Aref (School of Knowledge), Jesse Hutton (Shelbyville), Bradley Fields (Noblesville), Joe Edenborough (Noblesville), Allison Lange (Noblesville), Ben Farthing (Heritage Christian), Jessica Kerns (Noblesville), Troy Tomasik (Heritage), and Melanie Hoffman (Heritage).

Melanie's project "Rat and Canine Gene Expression Analysis: a study of LPS-induced liver inflammation and antioxidant cytoprotection" also won 1st place overall for the entire science fair.

There were many excellent projects, and this award would not have been possible without the assistance of the chemists serving as judges. We are indebted to the following ACS members for their professional expertise in judging the chemistry projects: Joe Burnell and Kathy Stickney (University of Indianapolis) and John Wyeth (independent consultant).

Kathy Stickney

The Science of a "Kiss"...Craig Moyer presented the "Chemistry of Chocolates" at our March local section meeting. A scheme depicting the exact dimensions of a chocolate "kiss" is shown below.



To find up to date information about Local Section activities,
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Mark your calendar for these **UPCOMING EVENTS!** **Spring/Summer 2005**

- **April 26...Steve Nawrocki presents “Helping the Dead Speak with Forensic Anthropology.” 6 PM, University of Indianapolis, Schwitzer Center Trustees Dining Room. Dinner- \$12, RSVP by April 22 to Kathy Stickney, kstickney@uindy.edu, 317-788-3552.**
- **May 3...2005 Awards Ceremony. 6 PM, Butler University Krannert Room. RSVP by April 27 to Marty White, 317-276-4506.**
- **June...Ice Cream Social at Eagle Creek, details coming soon!**
- **July 19...Indiana section night at Victory Field. Indianapolis Indians vs. Syracuse Sky Chiefs, 7 PM. Tickets and RSVP – TBA.**
- **August 25...”The Chemistry of Wine” Bill Oliver, Oliver Winery, more details coming soon!**

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Indiana Section
P.O. Box 1291
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