

Iowa Academy of Science

The New Bulletin

Volume 5 Number 1 Spring 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

Each spring the Iowa Academy of Science elects new officers. Elections are held for Academy President-Elect, two positions on the Board of Directors, and Iowa Science Teaching Section officers. As an IAS Member this is your opportunity to get to know the candidates who have volunteered to lead the Academy.

The Academy is making many important decisions so please mark the enclosed ballot for the candidates of your choice and return it to the IAS office. For ISTS members the ballot will include the election of officers for their section. We wish to thank each of these candidates for their willingness to serve. Congratulations, it is an honor to be nominated for these positions.

This is a good time to remind you of the many opportunities to serve science in Iowa through the Iowa Academy of Science. Each of the 12 Academy sections has a chair and vice-chair. There are also 9 standing committees and temporary committees may be named by the President for special projects or needs. If you are interested in serving in any of these capacities please contact the Academy office for more information.

We are excited about the upcoming 121st Annual Meeting on April 17th and 18th, at Des Moines University. We are holding a special roundtable discussion on Friday at 9:00 a.m. on how the Academy can be a better provider of information for state policy makers. Jay Labov, Senior Advisor for Education and Communication for NAS and the NRC will be on hand. For more on the meeting, and to register online, visit www.iacad.org. Join your colleagues and make new friends in Des Moines. We hope to see you there.

Craig Johnson, Executive Director

Corrections

The following IAS members were missing from the list of fellows printed in the Winter issue of the Bulletin:

Kenneth Frey—Distinguished Fellow
Tom Fenton—Emeritus Fellow
Paul Garvin—Emeritus Fellow
Stephen P. Main—Emeritus Fellow
Margaret Sadeghpour-Kramer—Emeritus Fellow
Byron Thomas—Emeritus Fellow
Richard Wacha—Emeritus Fellow



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Keep in touch with the IAS Members Only Website

In 2005, the Iowa Academy of Science opened our Members' Only Website and made the IAS Membership Directory available to members online rather than in paper form, allowing IAS to contact members through secure email messages and giving members an up to date database. However, the membership database is only as up to date as the information IAS has been provided. Please keep your membership information up to date, especially your email address, only members with a valid email address can access the online database. Having an up to date email address on file will become more important in the following year as IAS investigates the feasibility of online ballots for elections and cost/paper saving changes to our member communications.

How to search the members database and send an email to your fellow section members:

1. Log into the IAS Members' Only Website.
2. Mouse over the *Directory menu* and click on *Advanced Search*.
3. Click on the *Search Using Filters link* to expand that section of the search tool.
4. Scroll down until you can see the list of IAS sections.
5. Highlight "Yes" in the selection box for the section you wish to email.
6. Scroll to the bottom of the page and click on the *Search button*. You now have a list of all section members.
7. Mouse over the *Directory menu* again and click on *Contact Center*. This will open a web email form.
8. Type in the subject and body of the message. Attachments are allowed.
9. Click the *Continue button*.
10. Review your message.
11. Click on the *Send button* to send the message.

Emails can be sent to the email address in any completed search. Use the additional features in the filter section of Advanced Search to send an email to the Board of Directors, all the members of a committee or an individual IAS member. Please note that not all IAS members have supplied email addresses and some of the supplied email addresses are not up to date.

Directory Menu Options:

- **View entire membership**—this option allows you to browse through an alphabetical listing of IAS Members.
- **Advanced Search**—this option allows many search functions including filtering for all of the members of one committee or section. This option also allows custom results, such as returning up to 99 members information per page or creating a list of names by institution.
- **My Profile**—this option allows you to view your own profile and make certain changes, including hiding your contact information from other members and changing your password.
- **Change Section Membership**—If you complete this form, an email will be sent to the IAS Office Manager requesting that your section assignments be updated to your new selections.
- **Contact Center**—the contact center allows you to send an email to the IAS members in the current search.

If you are looking for just one IAS member's information, type the first or last name into the keyword search on the upper right hand corner of each page. The spelling must match the directory exactly.

Logging In

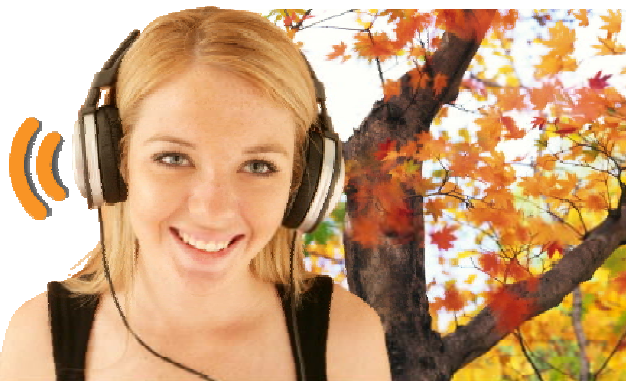
- Open www.iacad.org.
- Type your username and password into the login fields located on the lower left corner of the page.
- Click Submit.

