President’s Message
Contributed by Kathy Cabe Trundle

**Harvest Season**

Frost is on the cornfield
Pumpkins on the vine
Candle in the window
Just waitin’ on the stars to shine
Geese call in the distance
Like some choir way up there
The wood is up for winter
And the burley’s in the barn
Gonna need an extra blanket
You can feel it in the air

-- Johnsmith, 2001
As summer passes, the days grow shorter, and in my neck of the woods, the humidity drops to produce crystal clear, brilliant blue skies against which the fall foliage provides a pageant of spectacular colors. Around Ohio, as in other states, this time of year we enjoy various fall festivals, many of which focus on products of the autumn harvest. Since the 1930s, Jackson, OH has hosted an annual Apple Festival, and Circleville, OH is home of the annual Circleville Pumpkin Show, which attracts more than 400,000 visitors each year! And our celebration of the fall harvest culminates each year with Thanksgiving feasts.

In science teacher education, we also reap what we sow in terms of the bounty of knowledge we help generate each year. Our celebration of this harvest happens each January when we gather for our annual ASTE conference, which will be in San Antonio, January 15-18, 2014, at the beautiful Hyatt Regency San Antonio Riverwalk. Make sure to register before December 1 to get the discounted conference registration rate ([http://theaste.org/meetings/2014-international-meeting/](http://theaste.org/meetings/2014-international-meeting/)). Of course, onsite registration will be available, but preregistration saves you money and allows our conference chairs to make plans that will comfortably accommodate all attendees.

Gil Naizer and Janice Meyer, this year’s conference chairs, are hard at work with their committee, planning an exceptional conference for us. Our program will follow a format similar to previous conferences. The NASA Faculty Institute for Earth and Space Science Education (FINESSE) will be held Tuesday and Wednesday (January 14-15, 2014) from 9:00a to 5:00p. We also will have several other preconference options on Wednesday, January 15, with enlightening workshops and the Environmental Education Forum’s all-day fieldtrip to the Canyon Lake Gorge and Comal Springs. On Thursday morning at 6:45a, you can join colleagues for the Science Teacher Shuffle, a three mile fun run or two mile walk along the River Walk. Concurrent sessions and embedded workshops begin on Thursday morning, and our dessert reception and poster session follow that evening. Committees will meet Friday morning, and regional meetings will convene after the last concurrent session that day with the Women in Science Education (WISE) dinner at Casa Rio following. Forums will meet during lunch on Thursday and Friday, and our awards luncheon will be held on Saturday.
Thanks to Patricia Morrell and the Professional Development Committee, we have many outstanding workshops to offer this year. Topics include writing successful NSF proposals, using an iPad application to provide feedback to teachers and improve classroom instruction, developing or enhancing a nature of science course for inservice and/or preservice teachers, integrating iPads and BYOD with Vernier technology, and reworking your personal writing strategies.

As noted in the spring newsletter, the Executive Board is sponsoring a leadership workshop at this year's conference as part of a larger comprehensive effort to build and sustain a leadership learning community within ASTE. Our Executive Director Bob Hollon will serve as the primary facilitator. If you are interested in ASTE leadership activities such as chairing committees, volunteering for special projects, and potentially serving on the ASTE board, look for this opportunity on the conference registration form and sign-up to join our new leadership community. We also recommend this workshop to members who are interested in becoming more effective advocates for science education in their local settings and individuals willing to take on more visible advocacy roles in other professional organizations.

In addition to interesting concurrent sessions and workshops, this year’s conference will include remarkable keynote addresses. When thinking about possible speakers for our conference, Gil and Janice considered Texas’s deep and rich connections to space exploration. In fact, “Mission Control,” the Lyndon B. Johnson Space Center in Houston, trains astronauts from the US and our international partners and serves as NASA’s center for human spaceflight research and flight control. Two excellent speakers were selected to highlight the contributions our host state has made to space exploration and research.

