Table of Contents

President’s Message  2
Presidential Team Message  3-6
ASTE Publications News  7-13
ASTE Awards  14-15
ASTE Graduate Student Forum  16-18
ASTE 2020 Conference  19
ASTE Elections News  20
ASTE Regional Information  21-22
NSSME+ Public Release  23
ASTE EE Forum News  24
Newsletter Information  24

The 2019 Conference in Savannah

The Upcoming 2020 Conference in San Antonio
President’s Message
Contributed by Valarie Akerson

ASTE: Where Everyone Might not Know Your Name, but they are Happy to Meet You!

Attending ASTE reminds me of the old Cheers television show, where the Cheers patrons would come into the pub and everyone would greet them and many conversations and adventures would ensue. After being a member and attending ASTE almost annually for over 20 years, it seems like a place to go to not only learn about new science teaching research and strategies, but also a place to meet up with friends and colleagues who push us to do our best thinking about science teacher education. It also seems the case for new ASTE members. When our graduate students have attended ASTE they always mention how friendly people were, and how everyone provided thoughtful and meaningful feedback on papers and posters that were presented. When I submitted a request for volunteers for ASTE committees this past fall, I was reminded again about how much ASTE members care about their organization and how they are ready to work hard for their organization. I received so many emails from people eager to volunteer that it was not possible to place everyone on a committee! I was happily overwhelmed with trying to respond to everyone individually, and creating a list of potential future volunteers in the order I received them, as backups in case some people could not fill out their terms for whatever reason. In any case, I want to publicly thank everyone who always volunteers their time, and who follows through with that volunteer work for ASTE, helping us to not only maintain, but to grow, and remain a friendly organization where we all seek to work together to improve science teacher education. Looking forward to working with everyone, and getting to know even more amazing science educators in the coming year. Cheers!!!!!!!

Valarie Akerson
ASTE President
Summary of Feedback from Town Hall Meeting
Contributed by Tisha Morrell, Valarie Akerson, and Gil Naizer

In an effort to be responsive to member needs and continue developing ASTE to the best organization we can be, at the annual conference, we held a Town Hall meeting to discuss the following issues:

1. **Current board structure.** Not all regions are equal in size or activity, yet each rotates onto the board. In the days prior to the internet and an ASTE Annual Conference, we relied on the regional networks for the vitality of the organization. Have we outgrown this structure? Are the regions representative of our organization? Should we move to 9 elected board positions instead of 6 elected and 3 regional?

2. **We claim to be an international association,** but we have very few international members. Should we try to be an international association? If so, how can we support international members?

3. **Timing of the conference.** January was selected because it does not conflict with other conferences, has been thought to be convenient for members (in between terms/semesters), and we can get good hotel deals. Is this the optimal time? Thoughts on timing and location of the conference?

The meeting was well attended. Board members met with small groups of participants to facilitate the discussions and take/gather notes. We collated the feedback from the groups and, as promised, are providing an overview of what was said.

**General information**

Unfortunately, not every group collected specific information on what regions were represented in their break out groups, but from those who did, the groups tended to be heterogeneous in nature.
and all regions were represented in the gathering. About one-third of those in attendance at the conference participated in the Town Hall meeting.

There was some confusion about whether the Board was asking if we wanted to disband regions, reconfigure regions, or focus just on Board representation. For clarification, rest assured the Board is not looking to disband regions. Regions have their place!

In general, there was consensus from those who discussed the role of regions, that regional meetings are important to help develop presentation and leadership skills of graduate students and emerging scholars. Additionally, regions can generate membership for ASTE. It was noted that not all regions are equally active or similar in terms of population, geographic area and institutions they were planned to represent. Also, needs of regions differ. Suggestions arose as to increasing communication among the regions, perhaps through the Regional Directors.

There was confusion and misinformation about the purpose of regions (historically and practically), how representatives of regions are selected and rotate into the Board positions, and how cycling in these positions (so regional representation) is accomplished.

Some suggested regions could be reconfigured to include “identified affiliations” among states and countries or to represent Special Interest Groups, or type of institutions (e.g., small colleges and two-year institutions), but this was not a topic in most groups.

**Board Structure**

The participants seemed split on if there is a need for regional representatives appointed to the Board. Some were concerned that if regional representatives are removed, certain areas of the country may be not represented on the Board. Others felt Board members needed to represent the entire membership and not just their regions. All seemed to feel regions need to have a voice.

