

# Iowa Academy of Science

## The New Bulletin

Volume 7 Number 1 Spring 2011



*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

Dear IAS member,

This is an exciting time of the year for the Academy. Our 123<sup>rd</sup> Annual Meeting is fast approaching; committees have been working on nominations for the Distinguished Awards, the ESTA, Fellow, and on proposal submissions to the Iowa Science Foundation. It is also election time for the IAS Board of Directors, President-Elect, and for ISTS Chair.

As an Academy member you are entitled to vote for President-Elect and for two Directors. In addition, all ISTS member ballots include the election for ISTS Chair. Your ballot is inside. Please read the candidate information, mark your choices for these positions and return the ballot by April 7th, 2011. We want to thank the candidates who have agreed to serve the Academy and the greater cause of supporting science in Iowa by throwing their hat in the ring. Leadership roles bring with them responsibility and opportunity and the Academy appreciates your willingness to serve.

Our 123<sup>rd</sup> Annual Meeting of the Iowa Academy of Science will be held at Wartburg College on April 29th and 30th. From general session speakers to symposia topics and more than 120 oral and poster presentations all signs point to an intellectually stimulating meeting as well as a wonderful opportunity to meet colleagues and find ways to advance science in Iowa. It is also a chance to meet with and encourage Iowa Junior Academy of Science students Friday morning and at the Awards Luncheon. Friday morning also includes a workshop about using geographic information systems in K – 16 classrooms. Information about speakers, hotel reservations, meals, and other events may be found in the Advance Program Guide and online at [www.iacad.org](http://www.iacad.org). Register online today!

Thank you for your support of the Iowa Academy of Science.

Craig Johnson

Executive Director



#### Table of Contents

Executive Director Message .....	1
Annual Meeting Preview .....	2
Candidates for IAS Elected Positions .....	3-6
ISTS Fall Conference .....	7
Ballot .....	7
Corporate Memberships .....	8
Journal .....	8
Saylorville Speaker Series .....	9
Welcome Debbie Dean .....	9
Seeking Saylorville Gift Shop Volunteer .....	10
Upcoming Events .....	10
2010 Member Donations .....	11
Where your IAS donation goes .....	11

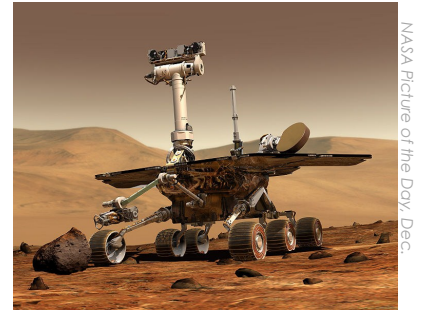
# The 123rd Annual meeting of the Iowa Academy of Science

## Program Preview

General Session I—Friday 11am

### **Roaming Mars, A Personal Perspective**

Scott G. Lever, Mission Manager on the Mars Exploration Rovers (MER)



General Session II-Friday 7:45pm

### **Invasive to Innovative: The Robotic Frontier of Surgery**

Steve Slessor, MHA

Vice President of Operations, Allen Hospital

General Session III-Saturday 11am

### **Challenges and Opportunities for Volcanic Risk Mitigation in the Internet Age**

John W. Ewert, Ph.D.

Scientist-in-Charge, USGS Cascades Volcano Observatory

## **Symposia**

- Unintended Health and Environmental Consequences of Confinement Agriculture
- Investigating Forensic Science
- 150th Anniversary—Science and the Civil War

## **Special Events**

- Iowa Junior Academy of Science Silent Auction and Research Competition
- Using Geographic Information Systems in Iowa's K-16 Classrooms Workshop
- Excellence in Science Teaching Award Luncheon
- President's Banquet
- Leading Place-based Student Investigations—Water Special Session
- TriBeta Award Ceremony
- Field Trips

**April 29 & 30**  
**Wartburg College**  
**For More info:**  
**[www.iacad.org](http://www.iacad.org)**



Photo by Ryan Somma



Photo by Keith Weller, USDA, ARS



# Candidates for Iowa Academy of Science President

## Thomas Ervin

MSEd, Retired, Davenport North High School

*"I sincerely want to serve and lead the IAS, and I believe that the strengths that I would bring to the position of IAS President Elect are:*

