I hope each of you is staying safe, calm, and healthy during these interesting times. I had hoped to avoid mentioning the pandemic in this column, but it is not possible. The Board just completed a first ever May board meeting virtually. Normally, we meet in the location of the upcoming conference in order to facilitate planning details, etc., but that was not possible this year. However, we were able to have a productive meeting and made considerable progress for your association.

The Board spent substantial time considering options for January and at this time all options are on the table. Be on the lookout for a very important ASTE Covid-19 Conference Contingencies survey via email (it went out in late May). We are not making a decision anytime soon, but want to have feedback from the membership as we move forward.

Thanks to the Equity Committee, we have a good draft of a Professional Code of Conduct and plan to have this completed and approved by the end of the year. According to ethics.org, “A well-written code of conduct clarifies an organization's mission, values and principles, linking them with standards of professional conduct. The code articulates the values the organization wishes to foster in leaders and employees [and members and conference attendees] and, in doing so, defines desired behavior.” The Board believes this is a good next step building on our non-discriminatory policy regarding conference locations.
A redesign of the website will also be underway. According to John Rhea, our Director of Electronic Services, our current website is “bolting things to bolted on things to bolted on things” and has not had a major update since 2012 – that is a long time in computer time and the Board decided to invest in the update. While this will take a bit of time, we look forward to having a much more modern, functional ASTE website soon (thanks Web-design Ad Hoc Committee).

ASTE currently has six position statements posted on our website under the Publications tab. All of them are rather dated and in need of revision. I will be appointing Ad Hoc committees to do the review/update of position statements as detailed in our SOPs – if you are interested in working on these revisions and/or have historical knowledge of their development, please email me (gilbert.naizer@tamuc.edu).

I hope to be able to see you in Salt Lake City in January!

Take Care,

Gil Naizer, ASTE President

Repository of Online Science Teacher Education Resources (ROSTER)

Contributed by Debi Hanuscin and Gil Naizer

We are living in extraordinary times, which have impacted our U.S. educational system on a grand scale. Campuses are shuttered and professors and students have moved to remote technologies to continue to engage in teaching and learning. Immediately, social media tools became important for supporting faculty—at all levels and in all disciplines—in working together to respond to this change. On March 17, 2020 a group of ASTE members launched a new Facebook group to support science teacher educators, specifically, in transitioning to emergency online education. With nearly 400 members, the group has already shared over 50 resources and tools—but more importantly, it has extended ASTE’s sense of community and support beyond our organization. ASTE membership is not required to join—and in fact, many members of the group are not currently ASTE members and some are unfamiliar with ASTE. ROSTER is just one example of how we can carry out ASTE’s mission to support for professionals involved in the education and development of teachers of science at all levels. As we face continued uncertainty, we hope this group can help us remain connected as a community. More importantly, we hope that by capitalizing on the knowledge and expertise in our community, we can begin to collectively address the issues of scientific (il)literacy, equity, and educational access that have become magnified during this pandemic.

To join, visit: https://www.facebook.com/groups/885756431852684/
I became interested in reflective teaching while taking my Spring semester science education course. One of the assigned readings stated, “Reflection steps back and examines past experiences in the light of other connections and alternatives…the past and present provide a basis for the future without limiting or tightly controlling the future” (Doll, 1993). I believe it is imperative to reflect over teaching techniques to determine the best way to improve in the classroom. We need to reinvigorate the concept of transformation through reflection.

In the course, we also read Chapter 13: Reflective Capabilities of Mathematics Education Systems in China, Japan, and the United States from “What Matters? Research Trends in International Comparative Studies in Mathematics Education” (Ricks, 2017). Wherein they discussed how China and Japan implement lesson studies, public demonstration lessons, and teaching competitions while promoting more interactions between teachers in the same discipline. The author stated, “US teachers rarely share subject-specific office space, collaboratively plan lessons, or observe each other teach, and typically lack administrative support for such activities” (Ricks, 2017). I was intrigued with the idea of lesson study, where educators prepare a lesson, teach the lesson, collect information on students during the lesson, then meet to debrief and revise the lesson.

