



INDIANA ACADEMY OF SCIENCE NEWSLETTER

Number 137

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INDIANA ACADEMY OF SCIENCE ELECTION - 2008

Candidates for President-elect

James R. Curry



James R. Curry received his PhD in ecology and animal behavior from the University of Oklahoma in 1970 and he joined the biology faculty at Franklin College that same year. During his tenure at Franklin College he served as a Professor of Biology, Chair of the Biology Department, Chair of the Natural Science Division (including math and computer science), and briefly as an Associate Dean. He has served the Indiana Academy of Science as a chair of the entomology section and since 2000 as a member of the Publications Committee. His long term study of dragonfly ecology culminated in the publication of his book “Dragonflies of Indiana” which was published by the Academy in 2001. Professor Curry retired from the teaching faculty in 2008 and was granted emeritus status. He continues to maintain an office at Franklin College and is currently publishing a book dealing with the teaching of biology to students who for religious reasons are offended by scientific concepts related to evolution. He is the recipient of three faculty awards for excellence and one for scholarship.

Ahmed Mustafa



Ahmed Mustafa received his PhD in biology from the University of New Brunswick-Fredericton in 1997. From there he accepted positions as post-doctoral research fellow and research associate prior to joining the faculty at Indiana University Purdue University Fort Wayne in 2001. He was promoted to associate professor in 2007. His teaching focuses on physiology and pharmacology and his research focuses on stress physiology of fish and shellfish while attempting to identify the physiological, endocrinological and immunological changes that occur in stressed animals. In 2004 he received the Advisor of the Year Award. In 2007 he received the Sigma Xi Teacher of the Year Award and in 2008 he was awarded the Students Choice Award for Teaching Excellence. He is editor of BIOScope the IPFW Biology department newsletter. He has been an active member of IAS since 2001. He regularly presents his work and that of his students at Academy meetings.

Candidate for Treasurer

Edward L. Frazier received his MAT in biology from Indiana University in 1960 and is retired after a career of many years at Speedway High School. He has been active in the National Science Teachers Association serving on the Board of Directors, Executive Committee and Comptroller; the National Association of Biology Teachers as Secretary/Treasurer for two years, and the Hoosier Association of Science Teachers as President and Treasurer from 1985-2006. He has served the Indiana Academy of Science on numerous committees most notably as Parliamentarian and Treasurer from 1991-2008.

Candidate for Academy Foundation

Frank A. Guthrie is Professor Emeritus of chemistry at Rose-Hulman Institute of Technology following 42 years on the faculty. He has been a member of the Indiana Academy of Science for over 50 years. He was Treasurer from 1966-68, became President and was elected a Fellow in 1970. He was elected as a member of the Academy Foundation in 1986 and has served continuously since and as chair most or all of those years. In addition, as chair of the Academy Foundation, he serves on the Executive Committee and Budget Committee.

Candidates for Research Grants Committee

Anne M. Wilson received her undergraduate degree from Oberlin College and PhD at the University of Utah prior to a postdoctoral appointment at Florida State University. In 1996, she began her career at Butler University where she has been teaching organic chemistry and doing undergraduate research ever since. She is the current president of the Cobalt Chapter of Iota Sigma Pi, and a member of the American Chemical Society and the Council for Undergraduate Research. She has mentored several student presentations at IAS meetings.

Steve Kristoff received his undergraduate degree in astrophysics from Indiana University in Bloomington and his graduate degrees in medical biophysics from IUPUI. He has taught at both the high school and college level since 1985. He is currently an Associate Professor and Program Chair for Math and Science at Ivy Tech Community College in Lawrenceburg. He has taught a variety of courses at Ivy Tech, including General Biology, Human Physiology, Microbiology, Physics, Chemistry, and Algebra. Steve is a participant in the RiverWatchers volunteer monitoring program, incorporating real-time Ohio River data into his class lab activities.

Guidelines for Abstract Submission for the Fall Meeting

Deadline: Your completed abstract must be emailed to **de3@evansville.edu** by **Monday, September 1**. If you have any questions regarding abstract submission, please contact **Dale Edwards** (de3@evansville.edu; phone: 812.488.2645).

Abstract Preparation: Your electronic abstract must be sent as an attachment in a formatted, single-spaced Word document using Times-Roman 12-point type. Abstracts must be limited to 300 words, not including the title, list of authors, and affiliations. Please remember to italicize any scientific names.