Dr. David Kring, Director of the Center for Lunar Science and Exploration, will deliver a talk on “The Effect of Impact Cratering on the Evolution of the Earth and Moon.” His research focuses on what happens when asteroids and comets collide with planetary surfaces, including impact cratering processes and the effects of impacts on the geological and biological evolution of a planet. He is perhaps best known for his work related to the discovery of the Chicxulub impact crater, which has been linked to the mass extinction of dinosaurs and over half of the plants and animals living on Earth 65 million years ago.

Next year, 2014, is the International Year of Crystallography. As such, we are fortunate to have Dr. Larry DeLucas from the Center for Macromolecular Crystallography as a keynote speaker. In his talk, “Space Flight and Research on the International Space Station,” he will share his work and experiences as a payload specialist on the United States Microgravity Laboratory-1 flight, Mission STS-50 during June 1992.

Thanks to the diligent efforts of our 2014 Conference Program Committee, this year’s conference promises to be engaging and informative. Visit the ASTE website (http://theaste.org/meetings/2014-international-meeting/) to learn more about hotel accommodations, program details, and conference registration. I look forward to seeing you in San Antonio and feasting together on the fruits of our academic labor!
The 2014 ASTE International Conference
Contributed by Gil Naizer and Janice Meyer, 2014 Conference Planning Committee Co-Chairs

The ASTE Conference Planning Committee and the SW Region cordially invite you to attend this year's conference. The conference will begin with pre-conference activities on January 15 and continue through Saturday, January 18th.

The program includes a wide variety of topics that will surely result in stimulating conversations. The Texas motto of “Friendship” is appropriate for the ASTE Conference as we look forward to reconnecting with colleagues and making new friends at the conference.

San Antonio just celebrated completion of the Riverwalk Mission Reach: 8 miles of reclaimed waterways connecting downtown to the historic Spanish missions located south of city center. The San Antonio Riverwalk now provides something for everyone: from the restaurant/bar section many of you are familiar with to the natural feel of the mission reach & the upscale museum reach section. And of course, don’t forget the Alamo.

See you in San Antonio!
ASTE 2014 Pre Conference Field-Trip
Contributed by Al Bodzin

The ASTE Environmental Education Forum will be sponsoring a pre-conference all-day field trip on Wednesday, January 15 from 9am – 5:30 pm at the ASTE 2014 International Meeting in San Antonio, Texas. The field trip will include a tour and hike through the Canyon Lake Gorge and a visit to Comal Springs at Landa Park.

The Glen Rose limestone throughout Central Texas was laid down during the Cretaceous Era over millions of years. But within a few weeks following the dramatic Flood Event of 2002, “the Power of Water” carved a gorge into the landscape below the Canyon Lake Spillway. A true treasure was “unearthed.” On our 1.2 mile guided hike, you will view the geology of central Texas, including Hidden Valley Fault (within the Balcones Fault Zone), geologic formations, the Trinity Aquifer in action, as well as springs and waterfalls. Bring a camera for the spectacular scenery. We will also view biologic succession, 110-million-year-old dinosaur tracks, and examine the numerous Cretaceous marine fossils uncovered during the gorge formation. Hiking through the Gorge can be physically demanding, and is not recommended for people with heart conditions, bad knees, ankles or in poor physical health. Comal Springs is an awesome example of an artesian well and provides a good example of the karst geology/aquifer. We will be joined by an educational specialist from the Guadalupe Blanco River Authority.

Like our previous field trips, family and guests are welcome.

For more information, please contact me at amb4@lehigh.edu
Professional Development Opportunities at the 2014 ASTE Conference
Contributed by Tisha Morrell

Your Professional Development Committee is excited to give you a preview of the special professional development sessions that will be offered at the ASTE Conference in San Antonio. Look for these in the Conference Program and plan your daily schedules accordingly!

WEDNESDAY (Pre-Conference)

Generating Effective Feedback for Science Teachers: Using an iPad App to Improve Classroom Practices
C. Berg, S. Ashmann
We have developed an iPad application designed to gather valid, reliable, and objective data of both teacher and student behaviors during a science lesson. These behaviors become a running record that can be analyzed in multiple ways to provide useful feedback to the teacher being observed. We will use hands-on activities to explore the capabilities of this new classroom observation tool.

