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Message from the Executive Director

Hello from the Iowa Academy of Science. As previously announced the IAS Bulletin is becoming an electronic publication available in the Members Only section of our website. The Bulletin is moving online to save printing, paper, postage, and staff costs. We are, however, still printing and mailing the Bulletin to members who do not have a valid email address on file with the Academy. If you have an email address but did not receive the email announcement about this issue of the Bulletin please update your profile on the “Member Only” section of our website or call the IAS office at 319-273-2021. Login information is available below. The Academy uses your email address only for Academy business and to keep you apprised of Academy and other science related events. We do not provide it to third parties.

This is our annual election issue. Six Academy members have stepped forward to run for office; two for President Elect and four seeking two open positions on the Board of Directors. Please read the candidate statements and biographies in this issue or on the IAS website.

Members without a valid email address at the Academy receive their ballot by mail. The ballot includes their ballot code. They may vote by returning the original ballot by mail or vote online. Members notified of the election by email must vote online. Vote online at www.scienceiniowa.org. The ballot code must be included when voting.

The 127th IAS Annual Meeting is fast approaching. We often hear from new attendees how much they enjoyed the Annual Meeting and the benefits of being with other science professionals from across the state. We hope to see you at the Iowa Memorial Union at the University of Iowa on April 17—18, 2015. Go to www.scienceiniowa to learn how to register online or by mail. You may also contact the Academy office at 319-273-2021 or email us at iascience@uni.edu. On behalf of the IAS Board of Directors and the IAS staff we hope to see you at the University of Iowa. Thank you for supporting the Iowa Academy of Science.

Craig Johnson, Executive Director

Member Only Website Log-in

STEP 1: Go to www.scienceiniowa.org.
STEP 2: Click “Membership” on the top menu bar then click on “Member Login.”
STEP 3: On the IAS Membership and Registration website click on “Members Only.”
STEP 4: Log in.
If you have forgotten your password click on “Forgot Password.”

Questions? Please contact the IAS Office.
General Sessions

General Session I
Ten Seasons in Antarctica
11:00 a.m. Friday, April 17, 2015
University of Iowa
Iowa Memorial Union
Main Lounge
Open to the public free of charge

Paul Jones is a retired Montezuma, Iowa biology, chemistry, and physics teacher who has served in Antarctica with Raytheon Polar Services.

General Session II
The Internet: Past, Present, and Future
7:45 p.m. Friday, April 17, 2015
University of Iowa
Iowa Memorial Union
Main Lounge
Open to the public free of charge

Daniel Reed is Vice President for Research and Economic Development at the University of Iowa.

Advance Registration Deadline: April 8, 2015
Register Online or by Mail
Session Information, Meals, Schedules, Hotels, Directions Available Online
Check Often for Updates
www.scienceiniowa.org
General Sessions Continued

General Session III
Wind Energy: Past Present and Future
11:00 a.m. Saturday, April 18, 2015
University of Iowa
Iowa Memorial Union
Main Lounge
Open to the public free of charge

P. Barry Butler is the Executive Vice President and Provost at The University of Iowa.

Symposiums

Symposium A: Floods in Iowa
2:30—4:30 p.m., Friday, April 17th

Symposium B: The Past in Our Backyards: An Introduction to Iowa City Archeology
2:30—4:30 p.m., Friday, April 17th

Symposium C: Modeling Human Disease in Research Friendly Organisms
2:30—4:30 p.m., Friday, April 17th

Research Presentations

158 Poster and Oral Research Presentations
Posters are presented on Friday and oral presentations on Saturday.

Volunteering at the IAS Annual Meeting

Each year many IAS Members volunteer at the IAS Annual Meeting. One of the most important tasks is judging for the Iowa Junior Academy of Science Annual competition. We need faculty, graduate and undergraduate students to judge poster and oral presentations by middle and high school students. We need veteran as well as first time judges. This is a rewarding experience for the students and the judges. If you are interested you may call the IAS office for more information or look online and conveniently sign up on the IAS homepage at www.scienceiniowa.org.

Judges are also needed for the TriBeta National Biological Honor Society North Central District 3 Convention which is also being held at the IAS Annual meeting. There will be judging of poster and oral presentations. If you are interested you may link to more information and sign up at www.scienceiniowa.org.

Thank you for supporting science and science education in Iowa.
Candidates for IAS President-Elect

"As Iowa’s oldest existing scientific association, IAS has established itself as a state leader in the promotion of science research and education. If elected to serve IAS as President Elect, I would hope to expand opportunities for educational programs that encourage student training and research in all fields of science."

Melinda Coogan
Associate Professor of Biology
Buena Vista University

Professional Experience
Faculty Member, School of Science, Buena Vista University, 2007 – present
Ph.D., Environmental Science, University of North Texas, 2007
M.S., Biology, Western Illinois University, 2004

Special Activities & Recognition
Member and current Chair, Buena Vista County Conservation Board, IA, 2013 – present
Affiliated Faculty and Researcher, UNT Sub-Antarctic Biocultural Conservation Program, Puerto Williams, Chile, 2012 – present
Chair, Storm Lake, IA, Storm Water Advisory Committee, 2009 – present
24th Annual George Wythe Laureate, Buena Vista University, 2010
Board Member, Raccoon River (IA) Watershed Association, 2007 – present

IAS Membership
IAS member, 2008 – present
Environmental Science and Health Section Chair and Co-Chair, 2009 – 2014
Societal Issues Chair, 2013 – present

"I am honored to be a candidate for President-elect of the Iowa Academy of Science. I welcome the opportunity to apply my leadership experience on governing boards and commissions to address matters of concern of the membership, expand IAS membership, and keep the organization moving forward productively."