A few groups came up with a “compromise” solution: have one regional representative serve on the Board. That person might be elected by the general membership with a slate comprising one representative from each region selected either by the region or the Regional Director OR be a rotational position among the regions with the region selecting the Board Member in their rotational year.

**International Association**

The membership was definitely in favor of nurturing an international presence. Some felt we needed to develop an increased international presence before doing anything differently while
others felt the way to develop an increased international membership was to do something different. The importance of an international presence to raise the impact of JSTE was noted.

Several groups offered concrete solutions (some were voiced by multiple groups) of what ASTE could do. These included:

- A Board position for international representative
- Meeting externally every 3-4 years or every third year. Potential sites include Hawaii, Japan, England, Puerto Rico, Costa Rica (yes, not all these are international, per se, but may be easier to travel to). It was noted the location should be “safe.”
- Partner with an international organization and share sponsored presentation slots.
- Offer scholarships to help with travel costs (ask publishers of international journals, companies, others for money for scholarships)
- Week long meeting in an international setting outside of the conference. Need to make the conference longer to justify international travel—two days before or after to visit/partner with a school/university and go on local field trips.
- “Have Ambassadors that are more representative of the global science teacher education community.” No ideas on how to select/find Ambassadors
- Wear an ASTE ribbon at EASE/ESERA/etc. to increase awareness
- Celebrate attendance of international presenters at ASTE meetings. Name the countries at a welcome session, put an “I” by their names/sessions in the program
- Sponsor a block of sessions with an international focus. Specifically recruit ASTE members doing international work as well as international members to propose for these sessions.
- Invite international keynotes
- Advertise our conferences
- Offer mentoring with international members specifically
- Need more time between sessions for networking
- More creative sessions so can have longer presentation times
- Have two regional reps for international region (east/west)—staggered terms
- Partition international region
• Ask our international members what would help
• Stream some sessions or provide access to videotaped sessions at no cost
• Sponsor international events at the annual meeting to attract international students at US institutions
• Discount to UNDP to attend conference (graduate student rate?)

Timing

While there were drawbacks listed to the January meeting (impacts child care, holiday, family time, start of semester/term, weather issues impacting travel), most groups were in favor of leaving the conference in January. They felt members associate January with the ASTE conference: “it does save money, it is embedded in the culture of ASTE and folks plan for it.”

Suggestions for moving the conference were met with conflicts of other sorts with the consensus being no time is optimal. That said, several suggestions were offered to consider:

• Move the conference to Monday through Wednesday.
• Partner with another organization in alternate years to maximize conference time, for example, perhaps NSTA
• Don’t have the conference so close to New Year.
• Keep the conference in warmer areas, although a variety of locations with things to do is desirable.
• Keep it cheap—reduced room rates were appreciated (though not all understood that logic so perhaps a table showing sample rates during different times of the year would help) but travel costs to small airports are high.
• Make this a national conference. Take it out of the hand of the regions, though it should be held in different locales.
• Need to find out who doesn’t come and why.

Next Steps

Discussion will be on going and the Board will be creating an instrument to gather more feedback from a greater percentage of the membership. Thank you for your continuing input on these important issues.
**JSTE Call for Reviewers**
Contributed by Wayne Melville, Geeta Verma, and Todd Campbell

This is a formal call to ALL members of the Association for Science Teacher Education (ASTE) who would like to serve on the Editorial Review Board of the *Journal of Science Teacher Education* (JSTE). *JSTE* is the flagship journal of the Association for Science Teacher Education. It serves as a forum for disseminating high quality research and theoretical position papers concerning preservice and inservice science teacher education. The journal publishes eight issues per year, featuring empirical research and theoretical articles focused on science teacher education that have the potential to improve the teaching and learning of science, professional development, and teacher recruitment and retention at all grade levels.

We are seeking International applicants as well as U.S. applicants, who are ASTE members and may be working in a variety of contexts (i.e., university faculty, graduate students, and science educators working in the private sector).

There are two key criteria considered for selection:

1) **Expertise in science teacher education**

2) **Experience as an editorial reviewer**

**Specific Qualifications:**

- Competence in research and/or methodology within some aspect of science teacher education.
- Ability to judge the quality of a manuscript within an area of science teacher education.
• Ability to identify particular strengths and weaknesses of a manuscript and, in a professional manner, offer suggestions for revising manuscripts.

