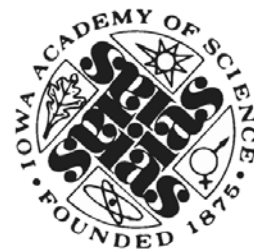


Iowa Academy of Science

The New Bulletin

Volume 1 Number 1 Spring 2005



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

The Annual Meeting is rapidly approaching and I hope that you have decided to attend. This year we will be meeting on the picturesque campus of Cornell College in Mt. Vernon. If you have not registered, please do so and encourage your friends and colleagues to see what the Iowa Academy of Science is all about. The latest information about the meeting and online registration is available on our secure server at <http://www.iacad.org>. Register today!

As you may know we have started a new membership campaign and some of our members have taken us up on our offer to reduce their annual dues by referring new members to the IAS. As a reminder, for each new professional member who joins the Iowa Academy of Science at your referral, the Academy will reduce your membership dues next year by \$10 up to a maximum of six new members. I know there are more than a few mathematicians among you who have figured out that if you successfully recruit six new members your dues will be zero. Please make your referrals to the Academy office and we will contact the prospective new member.

We are moving forward with changes to the IAS web site. First we want to recognize Ray Anderson for his work in organizing the site. Ray established the ground work and donated many hours to its maintenance. This past year Marcy Seavey, our Program Director, has taken over and has added more information. Our next step will be to implement a software upgrade that will make the site a focal point for information and services for both members and non-members. Thanks to Aaron Spurr, the ISTS webmaster, for his suggestions about possible software.

Please read through this Bulletin to learn more about what the Academy is doing. It has been my pleasure to serve as your new Executive Director since June. The Iowa Academy of Science has a proud tradition and we want to find the appropriate ways to move forward to meet new challenges. It is my belief that the Academy has a significant role to play in Iowa and we have the membership and organization to move forward.

I hope to see all of you April 29th and 30th at Cornell College. I would like to personally meet as many members as possible so please don't be shy about introducing yourself and sharing any comments or suggestions.

—Craig Johnson



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New Electronic *Iowa Science Teacher Journal (ISTJ)*

By Michael Clough, President-Elect, ISTS

At one time in the not so distant past, members of the Iowa Science Teachers Section received a hard copy *Iowa Science Teacher Journal* as part of their membership. The time has come to revive the Journal in an electronic format so that we can better serve members of the Iowa Science Teachers Section, and attract more science teachers to the Iowa Academy of Science. When running for the office of ISTS President-Elect, I wrote that my primary objective would be to revive *ISTJ* for members of ISTS. Jeff Weld, the current ISTS president, and I put forth a proposal for creating an electronic *ISTJ* to the Iowa Academy of Science Board and they have enthusiastically supported the proposal. Here are a few key features of the new electronic *ISTJ*:

1. The journal will be issued quarterly (mid August, November, February, and May). All issues will arrive during the school year, when teachers are most likely to need and use ideas in the journal. The first issue will be available in August 2005.
2. The first two issues of the journal (Aug. & Nov. 2005) will be available for anyone to access. In the second issue, information will appear regarding how to continue receiving the journal (i.e. joining IAS and the ISTS section). Only members of ISTS will have access to the issues published in 2006.
3. I have agreed to serve as the *ISTJ* editor for a three-year term. At the end of that term, the ISTS executive leadership team will select a new editor from those who apply for the position. The new editor will serve for a three-year period. The Editor is responsible for writing an editorial for each issue of *ISTJ* and overseeing the editorial assistant.
4. A *ISTJ* editorial assistant will be employed to carry out the following duties:
 - Solicit manuscripts for *ISTJ*;
 - With the editor, identify reviewers & assign manuscripts for *ISTJ* submissions;
 - Synthesize the reviews for each manuscript;
 - Create the final layout of *ISTJ*;
 - Maintain communication between *ISTJ* and the Iowa Academy of Science;
 - Ensure that *ISTJ* reviewers are thanked publicly on an annual basis;
 - Along with the Editor, conduct and participate in a "Publishing in *ISTJ*" session at the ISTS Fall Conference; and
 - Submit board reports to the IAS Board.

