ASEE 2024 Educational Research and Methods (ERM) Division
Call for Papers, Workshops, Panels, and Special Sessions

The Educational Research and Methods (ERM) Division for ASEE is now accepting abstracts that will lead to papers for the ASEE Annual Conference & Exhibition in June 2024. This year, ASEE is using New Monolith (NEMO) as its paper management system. There are several stages of the process that require peer review. If you submit to this division, it is expected that you will also review for the division (commensurate with the number of submissions) to support the number of reviewers required for each paper. ERM upholds standards for professionalism and quality in engineering education research that is supported by a high-quality and thoughtful peer review process. These standards of excellence also extend to the presentation of papers at the conference: Consider how your work can be presented in a way that both celebrates high-quality scholarship and engages the audience.

ERM Division accepts Paper, Special Session, Panel, and Workshop proposals on topics related to the primary objectives of the ERM division, which may include:
- Promotion, use, and development of high-quality educational research methodologies on engineering formation, learning, and instruction
- Spread of knowledge on the scholarship of engineering teaching and learning
- Research related to improving engineering instruction through the development of innovative materials and techniques, sound instructional design, novel programmatic structures, and improved evaluation methodologies
- Research on diversity, equity, inclusion, and justice in engineering education

ERM has four paper types - Research, Theory/Method, Evidence-Based Practice, and Work in Progress (WIP). At each stage of the process, please include the type of paper you're submitting (to help reviewers) and 3-5 keywords following the abstract to aid in the review process.

For questions about submitting to this call, please contact the program chairs, Bruce Carroll and Alejandra Magana. Bruce Carroll will serve as the primary point of contact at email address: bfc@ufl.edu.

Key Deadlines (all at Midnight Eastern Time on the Days Listed):
- **November 1, 2023:** Abstract Submission Deadline
- **December 1, 2023:** Workshop, Panel, and Special Session Proposal Deadline
- **February 1, 2024:** Draft paper upload deadline
- **March 8, 2024:** Draft revision upload deadline
- **May 1, 2024:** Final paper upload deadline (also: Author registration deadline, remove anonymizations, confirm co-authors, update author bios, indicate presenting (corresponding) author.)
- ASEE has announced that it does not anticipate making extensions to these deadlines.

Abstract Guidelines

ERM has four different types of papers: Research, Theory or Methods, Evidence-Based Practice, and Work in Progress (WIP). **YOU MUST INCLUDE THE TYPE OF PAPER YOU ARE PROPOSING IN THE FIRST SENTENCE OF YOUR ABSTRACT,** as well as *3-5 keywords following the abstract to aid in the review process. You can consider employing the EER Taxonomy ([LINK](#)).* This procedure helps us select reviewers and helps the reviewers provide the best possible review in alignment with your goals for the paper.

Abstracts should follow the ASEE Abstract Format guidelines provided by ASEE.

The abstract should contain sufficient information to enable reviewers to determine its suitability for presentation in the ERM Division, including sufficient information about the motivation for the study, the theoretical framework and methods employed, findings, and implications for the work. The ERM Division uses a blind review process when reviewing abstracts and papers, and it **is the authors' responsibility** to ensure that the requirements for anonymized review are met. Authors' names and institutions should **not** be included in the text, file name, or document properties of an abstract or paper submitted for review. Please ensure that any contextual features about the context in which research was performed (e.g., if the research was conducted on a program at a particular university) are completely anonymized, perhaps using pseudonyms for the program and the university (e.g., "A large mid-Atlantic public university"). The type of paper should be included in the first sentence of your abstract as well as 3- 5 keywords following the abstract to aid in the review process. If your paper can fit multiple types, please choose the one that is best aligned. All short WIPs should be classified as such, regardless of their topic or orientation.

Abstracts will be evaluated based on the identified type of paper.
- Research papers *contribute new knowledge to the field of engineering education research.* The abstract will highlight the emergence of new findings situated in the context of prior findings, including motivation and background of the work, methods, results, and implications of the work and/or future directions for research.

- Theory papers or method papers *contribute a new understanding or application of theory /method within the field of engineering education research*: These papers include reviews, meta-analyses, or other theory/method-focused work situated in the context of previous literature to reveal relationships, patterns or models, procedures, or extend existing theories/methods. The paper abstracts should address the motivation and background of the work, theoretical/methodological framework(s) and sources, and significance.

- Evidence-based practice papers *contribute new practices to the field of engineering education with scholarly evidence*: These papers present an analysis of one or more engineering education practices (e.g., teaching approaches, uses of instructional

technologies, institutional strategies to support student success, etc.) and include rationale, assessment methods, evidence of effectiveness and/or achievement of desired outcomes.

— Work in Progress (WIP) papers *raise awareness of future research and directions for the field of engineering education research.* These brief papers present preliminary findings from studies that are at an early to intermediate stage for which authors are seeking feedback from the community. WIP abstracts should address the motivation and background of the work, methods, results (or anticipated results), and significance.

The deadline for submitting abstracts is **November 1, 2023** (Midnight, Eastern Time). If your abstract is rejected and you would like to contest the rejection, ERM has a formal appeal process.