- *My commitment to serving within the IAS, which began with my first office, in 1992, Chair of the Earth Science Teachers Sub-Section of the ISTS of the IAS. That commitment remains as strong as ever.*
- *My attention to detail, as evidenced by the quality of my service on various IAS committees and within the ISTS.*
- *My ability to see the big picture while working on the pieces*
- *My willingness to serve the IAS, is unflagging*
- *My Institutional Memory developed by my years of service within IAS*
- *My time, which as a retired educator is ample*
- *My word is my bond, when I say I'll do something, it gets done."*

Editor, of the quarterly journal of the National Earth Science Teachers (NESTA), The Earth Scientist, Fall 2007-present.

### Academy Activities

IAS Member since 1967, Fellow 1998, Life Member 2001

IAS ESTA Director Committee, 2009 - present

Regional Director for ISTS, 2001-Present,

Recipient of the Exceptional Service Award from the ISTS of the Iowa Academy of Science, 1999

Iowa Academy of Science Fellow, 1998

Recipient of the Iowa Academy of Science Excellence in Teaching Award for Earth Science, 1989

Served as Chair of the ISTS Fall Conference (1996), the Iowa Science Teachers Section (1995-96), Earth Science Teaching Section (1991-93)

Has also served/serves as a member of the ISTS Section Leadership Team, Myrle Burk Scholarship Committee, ESTA Committee, Awards & Recognition Committee and Finance Committee

### Awards, Recognitions, Involvement

University of Northern Iowa's Heritage Honours Award for Alumni Achievement, 2003

NESTA's Woerner & Stonehouse Award, 2009

NESTA Distinguished Service Award, 2005



## Johanna Foster

Ph.D., Associate Professor of Biology, Wartburg College

*"I support IAS because the research represented at our meetings is equal to that seen nationally, yet is more easily accessible for scientists and students. The need for a scientifically-literate society is a never-ending process*

*and the IAS is in a position to interact with local schools, organizations, and government."*

I teach ecology, biology, New Zealand ecology, and research methods to biology majors; and environmental science to non-majors. I began, in 2010, to research the effects that bison wallows have on a restored prairie community. Additionally, I reestablished research on the effects that mound-building ants have on prairie soils and plants. My first project occurred on Kansas prairies, published in 2006, and I plan to continue this project in Iowa. My student collaboration projects include research on geese functioning as vectors for zooplankton dispersal, effects of pesticide runoff on native plants, and the effects of estrogen on fathead minnow development.

### Academy Activities

I became a continually-active member shortly after moving to Iowa in 2006. I served as vice-chair in 2008, and then chair in 2009, for the Ecology and Conservation Biology sections during the annual meetings. As Vice Chair I judged student poster competitions and helped the chair conduct our section's oral presentations. As chair I edited abstract submissions for our section, communicated with authors about presentations, and conducted the section's sessions. In 2009 I brought one of my Wartburg student researchers to the meeting for his senior research poster presentation.

### Awards, Recognitions, Involvement

1. My most recent publication is:

Foster, J., J. Trager, and E. Freese. 2009. A small gem in Iowa. Proceedings of the North American Prairie Conference 21:22-34. Winona, MN. Winona State University.

2. My most recent award is:

Wartburg's Faculty Development fund. Money granted to support research for "Effects of bison wallows on animal and plant communities in a restored prairie".

3. I enjoy sharing my research with colleagues and the public alike. I've presented my research at state and regional meetings; spoken on my research as an invited speaker for organizations; and participated in an Iowa-based Bioblitz where I helped inventory organisms with colleagues, and with the general public.



