



The

Indiana Section of the American Chemical Society

# Accelerator

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

## Chair's Corner

Chair's Corner March 10, 2006

Volcanoes. Beans growing under colored lights. Trying to dissolve sugar in olive oil. The staples of the grammar school science fair. Every year thousands of young students trot out these tried and true experiments in gymnasiums and cafeterias through out the world. Sometimes the students are just going through the motions, but often times these experiments entice them to investigate their world further using science as the tool.

In May, Indianapolis hosts the International Science and Engineering Fair, a science fair on steroids. Over 1400 students from around the world will be descending on Indianapolis to show off their scientific stuff. These students will be competing for over 3 million dollars in awards and scholarships. That is quite an upgrade from the usual certificate and ribbon.

In order for this event to be successful, the organizers need

volunteers to work the event. In fact they need about 1000 to run the event smoothly. I am inviting you all to find the time, even if just for a few hours, to volunteer at this event. The website for volunteering can be accessed through the section web portal or at this address... <http://www.sciserv.org/isef/volunteers/volform.asp>. I guarantee it will be a rewarding experience.

I judge a few fairs each year and nothing makes me giggle more inside than hearing a student hypothesize that their cactus plant will grow faster with rap music (especially when exposed to just 3 minutes a day for 2 weeks...Mom couldn't stand any more than that...true story) but on the other hand nothing makes me feel better at the fair than to see a student make the scientific connection and look deeper into why they got the result they received. I hope you feel the same way and make time for this event.

Brian Mathes, Chair

## Section Meeting Notes

### No, Mountain Dew in a Cup Won't Fool Anyone...

Our 2006 program began on January 18<sup>th</sup> with our first guest speaker of the year, Dr. Peter Method, director of the Indiana Dept. of Toxicology. His "Forensic Toxicology" presentation focused on Indiana's Impaired Driving Program and the analytical techniques involved in determining if a driver was operating a vehicle while intoxicated. The talk was very interactive, and Dr. Method was nice enough to dispel our myths about breathalyzers, urine tests and the possibility of instantaneous results on TV shows like "CSI". Before

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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>

## Section Meeting Notes

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the presentation, the group enjoyed a gourmet dinner prepared by the University Place Conference Center at IUPUI.

### Could *Jurassic Park* Really Happen?

Our first ACS tour speaker, Thomas Holme, a professor at the University of Wisconsin at Milwaukee, stopped in Indianapolis on February 15<sup>th</sup>. Our local section met at a new location, Sahm's at the Plaza, located in the First Indiana Plaza on Pennsylvania downtown. After filling up at the buffet and cookies, we were treated to a very stimulating talk about science fiction molding society's view of science. He also discussed the predictive quality of science fiction, and had the audience recall things we use everyday that were introduced in early science fiction stories and movies. Professor Holme did a great job making the audience think about their own perceptions of science, in reality and fantasy!

# Intra-Section Travel Awards

The Indiana Section is interested in helping facilitate intra-section communication and research. We believe that research presentations and seminars will help deepen the research ties of our section and perhaps increase research cooperation and equipment sharing between institutions in the section. To this end, the Indiana Section announces our Inaugural Intra-Section Travel Awards. The section will provide up to \$300 to help defray the cost of travel and presentation of research at other institutions in the Section. These researchers may come from academia, governmental, or industrial groups. As an example, we hope that it will encourage researchers from DePauw to go and visit Ball State to present their research and perhaps go out for lunch or dinner with key members of the faculty to see what sort of collaborations or ideas can be shared. Proposals can be sent year round to Brian Mathes at the following address.

Brian Mathes  
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If you have any further questions please email Brian at [mathes@lilly.com](mailto:mathes@lilly.com).

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

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## Over 1000 General Volunteers Still Needed for International Science and Engineering Fair - May 7-12, 2006

The Intel International Science and Engineering Fair will be held at the Indianapolis Convention Center in May, 2006. About 1,500 of the most creative and intelligent high school students from the U.S. and 40 other countries will bring their incredible science and engineering projects to Indianapolis to compete for \$3 million in scholarships, tuition grants and scientific field trips. The total attendance will swell to around 7,500 with judges, teachers, parents and notables such as Nobel prize winners. The nine Nobel Laureates who attended the 2005 event in Phoenix came "to see what our future will look like" according to one of them.

