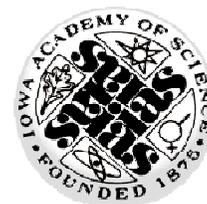


Iowa Academy of Science

The New Bulletin

Volume 5 Number 4 Winter 2009



The Iowa Academy of Science is established to further scientific research and its dissemination, education in the sciences, public understanding of science, and recognition of excellence in these endeavors.

Message from the Executive Director

Winter has arrived and on behalf of the IAS Board of Directors and the Iowa Academy of Science staff I would like to wish you a safe and wonderful holiday season. As 2009 comes to a close the Academy would like to thank you for your support. The Academy has a healthy mix of long time and newer members and with your help we hope to grow in 2010. If you haven't returned your renewal for 2010 please do so today and encourage a colleague to join too.

The IAS Bulletin is an important way the Academy communicates with you during the year. This issue informs you about current activities and events involving the Academy and suggests ways you can help further our mission. If you would like to learn more about serving on Academy committees, as a section chair or vice-chair, or on the Board of Directors please contact the Academy office. You may also offer your expertise for Academy public outreach projects. Recent examples include the Saylorville Speaker Series and the IAS National Wildlife Refuge Audio Series website at www.scienceiniowa.org.

Congratulations goes to the Iowa Science Teaching Section for the excellent 2009 ISTS Fall Conference that was held in Des Moines. Morgan Masters along with the other members of the ISTS leadership put together another impressive meeting that attracted about 400 Iowa teachers. Next year the conference moves to Ames on October 7th to 9th. Get updates by linking to the ISTS website at www.iacad.org.

We are headed to the Oak Savanna region of Iowa for the 122nd Iowa Academy of Science Annual Meeting, April 16-17, 2010, at Graceland University in Lamoni. Reserve those dates on your calendar and plan to join with your friends and colleagues and meet new ones.

The IAS Annual Meeting is a unique opportunity for you. It brings together scientists, science educators, and science students from many disciplines for 2 days of learning, interaction, and networking. It is also an opportunity to support students in the Iowa Junior Academy of Science who are considering careers in science. Show them your enthusiasm for science and science careers in Iowa by serving as a judge or attending their Friday morning sessions or the Awards Luncheon Friday at noon.

You will be receiving the Annual Meeting Advance Program Guide by mail and you may check the IAS website for updates on events, hotels, and meals. This event will include presentations on nanotechnology, the Oak Savanna region of Iowa, development of novel drugs, remote sensing, what freaks of nature tell us about evolution, and much more. We hope to see you in Lamoni!

Craig Johnson
Executive Director



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EACH ONE REACH ONE

We come to a tenuous time in the history of the Academy, a time we need to pull together, maintain some traditions and let go of others. As I look back on the scientists & science teachers that have gone before to make this Academy what it is today, I am inspired. In 1875, a group consisting of C.E. Bessey, the first president of the Academy, and Samuel Calvin at the State University of Iowa at Iowa City, among others organized the Iowa Academy of Science. By 1900 there were 150 members, by 1920 there were 350 and by 1928 there were 600 members. Today the Academy has more than 750 members, but in these economic times, this is not enough to sustain the Academy. At the present time we must use money from the "farm" annuities at an alarming rate, to stay solvent. At the current rate this money will be seriously depleted in less than five years. We can do something about this.



My challenge for you today is to **REACH** out to a colleague and invite them to become a member of the Iowa Academy of Science and join with the largest group of scientists, science teachers, community and business members whose mission is to advocate for science in the state of Iowa. As a scientist, the Academy provides a forum for research presentations and juried

journal articles for faculty as well as their graduate and undergraduate students. As a science teacher, it provides an outstanding fall Science Conference with over 75 presentations from pedagogy to content and for \$50 it gives each student at a school opportunities to fund, collaborate and present their research through membership in the Iowa Junior Academy. Make it your goal to **REACH ONE** colleague and have them join. Ask a businessman if they would like to become a corporate member of the Academy. If everyone could add one more member then the increased membership would ensure the future of the Academy for the state of Iowa. It is imperative for **EACH ONE to REACH ONE.**

—Lyn Countryman
IAS President

Sneak Peak! 122nd Annual Meeting General Sessions

General Session I

Saving Lives with Science: New Approaches to Cancer Drug Discovery and Development

Fred Hausheer, MD. FACP,
founder BioNumerik



General Session II

Developing creations and creating development: Why monsters matter.

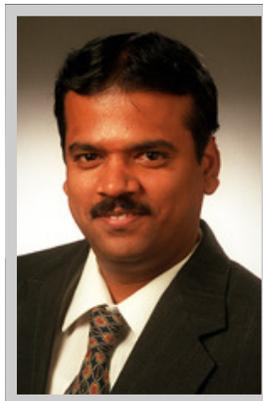
Mark S. Blumberg
Ph.D., Behavioral and Cognitive Neuroscience and
Developmental Science, Department of Psychology,
University of Iowa & F. Wendell Miller Professor



General Session III

Spatio-temporal analysis of human West Nile virus incidence in the continental United States

Ramanathan Sugumaran
Associate Professor of Geography and
GeoTREE Director, University of Northern Iowa



**Mark your Calendars
For April 16 & 17
Graceland University**

Images from the 2009 ISTS Fall Conference



Dr. Phil Plait explains 7 ways a Blackhole can Kill You over lunch.