Can We Bring an Interactive Lesson Study Session to ASTE 2021?
By Adronisha Frazier

I attended my first ASTE Conference in January. I was thrilled to interact with so many science educators across the country, or should I say world. One thing I really appreciated about this experience was the connections formed and information learned during the Graduate Student Workshop. I particularly liked this session because we were given time to gather information, discuss, and reflect on what we learned about preparing for the workforce.

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Continued on the next page
A few years ago, I taught high school chemistry at a public charter school. We had science content days every other month for teachers in grades 6 through 12 to collaborate on lessons and reflect on best practices. However, I have noticed we do not engage in this practice at some public schools or the college level. As teacher educators, we must recognize the importance of teacher reflection to drive course redesign in enhancing student performance and engagement. I think it would be interesting for a master teacher to actually teach a small class of secondary students in a master session as a way for other educators to observe, constructively critique, respond, and reflect as a group on ways to enhance teaching. I, for one, would happily attend this session next January.

I am interested in hearing other thoughts or in assisting someone who might want to help set up this type of session. As a graduate student in Louisiana, I do not have ready access to teachers and schools in Salt Lake City, but I am willing to help plan the session. I would also like to hear feedback from anyone interested in serving on a planning committee to figure out the best approach to recruit students and teachers.

References:

Adronisha Frazier (Afraz13@lsu.edu) is currently a doctoral student at Louisiana State University while working full-time as a Biology Instructor at Northshore Technical Community College. She is currently interested in creating and implementing Open Educational Resource (OER) content for higher education, enhancing interest in microbiology education through hands-on learning, and implementing real-life situations in all biology courses and activities.

Continue the conversation using the hashtag #TheASTEOpEd on Twitter, Facebook, and the Listserv
Regional Updates

Southwest Region (SWASTE)

SWASTE is happy to announce our Fall conference.
SWASTE 2020 "Bees, Trees, and Breweries"

Conference Date: October 9-10, 2020
Location: Sam Houston State University, The Woodlands Center Campus, Woodlands, Texas
Airport: Bush Intercontinental Airlines (IAH) – 20 minutes South of the Woodlands
Hotel: Marriott Springhill Suites and/or Marriott Towne Square $109/$189

Call for Proposals: May 15th - August 15th

More information and the conference submission portal can be found at: https://sw.theaste.org/south-west-aste-regional-meeting/

Contributed by Kelly Feille

Southeastern Region (SASTE)

Proposals are currently being accepted for the 35th annual SASTE meeting. The conference theme is "STEM in the community." The conference will take place in Dahlonega, Georgia at the University of North Georgia. Participants arriving on Friday (October 2, 2020) will have an opportunity to participate in an afternoon hike on the Lake Zwerner Trail around the Yahoola Creek Reservoir (3.2 miles – rated moderate) and attend an evening social in Dahlonega! The conference will begin Saturday morning (October 3, 2020) and will include 1) presentations (traditional, works in progress, and advice in the trenches), 2) a session for mentoring and dialogue between regional members, and 3) our keynote speaker, Dr. Rosann Kent, Director of Appalachian Studies Center at the University of North Georgia.

Proposals should be submitted before 11:59 pm on June 15, 2020; notification of acceptance will occur shortly thereafter. Please note that you must be a current SASTE member to present.

To submit a proposal, go to https://se.theaste.org/annual-meetingconference/
North East Region (NEASTE)

Regina Toolin, NEASTE Director, Sheila Borges Rajguru, NEASTE Treasurer and Kristina Hopkins, NEASTE Secretary, collaborated to host the 2019 NE-ASTE Regional Conference on October 10\textsuperscript{th} and 11\textsuperscript{th} at the University of Vermont (UVM) in Burlington, VT. We partnered with UVM’s Rubenstein School for the Environment to host a trip aboard UVM’s \textit{Melosira Research Vessel} on Lake Champlain. Approximately 25 participants attended these events.

The full conference on October 11\textsuperscript{th} at UVM’s Davis Center in Burlington, VT consisted of a keynote presentation by Dr. Leon Walls from UVM’s Department of Education as well as poster, round table, and paper presentations. Approximately 65 participants attended the formal conference at the UVM Davis Center on Friday, October 11\textsuperscript{th}, 2019.