## Candidates for Iowa Academy of Science Board of Directors

### Raymond Anderson

Senior Research Geologist, Iowa Geological & Water Survey/University of Iowa



*"In my career-long quest to understand Iowa's geologic history I have found the Iowa Academy of Science to be an important resource, providing peer review, many valuable contacts, and a wealth of information on Iowa science. I look forward to helping to guide the Academy for the next few years."*

Dr. Raymond Anderson has worked in a variety of positions with the DNR's Iowa Geological & Water Survey since he began there in 1970. He is currently a Senior Research Geologist, but has also served as a Remote Sensing Analyst and as a Section Supervisor for 25 years. He has also served as an Adjunct Associate Professor of Geoscience at the University of Iowa since 1992.

### Academy Activities

Ray has been a member of the Iowa Academy of Science since the mid 1970s and a Fellow since 1982. He served as President of the Academy from 2002-2003, Board of Directors from 2003-2005, and has served on several Academy committees, chairing two including the Geology Section. Ray has presented papers at over 18 annual meetings as well as several ISTS Fall Conferences. Ray also developed the Academy's first web site.

### Awards, Recognitions, Involvement

Ray has guided the activities of the Geological Society of Iowa for several decades, serving several terms as Society President and as Director and editing 23 guidebooks including the natural history of twelve of Iowa's State Parks. He chaired the 1992 Annual Meeting of the North-Central Section of the Geological Society of America and three Tri-State Geological Field Conferences. Ray has served on the University of Iowa's Geology Alumni Advisory Board since 1993 and on the Earth Science Advisory Committee for the University of Northern Iowa from 2006.

### Doug Getter

Retired Executive Director, Iowa Biotechnology Association

Doug Getter retired from the Iowa Biotechnology Association as of December 31, 2010. He joined the Iowa Biotechnology Association in 1997 as its Executive Director. The mission of the Association is the growth and development of life sciences in Iowa. Under his guidance the Association's membership grew from 18 companies and organizations to over 90 members. The Association is a state affiliate to the Biotechnology Industry Organization, the national industry advocacy group with over 1,200 members.

Prior to leading the Association, Doug served as Project Manager for the nonprofit Wallace Technology Transfer Foundation and has been actively involved in economic development, technology policy and entrepreneurial business development for over 25 years. Educationally, he has a Masters in Business Administration and a Bachelor's Degree in Finance, both degrees from Drake University. Currently he is a member of the City Council in Webster City and Vice President of Trinity Lutheran Church Council.

He served nine year as a Board Member of the Urbandale Community School District - serving two tours as Board President. In addition, he was a member of the Urbandale City Council, on the Board of Directors of Heartland Area 11 Education Agency, Past-President and a Board Member of the Urbandale Dollars for Scholars Chapter, Past-President and Board Member of the Urbandale Community Theatre, LTD., former Board Member of Iowa Dollars for Scholars, active in his church, served as a regional and state problem judge for Destination Imagination, and is a Certified Barbecue Judge by the Kansas City Barbecue Society.

### Seeking Donations for the 5th Annual IJAS Silent Auction

Silent Auction proceeds support the activities of the Iowa Junior Academy of Science, including the participation of IJAS members in the Iowa Academy of Science Annual Meetings.

If you wish to donate, please contact Debbie Dean at 319-273-2021 before April 15th.

## Candidates for Iowa Academy of Science Board of Directors

### Kavita R. Dhanwada

Associate Dean/Associate Professor,  
University of Northern Iowa



*"My association with IAS has allowed my students the opportunity to present their scientific work to a variety of educators, researchers and other science professionals and have truly reflected its mission - to further research and science education and allow for a greater public understanding of the sciences. I would continue to promote the public dissemination of science across Iowa at all levels. Thank you."*

University of Northern Iowa, 1998-present

- Associate Dean, College of Humanities, Fine Arts & Natural Sciences, 2010-present
- Interim Head, Department of Biology, 2007-2008
- Associate Professor, Department of Biology, 2004-present
- Assistant Professor, Department of Biology, 1998 - 2004

Academic Advisor, Academic Advising Center, University of Iowa, 1997-1998

Postdoctoral Fellow, College of Medicine, University of Iowa, 1994 -1997

Adjunct Faculty, Dept. of Math and Science, Kirkwood Community College, 1996-1997

### Academy Activities

I have been a member of the Iowa Academy of Science since 2002 and since that time an active member of the Environmental Health and Sciences section, having sponsored multiple student presentations. I have served as Chair or Vice-Chair of this section for the last four years and am the current Chair. As section Vice-Chair, roles have included attending and judging IJAS poster/oral presentations. As Chair, I have been active in recruiting presenters for the annual meeting, organization of meeting sessions and conducting the business meetings of the session in addition to providing suggestions for symposium topics and speakers.