Luncheon Speaker Dr. Phil Plait signs books after his talk.



Conference attendees engaged in hands-on concurrent sessions.



Left to right: Morgan Masters, Conference Chair; De Anna Tibben, ISTS Chair; Kathy Megivern, ISTS Vice Chair

Each one , Reach One



Ask a Colleague to Join IAS.

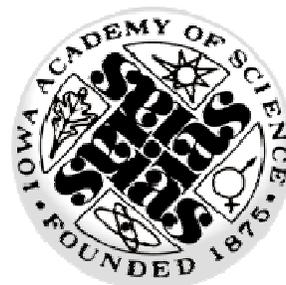
Save the Date
Iowa Academy of Science
Annual Meeting

April 16th & 17th, 2010
Graceland University
Lamoni, Iowa



Call For Papers

**122nd Annual Meeting of the
Iowa Academy of Science
Graceland University
April 16th & 17th, 2010**



ABSTRACT DEADLINE: February 8, 2010

You and your colleagues are cordially invited to submit abstracts to be considered for poster or oral presentation at the 122nd Annual Meeting of the Iowa Academy of Science.

Whether your work is in progress or complete, you are encouraged to submit an abstract. Presenting at the IAS Annual Meeting is an excellent opportunity for you and your colleagues to interact with other Iowa scientists.

Why not encourage a student, undergraduate or graduate, to present their research? Our meetings offer a friendly atmosphere for students to gain experience in presenting their research to others before attending national or regional meetings. *You do not need to be a member of the Academy to present at the Iowa Academy of Science Annual Meeting.*

Abstracts are being accepted November 1, 2009-February 8, 2010 through online submission.

Submit an abstract by:

- Visiting <http://www.iacad.or>
- Click on the Submit Abstract button.
- Members log in with your username and password.
- Non-members create a temporary account by entering your email address in the new user box.

**All Sciences Accepted.
Please Post!**

For more information:

Iowa Academy of Science, UNI – 175 Baker Hall, 2607 Campus St, Cedar Falls, IA 50614-0508
IAS website (www.iacad.or), Phone (319) 273-2021 or e-mail iascience@uni.edu

Excellence in Science Teaching Awards (ESTA)

Nomination/Applications Due: January 31st, 2010
<http://www.iacad.org/recognize.html#esta>

The ESTAs recognize outstanding K-12 science teachers for their work and innovations in science education. Nominations are encouraged from administrators, colleagues, or a teacher may self-nominate. Winners are honored at the Iowa Academy of Science Annual Meeting. Awardees receive a plaque and a \$200 award.



Distinguished Science Awards

Nominations Due: February 5th, 2010
<http://www.iacad.org/recognize.html#distinguished>

In recognition of the best contributions of Iowans to science research, science education, and service to science, the Iowa Academy of Science established the Distinguished Science Awards Program. The Awards are announced and the winners celebrated at the President's Banquet during the IAS Annual Meeting.

Consider nominating a colleague for one of these recognitions.

Announcements, Events & Deadlines

- **IAS Fellow Nominations**
Due January 8th, 2009
- **Iowa Science Foundation Proposals**
Due January 31st, 2010
- **Excellence in Science Teaching Award Applications**
Due January 31st, 2010
- **IAS Distinguished Awards Nominations**
Due February 5th, 2010
- **Abstracts Submissions Due**
For 123rd IAS Annual Meeting on or before February 8th, 2010
- **Advanced Registration Deadline**
April 5th, 2010, last chance for \$10 registration discount and to order meal tickets.
- **IJAS Silent Auction Donations Due**
April 5th, 2010
- **Iowa Wetlands Workshop** for 3rd-6th grade teachers, Orange Elementary, Waterloo
more info: seavey@uni.edu
April 10th, 2010, Register by April 1
- **123rd IAS Annual Meeting**
April 16th-17th, 2010, Graceland University
- **Presentation Submissions**
For the ISTS Fall Conference on or before June 4, 2010
- **ISTS Fall Conference**
October 7th-9th, 2010
- **USA Science & Engineering Festival**
October 10-24, 2010

IJAS Silent Auction

Donations are needed for the 5th Annual Iowa Junior Academy of Science Silent Auction. Last year the Auction raised \$600 for IJAS, let's see if we can top that! Donations may be sent or brought to the Academy before April 5th, 2010. Thank you to everyone who has donated items in the past, we can't do the Auction without your generosity!

—Toni Arends
IAS Office Manager
319-273-2021
iascience@uni.edu

Do you have know of an event that should be listed in here? Contact iascience@uni.edu and let us know!

