

Iowa Academy of Science

The New Bulletin

Volume 10 Number 3 Fall 2014

December 18, 2014



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,

Many changes are taking place at the Iowa Academy of Science. You probably already know that we have inaugurated a new website with a new URL. The familiar iacad.org web home for the Academy has been changed to www.scienceiniowa.org. The change was made to put "science" in our web address and to promote the fact that IAS is dedicated to promoting science for all lowans. The site is updated frequently. If you haven't had a chance to visit it please take the time to do so soon. Site content will grow as we provide information to all lowans wanting science related information and opportunities.

We have also been updating software in the IAS office. Our IAS membership database is now running on software that provides more capability than the previous system and at a lower cost. We are able to facilitate membership renewals and donations, online meeting registration, member volunteer opportunities, and membership communications.

The next issue of the Journal of the Iowa Academy of Science will be published online. The online Journal will be available to members and subscribers through the Member Login on our home page. Recently we added Journal volumes from 1971 through 2012 as PDF files to our website. IAS members and Journal subscribers will be able to access these files from the Members Only login. See the login instructions below. We want to thank the Office of the State Archeologist for scanning these issues. We are currently working toward making all previous issues of the Journal (back to 1882) available online.

The changes we are making are helping us cut costs by being more efficient and using fewer resources. However, with change come growing pains. We hope to implement changes with a minimum of disruption. As we gain experience with our new system we will find more ways to use it. If you have questions or need assistance please contact the IAS office by phone or email.

Thank you for being part of the Iowa Academy of Science! On behalf of IAS Board of Directors, Robin Husman, Eve Halligan, and student worker Allison Wold, Happy Holidays! — Craig Johnson

Member Only Website Log-in

STEP 1: Go to www.scienceiniowa.org.

STEP 2: Click on "Membership" on the top menu bar then click on "Member Login."

STEP 3: Click on "Members Only" on the top menu bar.

STEP 4: Log in.

If you have forgotten your password click on "Forgot Password."

Questions? Please contact the IAS Office.

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ICTM-ISTS Math Science Fall Conference

The 2014 ICTM—ISTS Math Science Fall Conference was held on Wednesday, October 21st and 22nd in the Scheman Building at Iowa State University. The conference attracted 550 science and math teachers for a full day of conference activities. This was the second year of a joint conference between the Iowa Council of Teachers of Mathematics and ISTS and demonstrates a willingness on the part of both organizations to work together to promote STEM education in Iowa.

ISTS 2014 Friend of Science Awards



Corporate Friend of Science Award
Kemin Industries; accepted by Penny Woods and Zita Quade. Shown with Kelen Panec, ISTS Chair (right)



Friend of Science Award—Corporate
Pella Wildlife Company; accepted by
Ron De Armond, CEO, presented by Kelen Panec

The ISTS Friend of Science awards are presented in two categories for significant contributions to ISTS or to science education at the local regional or statewide level. The Corporate Friend of Science is presented to a corporation, coalition, foundation, or government entity. The Friend of Science Award is also presented to individuals or groups. Learn more at www.scienceiniowa.org.



Friend of Science—Individual; Posthumous award
Joseph Schwanebeck, Science Center of Iowa; accepted
by Yvette McCulley,



Friend of Science Award—Individual
Peter Holden, North Tama Schools and Mayor of Traer;
Award presented by Kelen Panec

ISTS 2014 Outstanding Service Awards



Outstanding Service Award
Recipient: Gale Vermeulen (left) with Kelen Panec



Outstanding Service Award
Recipient: Traci Maxted (right) with Nadine Weirather,
President of the Iowa Academy of Science

Outstanding Service Awards

The ISTS Outstanding Service Award is presented to ISTS members who have made sustained extraordinary contributions to ISTS and/or to science education at the state and/or national level. For a list of past winners go to the IAS website at www.scienceiniowa.org and click on ISTS.

Presidential Awards

The Presidential Awards for Excellence in Mathematics and Science Teaching (PAEMST) are the nation's highest honors for teachers of mathematics and science (including computer science). Awardees serve as models for their colleagues, inspiration to their communities, and leaders in the improvement of mathematics and science education. Iowa's 2014 nominees were honored at the PAEMST Recognition Dinner on Tuesday evening before the conference. The dinner was held at the CiBRC Building at Iowa State University.

2014 PAEMST Nominees



Josh Steenhoek Jefferson Intermediate , Pella,
with Yvette McCulley



Jessica Watson (right), Downtown School
Des Moines, with Yvette McCulley

2014 ICTM—ISTS Math Science Fall Conference continued...

2012 Iowa PAEMST Winner Honored

Mason Kuhn was honored at the PAEMST Recognition Dinner held the evening before the fall conference. Mason was Iowa's PAEMST Science winner for 2012 and had the opportunity to travel to Washington, D.C. to be recognized by the President, March 2—5, 2014. Mason is shown in the picture with Yvette McCulley, Congratulations to Mason for this honor and for representing Iowa science teachers.



More conference photos, information, and the complete program are available at www.scienceiniowa.org

Save the Date!

2015 ICTM—ISTS Math Science Conference
September 20—21, 2015
Valley High School
West Des Moines, Iowa

New IAS Program Coordinator

This past summer Eve Halligan contracted with the Academy to facilitate the Project WET and GLOBE programs in Iowa and work on new



initiatives to assist the Academy in its commitment to promote science education and the public understanding of science. Eve is an Iowa native. Her experience includes the NASA E/PO programs and the Planetary Science E/PO Forum for the Lunar and Planetary Institute, USRA, Houston, TX and the Bluedorn Imaginarium in Waterloo, Iowa. You may call Eve at 319-273-7486 or email her at eve.halligan@uni.edu.