Abstracts should be preceded by a title in bold font with title case. End title with a period. On a separate line below the title, type the name of the author(s), institution(s), department, city, and state. The name of the presenting author should be in bold font. There should be one line space between the author and institution line and the main text of

the abstract. Begin the text of the abstract flush with the left margin. An example of a properly formatted abstract is provided below:

Foraging Ecology of Cerulean Warblers in Southern IN.
Lila C. Prichard and Kamal Islam, Department of Biology, Ball State University, Muncie, IN

The Cerulean Warbler (*Dendroica cerulea*) is a small Neotropical migrant.

Oral versus Poster Presentations: The meeting can accommodate approximately 20 poster presentations. On a separate line below the abstract, indicate whether you would prefer to give an oral or poster presentation. The limited number of poster presentations allotted for the meeting will be assigned on a first-come, first-served basis. Posters should be approximately 36" high x 48" wide.

Summer - Fall Seasonal Thoughts from the IAS President

I have always enjoyed my summers. I have been fortunate enough to do something *different* just about every summer that I can remember, from carefree days in grade school (no classes!) to actually having, as a faculty member, the time and opportunity to do field work (no classes!) and travel, either on vacation or on a research project.

This summer has not been different. I finally took the opportunity to visit the Finger Lakes Region in upstate New York and also the coast of Maine. If you were an undergraduate taking geology courses at Purdue in the 60's, you may remember these areas from the maps in the geology lab manual. It was a treat to finally, after almost 50 years, actually see what I had only imagined.

And then Fall—time to share summer experiences. This is where the Indiana Academy of Science sections come in. They are the forum for us to share experiences.

What would you want to share with your colleagues this fall?

In addition to the science part of the section meetings, I would like to hear your comments about the Academy. Are we in the Stone Age having Spring and Fall meetings in the format we currently use? Is this what you as Academy members want? What other good ideas do you have to share?

Do discuss Academy business at your section meeting! Some sections have had limited activities these last few years. Is it time to de-activate or re-activate?

And what can we do better to increase the science literacy level in Indiana? How can we reach out to more people, especially young people with questions ranging from the simple, “Why is the sky blue?” to complex inquiries on ecosystems.



Nils I. Johansen, 2008 IAS President

Our Academy is also a forum for what I call *secondary interests*. We all selected a primary section of interest, but what have you done to foster and grow your secondary or even tertiary interest? For example, my wife and I had dinner with a friend of ours in New Harmony, Indiana. The dinner conversation was primarily about medieval manuscripts. We also talked about the magnificent cathedrals of Europe, and I found myself with a new research project—no, not the cathedrals, but the role of medieval parish churches. So, I guess I have committed myself to a future History of Science section talk.

It is your Academy. Let us share our summer experiences.

**-- Nils I. Johansen, P.E.
2008 IAS President**

Special Presentation by Kay Yatskievych Hosted by the Plant Systematics and Biodiversity Section

Kay Yatskievych from the Missouri Botanic Gardens will give a special presentation at the Fall Meeting of IAS. Kay will be speaking on the *Annotated Checklist of the Vascular Flora of Indiana* that is expected to go to press early next year. Kay will also give an update on the *Flora of North America* (FNA) series and how the changes by the Angiosperm Phylogeny Group in the organization of plant families will affect both the Indiana checklist and future FNA volumes. Kay's *Field Guide to Indiana Wildflowers* was recently reprinted and will be available.

Call for Nominations for IAS Fellow

The IAS Awards Committee is requesting nominations for IAS Fellow. Our Bylaws describe a Fellow as “A member with recognized standing as a scientist, who has contributed to the objectives of the Academy, been recognized by two-thirds of the Committee on Awards, and been approved by a majority of the members voting at the annual meeting. The title is awarded as an honor and is independent of the class of membership.”

Special consideration should be given to: length of membership in the Academy (minimum 3 years); the nature of service to the Academy and to the advancement of science in Indiana; service to education in science; and achievements in scientific research. The nature of service to the Academy means: attending IAS meetings, presenting papers/publishing in the Proceedings, serving as an officer, as a committee chair, as a committee member, playing a role in organizing Academy functions, etc.

Nominations should include a cover letter that describes the qualifications of the nominee for this award as well as a signature page signed by 2 fellows of the Academy and if possible, a brief vita for the nominee. The nomination form as well as information on IAS Awards and a list of current fellows can be found at the following URL:

<http://www.indianaacademyofscience.org/htmlfiles/awards.html>

Nominations should be sent to Dr. **Clare L. Chatot**, Chair, IAS Awards Committee, Dept. of Biology, Ball State University, Muncie, IN 47306 by September 5, 2008 for consideration for this year. Questions can be directed to the Awards Committee Chair at **cchatot@bsu.edu** or **765.285.8827**.

