Dear ASTE Colleagues,

I hope your spring semester has been positive and productive. The end of an academic year is always a good time to reflect and celebrate with our graduates as they complete their programs to become K-12 science teachers, informal science educators, science teacher educators, and science education researchers. It is also a time to celebrate the careers of our colleagues who were recently tenured or promoted, as well as those who are retiring. As we work to make ASTE more prominent in social media, it is exciting to see our members sharing these events on Twitter. Please follow us at @the_aste so we can promote your events and research to reach a broader audience who can benefit from the work of ASTE members.
Since our annual conference this past January in Des Moines, the ASTE board has been hard at work advocating for our members and science teacher education. On March 7, 2017, ASTE signed on as an official partner with the March for Science. The March for Science champions robustly funded and publicly communicated science as a pillar of human freedom and prosperity. United as a diverse, nonpartisan group to call for science that upholds the common good and for political leaders and policy makers to enact evidence-based policies in the public interest. The core principles are (1) science that serves the common good, (2) evidence-based policy and regulations in the public interest, (3) cutting edge science education, (4) diversity and inclusion in STEM, (5) open, honest science, and inclusive public outreach, and (6) funding for scientific research and its applications. There are clear synergies between these core principles and the mission of ASTE.

Many ASTE members marched across the world on April 22, 2017. Many were in San Antonio, and I had the pleasure of marching with ASTE members in San Antonio, including many members of the ASTE Graduate Forum. As you will see on the next page, we proudly represented ASTE!

The ASTE Board is currently preparing for our summer board meeting at the end of May in Baltimore. Each year the summer board meeting is held at the location of the upcoming conference to help prepare for the best possible January meeting. At this meeting, we will also be continuing our strategic planning process. Major topics include what it means to be an international association that support science teacher education across the world and how we work toward a stronger international membership and presence. Additionally, we will continue to explore ways to improve members’ experience at the January meeting. The board welcomes your feedback and suggestions on these and any other issues. Please communicate with the presidential team, board members, committee members, and forums on any issues that need to be discussed.

Gillian Roehrig, Ph.D.

ASTE President
March for Science
Contributed by Gillian Roehrig, Peter Cormas, and Kate Popejoy

Some pictures of ASTE members who participated in the March for Science on Earth Day.
2018 ASTE International Conference
Contributed by Ron Hermann and Rommel Miranda
Please join us in Baltimore, Maryland for the 2018 Association for Science Teacher Education International Conference. The conference will be held at the Hyatt Regency Hotel from January 3rd through 6th. The recently renovated Hyatt Regency Hotel is offering ASTE members the low rate of $79 per night so be sure to save the date and look for upcoming information about room reservations.

The Hyatt Regency Hotel is located in the heart of Baltimore’s Inner Harbor and is within walking distance to numerous attractions. Plan to take advantage of the location and enjoy the sights and maybe even go ice skating at the outdoor Pandora ice rink just a block from the hotel. Little Italy, Harbor Place, Fells Point, and Federal Hill are all areas you will want to visit for their history, cultural attractions, restaurants, and night life.

Baltimore is easily accessed by planes, trains, and automobiles. The Hyatt is a short drive from BWI airport and direct flights from many airports are possible. For those interested in driving,
Baltimore is conveniently located just off of Interstate 95 and equally accessible from Interstate 70 for those travelling from the west.

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. ASTE advances practice and policy through scholarship, collaboration, and innovation in science teacher education. Our members include science teacher educators, science content faculty, curriculum developers, informal science educators, and others involved with the education of science teachers.

Keynote speaker Dr. Kacy Redd is the Assistant Vice President of science and mathematics education policy at the Association of Public and Land-grant Universities (APLU). She co-directs the Network of STEM Education Centers (NSEC), which currently links 149 STEM Education Centers (SEC) at 126 institutions. Dr. Redd also manages APLU’s Science and Mathematics Teaching Imperative (SMTI), a commitment by 132 public research universities to improve science and mathematics teacher preparation. Dr. Redd received her PhD in neuroscience from Columbia University.

Proposals should address issues concerning science teacher education; these can be a research study, philosophical essay, position paper, innovative idea, etc. Formats include traditional paper presentations, themed paper sets, posters, roundtables, syllabus sharing, and experiential sessions. Proposals will be accepted beginning April 1, 2017. The priority deadline for proposals is midnight July 9, 2017. Proposals received after the deadline will only be considered on a space-available basis. For more information, please go to the ASTE website or the Facebook group. If you have questions, please contact the conference co-chairs, Ron Hermann (rhermann@towson.edu) or Rommel Miranda (rmiranda@towson.edu).
2018 ASTE Preconference Field Trip: National Aquarium and Maryland Sea Grant Aquaculture Facilities Tours
Contributed by Ron Hermann and Rommel Miranda

Ever wondered what goes on behind the scenes at the Aquarium? Here’s your chance to step into our stories and see the National Aquarium in a brand new way. In this incredible experience, an expert will lead you through our exhibits. Your guide will share fascinating stories about our animals and the habitats they call home, lead you to exclusive staff-only areas, take you up-close with one of our animal residents, and so much more. Join us and become an Aquarium insider—you’ll never experience the National Aquarium the same way again! You’re free to explore the Aquarium during regular hours before or after your tour. Tour length is 2 ½ hours.

