
Illinois Heartland ACS 2006 OFFICERS

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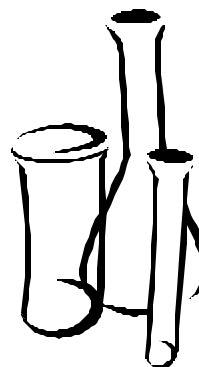
February 2006 Newsletter

<http://membership.acs.org/p/peoria>

FEBRUARY MEETING

Mr. Kevin Zeeb

Forensic Scientist
Morton Crime Lab



Forensic DNA Analysis

Thursday, February 23, 2006

7:00 pm

164 Olin Hall of Science

Bradley University

Peoria, IL

DNA analysis is a state of the art technology that is well accepted in the Scientific, Medical and Forensic community. DNA analysis is very informative and very sensitive. It allows us to gather a vast amount of genetic information from a very small amount of biological stain. DNA analysis has been in the lime light for many good reasons. DNA has exonerated the falsely accused as well as brought justice to criminals of cold cases.

Dinner with the speaker, 5:00 PM at Joe's Crab Shack in Peoria
Contact Steve Hughes (309) 681-6176 or hughessr@ncaur.usda.gov
if you are interested or if you need directions.

Upcoming Events

March 9, 2006 - Dr. Yorke E. Rhodes

Associate Professor of Chemistry; Director, Dual Degree Program in Science and Engineering - New York University

Cosmic Chemistry

7:30 PM, Lakeview Museum Planetarium
1125 West Lake Avenue, Peoria IL 61614

At the dawn of the space age in the 1960s, a handful of molecules were known to exist in space. Since those days of early robotic exploration of the Moon and Mars, fly-bys with instrumental analysis of the outer planets, and radio astronomy of distant areas of our own galaxy and the universe have brought forth a burst of molecular information. About 120 molecules have been identified to date. What types and kinds of molecules exist? What varieties of molecular species have been found? How did they form, where do they occur, and what mechanisms exist for molecular formation? Can we model and predict what other molecules may occur? How has interstellar organic chemistry evolved? What does it all mean to us, here on Earth? Astrochemistry, the chemistry of the Cosmos, seeks to understand it.

Dinner with the speaker: 5:30 PM at Carlos O'Kelly's Mexican Cafe
714 W. Lake Peoria IL 61614 (309) 682-0606
RSVP to Vicki Finkenstadt (309-681-6469)
finkenvl@ncaur.usda.gov by March 8.

This presentation is sponsored in part by the Peoria Astronomical Society

Welcome to the Illinois Heartland!

The Illinois Heartland American Chemical Society is building a sustainable, high achievement organization of networked, caring professionals following a shared vision.

Mission

The Illinois Heartland ACS fosters the practice of and education in the chemical sciences in central Illinois and seeks to be an example at the national level of the best practices of the ACS.

Vision

The Illinois Heartland ACS is recognized and respected as an effective advocate for the chemical sciences and provides outstanding service to its members. Illinois Heartland ACS members are committed, informed, and effective leaders. Illinois Heartland ACS education programs enhance knowledge by generating, sharing and making information available to the community. Illinois Heartland ACS is a sought-after source of knowledge and objective information by researchers, educators, and the public.

We are the ACS!

The Illinois Heartland American Chemical Society has 240 chemist, chemical engineers, and educators in a 10 county area in central Illinois, including Peoria, Bloomington-Normal, Henry, Jacksonville and Galesburg. We are the local chapter of the world's largest volunteer, professional organization, the American Chemical Society (ACS). We are a 501(c)3 non-profit organization. We invest in our local community by providing science education opportunities through seminars, meetings, workshops, special activities, and partnerships with other non-profit organizations. Almost all events are free and open to the public.

April 8 - Go fly a kite!

Enjoy spring and join your ACS colleagues for Kite Day at Sommer Park (Koerner Road in Peoria). 11 am- 3 pm \$1/person or \$5/car.