The 2020 NE-ASTE Regional Conference will be held at the Mercy College, Dobbs Ferry, NY in October 2020.

\textbf{NEASTE Website:} \url{http://cmy.11b.myftpupload.com/about/}

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\textbf{Aboard the \textit{Melosira Research Vessel} – Lake Champlain, VT, October 10, 2019}

Left: Kristina Hopkins, NEASTE Secretary (2016-19)
Center: Regina Toolin, NEASTE Director (2016-19)
Right: Sheila Borges Rajguru, NEASTE Treasurer (2016-19)
Mid-Atlantic Region

Mid-Atlantic Region to Host September Conference in Beautiful North Carolina Mountains

We are excited to announce the location of the Fall Mid-Atlantic ASTE in **Blowing Rock, North Carolina**. We have reserved a location where we will totally take over **Blowing Rock Conference Center** for the conference!

Mark your calendars to arrive on Wednesday evening, September 23, 2020 with the conference all day Thursday and Friday, Sept. 24-25, with a Saturday field trip to Grandfather Mountain.

This year, the conference will be all inclusive with the room, registration, and food wrapped together into one payment. The conference co-chairs, Leslie Bradbury, Lisa Gross, and Rachel Wilson (App State) and Meg Blanchard (NC State) will send out a Google form soon to find out tentative plans of our members.

Get ready for some first ever events, such as a cornhole tournament, Karaoke, and of course outdoor campfires. Ask members about “The Box.” Enjoy shopping and dining in picturesque Blowing Rock, just minutes away, a wonderful family vacation spot.

Spread the word to all of our colleagues in the District of Columbia and the following states: Delaware, Kentucky, Maryland, North Carolina, Ohio, Tennessee, Virginia, West Virginia and beyond! All are welcome.
International Region

The International Region of ASTE is hoping to participate in EASE 2020, which has been rescheduled for February 3-6, 2021 and will take place at Kyungpook National University in Daegu, Korea. The theme of the conference is 'Challenges of emerging technologies in science education' and the keynote speaker will be Marina Milner-Bolotin from the University of British Columbia. For more information about the conference, visit http://www.ease2020.kr

If you would be able to attend the EASE conference and are interested in participating in an ASTE International Region symposium, please contact Chris Tippett at ctippett@uottawa.ca and indicate your preference for one or more of these themes: a) climate change education (although framed more generally), b) standards based science teaching, or c) science identities.

New Resource

The Science Notebook: Teacher Education Edition

Science notebooks have become common in school science classes. They provide structure for note taking and recording observations. Writing, drawing, and concept mapping present opportunities for reflection and deepening conceptions. Notebooks also model the actions of scientists and engineers as they work. The Science Notebook: Teacher Education Edition has been created for preservice teachers. It helps them deepen their understanding of practical aspects of notebooking and appreciate the great potential they have for teaching and learning. In the main section, pages are numbered. Half of the pages are dotted for note taking, drawing, and graphing. Across from the dotted pages are blank pages which provide more area for recording and that contain embedded activities. The notebook is optimized for preservice elementary and middle school teachers to use as a science notebook while they are in science methods courses. It is especially useful in hybrid or online courses as class set-up time is not needed. The notebook has a Table of Contents, Concept Index, Concept Clavis, Readings, and activities. It features readings on science notebooking, the 5-E instructional model, alternative conceptions, and concept mapping. The Science Notebook endeavors to be a written record students keep to remember the most important class in their science education journeys. (Published by Independent Variable, LLC; available at Amazon for $9.49, http://links.asu.edu/notebook)

Contributed by Peter Rillero
ASTE Graduate Student Forum Updates

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!

Graduate Student Recognition
Congratulations to our President-elect, Regina McCurdy on her publication "Problem-Based Design Thinking Tasks: Engaging Student Empathy in STEM" in the upcoming issue of the Electronic Journal of Mathematics and Science Education!

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 to like the ASTE Graduate Student Forum Facebook Page and follow us on Twitter (@ASTE_GradForum).