*-- Clare L. Chatot, Chair
IAS Awards Committee*

Senior Research Grants Program

The deadline for the Senior Research Grants Program is rapidly approaching. The grants program provides up to \$3000 for Academy members or the undergraduate or graduate students they sponsor to support the purchase of supplies, travel costs, salaries or research assistants, field costs, and limited equipment purchases. While the selection process favors applications from investigators with limited resources, start-up projects, and those with special impact on Indiana, a wide variety of projects have been funded in the past. The application deadline for this fall is **September 15**. Information on the program and directions for application are available on-line at the IAS web site. Please send inquiries and proposals to **Sandra Brake**, chair of the Research Grants Committee:

*-- Sandra Brake, Chair
IAS Research Grants Committee
sbrake@isugw.indstate.edu*

Anika Williams, IAS Librarian, Is On Maternity Leave

Expecting around September 16, Anika’s doctor has asked that she stop working. As such, she will most definitely be unable to attend the Fall Conference in Evansville and will be unavailable to assist with IAS Library/Archives maintenance, reference work, etc. While she is on leave, **Doug Conrads**, who filled in for **Holly Oster** during her absence, will be filling in for Anika. Doug’s email is **dconrads@library.in.gov** and his direct telephone extension is **317.232.3685**.

We wish Anika well!

*-- Donald G. Ruch, Editor
IAS Newsletter*

INDIANA ACADEMY OF SCIENCE

Registration Form

124th FALL MEETING, OCTOBER 23-25, 2008

University of Evansville, Evansville, Indiana

Advance Registration must be postmarked by October 18, 2008

Name: _____

Institution/Agency: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Email: _____

CIRCLE AMOUNT PAID

| | Advance Registration | Membership 2009 Dues | Total |
|--------------------|---------------------------------|---------------------------------|--------------|
| Member | \$35 | \$35 | _____ |
| Member, Sustaining | \$35 | \$60 | _____ |
| Member, Associate | \$35 | \$25 | _____ |
| Student* | \$10 | \$10 | _____ |
| Emeritus Member | \$10 | \$10 | _____ |
| Non-Member | \$45 | | _____ |
| Luncheon | \$15 | | _____ |
| | | Total | _____ |

Total amount enclosed Check No. _____ Cash \$ _____

* College student must be a student member of the Indiana Academy of Science and must have paid the \$10 membership fee to be eligible to register at the \$10 student fee. If not already an IAS student member, the fee may be paid at this time along with the registration fee for a total of \$20. Otherwise, college students may pay the \$45 non-member fee.

BioBlitz at Wesselman Woods (see Newsletter article for more information)

Yes, I plan to participate in the Wesselman Woods BioBlitz October 24 & 25, 2008. Below, please indicate when you plan to participate, your area(s) of taxonomic expertise/interest (e.g., birds, plants, herps, fungi, etc.), and your contact information. Taxonomic survey teams will be led by an expert(s) and participants will be assigned a survey team based on their area(s) of expertise/interest.

- _____ Friday Afternoon: biodiversity survey (~2-5 pm)
- _____ Friday Evening: biodiversity night hike/activity (~8-11)
- _____ Saturday Morning: biodiversity survey (~ 6 am to noon)

Area(s) of taxonomic expertise/interest _____

Contact information: e-mail _____ phone _____

Make checks payable to **Indiana Academy of Science**

Mail to: Edward L. Frazier, Treasurer
Indiana Academy of Science
5007 West 14th Street
Indianapolis, IN 46224-6503

**No refunds will be made after
October 18, 2008**

Obituary for Larry Schaal

Lawrence (Larry) Schaal, 91, passed away March 19, 2008, at the Canterbury Retirement Home, 5801 Crestridge #C112, Rancho Palos Verdes, California 90275-4977. He served as Indiana's first U.S. Weather Bureau State Climatologist at Purdue University from 1956 to 1973 when the program was terminated. He then continued halftime as Indiana State Climatologist with Purdue University Agronomy Department until retirement in 1983. During this service he also published many papers for the Proceedings of the Indiana Academy of Science. He was a member of the American Meteorological Society and the Indiana Academy of Science.

After retiring, he moved with his wife Florence to Oceanside, California near San Diego to be close to children and grandchildren.

Larry was born in Barnard, Kansas, July 21, 1916. He grew up in Iowa and graduated from Morningside College in 1938. He received a Master's Degree at Purdue during his period of employment. He was a WWII veteran, serving as a meteorologist in the U.S. Navy.