### Awards, Recognitions, Involvement

- Developing and directing CSI: Cedar Falls - Crime-fighting with biotechnology, biotechnology workshop for high school students starting in summer 2010
- Serving as a Board member of the Iowa Biotechnology Association since 2008
- Coordinator/Advisor, Professional Science Masters program in Biotechnology at UNI since 2007

### Mahdi Al-Kaisi

Associate Professor, Agronomy Department,  
Iowa State University



*"Iowa Academy of Science was established to promote scientific research, science education, public understanding of science education, and recognition of excellence in these endeavors. I would like to contribute to this mission as a member of the board of directors, if I have the opportunity to serve."*

Currently, Dr. Mahdi Al-Kaisi is an associate professor of soil science at the Agronomy Department at Iowa State University. He joined the faculty in 2000. Prior to joining ISU, he worked as Extension water quality specialist from 1990 to 2000 with Colorado State University. From 1980 to 1986, he joined the Department of Soil Science at North Dakota State University as a research assistant, where he completed his M.S. and Ph.D. in soil physics with emphasis on soil and water conservation.

### Academy Activities

Dr. Al-Kaisi joined the Iowa Academy of Science in 2001 to present. He chaired the IAS Conservation Committee and participated in the IAS activities.

### Awards, Recognitions, Involvement

Currently, he serves as an Associate Editor of Journal of Environmental Quality of the American Society of Agronomy and Associate Editor of the Journal of Soil and Water Conservation. He services on International Committee for Developing International Soil Quality Standard. He received Awards of Excellence in developing printed and electronic educational materials by the American Society of Agronomy.

**Have you recently moved or changed your  
phone number, email or other contact  
information?**

**Keep your Academy membership records up  
to date by contacting Toni at: [iascience@uni.edu](mailto:iascience@uni.edu)**

**Or log into the IAS Member's Only Website  
([www.iacad.org](http://www.iacad.org)) and update your profile  
yourself from any web browser!**

## Candidates for Iowa Academy of Science Board of Directors



**Jeff Weld**  
IMSEP Director

*"The urgency and expectation for quality science (and math, technology) education in Iowa has never been more pressing. The IAS serves admirably to raise the bar through engagement of members, but to leverage human resources*

*of the Board for synergistic advancement would be my purpose."*

Currently director of the Iowa Mathematics and Science Education Partnership since 2008. Associate Professor, UNI department of biology since 2004. Assistant Professor, department of Biology, at UNI, 2000-2004. Assistant professor, science education, Oklahoma State, 1998-2000. Doctoral studies in science education at the University of Iowa culminated in Ph.D. in 1998. Instructor of microbiology and physiology at DMACC in Newton, 1994-1997. Instructor of science methods at Central College, 1994-1996. Life sciences instructor, Pella high school, 1992 to 1996. Sciences instructor, Kirkwood high school in St. Louis, 1989 to 1992. Science instructor, Mission high school in Texas, 1986- 1988.

### Academy Activities

- Iowa Science Teachers Section, Chair of the Publicity Committee, 2006- 2007
- Conference Chair of the ISTS Fall Conference, 2006
- Chair of the Iowa Science Teachers Section of the IAS, 2004
- Excellence in Science Teaching Award Director, 2001

### Awards, Recognition, Involvement

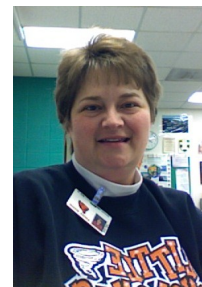
- Member since 2000
- 2007 National 4-year college biology teacher of the year.
- Editor and lead author of the science methods textbook "The Game of Science Education" (2004).
- Board member for the National Alliance for Partnerships in Equity and its state affiliate the Iowa STEM Equity Pipeline.