Your **username** is the email address that you have provided to IAS. Your **password** was mailed to you when you were added to the online database. If you have lost your password, then click on the *Forgot Your Password* button and submit your email address to have your password emailed to you.

Questions? Contact the IAS Office!

IAS National Wildlife Refuge Audio Series

www.scienceiniowa.org/nwr



podcast it. download it. stream it.

just listen to it.



Lakeside Laboratory Reunion is looking for Alumni!

Did you ever take classes at Iowa Lakeside Laboratory? Do you know someone who did? Were you on the faculty there? If so, the Lab's staff is looking for you! As part of its Centennial Jubilee Celebration, Lakeside is holding a reunion on August 1 & 2, 2009 and wants to include you and your family in the festivities.

The reunion will include a private tour of the Lakeside Lab, opportunities to view the David Rogers Big Bugs exhibit, a square dance, picnics, lectures, field trips and a chance to reminisce about the "good old days". A contest will be held for the oldest alum to attend.

If you are an alumnus, please send an email to martha-barnard@uiowa.edu. For more information about the Centennial Jubilee, go to Lakeside's website at www.lakesidelab.org or call 712-337-3669 x 703.

For more information about the Big Bugs please go to www.big-bugs.com.

Thomas Huston Macbride founded Iowa Lakeside Laboratory in 1909. In the photo above, he is surrounded by the first summer session, including 26 male and female students."

The Iowa Academy of Science welcomes new Institutional Member Iowa Central Community College



Executive Director, Craig Johnson presents Laurie Hendricks, Associate Vice President of Development and Alumni Relations (left) and Julie Ehresmann - IAS Member at ICCC (center) with ICCCs Academy Plaque.

Candidates for President-Elect of the Iowa Academy of Science



James T. Colbert

Associate Professor of Biology
Iowa State University

"The Iowa Academy of Science helped me begin my professional career by allowing me to present my undergraduate research project at the 1978 annual meeting. I would be honored to serve the organization and help other young scientists begin their careers."

Professional Experience

Biology Program Coordinator, Iowa State University, 2005-present
Associate Professor, Iowa State University, 1993-present
Assistant Professor, Iowa State University, 1988-1993
Assistant Professor, Colorado State University, 1985-1988
Ph.D., University of Wisconsin-Madison, 1985
M.S., University of Wisconsin-Madison, 1981
B.S., Iowa State University, 1978

IAS Activities

Member since 1993.
Member of Societal Issues Committee

Awards & Recognition & Special Activities

Distinguished Iowa Science Teaching Award, 2008
Governor's Environmental Excellence Award (for the Skunk River Navy), 2006
Friends of Science Education Award, 2006
Iowa State University Louis Thompson Distinguished Undergraduate Teaching Award, 2001
Outstanding Innovations Award for Exemplary Contributions to Iowa State Learning Communities,



Mary P. Skopec
Senior Research Scientist

Iowa Department of Natural Resources

"While I am a relative newcomer to IAS, I believe it is vital that we support a strong and vibrant scientific community in Iowa. Today, we

are faced with some of the most challenging natural resource issues we have ever experienced - recurrent and severe flooding, declining water quality, loss of native species, increased energy demands, among many others. IAS is uniquely positioned to nurture and strengthen the intellectual framework that will help us understand and improve our natural environment, while leaving a lasting legacy for our children in the State of Iowa. It is my hope that we can work together to achieve this common vision."

Professional Experience

Senior Research Scientist, Water Monitoring & Assessment, IDNR, 2008- present ; Supervisor, Watershed Monitoring and Assessment Program, IDNR, 2001-2008; Adjunct Assistant Professor, Department of Geography, U. of Iowa, 2000-present; Research Geologist 3, Water Monitoring Program, IDNR, 2000-2001; Research Geologist 2, Geographic Information Section, IDNR, 1999-2000; Instructor, Environmental Science and Policy, Drake University, 1997-1998; Research Assistant, Geological Survey, IDNR, 1991-1998; Instructor, Saturday and Evening Program, University of Iowa, 1991-1993; Ph.D. University of Iowa, Interdisciplinary Environmental Science, 1999; M.A., University of Iowa, Geography, 1991; B.S., University of Iowa, Geography, 1987

