President’s Message
Contributed by Valarie Akerson

ASTE: A Strong Organization that is Only Growing Stronger

Ever wonder what happens at a May ASTE Board meeting? Why would the Board need to meet face to face? Why can’t it just be done through Zoom? What are the strengths of the Board meeting? Well, read on!

This year the Board was unable to meet in the conference city because the dates the Board members were available were not open in the hotel. So, we decided to do a cost saving move and meet in Cleveland, Ohio, where we stayed at a Hampton Inn that included free breakfast, a meeting room, and enabled lower cost meals to be catered in. It was the
perfect place for sharing committee reports, which took place Monday night, and to act on items brought by committees.

On the second day we met with our Journal of Science Teacher Education Taylor and Francis rep through Zoom, so the Board could ask questions regarding how the royalties are determined, and find out ways to improve revenue for ASTE. Did you know that for every JSTE article download—even member download—ASTE receives revenue? Start downloading those articles! And if you use certain articles in your classes, provide your students with a link so they can download them on their own—more revenue for ASTE!

In the afternoon on the second day we met in smaller groups to discuss issues that arose in reports, and developed recommendations to the Board at large for consideration. When we got back together in the larger group, decisions were made through votes. It was a productive use of time! Following this discussion and decision-making, we met to discuss updates on action items from the last Town Hall meeting, and what kinds of progress we would be making and next steps. An ad hoc committee was formed which will be chaired by Past-President Tisha Morrell, to develop a survey to gather more information from additional ASTE members who were not able to attend the Town Hall meeting. This way, we could make better decisions on action items, based on more data. So please fill that out when it comes, especially if you were not able to attend the last ASTE conference.

One question that arose was what happens to leftover food that ASTE might have from the conference meetings and Board meetings. Well, if the food has been out for less than two hours (health code), it can be donated. And several times over the course of the past few years, ASTE has donated food to local venues, such as treatment centers or shelters. This practice actually was used at the last Board meeting, where not only the catered food costs were low for the Board meeting, but also served in far greater quantities than could be consumed by the Board, and so the food was wrapped up and brought to a local shelter for consumption by those at the shelter. Thanks to Executive Director, Bob Hollon, and prior ASTE Boards, for this practice!

On the final day of the Board meeting, we received an update on the 2020 conference from one of the conference coordinators, President-Elect Gil Naizer. We discussed and made decisions on structure and financial questions about the conference, keeping in mind the need to keep conference costs down for members, but also maintain a budget “out of the red” for ASTE as a whole. We believe the 2020 conference will be a fabulous experience for all who attend!

In short, the Board meetings are spent with Board members considering how to make ASTE—which is already a fabulous organization—even better for the members, and how to do that in a financially responsible way so we can continue impacting science teacher education. We acknowledge that ASTE is already strong, but endeavor to make it stronger, and even more impactful.

Valarie Akerson, ASTE President
5 Reasons to attend ASTE 2020 International Conference
Contributed by Gil Naizer and Janice Meyer

5. **The Riverwalk** – The Riverwalk is 13 miles of restaurants and bars along the San Antonio River. The conference hotel is conveniently situated on the Riverwalk where so you will be able to network with colleagues and enjoy San Antonio’s nightlife.

4. **Tex-Mex** – Other states have Mexican food but no other state has Tex-Mex. There are numerous Tex-Mex restaurants in downtown San Antonio to try, from street vendors to high end. There is a saying, “Once you’ve had Tex-Mex, you’ll never go back!”

3. **The Weather** – Get away from the dreary cold and snow. Come to Texas where the average high is in the mid-60s and the lows are in the 40s.

2. **The Alamo** – For you history buffs in the group, the historic Alamo is located just a couple of blocks from the hotel.

1. **The Friendly State** – Texas (or Tejas in Spanish) is the Caddo Indian word for “friend.” Use your time at the conference to connect with new and old friends to collaborate on projects and learn from each other.

We could add many more reasons to the list. Find out for yourself why the ASTE 2020 International Conference in San Antonio will be out of this world! Come down to San Antonio and enjoy some Texas hospitality!