• Established record of publication in peer-reviewed science education and/or related journals.

• Established record as an editorial reviewer for peer-reviewed science education journals and/or proposals for professional science education conferences.

**Duties and Responsibilities if Selected:**

• Read and evaluate approximately six manuscripts per year.

• Provide written reports on manuscripts reviewed using the criteria and evaluation form provided by the Editor(s).

• Review manuscripts within four weeks of receipt.

The role of reviewer is central to maintaining the quality of the journal. As such, we as Co-Editors in Chief work carefully to support reviewers to ensure the standing of *JSTE* into the future.

**To apply, please submit electronically the following materials to Wayne Melville, Geeta Verma, and Todd Campbell at jste@uconn.edu by March 15, 2019:**

1. A letter of interest that addresses the qualifications listed above, as well as a list of at least four areas of expertise in science teacher education in which you would be comfortable reviewing manuscripts.

2. A two-page vita that emphasizes publications in refereed journals and previous reviewing or editing experience.
ISTE Call for Reviewers
Contributed by Rommel Miranda and Ron Hermann

This is a formal call to **ALL** members of the Association for Science Teacher Education (ASTE) who would like to serve on the Editorial Review Board (ERB) for the practitioner journal *Innovations in Science Teacher Education* (Innovations).

*Innovations* is an online practitioner development journal ASTE. *Innovations* is a journal where science teacher educators can share the work they do to prepare preservice science teachers and provide professional development for inservice science teachers. The journal publishes four issues per year, featuring concrete ideas and strategies that are easily replicable by science educators in their own setting, context, and with their unique student population. The activities, ideas and strategies described in the manuscripts must be based on a firm foundation of scholarly work in science education and should describe innovative efforts to advance the field and enhance science teacher education.

We are seeking U.S. and international applicants, who are ASTE members but may be at different stages in their careers and/or working in a variety of contexts (i.e., university faculty, graduate students, and formal or informal science educators working in private sector or nonprofit centers focused on science teacher professional development).

**Qualifications:**

- Established record of publishing in, or reviewing for, peer-reviewed science education practitioner and/or research journals.
- Prior experience as a reviewer for grants or other scholarly works.
- Expertise in teacher education (preservice, induction, and inservice). Areas within these domains can focus on curriculum development, technology, or informal settings.
Duties and Responsibilities if Selected:

- Read and evaluate approximately 4-6 manuscripts per year in a timely manner.
- Review manuscripts within four weeks of receipt.
- Maintain membership in ASTE.
- Commit to serving on the ERB for three years (ERBs will be reviewed yearly).
- Provide written reports and formative feedback on submitted manuscripts using the criteria and evaluation form provided by the Editors.
- Provide feedback to the editors about the journal direction and review process.
- Help recruit high impact authors for the journal.

To apply, please submit electronically in a SINGLE PDF the following materials to Rommel Miranda at Rmiranda@towson.edu by March 15, 2019:

- **One-page letter of interest** that includes a list of at least three areas of expertise in science teacher education in which you would be comfortable reviewing manuscripts.
- **Two-page vita** that emphasizes publications in refereed journals, especially practitioner journals, and includes any previous reviewing or editing experience.
Happy New Year! We are pleased to announce that Volume 4, Issue 1 of the *Innovations in Science Teacher Education* journal is now available at:


This issue features an article that describes how to prepare preservice early childhood teachers to teach nature of science via writing and designing children's books. This issue also contains an article that introduces a professional learning strategy that employs collaborative video analysis to help teachers adjust their instruction to promote the vision and learning objectives of the NGSS. This issue further has an article that describes the use of an online professional learning community within the context of K-8 science education methods courses.

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)).
Call for Manuscripts!

The Editors of the science section welcome your manuscripts that showcase a type of technology and teacher education at any level. The Science Section of Contemporary Issues in Technology and Teacher Education (CITE) is sponsored by the Association for Science Teacher Education (ASTE). The unique purpose of this journal is to publish peer-reviewed research reports and theoretical articles on the use of innovative technologies in science teacher education. The editors encourage manuscripts that deal with the education of preservice or inservice science teachers as well as college level science faculty. This free, Eric indexed, online journal allows authors to include interactive technologies as part of the manuscript for readers’ direct access to the example technologies. The technologies can include video, audio, animation, and external links. In addition, an extended virtual dialogue is possible, as commentaries on published works are encouraged. Consider submitting your manuscript to CITE Journal - Science. Contact the Editors with any questions or suitability of a manuscript.