Writing Compelling Proposals for NSF Funding in Science Teacher Education
D. Haury, D. Campbell
This session will focus on funding opportunities within the National Science Foundation for research and development efforts relating to science teacher education. Practical information and guidance will be provided for writing compelling proposals that are more likely to be competitive for funding.

Teaching the Nature of Science: The Rationale, Structure, Content and Administration of a Course Designed to Communicate Key NOS Ideas to Pre and Inservice Science Teachers
W. McComas, E. Peters-Burton, L. Martin-Hansen
Participants will engage in an immersive and resource-rich presentation of the content, structure and rationale for a NOS course for pre- and in-service science teachers. Each participant will receive all materials necessary to develop a NOS class or enhance an existing one.

Integrate iPad® and BYOD with Vernier Technology
Vernier
In this hands-on workshop, you will use Vernier's digital tools (LabQuest2, probeware) to conduct an investigation with either Graphical Analysis for iPad, or Vernier Data Share for tablets, Chromebooks, and BYOD environments. These tools can help you address NGSS Practices and Performance Expectations, as well as many states’ standards.
Developing and Maintaining High Quality Secondary Science Teacher Education Programs: Strategies for Overcoming Institutional Constraints
M. Clough, J. Olson, C. Berg, G. Roehrig, J. Tillotson, J. Kruse
This workshop addresses strategies for overcoming institutional constraints to develop and maintain extensive and demanding research-based secondary science teacher education programs.

ASTE as a Catalyst for Leadership Development
B. Hollon
The Association for Science Teacher Education (ASTE) promotes leadership and support for professionals involved in the education and development of teachers of science at all levels" is the first sentence in our Mission Statement. The first ASTE leadership workshop is the beginning of an effort by the Executive Board to make leadership development more explicit and intentional in the activities of the organization.

The Good, the Bad and the Reality of Writing: Reworking Your Personal Writing Strategies
M. Klosterman, S. Witzig, D. Hanuscin
Emerging scholars are often overwhelmed by the pressure of “publish or perish.” Join our group of experienced and emerging scholars to discuss the good, the bad, and the reality of writing. An emphasis will be placed on personal writing strategies, writing for publication, submitting manuscripts, and the peer-review process.

Assisting Graduate Students through the Lonely Job Search Process Part 1—The Job Market, Creating CVs, and the Interview
L. Ihrig, R. Walker, W. McComas
This session will address topics pertinent to graduate students looking for faculty positions in science education—the job market, creating CVs, and the interview. Also join us for Part 2 of this workshop focusing on the professoriate and the experiences of a new professor.

Assisting Graduate Students through the Lonely Job Search Process Part 2—Understanding the Professoriate and the Experiences of a New Professor
L. Ihrig, L. Barrow, J. Olson, R. Walker
This session will address topics pertinent to graduate students looking for faculty positions in science education—the professoriate, and the experiences of a new professor during his first years on faculty at an institution with very high research activity. Also join us for Part 1 of this workshop focusing on the job market, creating CVs, and the interview process.
FRIDAY

The NSTA Learning Center: A Tool to Develop Science Pre-service Teachers
A. Beyers, F. Mendez, M. Odell, K. Baird, S. Blunck, C. Mohr, K. Sparrow
Learn about an online system to assist faculty in creating customized e-textbooks using Learning Center interactive and e-print resources for pre-service teachers. Create an account, add resources to the library, assemble collections, make a class landing page, and explore the instructor’s dashboard. Ask questions to professors using the system.

Visual Data Representations: Generating and Using Them in the Science Classroom
K. Finson, J. Olson, B. Emig
Learn how visual data representations can be generated as instructional tools. Objectives include helping teachers improve pedagogical understanding, helping students’ improve conceptual understanding, improving students' learning about viewing, interpreting, generating, and using visual data representations, and (4) connecting learning to cognitive development theory.

SATURDAY

Using Multimedia to Instruct Nature of Science (NOS) and Scientific Inquiry (SI)
M. Bloom, C. Koehler, I. Binns
Oftentimes, public conceptions of science are formed by popular media representations via television or films. These representations are often inaccurate and misleading about nature of science (NOS) and scientific inquiry (SI). In this workshop, we will demonstrate how science is portrayed in popular media as a vehicle for NOS/SI instruction.
FINESSE Program Workshop
Contributed by Rick Pomeroy

Arriving in San Antonio for ASTE a few days early? Join us for both days of our 2-day NASA Teaching Workshop for faculty and get a $250 stipend!