2020 ASTE Conference Planning Committee

Gil Naizer and Janice Meyer
CALL FOR PAPERS

Special Issue of *Journal of Science Teacher Education*

**THE CONSEQUENCE AND POTENTIAL OF TEACHING SCIENCE OUT-OF-FIELD**

**Special Issue Editors**

- Julie A. Luft, University of Georgia, USA, jaluft@uga.edu
- Deborah Hanuscin, Western Washington University, USA, hanuscd@wwu.edu
- Linda Hobbs, Deakin University, AUS, l.hobbs@deakin.edu.au

**Out-of-Field Teaching in Science**

There is growing emphasis across the globe about increasing the number of graduates in science, technology, engineering, and mathematics (STEM) fields. K-12 teachers are often identified as the group that will inspire many students to engage in STEM careers. Unfortunately, in the area of science there is a global shortage of qualified teachers. When schools do not have enough teachers with a science background, a teacher can be assigned to teach a science class without an adequate knowledge base. ‘Out-of-field’ teaching is a recognized, but understudied problem in science education that impacts the quality of instruction and student learning. It may also impact the interest students have in STEM. Addressing this problem is necessary in order to cultivate the next generation of STEM graduates. This special issue is a first-step in trying to understand this common phenomenon.
Submissions should focus explicitly on the phenomenon of teaching out-of-field in the sciences, and may relate to:

- Incidence and distribution of out-of-field teaching, and
- effects on and implications for classroom practices, teachers, students, and other key stakeholders.

**Submission Information**

Submissions will need to follow the Author Guidelines found in the Journal of Science Teacher Education, which includes attention to the length, style, format, references, and use of previously published material. Manuscripts submitted for publication in this special issue should align with the aims and scope of the journal and not have been previously published.

**Important Dates**

**May 23, 2019** – Submission of proposed manuscript to the co-editors of this issue. The submission should be at least five-pages (not including references, tables, figures, and abstract). It should also be an empirical study focused on the issue of out-of-field teaching in science.

**May 30, 2019** – Invitation for full-submission. This invitation does not guarantee publication.

**June 31, 2019** – Full submission due to the JSTE system

**July 5, 2019** – Manuscripts sent out for peer-review

**August 30, 2019** - Peer-review complete

**September 27, 2019** – Articles selected and peer-feedback provided to authors.

**December 1, 2019** – Final manuscript due

**Fall/Winter 2020** – Special issue published

**Questions**

If you have questions, please contact the guest co-editors of this special issue.
Happy Spring! We are pleased to announce that Volume 4, Issue 2 of the *Innovations in Science Teacher Education* journal is now available at:


This issue features an article that describes a practical teaching approach encouraging critical thinking about science practices. This issue also contains an article that describes a specific approach to preparing elementary teacher candidates to teach engineering through a field-based undergraduate course that incorporates various engineering experiences. This issue further has an article which describes the design of a clinical experience for preservice chemistry teachers through a homeschool association collaboration.

We are also extremely thankful for our dedicated Editorial Review Board members who always provide insightful comments and suggestions to authors.

Please help us to spread the news about the *Innovations* journal by sharing the URL ([http://innovations.theaste.org/](http://innovations.theaste.org/)) with your colleagues who may not be ASTE members!

Please join our Facebook Group at [https://www.facebook.com/ISTEjournal/](https://www.facebook.com/ISTEjournal/) so you can receive announcements regarding the *Innovations* journal.

If you have any questions regarding the *Innovations* journal, please contact the editors: Rommel Miranda ([Rmiranda@towson.edu](mailto:Rmiranda@towson.edu)) or Ron Hermann ([Rhermann@towson.edu](mailto:Rhermann@towson.edu)).
Applications now being sought for position of
EDITOR for the Science Education Section
for the journal
Contemporary Issues in Technology and Teacher Education

The Publications Committee of the Association for Science Teacher Education (ASTE) is seeking applications for Editor or Co-Editors for the Science Education section of the online journal, Contemporary Issues in Technology and Teacher Education (CITE). The duration of appointment is three years, beginning in January, 2020, plus a half-year overlap with the current editor from July 1, 2019 to December 31, 2019. The new editor will assume full editing responsibilities of the Science Education Section from January 1, 2020 to December 31, 2022.