## Candidate for Iowa Science Teaching Section Vice Section Chair

### De Anna Tibben

Science Teacher, Ames High School

*"I am dedicated to Science Education in Iowa. I will strive to continue the mission of IAS-ISTS and improve upon its effectiveness."*



- August 1999 to present 9th grade Earth & Space Science Teacher, AHS, Ames Community Schools, Ames, Iowa
- Summers 2010, 2009 Education Instructor, Astronomy for Teachers Workshop UNI, Cedar Falls, Iowa;
- Spring 2009, Instructor, Elementary Science Methods, ISU, Ames, Iowa
- Summers 2007, 2008, Instructor, CYAdventures, ISU, Ames, Iowa

### Academy Activities

I have been an active member of IAS-ISTS for 10 years. I first presented at the ISTS Fall Conference in 2000. I served as the ISTS Earth Science Chair 2005-2007. I stepped down when I became Chair-elect. During my time as Interest Area Chair, I was able to increase attendance to the Conference Breakfast Sessions. I was given charge to organize the pre-conference evening session at SCI for the 2008 and 2009 Fall Conferences by then Chairs Traci Maxted and Morgan Masters. I was Fall Conference Chair in 2010. For the ISTS Fall Conference, I organized a 3-day workshop that included a Saturday field trip.

### Awards, Recognition, Involvement

Named one of the 2010 Section Outstanding Earth Science Teachers (OEST) by the National Association of Geoscience Teachers (Society's Award for Excellence in Earth Science Teaching State winner and Section winner)

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

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

**[connectamillionminds.com](http://connectamillionminds.com)**



## Iowa Science Teaching Section

### Fall Conference

### New Dates Announced

October 17th-18th, 2011

Scheman Center on the  
ISU Campus, Ames

### Submit a Presentation Proposal:

<http://ists.pls.uni.edu/>

Deadline is June 15th



## Iowa Academy of Science – Election 2011

Rules: Ballots must arrive at the IAS Office by Thursday, **April 7th, 2011**. One Ballot per member. No Photocopies.

Return to: Debbie Dean, Iowa Academy of Science, UNI—175 Baker Hall, 2607 Campus St., Cedar Falls, IA 50614-0508

### IAS President-Elect

(vote for one)

\_\_\_\_ Tom Ervin

\_\_\_\_ Johanna Foster

### IAS Board Director

(vote for two)

\_\_\_\_ Raymond Anderson

\_\_\_\_ [Name obscured]

\_\_\_\_ Doug Ge...

\_\_\_\_ Mahdl Al-Kalsi

\_\_\_\_ Jeff Weld

**ISTS Section Vice Chair** (this portion of the ballot is only printed in the bulletin mailed to members of the ISTS Section)

\_\_\_\_ DeAnna Tibben

\_\_\_\_ write in \_\_\_\_\_

## Welcome Corporate Members

The Iowa Academy of Science welcomes Basic Materials Corporation Aggregates, L.C. and Rockwell Collins as Corporate Members of the Academy.

Founded on December 1, 1982, Basic Materials Corporation was a joint venture between Cedar Valley Corp. and Manatt's Inc. Since then BMC Aggregates has acquired several quarries in northeast Iowa and added Sandblast Sand to its product line. The company also operates the Waterloo Recycle Site where old concrete is crushed into a reusable base material. BMC provides a variety of crushed stone, sand and gravel, and specialty products.

Since its founding by Arthur Collins as Collins Radio in 1933, Rockwell Collins and its products have been recognized for distinctive quality and state-of-the-art technology. The company initially designed and produced short wave radio equipment capturing the world's attention when Collins supplied the equipment to establish a communications link with the South Pole expedition of Rear Admiral Richard Byrd in 1933. It was acquired by Rockwell International in 1973 and spun off as Rockwell-Collins, Inc. in 2001. Today its electronics are installed in the cockpits of nearly every airline in the world and transmit 70% of all U.S. and allied military airborne communications.