The Iowa Academy of Science will fund the *ISTJ* editorial assistant (10 hours of work/week) for the first year. Jeff Weld and I are pleased to serve ISTS and its members, and appreciate the support of the Iowa Academy of Science Board in our efforts.

Bringing the Lost Landscape into Iowa Classrooms

The Resource Enhancement And Protection – Conservation Education Program (REAP-CEP) has awarded the University of Northern Iowa \$45,558 to develop a 5th-12th grade science and social studies curriculum to accompany the *Lost Landscape: The Tallgrass Prairie* Documentary. The Iowa Academy of Science is a partner on this project. "Our goal is to create a curriculum supplement that will help teachers reach national science and social studies standards within a context of studying the local dominant native ecosystem," says Marcy Seavey, IAS Program Director and project coordinator. The Lost Landscape Prairie Project (LLPP) will include at least 40 classroom activities, an educational version of the film cut into scenes designed for use in the classroom, and a search tool that allows teachers to easily find activities that fit their needs. The finished guide will be delivered through teacher workshops and institutes.

The Iowa Junior Academy of Science at the 2005 AAAS Annual Meeting

IJAS members Amy Marquardt and Michael Fosdick of Mediapolis High School, and Jamilee Lightfoot of Central Lee High School, represented Iowa at the American Junior Academy of Science Poster Session of the AAAS Annual Meeting this February. IAS Student Program Committee Chair and Iowa Teacher of the Year, Ernest Schiller and several teachers/parents accompanied the students. The Iowa Space Grant Consortium and IAS member Frank Starr provided funding for the trip. A complete story is available online at http://www.iacad.org/ajas_delegates.html.

Iowa Science Foundation Grants

The Academy received 19 ISF Grant Proposals from 16 different institutions totaling \$84,023 in requests. The State of Iowa provides IAS with \$40,000 in pass-through grants to award the Iowa Science Foundation Grants each year. The ISF Committee is currently reviewing the grant proposals and will announce the awards in early May.

Visit IAS on the web:

<http://www.iacad.org>

Iowa Academy of Science – Election 2005 Candidates for President Elect and IAS Board of Directors

(For photos of the board candidates & more information on all the candidates visit the election webpage:
<http://www.iacad.org/05election.html>)

**Candidate for
President Elect:
Edward P. Finnerty,
Ph.D., SC(ASCP)**
Professor, Des Moines
University



IAS Member Since:
1984, Fellow 2000
Education Committee
1995-1997 (chair
1997); Physiology
section chair 1996;
Nomination Committee,
1991-1993; Board of
Directors, 1998 – 2002;
Fellow, Member ISF
Committee 2003-2005,
Chair 2005.

I have been involved with the Academy for many years in a variety of capacities. We are at a point in the Academy's life where I believe my experience can contribute to its further growth and vitality. We need to focus on our strengths in the coming year so we can move on to promote and enhance the visibility of the Academy as a resource for the state of Iowa and further our educational mission for promoting science.

Candidate for the IAS Board: Gary Donnermeyer
Professor of Biology, Kirkwood Community College

The Academy of Science is an absolutely vital organization for the state of Iowa. I was initially attracted to the academy because it is one of the few entities left that supported and encouraged *pure* research. One of our greatest challenges is to increase membership and support for the academy.

Candidate for the IAS Board: Deb Q. Lewis
Curator of the Ada Hayden Herbarium, Iowa State
University

My goals for the IAS include improving the interface between Iowa's scientists and the public, disseminating scientific information in a way that is understandable and interesting to non-scientists, and promoting the public's involvement in science. My best leadership skills are those encouraging teamwork and camaraderie, rather than as "the leader".