April 22 - Earth Day

Dig it! - Forest Park Nature Center (5809 Forest Park Drive, Peoria Heights). 11 am - 4 pm. (donations accepted)

April 28 - Earth Day

Feathered Friends - at Glen Oak Zoo (2218 N. Prospect).
11 am - 3 pm. Regular admission (\$5/\$3) for zoo. Email Vicki (finkenvl@ncaur.usda.gov) for more information or point your browser to <http://www.peoriaparks.org>

May 3

High School Chemistry Contest at Bradley University
Contact Kathy at 309-677-3030 (Dept of Chem & Biochem) for more information.

May 11

Awards & Recognition Banquet

Guest Speaker: 2006 Distinguished Scientist Joseph Nagyvary (Violin Chemistry)

Hotel Pere Marquette (\$20 person, \$10 student)



Message from the Chair



Stephen Hughes, Ph.D.
NCAUR
Peoria, IL

Hello,

It's an honor and a pleasure for me to begin serving as chair of the Illinois Heartland ACS Section. I hope I can continue in the tradition of the enthusiastic and hardworking individuals who preceded me in this office. During the past year I've had the opportunity to meet the staff who are planning the programs for this year and I know that the activities promise to be exciting, educational and enjoyable. Our primary goal is to hold meetings that present topics of wide interest, with informative and entertaining speakers, to foster interactions among ACS colleagues and between teachers and students and to provide the opportunity to network with other scientists for support and camaraderie.

We have put together a list of speakers on a variety of timely subjects, including progress in medicine, developments in the chemical industry, and advances in research. The celebration of National Chemistry Week this year will focus on innovations through chemistry in the home. An instructional session for teachers with a conference and workshop is being organized. A highlight of the year will be a special outing for the whole family. We will conclude the summer with activities representing our section at the Illinois State Fair and bringing various Illinois sections together. A highly anticipated event

is the annual Chemist of the Year banquet held in the Pere Marquette Hotel honoring the outstanding students and teachers in the section. We also have a fun-filled holiday meeting planned complete with an amazing magic act. I would like to thank you for your participation last year and look forward to seeing all of you at the meetings and events we have planned this year.

Steve

A ROUND OF APPLAUSE...

Congratulations to Jill Rockwood, our National Chemistry Week (NCW) Coordinator, who was nominated for and accepted a position on the ACS National Committee for Community Activities (CCA) which oversees many of the outreach activities of the ACS. To find out more about CCA, community activities, NCW, and Earth Day initiatives, please point your browser at: <http://chemistry.org/oca>.



Congratulations to Drs. Chris and Sharon Hamaker on the birth of their first child, Joshua Hagan Hamaker, on December 13, 2005.

Dr. David Cedeño, ISU, has been appointed by the American Chemical Society's president to serve on the Committee for Project SEED for a 3 year term. As a member of the committee, Dr. Cedeño will work to accomplish the mission of Project SEED, which is to assure that students from economically disadvantaged backgrounds have opportunities to experience the challenge and reward of chemically related sciences. Congratulations, Dr. Cedeño!

April 6, 2006 - Dr. Ned Heindel
Professor of Chemistry, Lehigh University

An Approach to Anti-Alzheimer's Therapeutics: Inhibitors of Acetylcholinesterase

7:30 PM, Umbeck Science and Math Center, Room A110, Knox College, Galesburg, IL 61401

As America's population ages, one of the fastest growing causes of death is Alzheimer's dementia. Among several physical and chemical events occurring in the central nervous systems of disease sufferers is the depletion of stored and available acetylcholine, a critical neurotransmitter. Therapeutic interventions that have sought to increase acetylcholine's biosynthesis have been unsuccessful, while several candidate drugs that retard its metabolism do seem to offer modest clinical improvement. Both reversible and irreversible inhibitors of acetylcholinesterase, with unsymmetrical choline carbonates as the basic framework, have been designed, synthesized, and tested. New synthetic approaches have been developed to such inhibitors, which release chemotoxic agents like quinone methide and haloketones at the enzyme's active site. Promising inhibitors with IC50 values in the micromolar range are in hand

Dinner with the speaker: 5:30 PM at the Packinghouse Dining Company, 441 Mulberry Street, Galesburg, IL
RSVP: Call or email Diana Cermak to make reservations or if you need directions (309) 341- 7437, dcermak@knox.edu