This finesseprogram.org interactive teaching excellence workshop is for college and university faculty who prepare future science teachers to work with highly diverse student populations. These workshops focus on reforming and revitalizing undergraduate science teaching methods courses and Earth and Space science survey courses, such as ASTRO 101 and GEOL 101, that future teachers most often take. The goals are to enhance courses with contemporary pedagogies and data-rich problem-based learning approaches steeped in authentic scientific inquiry, which consistently demonstrate effectiveness with diverse students.

Participants themselves will collaboratively conduct mini-science data-rich research projects during the institutes using highly effective approaches to inquiry using proven models that can be readily applied in your classes next semester. Most importantly, the Institute agenda allocates significant time to illustrating best practices for working with diverse students. Participants leave with a well-formulated action plan to reform their courses targeting future teachers to include more data-rich scientific inquiry lessons and to be better focused on improving science education for a wide diversity of students. Pre-register at www.finesseprogram.org and reserve your spot (and stipend) while there are seats still available.
As you are wrapping up this academic semester and starting to think ahead to our meeting in San Antonio, remember there’s a great way to start off the conference. Yes, it’s the Science Teacher Shuffle! We’ll again be meeting in the conference hotel lobby on Thursday at 6:45 AM to kick off the conference on the “right foot!”

Join us for a 3 mile fun run or a 2 mile walk. There is no better way to start the day than with a little exercise in a non-threatening atmosphere with terrific company—and get to enjoy the River Walk without crowds!!

The race is free! So all you need do is complete the application and email, fax or snail mail it to me OR bring a completed app to the hotel lobby the morning of the race. The application with numbers/addresses can be downloaded from theaste.org

Hope you will join us!
Tisha Morrell
morrell@up.edu
Mid-Atlantic ASTE Meeting News
Contributed by Sherri Brown
Photographs Contributed by Sarah Haines and Sherri Brown

On September 20-21, 2013, the annual meeting of the Mid-Atlantic Association of Science Teacher Education was hosted by Marshall University. Conference coordinators Tina Cartwright (Marshall University), Debra Hemler (Fairmont State University) and Paula Magee (Indiana University-Purdue University Indianapolis) arranged for a wonderful event on the picturesque grounds of the Glade Springs Resort, Daniels, West Virginia. The 79 attendees, which included 19 graduate students, had opportunities to participate in 21 paper sessions, 17 poster sessions, and a “Reports from the States” session.

The conference ended with a “Business Meeting” in which our Secretary Jennifer Maeng (University of Virginia) took notes, while our outgoing Treasurer Leslie Bradbury (Appalachian State University) provided the financial report. Our members elected Rachel Wilson (Appalachian State University) as our new Treasurer and applauded Margaret Blanchard (North Carolina State University) for agreeing to coordinate the 2014 Mid-Atlantic Conference. Our 2014 MA-ASTE conference is currently scheduled for the Boone, North Carolina area.

Lastly, we awarded our first Graduate Student Presentation Award, which was a peer-reviewed, merit-based honor intended to recognize outstanding contributions to research, as well as delivery of these contributions. The winner, Diane Johnson from North Carolina State University, presented Exploring Factors Underlying Science Course Selection by African American Students at an Inner City High School. As a recipient of this award, she received a certificate and $750 to travel and present her research at 2014 International ASTE conference in San Antonio. Notification and requirements to apply for the 2014 MA-ASTE Graduate Student Presentation Award will be submitted via the listserve April 2014.
Southeastern ASTE Conference
Contributed by Katie Brkich

This year’s Southeastern Association of Science Teacher Educators (SASTE) conference was held at Georgia Southern University on October 11-12, 2013. The conference started with an opening reception held at the Wildlife Center where visitors enjoyed a tour of the facility including the birds of prey on display, discussing scholarship with one another, and meeting Freedom, the Georgia Southern mascot. Provost Jean Bartels and College of Education Dean Tom Koballa both attended the event to greet conference attendees and extend a big Southern welcome.