The CITE Journal is an online, peer-reviewed journal, established and jointly sponsored by five professional associations (ASTE, AMTE, NCSS, CEE, and SITE). This is the only joint venture of this kind in the field of teacher education. Each professional association has sole responsibility for editorial review of articles in its discipline. The online journal format allows authors to demonstrate the technologies about which they are writing, including video and audio segments, animation, virtual reality, Web links, and simulations. The current issue of the journal may be accessed at http://www.citejournal.org.

The CITE Science Education Section Editor must be a member in good standing of ASTE. This individual should have research expertise in science teacher education and applications of technology as well as experience in publishing and reviewing manuscripts for refereed professional educational journals. In addition, the editor will be expected to attend annual ASTE meetings and serve as an ex-officio member of the ASTE Publications Committee. Both U.S. and International members of ASTE are encouraged to apply. CITE holds an annual editors meeting in conjunction with the annual meeting of the Society for Information Technology and Teachers Education (http://site.aace.org/). Attendance is strongly encouraged.
Responsibilities for a CITE Science Education Section Editor include:

- Maintaining academic standards that are comparable to those of the Journal for Science Teacher Education.
- Soliciting manuscripts for the CITE Science Education Section.
- Assigning each manuscript submission a minimum of two review board members.
- Making a decision on the manuscript based on reviewers' comments and the disposition of the manuscript with respect to the purpose of the CITE journal, and communicating the decision with authors.
- Identifying one to two articles for the Science Education Section in each issue of the CITE journal (Note: published quarterly, so four to eight articles per year).
- Originating the call for and the selection of Editorial Review Board (ERB) members yearly.
- Providing the ASTE publication committee the application materials for those applying to be ERB members, as well as a recommendation for whom to accept as an ERB member. The ASTE publication committee reviews the applications and provides a recommendation to the ASTE Board of Directors for approval.
- Ensuring that reviewers are thanked publicly on an annual basis.
- Maintaining communication between CITE and ASTE.
- Maintaining correspondence with CITE reviewers (including annual thank-you letters).
- Communicating regularly with the ASTE Newsletter editor(s) to promote the CITE Journal with the ASTE membership.
- Compiling statistics and maintaining files as appropriate for the Science Education Section.
- Working with the ASTE Publications Committee and Editors of other ASTE related publications to coordinate a "Publishing in Science Education" or "Publishing in ASTE journals" session at the annual ASTE conference.
- Submitting semi-annual Board reports to ASTE through the Publications Committee.
- Interacting regularly with CITE general Editors.
- Attending quarterly Editors' meetings via conference call from CITE.
- Participating annually in the NTLI technology award selection process.

Support for this position includes:

- Complimentary registration to attend the annual SITE conference provided by the Society for Informational Technology and Teacher Education (SITE).
- Complimentary membership in ASTE for each year of full editorial responsibilities.
- A yearly stipend of $800 from ASTE.
Interested persons are encouraged to email their application materials to the Chairs of the ASTE Publications Committee (see below). **Full applications for the position are due June 14, 2019** and should include:

- A cover letter describing your editorial experience and interest in this position,
- A statement from your University/Institution detailing the support they are willing to provide you during your tenure in this position, and
- A 2-3 page abbreviated Curriculum Vita for each applicant that illustrates experiences and expertise associated with the position.

Questions regarding this position may also be directed to the ASTE Publications Committee Co-chairs.

Renee Schwartz  
Georgia State University  
rscwhartz@gsu.edu

Meg Blanchard  
North Carolina State University  
Meg_blanchard@ncsu.edu
This is a formal call to ALL members of the Association for Science Teacher Education (ASTE) to serve on the Editorial Review Board (ERB) for the Science Education section of the online journal Contemporary Issues in Technology and Teacher Education (CITE). We are seeking reviewers from diverse backgrounds with experience implementing technology with science teaching.

The CITE Journal is an online, peer-reviewed journal, established and jointly sponsored by five professional associations (ASTE, AMTE, NCSS, CEE, and SITE). This is the only joint venture of this kind in the field of teacher education. Each professional association has sole responsibility for editorial review of articles in its discipline. The online journal format enables authors to demonstrate the technologies about which they are writing, including video and audio segments, animation, virtual reality, Web links, and simulations. Issues of the journal are available at http://www.citejournal.org.