Andrea Burrows - Andrea.Burrows@uwyo.edu
Tim Slater - TSlater@uwyo.edu
**JSTE 30th Anniversary**

At this year’s conference, we celebrated the 30th Anniversary of ASTE’s flagship journal, *The Journal of Science Teacher Education*. *JSTE* has come a long way in 30 years! A big congratulations to the past and current Editors for developing a resource we all rely on to learn about new developments in improving classroom teaching and learning, professional development, and teacher recruitment and retention at preK-16 levels.

Pictured (from L to R): Geeta Verma, Mark Bloom, Vanashri Naragund-Joshi, Kathy Trundle, Wayne Melville, David Haury, Todd Campbell, Selina Bartels, Dana Zeidler, Judy Lederman, Norm Lederman, Valarie Akerson, Randy Bell, Debi Hanuscin, and Craig Berg
2019 ASTE Awards
Contributed by Lisa Borgerding

Award I Level I, Outstanding Science Teacher Educator

Award I, Level 1, the *Outstanding Science Teacher Educator of the Year Award*, recognizes the individual achievements and contributions of persons having ten or fewer years in their career service.

Award – Dr. Jared Kruse
Associate Professor at Drake University

Award I Level II, Outstanding Science Teacher Educator

Award I, Level II, the *Outstanding Science Teacher Educator of the Year Award*, recognizes the individual achievements and contributions of persons spanning more than ten years in their career service.

Award – Dr. Lisa Martin-Hansen
Professor and Chair of Science education at California State University Long Beach

Award II, Outstanding Mentor

Award II, the *Outstanding Mentor Award*, recognizes outstanding accomplishments in contributing to the professional development of pre-service and in-service science teachers and teacher educators.

Award – Dr. Debi Hanuscin
Western Washington University

Award III, Outstanding Longtime Service to ASTE

Award III, the *Outstanding Longtime Service to ASTE* award, recognizes outstanding service by a senior member of ASTE. For the purpose of this award, service is defined as work accomplished over 15 consecutive or nonconsecutive years by a committed ASTE member in an effort to address issues, goals, and actions that have intellectual merit and broader impact on science teacher education, while simultaneously serving the needs of ASTE members.

No selection was made for Award III this year.
Award IV, Innovation in Teaching Science Teachers

Award IV, *Innovation in Teaching Science Teachers* recognizes an outstanding paper presented at the ASTE 2018 conference that encourages the development and dissemination of new designs for courses and curricula, new instructional methods or approaches, and other types of innovations in the pre- or in-service education of teachers of science.

This year’s award goes to Al Bodzin, Thomas C. Hammond, Kate Popejoy, William Farina, David Anastasio, Breena Holland, James Carrigan, Scott Rutzmoser, and Dork Sahagian.

The title of their award winning paper is *A Curriculum-linked Professional Development Approach to Support Teachers’ Adoption of Socio-Environmental Science Investigations*.

Award V, Implications of Research for Educational Practice

Award V, *Implications of Research for Educational Practice* recognizes an ASTE 2018 conference paper presentation that identifies a persistent and recurring problem in the practice of science teacher education. The paper should develop strategies to resolve the problem based upon a comprehensive synthesis of relevant research and interpret theory and research for practice.

This year’s award goes to Jennifer Maeng, Randy Bell, Tyler St. Clair, Amanda Gonczi, and Brooke Whitworth.

The title of their award winning paper is *Supporting Elementary Teachers’ Enactment of Nature of Science Instruction: A Randomized Controlled Trial*.