The main conference took place on Saturday with a total of 35 attendees coming from Georgia, Florida, South Carolina, and Alabama. Conference attendees were welcome to attend 20 concurrent sessions offered throughout the day as well as a luncheon with Keynote Speaker René Antrop-González, the Goizueta Chair in Education at Dalton State College. This year’s SASTE president, Dr. Alejandro Gallard, and incoming SASTE President, Dr. Katie Brkich are both faculty members in the College of Education at Georgia Southern University and were happy to be able to host this year’s event on their beautiful campus.

For more information on SASTE, please visit http://saste.net.

Pictured (l to r): College of Education Dean Thomas Koballa, Incoming SASTE President Katie Brkich, Provost Jean Bartels, and Current SASTE President Alejandro Gallard - with Freedom the Georgia Southern mascot
North Central ASTE Conference
Contributed by Gillian Roehrig, Director NC-ASTE, Karen Bengtson and Melanie Reap, Past-Directors NC-ASTE

October 10-12, 2013 NC-ASTE celebrated their 20th anniversary in Moline, IL. 28 members shared research and teaching strategy presentations. To mark our anniversary we inaugurated a Legacy Award to honor service to NC-ASTE. Our first Legacy Awardee is Dr. George Davis recently retired from Minnesota State University Moorhead. Together with Gerald Foster and Ron Bonnstetter, George created a leadership and planning team resulting in our first regional conference in Rochester, 1993. George has been a tireless leader for NC-ASTE, amongst many activities co-chairing two national meeting hosted in Minneapolis (1998 and 2011). He is an inspiration to the members of NC-ASTE and a deserving recipient of the first NC-ASTE Legacy Award.
North Eastern ASTE Conference
Contributed by Yael Wyner, Northeast Regional Director
Photograph contributed by Al Bodzin and Catherine Koehler

The northeast region of ASTE held its annual meeting at Black Rock Forest in Cornwall, New York on October 16 - 18th. Black Rock Forest, located 50 miles north of New York City is a field station for scientific research, education and conservation that is comprised of almost 4,000 acres of lakes, streams, and upland habitat. We stayed in Black Rock’s newly constructed green meeting and residential facilities, enjoying the surprisingly warm weather and the peak foliage.

We kicked off the meeting on Wednesday night with a small group of 17 people. After a casual pizza dinner, we engaged in two hours of back to back roundtable discussions about current issues in science teacher education, including revamping teacher preparation program requirements and online instruction. The next day, our crowd swelled to about 60 people, with people presenting in traditional paper sessions and a poster session. We also had plenty of breaks, so that people could continue conversations began during the paper sessions. In the late afternoon, we adjourned, so that people could relax, catch up on work, or hike the Black Rock trails. A small group of about 10 people joined the hike to a mountaintop with a view of this season’s dazzling yellows, oranges, and reds. That night we continued our meeting with more roundtables and importantly with wine and beer. Friday was a half-day, where the crowd once again swelled to 60 people. This time, students enrolled in New York University’s newly developed clinically rich teacher education program presented on their summer teaching experiences with NYC middle school children.

At the end of the conference, after three years of meeting at Black Rock Forest, we said a fond farewell because next year we will begin a new three-year cycle of meetings at Columbia Teachers College in New York City. I want to thank my conference co-chairs, Beth Klein, SUNY-Cortland; Pamela Fraser-Abder, NYU; and Mary Leou, NYU for their hard work in putting this conference together over the last three years.
**ASTE Equity Committee Update**  
Contributed by Christopher Atchison

The ASTE Equity Committee is teaming with the Inclusive Science Education Forum (ISEF) to offer an embedded workshop at the International ASTE Conference in San Antonio. This workshop session is in response to ASTE members who have expressed an interest in improving their understanding of (1) the federal policies on special education; (2) the barriers and challenges students may face to access and inclusion in science disciplines; and (3) research-based strategies for designing and implementing instruction that meets the needs of all students.