The Science Education section is especially committed to publishing articles that demonstrate how science learning is enhanced by the meaningful integration of technology. We seek reviewers who are familiar with both science education and technology education literature, and addresses both of these areas in their research.

Qualifications:

- Established record of publishing in peer-reviewed science education and technology integration practitioner and/or research journals.
- Prior experience as a reviewer for other research journals, grants, or other scholarly works.
- Expertise in teacher education (preservice, induction, or inservice). Areas of specialization in these domains can include curriculum development, technology, or informal settings.
- Maintain membership with ASTE.

Duties and Responsibilities:

- Read and evaluate approximately 2 to 4 manuscripts per year.
Commit to serving on the ERB for three years (ERBs are reviewed yearly).

Provide written reports and formative feedback on submitted manuscripts using the criteria and evaluation form provided by the Editors.

Review manuscripts within four weeks of receipt.

Provide feedback to the editors about the journal direction and review process.

Help recruit high impact authors and articles for the journal.

Any questions regarding the journal or Editorial Review Board should be directed to Andrea Burrows (Andrea.Burrows@uwyo.edu) or Tim Slater (tslater@uwyo.edu).

To apply, please submit electronically the following materials to Andrea Burrows (Andrea.Burrows@uwyo.edu) and Tim Slater (tslater@uwyo.edu) by June 14, 2019:

1. A letter of interest that includes a list of at least three areas of expertise in science teacher education and technology in which you would be comfortable reviewing manuscripts.

2. A two-page vita that emphasizes publications in refereed journals, especially practitioner journals, and includes any previous reviewing or editing experience.

3. These two documents should be combined into a single pdf file labeled with the name of the applicant and CITE Science ERB (e.g., Smithson_Jane_CITEScienceERB).

4. The email subject bar should include the name of the applicant and CITE Science ERB.
ASTE Newsletter – Call for Editor(s)
Contributed by Rommel Miranda

As we know, all good things must come to an end. Mark and Ian have elevated the ASTE Newsletter to another level in their three years as co-editors. Now it is time for them to pass the torch.

The Communications Committee of the Association for Science Teacher Education (ASTE) is seeking applications for Editor or Co-Editors for the ASTE Newsletter. The duration of the appointment is 3.5 years. The first six months (July - December, 2019) will overlap with the current editors as a transition and training period. The term for full Newsletter editing responsibilities will be January 1, 2020 to December 31, 2022.

The ASTE Newsletter is an online publication for sharing information about the Association and its activities to its members and interested others. Each year, the Association publishes online a minimum of four issues of the ASTE Newsletter, designated as the Winter, Spring, Summer, and Autumn issues. The content of the ASTE Newsletter is determined jointly by the Chair of the ASTE Communications Committee and the Newsletter Editor(s). The items selected for publication in the Newsletter should be relevant to the ASTE membership and can include by-law revisions and brief reports from ASTE committees and forums. Each issue may include a President’s Message from the ASTE President.

The ASTE Newsletter Editor(s) must be a member in good standing of ASTE. This individual should have experience in publishing, reviewing documents, word processing, using WordPress, website design, and creating/disseminating/archiving electronic publications. In addition, the Editor(s) will be expected to attend annual meetings of ASTE and serve on the ASTE Communications Committee.

Responsibilities of the ASTE Newsletter Editor(s):

- Issue a call for Newsletter information from the standing committees and forums of ASTE and the members of ASTE.
- Design, edit, format, and archive the online electronic ASTE Newsletter and webpage.
- Submit the ASTE Newsletter for review to the Chair or designated member of the Communications Committee prior to dissemination.
- Provide his/her own computer as the Newsletter is disseminated electronically so there are no costs for printing and mailing.
- Serve on the Communications Committee as a voting member (Co-Editor is ex-officio).
- Have close communications with the ASTE Executive Director, Director of Electronic Services for ASTE, and the Communications Committee Chair.
• Submit semi-annual reports to the ASTE Board of Directors through the Communications Committee.

Support for this position includes:

• Complimentary membership in ASTE for each year of full editorial responsibilities.
• A yearly stipend of $800.

Interested persons are encouraged to email their application materials to the Chair of the ASTE Communications Committee. **Full applications for the position are due June 10, 2019 and should include:**

• A cover letter of application,
• A 2-3 page abbreviated Curriculum Vita for each applicant, and
• A statement detailing any institutional support.