IAS Activities

IAS Member since 2007

Awards & Recognition & Special Activities

Member of the National Water Quality Monitoring Council, 2006 - present; State Representative to the National Environmental Status and Trends Indicator Forum.; State of Iowa Golden Dome Leader of the Year, 2005 ; State of Iowa Golden Dome Team - Project AWARE, 2007

Candidates for Iowa Academy of Science Board of Directors



Andrew Brittingham
Associate Professor of Microbiology and Immunology, Des Moines University

"Being an active member of the Iowa Academy of Science has allowed me to develop as a mentor for students interested in science and provided me with an important network of peers. Serving on the

Board of Directors will allow me to give back to the Academy and help to strengthen its commitment to scientific research, education, and public understanding."

Professional Experience

- Associate Professor, Des Moines University, 2005-present
- Assistant Professor, Des Moines University, 2000-2005
- Post-Doctoral Fellow, University of Iowa, 1997-2000
- PhD, Temple University, 1997

IAS Activities

- Member since 2001
- Iowa Science Foundation Committee (2006-2008; Chair, 2006-2008)
- Iowa Science Foundation grant reviewer (2003-2004)
- Chair, local organizing committee for 121st Annual IAS Meeting
- Sponsor of multiple student oral and poster presentations at IAS annual meetings.

Awards & Recognitions & Special Activities

- Des Moines University Outstanding Researcher Award (2005)
- Item writer for national licensing examinations: National Board of Osteopathic Medical Examiners, National Board of Podiatric Medical Examiners.
- Vice-President, Greater Des Moines Chapter of Sigma Xi.

Candidates for Iowa Academy of Science Board of Directors



Carol W. Schutte
Instructor, Biological Sciences
North Iowa Area Community College

"Membership in the Iowa Academy of Science has provided me a broad network of professionals with whom I can consult on issues of content, methodology, and policies. I value this association greatly and look forward to helping support and advance IAS, if elected."

Professional Experience

I have been teaching at NIACC for 21 years. Currently I teach Human Anatomy and Physiology and the Majors Biology Course. In addition to the classroom instruction, I have led numerous extended field courses, including student trips to the tropics, the temperate rain forest, and 14 trips to the boreal forest in northern Minnesota. While on sabbatical in 2004, I spent 6 weeks in the subtropical rainforest of Belize collecting butterflies for the Indiana Nature Conservancy on Belize Audubon Society preserve land. In addition to my teaching, I enjoy outreach to other groups, including fellow teachers, civic groups, and anyone else who will listen about Biology!

IAS Activities

I have been a member of IAS for about twenty years now and always look forward to our annual meetings. In April, 1998, I served as co-chair for the spring IAS meeting on NIACC's campus. I was elected a fellow in 2001. In 2008 I recorded an Iowa Academy of Science Refuge Audio Series segment. I have served on the Committee on Committees and the ISF Committee and have presented at IAS meetings.

Awards, Recognitions & Special Activities

In 2006 I was awarded the National Association of Biology Teachers 2-year Section Outstanding Teacher of the Year Award. I served on the Iowa Conservation Education Coalition Executive Committee for six years, including one year as chair. I successfully chaired the 17th North American Prairie Conference and the 2005 Midwest Environmental Education Conference on NIACC's campus.



Michael Zeller
Biotechnology Outreach Education Coordinator
Iowa State University

"I see the Iowa Academy of Science as an organization that can help lead Iowa's scientific research and educational communities in directions that benefit all Iowans. As a member of the board I would embrace the opportunity to help IAS lobby for legislation/policies that promotes sound science and educational practices at all levels of science in Iowa. Thank you."

Professional Experiences

- Biotechnology Outreach Education Coordinator, Instructor and Lecturer, ISU, 2000-present
- Master Teacher in Biotechnology. ISU Biotechnology Public Education Program, ISU, 1993-present
- Appointed to the governing board for the Iowa Coalition for Mathematics and Science, 1996-2000
- Science Teacher/Dept. Chair. Woodward-Granger Community School, 1977-2000

IAS Activities

- IAS Member since 1988
- Fellow of the Iowa Academy of Science, 1998
- Exhibits Coordinator, ISTS Fall Conference, 1998-2000
- Program Chair, ISTS Fall Conference, 1997
- President of the Iowa Science Teacher's Section, 1996-97

Awards, Recognitions & Special Activities

- State of Iowa finalist for the Presidential Awards for Excellence in Mathematics and Science Teaching in Secondary Science. 1994
- Recipient of Iowa Academy of Science Excellence in Science Teaching Award in General/Multiple Science. 1993
- ISU State of Iowa Regents Award for Staff Excellence, 2007



Lee Wymore
Program Director for Science and Mathematics and Instructor of Biology
Indian Hills Community College

"I'm proud to be a member of the Iowa Academy of Science and look forward to an opportunity to serve the Academy."