*The Instructional Approaches to Access, Accommodation, and Inclusion for Students with Disabilities in Science Education* workshop is designed to instruct current Science Education faculty and graduate teaching assistants to apply the principles of Universal Design for Learning (UDL) to their own lessons, labs, and field-based learning opportunities in order to accommodate students with disabilities in K-12 science classrooms.

The workshop will be held at the conference venue on Friday, January 17th from 1:30-3:45pm. Registration will soon be available on the ASTE conference site. Participants will be asked to bring syllabi, sample lessons or class activities that they wish to enhance for inclusion and accessibility. Resources will be provided and attention will be given to building a community of ASTE members who can support one another in implementing new strategies for fully-inclusive instruction.

Workshop instructors:
Chris Atchison, Georgia State University  
Lara Smetana, Loyola University Chicago  
Michele Koomen, Gustavus Adolphus College

**Join an ASTE Committee**  
Contributed by Joanne Olson, ASTE President-Elect

The accomplishments of ASTE are made possible because of the contributions of its members. The organization has a committee structure that addresses issues of publications, professional development, long range conference planning, the conference program, oversight, membership and participation, equity, and awards. I would like to thank all of you who have submitted a volunteer request for ASTE. I am making committee assignments now, and we are still in need of volunteers. If you would like to learn more about the workings of the organization, meet new colleagues, and serve ASTE in a valuable capacity, please volunteer for a committee. The form is located on the ASTE website.
Update on *Journal of Science Teacher Education* – Submit your manuscripts using APA style!
Contributed by Valarie Akerson and Gillian Roehrig, Publication Committee Co-Chairs

In our last issue of the ASTE Newsletter it was noted that *Journal of Science Teacher Education* did not follow APA style, and authors were notified to prepare their manuscripts in the style that was then used at the time by Springer. Through on-going discussions between the Editors Dr. Norman Lederman and Dr. Judy Lederman, and Springer representative, Bernadette Ohmer, there was recently an agreement made to have JSTE follow APA style. We thank Norm and Judy for their efforts in bringing the journal into APA style, and to Bernadette for following through with Springer. Through their hard work and persistence we can now prepare and submit manuscripts through APA style, which should make it easier on all of us given that is the format we normally use for science education research papers. So feel free to write excellent papers in APA style as you always do and submit your manuscripts to JSTE for review. Thanks again to Norm, Judy, and Bernadette!
Call Extended for Chapter Proposals for a Proposed ASTE Monograph/Book: *Educating Science Teachers for Sustainability*
Contributed by Susan Stratton, Rita Hagevik, Allan Feldman and Mark Bloom

The ASTE Environmental Education forum *Call for Chapter Proposals* has had a strong response and we have received many proposals from North America and other countries across the globe. However, because it is a busy time in the semester we know that several interested authors have not had time to submit. Therefore we are extending our deadline for 2-page chapter proposals until Friday, November 22nd, 2013.

SUBMISSIONS: Chapter proposals should be 2 pages in length, single-spaced, written in a narrative style. The proposal should include a statement of objectives, theoretical framework, and highlight key ideas, issues and/or methodologies with regard to including sustainability education in science teacher education. For additional detail on the volume proposal visit us on Facebook: *Educating Science Teachers for Sustainability*.

Please send a cover page including the following:

1. Proposed title of the chapter,
2. Author(s) information – full name(s) and title(s),
3. Full contact details (postal address, e-mail address, telephone, and fax numbers), and
4. Name of colleague who you recommend as a reviewer.

Send both the cover page and proposal electronically to Susan Stratton at susan.stratton@cortland.edu. The deadline for chapter proposals has been extended to November 22nd, 2013. The proposals will undergo a peer review process and acceptance will be limited to those identified as best suited to the overarching theme of the book.

Authors will be notified whether their proposals are accepted by December 20, 2013.

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Information from NSTA
Contributed by Kate Scantlebury and Lisa Nyberg
NSTA's 2013 area conferences are in Portland, October 24–26, 2013; Charlotte, November 7–9, 2013; and Denver, December 12–14, 2013.