Leiflyn Gamborg - President-Elect, Graduate Student Forum (lgambo1@lsu.edu)
Regina McCurdy - President-Elect, Graduate Student Forum (regina.mccurdy@ucf.edu)
Heather Lavender - Vice-President, Graduate Student Forum (heatherl@lsu.edu)
Katie Green - Graduate Student Board Member (kegreen4@ncsu.edu)
2021 Salt Lake City ASTE Conference

Life Elevated!
The Conference Committee invites you to journey to Utah and join us at the 2021 ASTE conference in Salt Lake City.

Pre-conference adventures begin on January 13th, and the conference continues until January 16th.

Numerous hiking trails and ski slopes are accessible within a short drive from Salt Lake. Hotel rooms at the conference rate will be available from January 11th through January 18th so that you may fully explore all the many wonders Utah has to offer.

Recent Honors:

Top Ski Resorts: Snowbird and Alta (Forbes)
#1 US Hiking City: Salt Lake City (National Geographic)
#1 Mountain Town: Park City (Travel + Leisure)
#2 Friendliest US City: Salt Lake City (Travel + Leisure)

Utah hosts the Utah Jazz, Utah Grizzlies, REAL Salt Lake, 6 National Parks, and 7 National Monuments. And for patrons of the arts, Salt Lake offers nationally recognized professional companies: Ballet West, Salt Lake Symphony, Utah Opera Company, Pioneer Theater Company, and the Utah Festival Opera and Musical Theatre Company.

We look forward to hosting you at higher elevations!

Kathy Cabe Trundle and Max Longhurst, Conference Co-Chairs
Northeastern State University at Broken Arrow (8-10th Grade)

Get Green for Blue: Outdoor STEM Investigations Connecting Water to You

June 22-26, 2020

Put on your waders, grab your net, and let’s catch those critters! Working in teams, you will learn about water quality through collecting data, analyzing the health of water bodies, and determining possible solutions to water quality problems. This STEM Summer Academy program is open to students entering the 8th through the 10th grades. Come to Northeastern State University in Broken Arrow and the Rogers County Outdoor Education Reserve June 22-26 and be a part of this fun, activity-based STEM adventure!

For more information contact Dr. Pamela Christol

Phone 918-449-6539, email: christol@nsuok.edu

https://www.nsuok.edu/Outreach/SummerCampsandPrograms/GetGreenforBlueCamp.aspx

Postdoctoral fellowship – School of Education
University of São Paulo

A postdoctoral position is opened at the Faculty of Education of the University of São Paulo to take part in a wider research project aimed at understanding what young people think about biological diversity and evolution in different regions of Brazil. As there is a lack of didactic materials to support the teaching of Brazilian biodiversity in basic education, this is another expected outcome of the research project, linked with the content provided by the BIOTA/FAPESP Program. The didactic transposition of the knowledge base provided by this research program into the classroom has proved to be very difficult, and research is needed to elucidate students' interests and attitudes as well as possibilities for curricular integration in basic education. On the one hand, it is necessary to map areas that lack stimulation and, on the other, to discover unanswered demands. In both cases, the planning of teaching materials focusing on Brazilian tropical biota would be a major step towards expanding public support for conservation actions and the promotion of sustainable practices. Materials to support teachers are also part of the expected outcomes.

Further information about terms and conditions, application details, selection criteria, and the full announcement can be obtained at FEUSP’s site (www.fe.usp.br) and/or writing to the institutional e-mail: cgpfe@usp.br.
CITE Journal Science Wants your Technology Related ASTE Papers for Publication

Consider submitting your past ASTE paper for publication consideration in CITE Journal Science.

We ask that the authors check for a clear connection to science education and technology (e.g., pre or in-service teacher education or college-level faculty). Additionally, we encourage authors to embed interactive technology in the manuscript (e.g., links, video, audio, animation).

This journal is sponsored by ASTE, and we would like to feature ASTE members' work. Link: https://citejournal.org/category/science/
Follow the "Submissions" tab at the top right of the page.

Contact the Co-Editors with any questions:
Andrea Burrows - Andrea.Burrows@uwyo.edu
Helen Meyer - Helen.Meyer@uc.edu
We are pleased to announce that Volume 5, Issue 1 of the Innovations in Science Teacher Education journal is now available at: https://innovations.theaste.org/publication/volume-5/issues-2-20/

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

Please join our Facebook Group at: https://www.facebook.com/ISTEjournal/ so that you can receive announcements regarding the Innovations journal.