**More than 1,200 general volunteers will be needed to work 4 to 8 hour shifts across eight days beginning on Friday, May 5 and ending on Friday, May 12, 2006, to help make this global event successful. General volunteers will be staffing registration booths, the ISEF gift shop, shipping and receiving, and special events, as well as help with activities when Indiana's middle school students come to visit the fair.**

The students showing their projects need your help as a volunteer. We guarantee that you will enjoy the opportunity to interact with them. To sign up as a volunteer, please go to the **on-line sign-up form** at:

**<http://www.sciserv.org/isef/volunteers/volform.asp>**

If you are interested in learning more, visit the website: [www.intelisef2006.org](http://www.intelisef2006.org) .

If you have questions, please contact:  
Email: [volunteers@sefi.org](mailto:volunteers@sefi.org)

**ATTENTION! ATTENTION! Vote by e-mail!! Help us get a quorum!!**

**Help us improve the Indiana Section Bylaws!!**

The Executive Committee of the ACS Indiana Section has been in communication with the national ACS Committee on Constitution and Bylaws in an effort to update the language of our Section bylaws, to remove the requirement for mail ballots to be used for elections, to adjust certain dates specified for our nomination and election process, and to reduce the number of members needed for a quorum.

The proposed amendments to the Indiana Section bylaws are summarized below, and the Executive Committee urges you to vote to approve them. They will be presented for a vote at the meeting of the Section to be held on April 11, 2006, at the Lilly Corporate Center; see the announcement of that meeting elsewhere in this ACCELERATOR.

**However**, the voting will be governed by the present wording of the bylaws, and they require a **quorum of 10% of the Section's membership**, or nearly 150 persons! We will be delighted to see that many of you on April 11 (**remember: free wine & cheese reception and an outstanding speaker!**), but we also have an alternate plan – you can vote by e-mail. Here's how: we have an e-mail directory for the Section and almost all of you are on it. We will send you as attachments the modified bylaws, a description of the changes, and a ballot document. You can fill out the ballot and e-mail it back to us, or else bring it with you on April 11 if you'd prefer. [If you do not routinely get our e-mail announcements you can request a ballot and the other information from [annhunt2@comcast.net](mailto:annhunt2@comcast.net).] Remember, please vote!!

### **Summary of Proposed Bylaw Amendments**

- (1) Bylaw IV: How to become a Local Section Affiliate is made more clear (fill out an application, pay dues). Grammar is improved in one section.
- (2) Bylaw V: Language is made gender-neutral (also occurs in Bylaw VI) – change “Committeemen” to “Committee Members-at-Large”.
- (3) Also Bylaw V: Specific reference to a numbered bylaw is removed, so that another amendment will not be required if the bylaw number is changed later.
- (4) Bylaw VII: Words “mail”, “unopened”, and “envelope” are removed from a discussion of elections, so that the method of voting is left unspecified. The phrase “in accordance with the provisions of the Constitution and Bylaws of the SOCIETY” is inserted to describe the conduct of Section elections. Grammar is improved in one section.
- (5) Also Bylaw VII: Deadlines for nominations by the Nominating Committee and by petition from members are revised from June 1 and August 1 to August 1 and September 1, respectively.
- (6) Bylaw X: An upper limit on the number of Section meetings per year (9) is removed.
- (7) Also Bylaw X: The definition of a quorum is reduced from ten percent of the Section's membership to five percent.
- (8) Also Bylaw X: An edition of Robert's Rules of Order is specified to be used when necessary.
- (9) Bylaw XI: Wording is revised to make more clear that the Executive Committee is responsible for setting the amount of (voluntary) Local Section dues.
- (10) Bylaw XIII: Insertion of the words “Committee on Constitution and Bylaws, acting for”



## **April 11<sup>th</sup> Meeting offers networking reception and an update on ACS PROGRESS for Women Chemists and Chemical Engineers!**

**Wine & Cheese Reception starts at 5 pm at the Lilly Corporate Center, B93 Mezzanine with presentation at 5:45 pm.**

**Plan to join us for this free event to visit with old friends and meet new ones!**

*Non-Lilly guests, please RSVP with Marty White (276-4506) by April 7. Contact Dawn Brooks (433-4950 or brooks\_dawn\_a@lilly.com) with any questions about the meeting.*

Helen M. Free, ACS-Past President, joins the Indiana Section on April 11th for a talk on PROGRESS. PROGRESS was a three-year pilot project launched in 2002 to develop, test, and evaluate 7 new programs aimed at facilitating the full participation and advancement of women chemists and chemical engineers. Its goals are to assist entry-level professionals find employment and guide and support early and mid-career professionals seeking advancement.