The Academy thanks these corporations for their support of science in Iowa and for joining Iowa Academy of Science. We appreciate the opportunity to work together for the advancement of science research, science education, and the public understanding of science.

### 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.

### Journal of the Iowa Academy of Science

JIAS is currently soliciting papers for Volume 118. The Journal considers several types of contributions from disciplines represented by sections of the Academy including formal research with no minimum or maximum length; reviews or annotated bibliographies; and papers on science teaching. Previously copyrighted material will not be considered.

A checklist and submission form is available on the IAS website:

**[www.iacad.org](http://www.iacad.org)**



## **Call for Presenters**

### **2011 IAS Speaker Series at the Saylorville Visitor Center**

The IAS Speaker Series at Saylorville Visitor Center provides opportunities for the public to meet Academy members and learn about the science happening in Iowa. The Academy is seeking members to present in the fourth annual IAS Speakers Series. All areas of science are welcome. Past presentation topics have included Iowa giant ground sloths, fossil birds of Iowa, ground water quality and wildlife photography in field research. Help the Academy reach our mission of promoting public understanding of science by sharing what YOU do!

All presentations are at 2:00pm on Saturdays in June, July and August. Individual speakers will select their presentation date.

The IAS Speaker Series is co-sponsored by the IAS and the Army Corps of Engineers at Saylorville Lake.

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

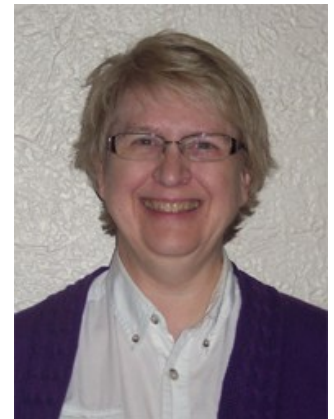
## **IAS Welcomes**

### **Executive Assistant, Debbie Dean**

The Academy has a new Executive Assistant. We are pleased to announce that Debbie Dean joined us in October. Debbie replaces Toni Arends who decided to make a career change after serving the Academy since 2005. We wish Toni the best as she leaves the office for a new venture.

Debbie is a Cedar Falls resident and is a graduate of the University of Northern Iowa with a BA degree in Accounting. She has considerable clerical and office work experience having worked for the Cedar Falls Community School District for much of her career with responsibilities in accounts payable, payroll and as the Bus Garage Administrative Assistant.

As Executive Assistant, Debbie is responsible for maintaining accounting, membership, and filing records, conference registrations, coordinating mailings, communicating with members and vendors, and maintaining the office, to name a few major duties. When you call the Academy office at 319-273-2021, you will be greeted by Debbie. You may also email her at [iascience@uni.edu](mailto:iascience@uni.edu). She will be happy to help you. We are pleased to have Debbie and the expertise she brings to the Academy.



## **Wanted: Saylorville Gift Shop**

### **Coordinator**

Gene Lucas, the Academy's longtime volunteer in the gift shop of the Saylorville Visitor Center, has asked to step down from his position. Gene has served the Academy, the Saylorville Visitor Center, and the public for many years by overseeing the inventory in the gift shop. To continue our relationship with the Army Corps of Engineers at Saylorville the Academy needs a volunteer to fill the position.

Our arrangement with the Army Corps of Engineers at Saylorville has provided the Academy with an important outreach opportunity. We help choose interpretive and educational items for the visiting public and in return the Academy is able to use the facilities for IAS sponsored events such as our summer Speaker Series at Saylorville. We also share in the profits earned from the gift shop.

If you would like to learn more about this position please contact:

Craig Johnson, Executive Director

Phone: 319-273-2581

Email: [craig.johnson@uni.edu](mailto:craig.johnson@uni.edu)

## **Announcements, Events & Deadlines**

- **Advance Registration for IAS Annual Meeting**  
Due: Friday, April 15th, 2011, fees increase after this date
- **IJAS Silent Auctions Donations Due**  
Friday, April 15th, 2011
- **The 123rd Annual Meeting of the Iowa Academy of Science**  
April 29 & 30, 2011  
Wartburg College Campus, Waverly  
Advance Registration due: April 15th
- **ISTS Fall Conference Presentation Proposal Deadline**  
June 15th, 2011
- **Iowa Science Teaching Section Fall Conference**  
October 17th-18th, 2011  
Scheman Center on the ISU Campus, Ames

See [www.iacad.org](http://www.iacad.org) for additional event/program details. Do you have know of an event that should be listed in here?