**Candidate for
President Elect:
Richard B. (Rick) Hall**
Arthur L. and Frances
S. Wallace Endowed
Professor in Forestry,
Department of Natural
Resource Ecology and
Management (NREM,
Iowa State University

IAS Member Since:
1980
Agricultural Sciences
Chair, 1986-87; Parish
Farm Committee Chair,
1991-92

The Academy has key roles in the science education of the state's youth, serving its members information and networking needs, and increasing "public understanding of science". There are many competing forces for everyone's time; we need to redouble efforts to make participation in IAS an attractive priority.

Candidate for the IAS Board: John Pearson
Botanist/Plant Ecologist, Iowa Department of Natural
Resources

Faced with an increasing trend toward membership of scientists in national, specialized professional societies and decreasing participation in state organizations, the Iowa Academy of Science needs to adapt to the shifting demographics of our science community.

Candidate for the IAS Board: Dr. Jim Pease
Extension Wildlife Specialist and Asst. Professor
Iowa State University, Department of Natural Resource
Ecology and Management (NREM)

Science is too important to be left just to scientists. That's why I've spent the last 30 years trying to spread scientific knowledge to a broad spectrum of the public. Whether it be 6th graders up to their knees in a marsh, college students giving their first interpretive talk, or public radio listeners learning about crows, for me it's all about science. IAS is an important part of that effort—more important than ever today. That's why I want to run for the Board.

**Iowa Academy of Science – Election 2005
Ballot**

Rules: Ballots must be postmarked by Wednesday, April 13th, 2005. One Ballot per member.
Return to: Susan DeBord, IAS Office Manager, 175 Baker Hall, Cedar Falls, IA 50614-0508

IAS President-Elect
(vote for one)

_____ Edward P. Finnerty

_____ Richard B. (Rick) Hall

IAS Board Director
(vote for two)

_____ Gary Donnermeyer

_____ Deb Q. Lewis

_____ John Pearson

_____ Jim Pease

THIS ELECTRONIC BALLOT IS VOID, VOTE BY ORIGINAL PAPER BALLOT ONLY

2004-2005

Donations to the Iowa Academy of Science

Grants and Corporate Donations (\$1000 or more)

The GLOBE Program, funding for GLOBE ONE Project
REAP-CEP, funding for Iowa Project WET
Project WET USA, funding for Make a Splash Festival
Iowa Space Grant Consortium, funding for IJAS
delegates

Science Endowment Fund Donations

The Science Endowment Fund has been established to provide for the future of the Academy. Gifts of \$1000 or more (in \$250, \$500, or \$1000 installments) may be presented to this fund.

Tom Ervin
Bonita Glatz
A. W. Guzick
Nick Stoyhoff

The Benchmark Fund

The Benchmark Fund has been developed as a source of seed money to be used in seeking individual and corporate gifts to the Academy. Any donation to the Academy may be designated by the donor as a Benchmark contribution.

No New Donations

General Fund

Contributions to the General Fund assist the Academy in day to day operations and programs. General funds pay for the Academy's phone bills, publication of the Bulletin, and the Academy's web server. Any donation to the Academy may be designated by the donor as a General Fund Donation. Donations that are not directed specifically at the Benchmark Fund or Science Endowment are placed in the General Fund.

General Fund Donations

\$100 or more

Edward Robert Baumann
Lenore & Laverne Durkee
A.W. Guzick
Craig A. Johnson
Charlie Martinson
James E. McCoy
Frank Starr

\$50 or more

Paul Bartelt
Jerry J. Kollros
John Patterson
John Pesek
Paul J. Pistek
Jean Sandrock
Karl Seifert
Ruth W. Swenson
Clayton A. Swenson

Under \$50

Cliff Chancey
Elwood Garlock
Donald J. Herrig
Gilbert Hewett
Karen Juhl
Dennis Kenney
Donald Koch
Roger Landers Jr
Brenda Molano-Flores
Melissa Spencer
Stanley Whelchel
John Wozniak

New Web Site Software

The IAS web site will undergo major changes this year. The IAS Board has approved expanding our capabilities with the purchase of new software designed for non-profit organizations. After consulting with Aaron Spurr, the ISTS Webmaster, we are evaluating three software packages that will bring new functionality to the site. It will be divided into member only and public sections allowing us to expand our membership services and improve the information available to site visitors and potential new members.