New REAP Grant

The Academy has received a REAP Education Grant in the amount of \$28,915.00 for *Water Conservation Workshops for Pre-Service Teachers*. The program, to be facilitated by Eve Halligan, will provide up to 16 water conservation workshops to an estimated 320 pre-service teachers. The goal is to provide pre-service teachers with knowledge, materials and tools to teach their future students about the importance of water as a resource in Iowa and the world. The program utilizes Project WET resources to fulfill its goal of providing long-term environmental education to Iowans. You can learn more about Project WET and follow the progress of this grant program on the IAS website at www.scienceiniowa.org.



Call for Papers

127th Annual Meeting Iowa Academy of Science

April 17-18, 2015
Iowa Memorial Union
University of Iowa
Iowa City, Iowa

www.scienceiniowa.org

Iowa scientists, engineers, science educators and science students are cordially **invited to submit abstracts to be considered for poster or oral presentations** at the 127th 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.

Our meeting offers a friendly atmosphere for undergraduate and graduate students to gain experience in presenting their research to others. *You do not need to be a member of the Academy to present at the Iowa Academy of Science Annual Meeting.*

Abstract submission is open through

Abstract Submission

Includes publication of your abstract in the *Proceedings of the Iowa Academy of Science* and reduced conference registration for primary presenters.

Attendance includes access to more than 120 scientific presentations by Iowa scientists, keynote speakers, and symposia presentations.

Meet your colleagues at the IAS 127th Annual Meeting.

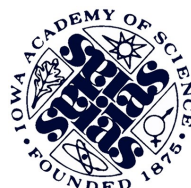


Submit an abstract today!

Visit www.scienceiniowa.org to submit your abstract

Click on IAS 2015 Annual Meeting

Click on Abstract Submissions



New Academy Website



2015 IAS Annual Meeting



ICTM-ISTS Math Science Conference



Iowa Junior Academy of Science



Opportunities



Iowa Science Teaching Section



IAS Science Education Programs



IAS Speaker Series at Saylorsville Lake



IAS NWR Audio Series



Help advance science in Iowa.

IAS Links

[Abstract Submission](#)
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Click here to learn about the origin of the IAS Logo.

IAS Organization

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The Academy has a new website and new URL. We want to encourage IAS members to use our website to read IAS publications, renew memberships, register for events and learn about science opportunities in Iowa. We are posting educational and professional development opportunities, employment announcements, and science oriented events of interest to our members. We also have the capability to upload submissions, applications, articles, and other routine business information to the Academy office bypassing the handling of mail and paper copies. Nominations, research proposals, voting, and other functions are easily set up and managed.

We recently installed new membership data management software. IAS members are now able to access their account online and view membership, registration, and donation payments. You may easily change your section membership, contact information and volunteer for Academy projects. Please visit our website to learn more:

www.scienceiniowa.org

Iowa Science Foundation

Each year the Iowa Academy of Science administers the state supported Iowa Science Foundation program. The Iowa Science Foundation Committee of the Academy accepts grant proposal submissions and oversees the review process that advances three areas of the Academy's mission; science research, science education, and the public understanding of science. A total of \$40,000 is available to fund grant proposals with a maximum of \$5,000 allowable for each grant.

Requests for funding for the 2014—2015 fiscal year from July 1, 2014 to June 30, 2015 totaled \$91,456.63. There were 20 proposals submitted. The committee was able to grant funding to 12 proposals. If you have questions about the ISF program visit our website or contact the IAS Executive Director.

<http://www.scienceiniowa.org/iowa-science-foundation>

Recognizing Excellence

Distinguished Science Awards

The Academy Distinguished Science Awards program was established in 1980. These are the highest awards given by the Iowa Academy of Science. The Recognition and Awards Committee makes recommendations to the Board of Directors by March 1st.

Distinguished Fellow Award

The highest award given by the Academy. It is intended to recognize exceptional scholarly activity to the national and international scientific community.

Distinguished Iowa Science Teaching Award

Recognizes exceptional university and college faculty for their innovative science teaching.

Distinguished Iowa Scientist Award

Intended for individuals deserving recognition within their own area of science and who have gained state-wide acclaim.

Distinguished Service Award

Given to organizations and individuals for exceptional service to science technology or the application of science.

Nomination Deadline: February 6th

Events and Deadlines

Membership Renewals

Please renew your 2015 dues by December 31st
Renew online or by mail to the IAS office

ESTA Nomination Deadline

January 31, 2015
Apply online

Iowa Science Foundation Proposal Deadline

January 31, 2015
Submit proposals online

Distinguished Awards Nomination Deadline

February 6, 2015
Nominate online

Abstract Submissions

127th IAS Annual Meeting
Submission deadline February 9, 2015

Myrle Burk Scholarship

Application Deadline
March 27, 2015

127th Iowa Academy of Science Annual Meeting

April 17—18, 2015
Iowa Memorial Union
The University of Iowa
Iowa City, Iowa

Excellence in Science Teaching Award

Award Categories

- Physical Science
- Life Science
- Earth/Space/Environmental Science
- Science Supervisory
- General/Multiple Science
- Middle School/Junior High Science
- Elementary Science (two awards annually)

Nomination Deadline: January 31st

Brochures for ESTA and Distinguished awards are available at
www.scienceiniowa.org

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Iowa Academy of Science
BRC 50
University of Northern Iowa
Cedar Falls, Iowa 50614-0508

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To learn more about our Corporate Members visit the IAS website at www.scienceiniowa.org and click on 'Partners' on the top menu bar.

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

Grinnell College, Grinnell

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

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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

Upper Iowa University, Fayette

Wartburg College, Waverly