Environmental Issues Instruction Workshops

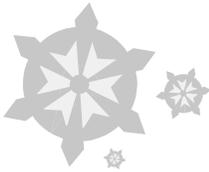
Iowa's Native Roadside Communities: Wet Prairies
Feb. 5-7, 2010 and Apr. 30-May 1, 2010 at Sleep Inn, Mt. Vernon, Iowa

More info at: <http://www.ceee.uni.edu/Portals/0/Wet%20Prairies%20Brochure%20draft%206.pdf>

Winter Solstice 2010

*Iowa Conservation Education Coalition
Integrating Iowa's Environment with Education*

January 15-17, 2010
Honey Creek Resort State Park
12633 Resort Drive
Moravia, Iowa 52571
(on Lake Rathbun)



Keynote Speakers:

- ..David Sobel
- ..Dave Moore

For a registration packet, send an email to:
AdminICEC@mchsi.com

IAS Corporate Memberships

The Iowa Academy of Science has a new membership category—Corporate Membership. Corporate membership is open to any Iowa For-profit business that wishes to support science in Iowa. Businesses that join the Academy will receive a plaque and IAS publications and announcements. Corporate members are encouraged to share information about IAS programs and membership with their scientific and engineering employees.

Corporate membership is divided into Bronze (\$250), Silver (\$500), Gold (\$750) and Platinum (\$1000) levels. The business decides which level to join. Higher levels include free registration to IAS Conferences.

Help make our Corporate Member program a success—contact the IAS Office and request Corporate member brochures, then invite a business you know to become a part of the Academy today!

**Connect a Million Minds
promotes IJAS & other Iowa
STEM Programs!**

Learn more & make the pledge to
bring STEM to youth in your area!

connectamillionminds.com

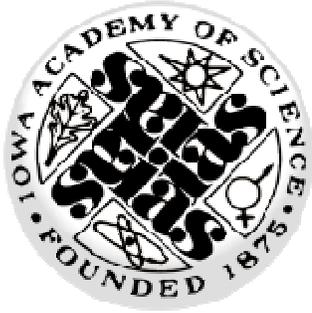
**SCIENCE
ROCKS**

**CONNECT
a MILLION
MINDS.**

Now on Facebook The Iowa Academy of Science



Facebook members can now show their support for science in Iowa by becoming a fan of the Iowa Academy of Science or joining the Academy's Facebook Group. IAS Facebook Members will receive updates about the IAS Annual Meeting and the ISTS Fall Conference plus other IAS events and programs appropriate for the general public. Simply search for Iowa Academy of Science to become a fan or join!



Call for Presenters 2010 IAS Speaker Series at the Saylorville Visitor Center

The IAS Speaker Series is co-sponsored by the IAS and the Army Corps of Engineers at Saylorville Lake. The series provides opportunities for the public to meet Academy members and learn about science in Iowa from Iowa scientists. The Academy is seeking members to present in the third annual IAS Speakers Series at the Saylorville Visitors Center. All areas of science are welcome. Past presentation topics have included Iowa giant ground sloths, fossil birds of Iowa, ground water quality and the science of Lewis and Clark. Help the Academy reach our mission of promoting public understanding of science by sharing what YOU do!

Please contact IAS Executive Director, Craig Johnson (craig.johnson@uni.edu or 319-273-2581) if you are interested in becoming a part of the Saylorville series.

Specify where your IAS donation goes...

Iowa Academy of Science General Fund—Funding the day-to-day operations of the Academy. IAS Membership Dues do not account for all of the funding required to pay staff, publish newsletters and other member mailings, maintain the website, pay phone bills, etc. Until the Iowa Science Endowment is large enough to support the regular activities of the Academy, additional funds for general activities must be sought. If you do not select a place to allocate your donation and you donate less than \$250, your donation will be placed in this category.

Iowa Junior Academy of Science Endowment—The Iowa Space Grant Consortium provides \$6,000 to support the IJAS Annual Meeting Competition and awards for 2010. In return the Academy must raise a matching \$6,000 to provide long-term support for IJAS. Donations made specifically to IJAS and proceeds from the IJAS Silent Auction contribute to the Academy's match.

Iowa Junior Academy of Science Starr Student Research Grants—IAS provides \$1,000-\$2,000 in small grants to individual middle and high school students to support their science fair projects. The Student Programs Committee provides additional support to these students through grant proposal feedback and matching students to scientist mentors.

Iowa Science Teachers Fall Conference—Iowa's Largest gathering of Science educators. The Iowa Science Teachers Section of IAS raises their own funds to put on this conference each year. Donations to ISTS will assist in bringing in guest luncheon speakers and other event programming.

Iowa Science Endowment Fund—This fund was established to secure the long term financial success of the Academy. Donations of \$250 or more that are not designated specifically for other projects are automatically placed into this fund. A portion of the annual growth of this fund may be used by the IAS Board for IAS projects including general expenses.

Benchmark Fund—IAS uses the Benchmark fund to develop additional revenue for the Academy. The benchmark fund pays membership brochures and other promotional materials and activities.

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Article Submission: The deadline for submission of articles for Vol. 6 #1 is February 1, 2010. Articles must be pre-approved. For more information contact Craig Johnson, IAS Executive Director, at craig.johnson@uni.edu

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