The exact design of the site has not been determined but here are some of the possible features: The member only section will include a searchable online directory where each member determines what information will be available to other members. We expect to provide some IAS publications online and we will also have the capability to include job boards, bulletin boards, document libraries, and classified ads. Links to event registration forms and a visual calendar that includes custom event details will be available. The Annual Meeting abstract submission process will be completely online. Membership renewal will continue to be available online.

From an administrative standpoint the system will include a member database with an unlimited number of search fields. It will become the IAS database allowing the printing of mailing labels, directories, lists, listservs, and sponsor ads. We will also have the ability to send personalized and targeted emails or faxes. The web site will become a communications center for members with each other and the IAS office.

On the public side we will include information about the IAS and its membership including institutional and corporate members. We plan to include more photos from IAS events and direct potential new members and donors to the site to learn more about the IAS, its sections, and its mission. Membership information and new member registration will be available. If you have comments or suggestions please contact the IAS office.

IAS at the State Capitol

The Iowa Academy of Science made two appearances at the Iowa State House in January. On the 18th, Craig Johnson spoke to the Iowa House Economic Growth Committee about the Academy and its mission in Iowa. State Representative Willard Jenkins (R) of Cedar Falls requested the appearance as a way of informing the committee about the IAS.

The committee was investigating ways to better utilize education, science, and technology in economic development efforts. The meeting was the first step in making the Academy better known to our legislators. We intend to keep the lines of communication open as another way that the expertise of the Academy will be available for the benefit of all Iowans. This will be an important way to help perform our mission.

The following week Craig Johnson and Marcy Seavey, the IAS Program Director, set up a display for the IAS in the State House Rotunda as part of an event sponsored by the Iowa Mathematics and Science Coalition (IMSC). The IMSC is an alliance of leaders from business, industry, education, and public policy working together to achieve mathematics and science literacy for all of Iowans. The event allowed the IAS to make contact with Iowa legislators and other agencies and organizations with an interest in mathematics and science education in Iowa. We plan to make more of these appearances in the future.

Ada Hayden Honored

The City of Ames recently honored Ada Hayden by naming a park near her birthplace Ada Hayden Heritage Park. Ada was the matriarch of Iowa's Prairie Preserve System and a long time active member of the Iowa Academy of Science. IAS Member Jimmie Thompson is responsible for suggesting and championing the idea of naming the park after Hayden and Deb Lewis, curator of the Ada Hayden Herbarium at IAS and also an Academy member supplied information to the city in support of the name. Learn more at:

<http://www.city.ames.ia.us/parkrecweb/>



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175 Baker Hall – UNI
Cedar Falls, Iowa 50614-0508

Address Correction Requested

**Iowa Academy of Science
Institutional Members**

University of Northern Iowa, Cedar Falls
Buena Vista University, Storm Lake
Cornell College, Mt. Vernon
Graceland University, Lamoni
Iowa State University, Ames
Kirkwood Community College, Cedar Rapids
Mount Mercy College, Cedar Rapids
Des Moines University, Osteopathic & Podiatric Medicine
Coe College, Cedar Rapids
Drake University, Des Moines
Grinnell College, Grinnell
Iowa Wesleyan College
The Putnam Museum, Davenport
University of Iowa, Iowa City
Wartburg College, Waverly

2005 Conference Updates

Iowa Academy of Science Annual Meeting

April 29-30th, 2005
Cornell College, Mt. Vernon
<http://www.iacad.org/>

**Iowa Science Teachers Section Fall
Conference**

Thursday, October 20th, 2005
Des Moines
Presentation Submission Deadline: May 31,
2005
<http://ists.pls.uni.edu/>

**Midwest Environmental Education
Conference**

July 20-23rd, 2005
NIACC, Mason City
<http://www.niacc.edu/meec/>