Questions regarding this position may be directed to the ASTE Communications Committee Chair: Rommel Miranda ([Rmiranda@towson.edu](mailto:Rmiranda@towson.edu))
2019 ASTE Graduate Student Forum Updates
Contributed by Shana Lee, Leiflyn Gamborg, and Melanie Kinskey

Request for Support
In order to better serve the needs of ASTE graduate student members between conferences, we are seeking to develop online resources with the help of experienced scholars. We are interested in information sheets, webinars, videos, slides, or other creative means of sharing information. If you have ideas or resources to contribute on any of these topics, please email the GSF leaders (see contact info below). We are happy to work with you to figure out the best format to share the information with graduate students!

Request for Graduate Student Recognition
Has a graduate student you mentored reached a significant milestone this year? We want to recognize the important work being done by ASTE’s graduate student members. Being accepted to present at a conference for the first time, passing preliminary exams, publishing, having a successful defense… we want to hear it all! Share graduate student achievements for inclusion in future newsletters using this form. Graduate students, please do not hesitate to recognize yourself, you deserve it!

Thank you for supporting ASTE graduate students.

Make sure you like the ASTE Graduate Student Forum Facebook page and follow us on Twitter (@ASTE_GradForum).

Thank you and we look forward to seeing everyone next year in San Antonio!

Shana Lee – President, Graduate Student Forum (slee@bagley.msstate.edu)
Leiflyn Gamborg – President-Elect, Graduate Student Forum (l gambo1@lsu.edu)
Melanie Kinskey – Vice President, Graduate Student Forum (melaniekinskey@gmail.com)
Katie Green – Graduate Student Board Member (kegreen4@ncsu.edu)
North-East – ASTE Meeting News
Contributed by Regina Toolin

Save the Date! October 10-11, 2019

Conference Theme

Reflecting on Diversity and Inclusion in the Recruitment and Retention of STEM Teachers

Dr. Regina Toolin, Dr. Sheila Borges Rajguru, and Dr. Kristina Hopkins (NE-ASTE Conference Co-Chairs) are thrilled to announce the 2019 NE-ASTE Regional Conference at the University of Vermont, Burlington, VT.

Proposal submissions open on May 28th!

Please check the NE-ASTE Conference Website (http://neaste.org/faq/) or email neaste4@gmail.com with any questions, comments, or concerns.
South-East – ASTE Meeting News
Contributed by Stacey Britton

Save the Date! October 4-5, 2019

Conference Theme

STEM Education: Promoting Inclusive Learning

Join other SASTE members at the Southeast Regional Conference at the University of West Georgia in Carrollton, Georgia. Participants arriving before lunch on Friday will have an opportunity to engage in stream work with students at the local schools, followed by an evening social. Conference presentations will begin Saturday morning and will include a few new format options to allow for greater mentoring and dialogue between regional members. Proposals will be accepted until June 15, 2019 and may be submitted here.
On Friday October 25 the annual SWASTE regional conference will kick off with an evening field trip to the Amazeum (a children’s science center) where we will have dinner and tour the exhibits. After this we will spend some time at Crystal Bridges (a museum of American art) on the same grounds as the Amazeum.

Saturday, October 26th is when the conference presentations will take place. We will be meeting on the University of Arkansas campus in the college of education buildings. Lunch will be provided. Additionally, Dr. Daniel Kennefick, a physics professor at the University, will be giving a keynote address where he will discuss his latest book entitled “No Shadow of a Doubt: The 1919 Eclipse that Confirmed Einstein’s Theory of Relativity.”

A proposal submission form will go live in the next few weeks and proposals will be due by July 22nd. We look forward to seeing you in Northwest Arkansas this Fall!

For more information contact Stephen Burgin srburgin@uark.edu.
Newsletter Information

Published four times a year by the Association for Science Teacher Education.

Issue items due by:

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

All members are invited to submit items.

Editors: Ian Binns and Mark Bloom
Email: ian.binns@uncc.edu or markb@dbu.edu

Newsletter Sleuth Challenge: Use the clue below to locate the ‘easter egg’ to become a Newsletter Sleuth! Remember to click on it.

Clue:

All the little {chickens} with the {lips} go...