Future ASTE Awards

Contributed by Lisa Borgerding

Science Education Career Awards (Due June 1)

ASTE makes available three Science Education Career Awards, Award I for Outstanding Science Teacher Educator of the Year, Award II for Outstanding Mentor, and Award III for Honorary Emeritus Membership, that recognize the personal achievements and professional contributions of its members. An ASTE member, who is cognizant of the qualifications of an ASTE member nominee, must submit the nomination. The nominee should be informed about the award nomination and nominators must follow guidelines in preparing nomination materials. The responsibility for the preparation of documentary evidence rests with the nominator.
2019 ASTE Graduate Student Forum
Contributed by Shana Lee, Leiflyn Gamborg, and Melanie Kinskey

Thank you to everyone who supported Graduate Student Forum events at the 2019 ASTE International Conference. We have highlights to share from this year’s conference in Savannah.

Annual Business Meeting – We held our annual business meeting and elections on Thursday over the lunch hour and had approximately 50 people in attendance. Thank you to the ASTE Board of Directors for helping to make our Graduate Student Forum Business Luncheon possible! During this meeting, we discussed ways for graduate students to be involved in ASTE and held our elections. Our new President-Elect is Leiflyn Gamborg, and our new Vice President is Melanie Kinskey.

Graduate Student Workshop – We held the first annual Graduate Student Workshop: Preparing for the Workforce. This workshop consisted of three roundtable rotations of 15 minutes each that allowed participants to choose and discuss three different topics. Topics available to participants included Job Search Strategies and Process (Dr. Kent Crippen), Developing an Effective CV (Dr. Kathy Cabe Trundle), Preparing for the Campus Visit (Dr. Julie Luft), Academic Life and Your Path (Dr. Randy Bell), Women in Academia (Dr. Gillian Roehrig), and The Professoriate (Dr. Bill McComas). Thank you to all who participated and a special thank you to the professionals who shared their experience. If you would like to recommend a topic for a future workshop, please contact Shana Lee.

Three Minute Thesis® Competition - We held the second annual ASTE Three Minute Thesis® competition on Friday morning, and five graduate student competitors presented their dissertation research in only three minutes each. Thank you to all competitors:

- Heidi Cian, Clemson University
- Felicia Dawn Tibayan Leammukda, University of Minnesota
- Amity Gann, Temple University
- Katie Rorrer Green, North Carolina State University
- Brenda Carpenter, Texas Tech University
Congratulations to our winner, Brenda Carpenter, and our runner-up, Katie Rorrer Green! Their single, static PowerPoint slides are pictured below.

**Brenda Carpenter, Texas Tech University**

[Image 1]

**Katie Green, North Carolina State University**

[Image 2]

Thank you to all of the competitors and to our wonderful 3MT® Judges: Drs. Malcolm Butler, Julie Contino, Carol Johnston, Rudolf Kraus, and the 2018 winner Lesley Shapiro. We hope to continue the 3MT® next year! If you would like to participate or judge please contact Shana Lee.

Thank you to our outgoing President, Jeanna Wieselmann and Vice President, Preethi Titu, for your work in planning and preparing these events.
Graduate Student Board Member – In 2018, we elected our first graduate student voting Board member. This service is a two-year position. In addition to representing the voice of graduate students, the graduate student Board member will foster increased communication between the Board and GSF leadership. Congratulations to Katie Green, North Carolina State University.

Graduate Student Recognition – Have you or a graduate student you mentor reached a significant milestone this year? We want to recognize the important work being done by ASTE’s graduate student members. 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.

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 (lgambo1@lsu.edu)
Melanie Kinskey – Vice President, Graduate Student Forum (melaniekinskey@gmail.com)
Katie Green – Graduate Student Board Member (kegreen4@ncsu.edu)
The SW ASTE Region cordially invites you to the 2020 conference that will begin with pre-conference activities on Wednesday, January 8th and continue through Saturday, January 11th. The program will include a variety of topics that will surely result in stimulating conversations.

San Antonio just celebrated its 300th birthday and continues to be a leading vacation and meeting spot. Recent accolades include:

- **National Geographic Traveler’s** Editorial Board selected San Antonio as a “Best of the World” destination for 2018.
- **Travel & Leisure** selected San Antonio as one of its “50 Best Places to Travel in 2018.”
- **Frommer’s** names San Antonio as a “Best Place to Go in 2018.”
- San Antonio also was chosen by **Fodor’s Travel** for their “2018 Go List.”
- In 2018, San Antonio was ranked No. 1 in **SmartAsset’s** “10 Best Cities for Meetings,” for the third consecutive year.