Contact [iascience@uni.edu](mailto:iascience@uni.edu) and let us know!

### **Evolution Resources**

**from the**

### **National Academy of Sciences**

<http://nationalacademies.org/evolution/index.html>

### **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!

## Iowa Academy of Science Member Donations in 2010

### Under \$50

Candice Gardner  
Brenda Molano-Flores  
Bruce Ehresman  
David Roslien  
De Anna Tibben  
Donald Langr  
Erica Larson  
Gilbert Hewett  
Jack Gerlovich  
James North  
Jeffrey Elbert  
John Patterson  
Kavita Dhanwada  
Lee Potter  
Mario Affatigato  
Mary Feddersen

Melissa Spencer  
Michael Goudy  
Neil Bernstein  
Patricia Gingrich  
Paul Joslin  
Srini Iskandar  
Thomas Gibbons  
Troy Schwemm  
Verlin Fleagle  
William Gilbert III



### \$50 plus

Craig Nordenson  
David Hodgkin  
Donald Koch  
George Burnet  
George Magrane  
J. Yohe  
LaVerne Durkee  
Lenore Durkee  
Marcy Seavey  
Michael Yohe  
Otto Knauth  
Peter Hansen  
Ruth Swenson  
Shirley Cropper  
Traci Maxted  
William Desmarais

### \$100 plus

Charlie Martinson  
Jean Sandrock  
Karl Seifert  
Peter van der Linden  
Richard Lampe  
Terry Meyer  
Bion Pierson  
**\$250 plus**  
Nick Stoyloff  
**\$500 plus**  
Harry Horner

Thank you to all Academy members who made financial contribution to IAS between January 1 & December 31, 2010.

## 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.

# Iowa Academy of Science The New Bulletin

Volume 7 Number 1 Winter 2011

**Iowa Academy of Science**  
UNI -175 Baker Hall  
2607 Campus St.  
Cedar Falls, Iowa 50614-0508

*Return Service Requested*

The New Bulletin is a publication of the Iowa Academy of Science and is distributed to current IAS members 3-4 times per year.

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<http://www.iacad.org>

Managing Editor: Craig Johnson  
Editor: Marcy M. Seavey

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**Article Submission:** The deadline for submission of articles for Vol. 7 #2 is June 1, 2011. Articles must be pre-approved. For more information contact Craig Johnson, IAS Executive Director, at [craig.johnson@uni.edu](mailto:craig.johnson@uni.edu)

**Advertising Rates:** request advertising information from [iascience@uni.edu](mailto:iascience@uni.edu)

## **Iowa Academy of Science**

### **Institutional Members**

University of Northern Iowa, Cedar Falls  
Buena Vista University, Storm Lake  
Central College, Pella  
Coe College, Cedar Rapids  
Cornell College, Mt. Vernon  
Des Moines University, Osteopathic & Podiatric Medicine  
Drake University, Des Moines  
Graceland University, Lamoni  
Grand View University, Des Moines  
Great Ape Trust of Iowa, Des Moines  
Iowa Central Community College  
Iowa Conservation Education Coalition  
Iowa State University, Ames

Iowa Wesleyan College, Mt Pleasant  
Kirkwood Community College, Cedar Rapids  
Krell Institute, Ames  
Luther College, Decorah  
Mount Mercy College, Cedar Rapids  
North Iowa Area Community College, Mason City  
Northwestern College, Orange City  
Simpson College, Indianola  
The Nature Conservancy, IA  
The Putnam Museum, Davenport  
University of Dubuque, Dubuque  
University of Iowa, Iowa City  
Wartburg College, Waverly