Helen holds a bachelor's degree in Chemistry from the College of Wooster, a master's degree in management in the health care field from Central Michigan University, and honorary doctorates of science from both schools. She joined Miles Laboratories (now Bayer Healthcare) in 1944, and her career includes wide experience in laboratory work, management, growth and development, manufacturing, and marketing related to her main interests in the field of clinical chemistry and medical devices, and in management in the health care area. She holds several patents and has published over 200 papers. She has also held many elected positions in scientific societies, including president of the American Association for Clinical Chemistry in 1990 and president of the American Chemical Society in 1993. Among her national awards are: the ACS Garvan medal, the Hall of Excellence of the Ohio Foundation of Small Colleges, and the Kilby Foundation Award. She and her husband were married for 53 years when he died in 2000 (9 children). Together they were honored by Medical Economics Press and the Laboratory Public Service National Leadership Award. They were inducted into the Science and Engineering Hall of Fame and the National Inventors Hall of Fame for their work on the development of urinalysis reagent strips and self tests for blood glucose used worldwide by persons with diabetes.

## **37<sup>th</sup> Central Regional Meeting to Take Place in May**

The Central Regional Meeting (CRM) will take place May 17 – 20, 2006, in Frankenmuth, Michigan, during their World Festival of Beer. CRM will open with Jean Michel Cousteau speaking on Ecology and Economics of the Sea and end with a two-day silicon symposium with many exciting programs in between. Visit their website at [www.crm2006.org](http://www.crm2006.org).

## **37<sup>th</sup> Great Lakes Regional Meeting Scheduled for Milwaukee**

The Great Lakes Regional Meeting (GLRM) takes place in Milwaukee, WI, May 31 – June 2, 2006. Advance registration is still open online or you can download a form at <http://alchemy.chem.uwm.edu/GLRM06>. Polyoxometalate Chemistry, Supramolecular Chemistry, and Perspectives and Recent Advances in Organophosphorus Chemistry: A Symposium in Honor of Professor Sheldon Cremer is among the symposia they have planned. Planners have also scheduled tours of the Aldrich Chemical Company's new headquarters and of the S. C. Johnson Company's building designed by Frank Lloyd Wright.

## **Invitation for Feedback on the ACS Approval Guidelines**

The ACS Committee on Professional Training (CPT) is undertaking a major revision of the ACS Guidelines for approval of bachelor's degree programs in chemistry. The goals of revising the ACS guidelines include:

- Simplifying the ACS guidelines for approval of chemistry programs
- Allowing greater flexibility for departments to develop certified degree tracks
- Encouraging department-initiated innovation and curriculum improvement
- Providing faculty and infrastructure requirements that support excellent chemistry programs.

The overview of the proposed revisions to the ACS guidelines that CPT is considering can be accessed from the CPT website at [www.chemistry.org/education/cpt](http://www.chemistry.org/education/cpt). CPT invites you and your department to respond to these proposed changes by June 1, 2006, and thereby contribute to the ACS guidelines revision process. Please send comments to CPT by email to [cpt@acs.org](mailto:cpt@acs.org) with a subject of "ACS Guidelines Revision."

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## **Revising the ACS Guidelines for two-year and four-year programs: A community dialog of issues and opportunities**

## **19th Biennial Conference on Chemical Education July 30-August 3, 2006 Purdue University**

Most four- and two-year college faculty members are familiar with the ACS Guidelines for chemistry programs in four-year colleges and universities. On behalf of ACS, the Committee on Professional Training (CPT) approves departments or programs that meet the guidelines, and chairs certify those students who have met the curricular guidelines of the approved program.

Many members however remain unaware of another resource, designed specifically for two-year programs by the Society Committee on Education (SOCED). Although the Guidelines for Chemistry Programs in Two-Year Colleges are not used in any formal ACS approval process, they do serve as a guide for institutional self-studies and program reviews. The Guidelines for Chemistry Programs in Two-Year Colleges are focused on transfer programs and should be revised to reflect the revisions being made to ACS Guidelines for four-year programs.

SOCED and CPT have begun a dialog about the respective revisions and ways in which two- and four-year programs can work together to enhance undergraduate education in chemistry. You are invited to contribute to this discussion during the upcoming interactive symposium titled "Revising the ACS guidelines for two-year and four-year programs: A community dialog of issues and opportunities" at the upcoming 19th Biennial Conference on Chemical Education, which will take place at Purdue University, IN on July 30 – August 3, 2006.

# MEETING NOTICE!!!!



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