He is survived by his wife Florence of 65 years at Rancho Palos Verdes, CA, a son, Russell, of Long Beach California, a daughter, Jeanie Gordon, of Denver, Colorado, as well as three grandsons, and two great grandchildren.

He was an accomplished pilot and an active member of the Purdue Faculty Aero Club for many years. He and Florence are fondly remember by many friends in the Lafayette Community. He was elected an IAS Fellow in 1980.

-- *William R. "Bill" Gommel*
Historian/Necrologist

2008 INDIANA ACADEMY OF SCIENCE OFFICERS

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Register for the BioBlitz at the Fall IAS Meeting

Plan to participate in the BioBlitz at the fall IAS meeting in Evansville! A BioBlitz is a rapid assessment of the species found in a particular area over a short period of time. BioBlitz events involve professional biologists, students, and citizen-scientists; they provide valuable scientific information and increase public appreciation of local biodiversity and awareness of conservation issues. The Rivers Institute at Hanover College and the Biodiversity and Natural Areas Committee of the Indiana Academy of Science are collaborating with the University of Evansville (**Dale Edwards**, Biology Department, and Chair of the Evansville IAS organizing committee) and Wesselman Woods Nature Preserve in Evansville (**Lisa Hoffman**, Preserve Naturalist) to have a BioBlitz in conjunction with the fall meeting. The Rivers Institute and IAS have collaborated on two previous BioBlitz events (Otter Creek, 2005 and Hanover College, 2007).

Wesselman Woods Nature Preserve is an Indiana State Nature Preserve and National Natural Landmark featuring nearly 200 acres of virgin bottomland hardwood forest. The nature preserve is conveniently located only a few minutes from the University of Evansville campus. Visit the Wesselman Woods website (<http://www.wessellmannaturesociety.org/woods/index.php>) for more information.

The BioBlitz will take place on Friday afternoon and evening (October 24) and again on Saturday morning (October 25, ending at noon). Sign up to participate in all or part of the activities (see registration form). The survey will be conducted by a number of taxonomic teams, the exact number of teams and taxonomic groups targeted will depend on available taxonomic expertise; the teams will be led by an expert(s) on a particular group (e.g., plant team, herp team, bird team, etc.). The group leaders will assemble their teams from IAS members (see registration form), students, and local naturalists.

The schedule is as follows: On Friday, October 24, from 2 to 6 pm, survey teams will observe and record at Wesselman Woods. There will be a dinner break from 6 to 8 pm (on your own), followed by a night hike (there may be another evening activity, to be determined). On Saturday, October 25, survey teams will be out again throughout the morning; there will be also be a bird banding demonstration by Scott Kramer, a local naturalist. The nature preserve will be open to the public during the

BioBlitz and nature preserve visitors will have the opportunity to see and interact with the taxonomic teams. From 11 to noon, there will be a closing Biodiversity Festival (also open to the public) in the Wesselman Woods education center where taxonomic teams will report their species list and display interesting finds.

We plan to verify the species lists, post the final species list on the BioBlitz page of the IAS website, and publish a short note in the IAS Proceedings. We are in the process of securing the necessary permission to work in the nature preserve. Teams will rely primarily on field identification, although some collecting of plants and invertebrates will be necessary.

IAS members interested in participating should sign up using the registration form provided in this issue of the newsletter. We hope to locate cheap accommodations for those who wish to stay overnight for the Saturday morning portion of the BioBlitz. Put this event on your calendars now and register to participate! If you have questions, please e-mail both **Daryl R. Karns** (Hanover College and Rivers Institute; karns@hanover.edu) and **Don Ruch** (Ball State and Chair of the IAS Biodiversity and Natural Areas Committee, druch@bsu.edu).

-- **Daryl R. Karns**
Rivers Institute
Hanover College



For additional information and images concerning Wesselman Woods Nature Preserve, see <http://sibiketrails.fateback.com/wesselman.htm>. (The photograph above is from this site.)

2008 IAS Fall Meeting

Meeting Site - - - - - University of Evansville

Dates - - - - - October 23-25

Wesselman Woods Nature Preserve BioBlitz - - - - - October 24-25

Abstract Submissin Deadline - - - - - September 1*

* For guidelines of abstract submission, see page 2 of this newsletter or the IAS Website at

www.indianaacademyofscience.org

For additional information about the fall meeting, see the IAS Website.

**Deadline for submission of material for the December issue of the IAS Newsletter is
November 21, 2008.**

Send copy to Donald G. Ruch at druch@bsu.edu

For IAS information, go to: www.indianaacademyofscience.org