

Fall 2023 Newsletter

Contents

1. Election of Lucie Guertault for BAE Division Secretary
2. BAE Division Officers
3. BAE Call for papers (**Deadline: November 1, 2023**)
4. BAE division website
5. Review of BAE Division Activities from the 2021 ASEE Meeting
6. List of Upcoming Section and Zone Meetings

**1. Election of Lucie Guertault for BAE Division Secretary**

The BAE Division is pleased to announce the election of Lucie Guertault for the position of Division Secretary. Lucie is an assistant professor in the department of Biological and Agricultural Engineering at North Carolina State University. She teaches five undergraduate courses in the Biological Engineering and the Biological and Agricultural Engineering Technology programs. Her research focuses on the mechanistic understanding and modeling of flow and transport processes in rivers and floodplains. She is investigating undergraduate students' problem solving and programming skills through her introductory programming course. She is also coordinating the department undergraduate scholarship program.

**2. BAE Division Officers**

Tim's election at the 2022 ASEE Conference fills our Division officer roster as follows:

<b>Chair</b>	Dr. Qualla Jo Ketchum Assistant Professor, University of California Humboldt <a href="mailto:qualla.ketchum@humboldt.edu">qualla.ketchum@humboldt.edu</a>
<b>Awards Chair and Past Chair:</b>	Dr. Youngmi Kim Associate Professor, University of Wisconsin-River Falls <a href="mailto:youngmi.kim@uwrf.edu">youngmi.kim@uwrf.edu</a>
<b>Program Chair:</b>	Dr. Tim Foutz Professor, The University of Georgia <a href="mailto:tfoutz@uga.edu">tfoutz@uga.edu</a>
<b>Secretary:</b>	Dr. Lucie Guertault Assistant Professor, North Carolina State University <a href="mailto:lsguerta@ncsu.edu">lsguerta@ncsu.edu</a>
<b>Division webmaster</b>	Deepak Keshwani Associate Professor, University of Nebraska-Lincoln <a href="mailto:dkeshwani2@unl.edu">dkeshwani2@unl.edu</a>

If you would like to get involved with the division, participate on our committees, or lead us in a new adventure, please contact any of your officers or join us at our 2024 ASEE Conference business meeting in Portland, OR.

### 3. 2023 BAE Division Call for Papers

The deadline for ASEE abstracts is November 1st 2023

The Biological and Agricultural Engineering (BAE) Division of ASEE seeks abstracts for papers to be presented at the [2024 ASEE Annual Conference in Portland, Oregon, from June 23 to 26 2024](#). Abstract submission **will be accepted until November 1, 2023**. Important deadlines are posted [here](#). See attached Call for Papers for additional information. Have your work published in a peer-reviewed format and support our division's current and future work within the society.

Topics of interest include, but are not limited to:

- Innovative strategies and/or technology to enhance teaching and learning
- Integration of diversity and global issues in the classroom
- Design experiences in the curriculum
- Student recruitment, retention, placement, and first-year experiences
- Service-learning and experiential learning
- Extension engineering education
- Best practices for ABET
- Educational issues relevant to the Food, Energy, and Water Nexus
- New trends in Biological and Agricultural Engineering Education
- Diversity, equity, and inclusion practices in the classroom
- Pedagogical strategies for remote and hybrid teaching and learning

The division accepts abstracts for the following types of papers:

**1) Completed Papers** highlight investigations into research for improving learning in traditional and non-traditional classroom settings. Content should include a research question or problem statement, a review of relevant literature, methodology, results, and implications. The criterion for a Complete Paper is that it represents work for which available results can be analyzed to yield supported and significant conclusions at the time of draft paper submission.

**2) Work in Progress (WIP) Paper:** A WIP reports on work that is still in the process of study and/or implementation for which results will not be available by the time of draft paper submission, for studies where the results are as yet inconclusive, and for studies at an early to the intermediate stage for which authors are seeking feedback from the community. The authors retain the copyright for this paper type.

**3) Practice Papers** highlight teaching approaches, technologies in an instructional context, proposed learning strategies, and assessment practices. Content should include the motivation for conducting the work, background information, approach for determining success, anticipated outcomes, and the future direction of this type of effort.

**4) Special Topic or Panel Sessions:** The division also encourages proposals for a panel session or other special format technical sessions. The proposed topic may fall under one of the topic areas listed above or maybe something different of interest to the division. One potential special format is a 5-Minute Work-in-Progress Postcard Session in which the authors of WIP papers pitch their work with a two-slide (back and front of a postcard) overview in five minutes or less.

Other possible format ideas can be found at <https://tinyurl.com/ASEE-Conference-Playbook> If you have other ideas for a panel or special format technical session, please contact the program chair.

Abstracts must be submitted electronically through the ASEE paper submission system. **The division highly encourages submissions from members and non-members who have not presented at previous ASEE conferences, particularly for the WIP track and practice paper tracks.**

**The division also encourages proposals for panel or other special format technical sessions.**

The proposed topic may fall under one of the topic areas listed above or maybe something different of interest to the division. You will be able to find submission deadlines, required formats, and other information via the main ASEE website: [www.asee.org](http://www.asee.org).

You do not need to be a member of the BAE division to submit the paper. However, we highly encourage you to join the division as a member. The BAE division membership fee is only \$5/yr added to the ASEE annual membership. Please encourage your colleagues to join the BAE division.

The division is also looking for reviewers to review abstracts and conference papers submitted to the division.

For questions and comments, please contact: Tim Foutz, Program Chair, Biological and Agricultural Engineering Division [tfoutz@uga.edu](mailto:tfoutz@uga.edu)

#### 4. BAE Division Website

The BAE division website has been updated. Be on the lookout for **Award Nomination** announcements as they will be on the website as soon as available. The link for the official BAE website is: <https://sites.asee.org/bae/>

#### 5. Review of BAE Division Activities from the 2023 ASEE Meeting

- At the 2023 ASEE Conference, the BAE Division hosted two engaging technical sessions (8 papers)
  - Weekly Self-rating of Proficiency with Course Learning Objectives: Gaining Insight into Undergraduate Students' Perceptions of their Learning
  - Self-learning Sandbox to Emulate Biological Systems
  - Why Not Studios? – What Engineering Can Learn from Architecture and Art Programs
  - Creating Agricultural Technology Lessons for High School Students to Stimulate Interest in Long-Term Career Possibilities and Collegiate ABE and ASM Matriculation
  - Community Building through Technology in a Biological Systems Engineering Course
  - Carbon Emissions Reduction From Our Daily Lives: Introduction of Bioreactors into Large Structures
  - Peanut Trials on Raised Beds with Indoor and Outdoor FarmBot Setups
- the division membership is 95. This number is below the threshold but no plans to close the division is anticipated.
- The treasurer report indicates the division's balance is approximately \$7500 but is unavailable because funds are frozen for all divisions.
- Dr. Verma is stepping out of his treasurer role. The division thanks him for his devotion and numerous years serving as the BAE treasurer. Dr. Diefes-Dux was nominated and approved as the BAE treasurer beginning in fall 2023.
  - Awards
    - 2023 Early Achievement in Education Award was not awarded

- o 2023 Excellence in Teaching Materials & Methods Award: *Engineering a Fish Passage Structure* by Drs. Lucie Guertault, Celso Castro-Bolinaga, & Garey Fox (North Carolina State University)

**6. List of Upcoming Section and Zone Meetings**

Want to stay connected between annual meetings? For a listing of upcoming Section and Zone Meetings, check here:

<https://www.asee.org/membership-and-communities/community/Sections-and-Zones#Meetings>