Participants will also tour the Maryland Sea Grant Aquaculture Research Center (ARC) at the Institute of Marine and Environmental Technology in Baltimore, MD. The ARC is an extensive fish-holding facility located in the basement of the Columbus Center. ARC is an 1,800-square-meter, state-of-the-art, environmentally responsible marine core facility that provides excellent experimental capacity for research with marine organisms. ARC contains multiple tanks of 1, 2, 3, and 4 meters in diameter (ranging in volume from 1 to 20 cubic meters) specifically designed to maintain broodstock and conduct research with fish of various species and sizes. ARC also has 32 smaller tanks for carrying out experiments with multiple groups of fish as well as a complete hatchery area equipped with larval-rearing systems and facilities for culture of a wide range of food chain organisms for larval diets. ARC also includes a 70-square-meter quarantine facility, a 50-square-meter pathogen room, and a 40-square-meter laboratory space designed for manipulating fish experimentally and performing basic bench work. At full capacity, this facility could maintain up to 8,000 adult fish and 7500 embryos. Tour length is 2 hours.

Participants will be split into two groups. One group will tour the aquaculture facility first, the other will tour the aquarium first. For the second half, participants will switch venues.
ASTE Legacy Account
Contributed by Bob Hollon

Do you wish to support ASTE beyond your membership contributions? Advocate for new or existing organization activities? Include ASTE as part of your charitable giving? The ASTE Legacy Account may be for you!

What is the ASTE Legacy Account? The Legacy Account was established in response to requests from members who wanted a way to offer additional financial support to the organization as active members and as part of estate planning. It is currently a Money Market account set up to track and manage donations separately from the general operating budget. The current model allows us to directly receive and disburse funds. We are also exploring ways to manage large donations where the principal is retained while the interest is disbursed.

How will my donation be used? It’s up to you! The Legacy Account was established to provide a way to donate money to the organization. Your donation may be directed to support specific activities, such as graduate student travel to the conference or retaining speakers. It could be used to encourage new initiatives or recognize achievements. You could also make undirected donations to support the overall operation of the organization.

How can I donate? The first step is to contact the ASTE Executive Director (see below) to discuss your donation. That way, we can set up a procedure that is convenient and respects your goals. It is possible to set up automatic monthly contributions, annual gifts, estate giving, or direct donations with a check or bank transfer.

What about privacy? ASTE will respect your wishes. We will recognize donations at the annual business meeting, and at activities supported by donations. While the Executive Director will know the identity of donors, if you prefer to remain anonymous your identity will not be revealed.

Is my donation tax deductible? We will provide you with a letter acknowledging the amount of your contribution and any directions for disbursing funds. ASTE is a 501 c(3) non-profit organization registered in the State of Alabama, USA. Your contribution may be wholly or partially tax-deductible. Please consult your tax professional for further details.

Dr. Robert E. Hollon, ASTE Executive Director
9324 27th Ave, Eau Claire, WI  54703
715.838.0893
Executivedirector@theaste.org
We are pleased to announce that Volume 2, Issue 2 of the *Innovations in Science Teacher Education* journal is now available at:


This issue features an article that describes how to help secondary preservice teachers understand the essence of the learning cycle and craft learning cycle lessons. This issue also contains an article that describes a collaborative project in which elementary education majors partnered with recreation majors to develop and implement science lessons in the outdoors. Another article in this issue presents a Science Teacher Learning Ecosystem model and explains how it frames the design within elementary science teacher education coursework. This issue further has an article which describes a guided reflection activity in an elementary science methods course.

We are also extremely thankful for our dedicated editorial review board members who always provide insightful comments and suggestions to authors.

Special thanks to John Rhea, Director of Electronic Services, for his tireless work developing the *Innovations* journal website. In addition to being able to read articles online, John has included an option to view, print, or save articles as a PDF.

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

Please join our [Facebook Group](https://www.facebook.com) 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 pre-service or in-service 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
Greetings from the ASTE Graduate Student Forum! We hope the semester has finished well for our graduate student members and you are enjoying a more relaxing time now that summer is here!