For author guidelines for submitting a manuscript to the Innovations journal, please visit the following webpage: https://innovations.theaste.org/submit/instructions-to-authors/

If you have any questions regarding the Innovations journal, please contact the editors: Rommel Miranda (Rmiranda@towson.edu) or Ron Hermann (Rhermann@towson.edu).
Applications Now Being Sought for

JOURNAL EDITOR(S)

Innovations in Science Teacher Education

The publications committee of the Association for Science Teacher Education (ASTE) is seeking applications for Editor or Co-Editors of our journal Innovations in Science Teacher Education. The duration of appointment is for five years, beginning in January, 2021, plus a half-year overlap (through June 2026) with the next incoming editor(s) coming on board in January 2026.

Innovations in Science Teacher Education is a peer-reviewed, online journal published quarterly focusing on all issues related to science teacher education including pre-service, induction, and in-service. The journal publishes manuscripts discussing innovative, inspirational and concrete ideas for enhancing teaching for all those associated with preparing and supporting the professional development of K-12 science teachers. Articles are written by science teacher educators for science teacher educators, in the broadest sense of the word. The journal audience includes those with responsibilities for teaching science content to in/preservice teachers, teaching science methods and related courses to in/preservice teachers, coordinating and supervising science field practica for in/preservice teachers, professional development and instructing in/preservice teachers in all issues connected with science teaching more broadly.

The Editor(s) must be a member in good standing of ASTE. This individual should have expertise in science teacher education, as well as experience reviewing manuscripts for professional refereed educational journals. In addition, the editor(s) will be expected to attend annual meetings of ASTE and serve as an ex-officio member on the ASTE Publications Committee. Annual compensation for the editor(s) is $10,000.

Responsibilities (on next page)
The Editor(s) will:

- Maintain high academic standards for published manuscripts
- Publish four issues of the journal each year on January 1, April 1, July 1, and October 1.
- Originate the call for and the selection of manuscript reviewers
- Prepare and monitor reviewers for high quality reviews
- Solicit manuscripts for the journal
- Screen submissions for relevance to journal and then assign manuscripts fitting the journal mission to two reviewers
- Consider reviews, decide disposition of manuscripts, and communicate decisions with authors
- Maintain communication between the journal and ASTE
- Maintain correspondence with ASTE reviewers
- Compile statistics and maintain files as appropriate for the journal
- Ensure that reviewers are thanked publicly on an annual basis
- Coordinate, conduct and/or participate in a "Publishing in Science Education" session at the annual ASTE meeting.

Full applications for the position are due by **August 1, 2020** and must include a cover letter of application, vita(s), and a statement detailing institutional support, if applicable. The cover letter should include a description of the applicant(s) commitment with a specific focus on ASTE (and non-ASTE) experiences as an author, reviewer and editor (conference proposals, journals, ASTE newsletter etc.). Applicant(s) should also address their vision for the journal and operating procedures such as securing and training reviewers, and a timeline for meeting the deadline for the inaugural issue.

Send application materials and questions to the Co-Chairs of the ASTE Publications Committee: Renee Schwartz (rschwartz@gsu.edu) and Meg Blanchard (Meg_Blanchard@ncsu.edu)
Hello all! We are excited to publish our second newsletter and we hope you find it informational and entertaining!

Please feel free to contact us at any time if you have items that you feel are good for the newsletter or if you have any suggestions on how we may improve it. We look forward to serving the members and organization of ASTE. Here’s to the coming years, may they be newsworthy!

Issue items due by:

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

All members are invited to submit items.

Editors: Jennifer Oramous and Amity Gann
Email: newsletter@theaste.org

Newsletter Co-editors, Amity (left) and Jennifer (right)

Looks like we are in the same room - but we are a timezone apart!

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

Clue: You may have to get a little wet this time.

Community Engagement Challenge: Take a picture of something science-related that does not give away what it is. Then post it on social media with this caption:

What in science is THIS? #ASTENewsletter