Joseph Tiffany
Research Associate, The Office of the State Archeologist
The University of Iowa

Professional Experience
I am a North American archaeologist and retired university professor with 45 years of experience in Midwest and Plains prehistory.

My professional experience includes membership and chairing of several public and professional boards and commissions, and editor of two professional journals. My 150 plus publications include monographs, articles, book chapters, reports, book reviews and obituaries; and 60 professional presentations: including invited papers, chairing sessions, and other contributions.

Special Activities & Recognition
2013 Distinguished Service Award, Plains Anthropological Society
2013 James P. Gallagher Award for outstanding service and leadership, Mississippi Valley Archaeology Center, University of Wisconsin, La Crosse
2003 Keyes-Orr Distinguished Service Award, Iowa Archeological Society.

IAS Membership
IAS Member 1977, Fellow 1984
Emeritus 2014

In 2014, I received the Distinguished Fellow Award from the Iowa Academy of Science. I have presented papers and, chaired sessions, and have been an invited speaker at IAS annual meetings.
"The IAS is the quintessential science organization in Iowa, as well as a prominent scientific organization within the US. If elected, I will do my utmost to support the vision, mission, and goals of the academy and to work for greater public presence in all matters scientific that concern Iowans."

Mark Anderson
Research Archeologist, University of Iowa Office of the State Archeologist

Professional Experience
Professional archaeologist for nearly 30 years working in the Lake Superior basin, Northern Great Plains, and Upper Midwest. I specialize in Cultural Resource Management archaeology, lithic research, GIS/GPS, remote sensing methods, and ancient technology research. I have conducted several hundred research projects across the state, coordinating with landowners and supervising crews during research completion. I have participated in education outreach presenting numerous public presentations and interacting with dozens of individuals every year, and working with the public at large in interpreting and understanding Iowa’s rich cultural heritage.

Special Activities & Recognition
-Research Specialist for the Research Division of the Office of the State Archaeologist at the University of Iowa for the past 27 years.
-Currently President of the Iowa Society of the Archaeological Institute of America; Past-President of the Association of Iowa Archaeologists, and serve on the Big Sand Mound Preservation Board in Muscatine County co-sponsored by MidAmerican and Monsanto.
-Excavation and research experience in Oregon, South Dakota, Indiana, Ohio, Michigan, Minnesota, and Ontario.

IAS Membership
Member since 1991; served as Anthropology Section chair and vice-chair for multiple years; member of the Student Programs Committee (2008-2010); organized joint Anthropology/Science Teachers Section 2000 symposium on Teaching and Evolution; organized General Session III program “The Peopling of the Americas – A Discussion” for the 126th annual meeting in 2014; organized Symposium B “The Past in Our Backyards: An Introduction to Iowa City Archaeology” to be presented at the 127th annual meeting in 2015.

"Being an active member of the IAS 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."

Andrew Brittingham
Professor of Microbiology and Immunology
Des Moines University

Professional Experience
Professor: 2011- present, Des Moines University
Associate Professor: 2005-2011, Des Moines University
Assistant Professor: 2000-2005, Des Moines University
University of Iowa, Department of Internal Medicine Postdoctoral Fellow: 1997-2000
PhD: Temple University, School of Medicine (1997)
BS: Philadelphia College of Pharmacy and Science (1988)

Special Activities & Recognition
Des Moines University, Outstanding University Researcher Award (2005)
Dean’s Award for Outstanding Community Service (2009)

IAS Membership
Member 2001-present
Fellow, Iowa Academy of Science (2011)
Iowa Science Foundation Committee (Chair) 2006-2008
Annual Meeting Planning Committee 2009
Board of Directors 2009-2012
Finance Committee 2012-present
### Michael LaGier

**Assistant Professor of Biology**  
**Grand View University**

**Professional Experience**

Greetings. I am currently a microbiology professor at Grand View University. I consider myself both a teacher and a scholar. My current research uses genomics to examine the relationship between bacterial genome content and lifestyle. I have participated in funded, basic and applied research, at the University of North Carolina at Chapel Hill and at the Centers for Disease Control and Prevention (CDC). In addition, I have received formal training in pedagogy as an NIH-funded SPIRE fellow.

**Special Activities & Recognition**

I have experienced science in a variety of settings, and thus my experiences have been broad in seeing how science works at institutions with different strategic goals and responsibilities. For example, I have had opportunities to conduct research at research universities (University of North Carolina at Chapel Hill), undergraduate-serving institutions (Grand View University), and government agencies (CDC).

**IAS Membership**

Although I am new to Iowa, and IAS; I am excited about the possibility to serve an institution dedicated to the importance of science at all levels. I have acted as a reviewer for the Science Foundation Grant Program, and continue to look for ways to contribute to IAS.

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### Elizabeth (Betsy) Stone

**Assistant Professor**  
**University of Iowa**

**Professional Experience**

I joined the faculty of the Department of Chemistry at the University of Iowa in 2010 as an Assistant Professor. I conduct research in atmospheric chemistry and teach courses in analytical chemistry at graduate and undergraduate levels.

Prior to this, I was a Senior Scientist in the departments of Organic Chemistry and Environmental Chemistry at the Carlsbad Environmental Monitoring and Research Center at New Mexico State University (2009-2010). I earned by doctoral degree in Environmental Chemistry and Technology from the University of Wisconsin-Madison (2009) and by bachelor's degree in Chemistry and French from Grinnell College (2005).

**Special Activities & Recognition**

University of Iowa Early Career Scholar of the Year (2015)  
Environmental Science: Processes & Impacts Emerging Investigator (2014)  
Transform, Interact, Learn, Engage (TILE) Institute Faculty Fellow (2011)

**IAS Membership**

Member since 2012
Thank you to the following people who have donated to the Academy in 2014.

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