Later this year we will be sending out a formal call for nominations for the leadership positions within the Graduate Student Forum. We wanted to use this newsletter as an opportunity to provide a brief overview of our positions so that graduate student members can begin thinking about whether they would like to nominate themselves for these positions. We will hold elections for the following positions at the upcoming 2018 ASTE conference in Baltimore:

- **President-Elect** - This position is a two-year commitment to serving and engaging the graduate student members of ASTE. Graduate students elected to this position serve a one-year term as president-elect, in which they support the current president, followed by a one-year term as president of the Graduate Student Forum.

- **Vice President** - This is a new position we are creating this year to support the president and president-elect. This position holds a one-year term and is designed to allow a graduate student member to support the president and president-elect in engaging graduate student members without the two-year commitment of the president-elect/president positions.

Detailed descriptions of the duties associated with the President, President-Elect, and Vice President positions can be found [here](#). Please feel free to contact Andrea, Karl, or Jeanna with questions about serving in these roles.

We are currently working with the ASTE executive board and committees to develop some exciting new opportunities for our graduate student members at the upcoming meeting in Baltimore. We are very excited about these opportunities and look forward to sharing more about them later this year! Happy summer and see you all in Baltimore!

Andrea Rediske - Co-President, Graduate Student Forum ([andrea.rediske@ucf.edu](mailto:andrea.rediske@ucf.edu))
Karl Jung - Co-President, Graduate Student Forum ([kgjung@umn.edu](mailto:kgjung@umn.edu))
Jeanna Wieselmann - President-Elect, Graduate Student Forum ([jeanna@umn.edu](mailto:jeanna@umn.edu))
Mid-Atlantic – ASTE Meeting News
Contributed by Rommel Miranda (Regional Director) & Stephanie Philipp (2017 Conference Chair)

Please mark your calendars to attend the 2017 MA-ASTE Regional Conference next September 29-30 at Jenny Wiley State Resort Park in Prestonsburg, Kentucky. Proposals for plenary talks and posters are due by 5 pm EST, Monday, July 17. Please register for the conference by Friday, August 18. Discounted rates on lodge rooms and cabins will be available until August 28. Directions for proposal preparation and submission, conference registration, and hotel reservations are available on the MA-ASTE webpage, the Facebook page, and by email request to the Conference Chair, Dr. Stephanie Philipp, at stephanie.philipp@louisville.edu. This region is an active and supportive group for science teacher educators and we always welcome new attendees and graduate students!

Special thanks go out to our 2017 regional conference planning team: Stephanie Philipp (University of Louisville), Sherri Brown (University of Louisville), and Scott Townsend (East Kentucky University)!

Photo: Stephanie Philipp, Sherri Brown, and Scott Townsend
Also, please click on the following link to join our MA-ASTE Facebook group page. This Facebook group page was created for the exchange of ideas and promotion of high-quality science teacher education, both preservice and in-service. Special thanks go out to Eric Pyle and Christopher Atchison for volunteering to moderate our Facebook group page!

Lastly, if you are a graduate student planning to attend the 2017 MA-ASTE conference, please click on the following link for information regarding the 5th annual MA-ASTE Dr. Patricia Obenauf Graduate Student Research Presentation Award.
ANNOUNCEMENT & CALL FOR PROPOSALS
Southeast ASTE Regional Meeting
Springhill Suites by Marriot
24 Via De Luna Dr.
Pensacola Beach, Florida
October 13th and 14th, 2017
Conference Theme: Citizen Science, Policy and Public Scholarship

The SASTE 2017 annual conference will be hosted by the University of West Florida at the Springhill Suites by Marriot located on Pensacola Beach, Florida. The link to book your room reservation using the group-discounted rate is provided on the SASTE Annual Meeting/Conference webpage.

We will welcome attendees on Friday, October 13th and will have keynote and concurrent sessions on Saturday, October 14th. Opportunities for grant collaboration and policy discussions will be provided.

Please plan on joining us to share your scholarship and learn of emerging research ideas in science teacher education. We encourage ASTE Members, Higher Education Faculty, and Graduate students to submit proposals. There are a number of session types available including paper and poster presentations.

Proposals consist of a one page single spaced 10-12 font size abstract that includes the following: 1) Summary of Research/Content, including rationale or purpose, 2) Potential Implications, and 3) Brief description of your Presentation Approach.

Proposals will be accepted online here.

For information about SASTE visit the webpage.

Questions can be emailed to John Pecore, SASTE President, at jpecore@uwf.edu
Other Opportunities for ASTE Members
Contributed by Bridget Mulvey

The journal *Cartography and Geographic Information Science* has a call for papers for a special issue on science education.

Please consider submitting a manuscript on mapping in high need schools and school districts/divisions, especially those with limited resources such as little to no computer access, and special education contexts. Deadline for submissions: Sept. 1, 2017.

Newsletter Information

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Issue Items due by

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

All members are invited to submit items.

Editors: Ian Binns and Mark Bloom
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