The 2014 annual conference is scheduled for April 3–6 in Boston. NSTA's STEM Forum is scheduled for May 14–17, 2014 in New Orleans.

The deadline for submitting a proposal to the STEM Forum & Expo: is December 2, 2013, and January 15, 2014 for the 2014 Area Conferences (see http://www.nsta.org/conferences/sessions.aspx to submit proposals).

Doctoral Fellowships in Biology and Mathematics
Contributed by Rosemary Smith

Doctoral Fellowships available in Biology and Mathematics for students interested in pursuing a balanced career in STEM education at the college level. A Master's degree is required; candidates must demonstrate an interest in a college teaching career.

Participation in Seminars in College Teaching, Supervised Teaching Internships, and Dissertation Research requires commitment to a resident program (not on-line).

For more information, please contact Dr. Rosemary Smith, Doctor of Arts in Biology program, Idaho State University (www.isu.edu).
Contributed by Chuck Blay

**Earth and Marine Science Seminars in Hawaii – Summer 2014:** Two seminar programs designed for educators are available; 1) Geoscience on the Big Island of Hawaii – July 6-12 & Aug. 3-9; 2) The Science of Ecosystems on Kauai – June 21-28, July 19-26. For brochures contact – Chuck Blay at 808-742-8305 <teok@aloha.net>; or consult our website – www.teok.com.

**Geoscience on the Big Island of Hawaii:** A week-long professional development seminar provides science educators the opportunity to upgrade their skills in earth science instruction. Geoscience comes to life on the Big Island. In addition to discussions of the plate-tectonic origin of the Hawaiian Archipelago, participants observe active volcanoes and their various molten rock products and investigate faults representing major structural failures along the volcano's growing slopes. You hike through Pleistocene glacial deposits and dig in soil layers. You snorkel among the beautiful corals of the island's growing reefs and examine various black, green and white sandy beaches. A lesson-plan approach is emphasized in the many hands-on field exercises. All sessions are conducted by scientists with international experience teaching at university and post-graduate levels. Seminar fee - $1,250; lodging available at $95-105/night (single/double occupancy); Dates available for Summer 2014 – July 6-12, August 3-9.

**The Science of Environmental Systems on Kauai:** A week-long professional development seminar for science educators. The Island of Kauai, Hawaii, with its unique volcanic origins and nearly closed ocean-isolated environmental settings, represents a world-class destination for the investigation of the character and interactive aspects of a wide variety of ecosystems ranging from mountain-top bogs and rain forests to lush erosional valleys, arid beach/dune complexes and coral/algal fringing reefs. The 7-day program (8 nights lodging) involves 5 days of orientation lectures, daily interactive field trips (hiking/snorkeling) and numerous practical lesson-plan exercises; two free mid-seminar days allow for additional self-guided learning. The influence of the island's human inhabitants on these watershed-organized ecosystems is emphasized. All sessions are conducted by scientists with international experience teaching at university and post-graduate levels. Seminar fee - $1,250; lodging available at $75-85/night; Date available for Summer 2014 - June 21-28, July 19-26.
About CITE—Science

CITE—Science is a peer-reviewed online journal for science teacher educators. The journal is co-sponsored by ASTE to publish research reports and theoretical articles on the use of innovative technologies in science teacher education. Authors can include interactive technologies for the readers’ direct access to the example technologies such as video, audio, animation or external links.

Manuscript Information

Manuscripts should directly address technology within science teacher education. Papers may focus on science teachers at any career stage including preservice, new, continuing, or teacher leaders and any grade level including college science science teachers. Manuscripts that examine how technologies can improve programs, courses, or professional development as well as collaboration and partnerships are welcome. Papers that describe innovative approaches to technology enhanced science teacher education are specifically encouraged.

Submission Guidelines

1. Go to http://aace.org/publish
2. Login with your AACE login information or create a new login.
3. Select ‘submit article’. Be sure to select CITE (science), as the journal.

Editor: Rebecca Schneider, University of Toledo
Published four times a year by the Association for Science Teacher Education.

Issue Items due by

Summer Aug. 15
Fall Oct. 15
Winter Feb. 15
Spring May 15

All members are invited to submit items.

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