I have taught majors and non-majors biology, microbiology, botany, and philosophy of science at Indian Hills since 1996. I have B.S. and M.S. degrees in plant pathology from Colorado State University and a Ph.D. in plant pathology from Cornell University. I did postdoctoral work at MacDonald College of McGill University in Montreal, where I studied the use of plant pathogens as biological control agents for agricultural weeds.

I'm an active member of the Iowa Association of Community College Biology Teacher and the Community College Biologists Section of IAS

2004- Indian Hills ASHLI (A Student Higher Learning Initiative) Award

Iowa Academy of Science – Election 2009

Rules: Ballots must be arrive at the IAS Office by March 27th, 2009. One Ballot per member.

Return to: Toni Arends, IAS Office Manager, UNI—175 Baker Hall, 2607 Campus St., Cedar Falls, IA 50614-0508

IAS President-Elect (vote for one)

_____ Jim Colbert

_____ Mary Skopec

IAS Board Director (vote for two)

_____ Andrew Brittingham

_____ Lee Wymore

_____ Carol Schutte

_____ Mike Zeller



Iowa Science Teachers' Section Election Candidates



Candidate for ISTS Section Vice Chair: Katherine J. Megivern

"ISTS Fall Conferences inspire me. I am honored to be asked to run for this position where I can help continue and expand this fine program. I am excited about the potential of networking and helping state science teachers adopt

the powerful Iowa Core Curriculum and enhance student learning."

Kathy is an IAS member in good standing and has presented at 3 ISTS Fall Conferences.



Professional Experience

2005 – Present:

Ankeny High School Science Teacher (Biology, Geology, Animal Science, Plant Science)

2004 – 2005:

Ames High School Science Teacher (Honors Earth Science, Biology)

2001 – 2004:

Program Coordinator, Center for Excellence in Science and Mathematics Education, Department of Curriculum and Instruction, Iowa State University (Instructor of Elementary Science Teaching Methods, ISU CI 449; developing and implementing state secondary science clubs and summer science camps; professional development for state science teachers)

2000 – 2001:

Science Learning Specialist, Ames Community Schools

Memberships:

- 2000 - Present: NSTA Member
- 2006 - Present: NAGT Member
- 2001 - Present: Geological Society of Iowa

Special Activities & Recognition

- Earthwatch "Live from the Field" Fellowship, 2008: Mammals of Nova Scotia
- Earthworks (CIRES, University of Colorado – Boulder), 2007 and 2005 (Comprehensive science inquiry workshops)

2008 Donations

Thank you to the following Academy members who made financial contributions to IAS between January 1—December 31, 2008.

\$250 plus

Rick Lampe
Bion Pierson

\$100 plus

Paul Bartelt
George Burnet
Gary Donnermeyer
Darrel Hoff
Harry Horner
Craig Johnson
Charlie Martinson
Terry Meyer
John Pesek
Pioneer Company**
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Marcy Seavey
Karl Seifert
William Shore

\$50 plus

William Desmarais
Edward Finnerty
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Ruth Swenson
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Under \$50

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Joyce Norton
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Jeff Weld
S.D. Whelchel

**Pioneer Hi-Bred gave an employer match for Terry Meyer's contribution.

Corporate Donations and Grants

AEGON Transamerica Foundation
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Mel Oliven Lecture Series
Pioneer Hi-Bred*
REAP-CEP
Rockwell Collins*
Schiller's Flowers & Foliage*
Science Center of Iowa

Call for Presentations

Iowa Science Teachers' Section
Fall Conference

Wednesday, October 28, 2008

Polk County Convention Center, Des Moines

Content and pedagogy presentations welcome!

Submit proposals to <http://ists.pls.uni.edu/forms/fall-conf/present/index.html> by June 1, 2009.



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Return Service Requested

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Article Submission: The deadline for submission of articles for Vol. 5 #2 is June 1, 2009. Articles must be pre-approved. For more information contact Craig Johnson, IAS Executive Director, at craig.johnson@uni.edu

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Earthpark, Pella
Graceland University, Lamoni
Great Ape Trust of Iowa, Des Moines
Grinnell College, Grinnell
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