Lots more information can be found at [https://www.visitsanantonio.com/](https://www.visitsanantonio.com/)

And of course, don’t forget the Alamo!

See y’all in San Antonio
ASTE Election Committee News – 2019 Nominations
Contributed by Erin Peters-Burton

The ASTE Elections Committee would like to announce the call for nominees for the following elected positions that will be on the 2019 ballot (number of positions in parentheses):

President (1)
At-Large Board Members (2)
Elections Committee (2)

The deadline for nominations is March 15, 2019.

The following information should be submitted for the nominee:
- Name of Nominee
- Position for which the person is being nominated
- Nominee contact information, including email address

The nominee information should be submitted electronically on the website. You will need to log in as an ASTE member to submit your nomination. Receipt of the nomination will be acknowledged via a reply message.

Once the Elections Committee receives nominations, potential candidates are evaluated based on their service to ASTE through a variety of venues including: service on ASTE committees, service at ASTE conferences, and publications in ASTE related journals. The rubric used to evaluate nominated candidates is found on the nominations page. Please note that prior service experience to ASTE is what is primarily used to evaluate nominees. We encourage anyone interested in more information to contact the Co-Chairs of the committee.

For more information about the roles and responsibilities of the ASTE Leadership Team positions, please visit the ASTE website. Information about each of the positions may be found on pages 4 and 15 of the link “Statement of Operating Procedures” found within the “About” tab.

Sincerely,
Erin Peters-Burton, Chair
Rita Hagevik, Co-Chair
Stephanie Philipp
Julie Brown
Kristin Cook
Rebecca Hite, Equity Committee Member
South-West – ASTE Meeting News
Contributed by Kelly Feille

At the 2019 ASTE International Conference, 20+ members of the South-West region gathered to celebrate graduate student travel awards, the election of our own Gil Naizer as ASTE president-elect, and plans for the 2019 SWASTE Regional Conference.

Drew Gossen, doctoral student at Oklahoma State University, received the Graduate Student Travel Award for his co-authored ASTE presentations "Why We Can’t Say Goodnight Moon: Preservice Elementary Teachers’ Fragile Moon Understandings" and "Preservice Teachers Learning Formative Assessment Through Formative Assessment".

Stephen Burgin (University of Arkansas), President-Elect, shared plans for 2019 SWASTE to be held October 25-26 in Fayetteville, AR at the University of Arkansas campus (promised to be boasting gorgeous fall foliage). Look for calls for proposals coming later this spring and registration info early summer.

The South-West region looks forward to being the host region for ASTE 2020 in San Antonio, TX and we are compiling our lists of the must-see spots on the Riverwalk.
You can stay up to date with the Southwest Region at the region's [webpage](#) and by signing up for our mailing list on the [Contact Us](#) page.

2019 Graduate Student Travel Award Recipient Drew Gossen with SWASTE Board members. From left to right: Stephen Burgin, Kelly Feille, Drew Gossen, Gil Naizer, and Jenesta Nettles.

Southwest Regional Meeting at 2019 ASTE in Savannah, GA
Horizon Research released the first report from the 2018 NSSME+ at this year’s ASTE Conference. The report can be found here.

The 2018 National Survey is the sixth in a series of surveys dating back to 1977. The study provides current data on essential elements of the K-12 science, mathematics, and, new in 2018, computer science education system in the United States, including:

- Instructional practices and how well these align with current understanding of learning.
- Factors that shape teachers’ decisions about content and pedagogy.
- Characteristics of the science/mathematics/computer science teaching force in terms of race, gender, age, content background, beliefs about teaching and learning, and perceptions of preparedness.
- The most commonly used textbooks/programs, and how they are used.
- Formal and informal opportunities teachers have for ongoing development of their knowledge and skills.
- How resources, including well-prepared teachers and course offerings, are distributed among schools in different types of communities and different socioeconomic levels.
ASTE EE Forum News
Contributed by Al Bodzin

The ASTE Environmental Education Resources page was just recently updated (go here). Members of the ASTE Environmental Education Forum contribute materials to support the inclusion of environmental education for the preparation of science teachers.

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: Our president compared the ASTE community to the patrons of Cheers. A particular Cheers patron appeared in all 275 episodes between 1982 and 1993. The ASTE community has a member who shares this patron’s name. Find this ASTE member and click to become a Newsletter Sleuth.