ASEE Paper Guidelines

The first sentence of the paper should indicate the type of paper submitted: Research, Theory, Evidence-Based Practice, or Work-In-Progress. **This procedure helps us select reviewers and helps the reviewers provide the best possible review in alignment with your goals for the paper.**

Full Paper Guidelines (Research, Theory or Method, and Evidence-Based Practice Papers):

Maximum of 12 pages. There are three categories of <u>full</u> papers: Research, Theory or Methods, and Evidence-Based Practice. While ERM does not set strict page limits for papers, we encourage authors to aim for 10-12 pages of text (not including references) to encourage a larger readership of the work. Please follow the ASEE formatting guidelines provided by ASEE. Following best practices for publishable and quality educational scholarship, most papers will include a review of relevant literature to motivate the research questions or objective, theory, methods, findings or results, discussion and implications, and conclusions. Do consider addressing the positionalities of the author team to contextualize research decisions and choices. No author names or affiliation information are to be included on draft papers, and manuscripts should be fully blinded for review.

Work-In-Progress Guidelines:

Maximum of 5 pages. Manuscripts are understood to be at an early to intermediate stage of research papers and, thus, shorter in length than a full paper. The purpose of the WIP papers is to allow researchers to get feedback on early-stage research projects that may not have substantive results yet. Authors are encouraged to keep WIP papers to 5 pages in length (not including references) and provide sufficient information for the reader to understand the potential significance of the work and the approach being

used. Authors are strongly encouraged to provide preliminary results or initial findings. WIP papers will be evaluated on the following: motivation and background of the work, methods, results (or anticipated results), significance, and potential interest to the ERM community. No author or affiliation information is to be included on draft papers, and manuscripts should be fully blinded for review.

ERM Authorship Guidelines:
ASEE currently has a copyright and plagiarism policy for all authors. However, there is no standard ASEE guidelines for authorship or requirement for author contribution statements. To assist authors, the ERM Directors developed the following set of recommended authorship guidelines. The recommended guidelines are being piloted this year, and compliance with these guidelines is not mandatory. Authors should satisfy four criteria:

- Substantial contributions to the conception or design of the work or the acquisition, analysis, or interpretation of data for the work; AND
- Drafting the work or reviewing it critically for important intellectual content; AND
- Final approval of the version to be published; AND
- Agreement to be accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved.

Contributors who do not satisfy all four criteria can be acknowledged in the publication but not listed as authors. Examples of contributing activities that should be acknowledged include: Conceptualization; Methodology; Software; Validation; Formal Analysis; Investigation; Resources; Data Curation; Visualization; Supervision; Project Administration; Funding Acquisition. Those acknowledged should be aware and have granted permission.

At submission, authors should disclose any use of artificial intelligence (AI)-assisted technologies (such as Large Language Models [LLMs], chatbots, or image creators) in the production of the submitted work and how they used it. AI-assisted technologies should not be listed as authors because they cannot be responsible for the accuracy, integrity, and originality of the work.

Draft submissions made to the ERM division should have a complete authors' list. ERM does not monitor changes (addition or removal) of authors between the draft and final submissions. The authors share collective responsibility, determining that all authors meet all four criteria at all stages of their submission. It is not the role of ERM to determine who qualifies or not for authorship or to intervene in authorship conflicts.

Evaluation Criteria for Draft Papers:

- The manuscript is complete, polished, and professional to read, adhering to all standards of scholarly writing (based on the type of paper), including editing, reference formatting, and inclusion of all results. The authors should not expect to make substantial additions or changes to the manuscript outside of those responding to reviewer comments.
- The research, theory, methods development, or evidence-based practice is likely to interest a broad group of engineering education researchers and/or practitioners.
- The work builds upon relevant references, including bodies of knowledge from diverse authors.
- Papers are grounded in the appropriate use of theory and quality methods (and selection of methodology), as per standards of engineering education research.
- The findings or ideas presented are generalizable or transferable to other settings.
- The manuscript is clear and coherent.
- The study is original and innovative.
- The study advances engineering education research and/or practice.
- The authors use non-biased language (see APA Manual 7th edition)

We expect authors to commit to anti-racism in their engineering education research and scholarship and to avoid deficit narratives, associations of race or gender as a predictor for discrepancies in achievement or discuss discrepancies based on race, culture, gender, or sexuality as an expected finding without clear discussion regarding the underlying issues that would cause such discrepancies. In addition, we ask authors to report participant demographics and the associated limitations and implications based on the participants' studied.

The deadline for submitting draft papers is February 1, 2024 (Midnight, Eastern Time). Submissions are reviewed anonymously. No author or affiliation information is to be included on draft papers. If your paper is rejected and you would like to contest the rejection, ERM has a formal appeal process.

Revision Procedures:

After undergoing peer review, papers are either accepted, require revisions, or are rejected based on the consensus of the reviewer comments and synthesized by the program chairs. Authors whose manuscripts are accepted are strongly encouraged to consider reviewer feedback and comments to further strengthen their papers before uploading the final camera-ready document into the NEMO system by the deadline.

Papers that have revisions requested must appropriately and fully revise their documents in response to reviewer comments, with the understanding that there is no guarantee that the paper will be accepted in the second round of review. Revised drafts will be resubmitted to the NEMO system and will undergo a second review before final decisions are released. Authors are welcome to submit responses to the reviewers within their revised drafts that are not included in the final paper or the page count to aid in the re-review process. These submissions are also reviewed anonymously. No author or affiliation information is to be included on draft revision

papers, and all papers must be fully blinded for review. **The draft revision deadline is March 8, 2024** (Midnight, Eastern Time).

If your revised paper is rejected and you would like to contest the rejection, ERM has a formal appeal process.

Final Paper Upload:

After acceptance, it is the author's responsibility to upload final camera-ready versions of their papers by **May 1, 2024** (Midnight, Eastern Time). At this time, all anonymous indicators must be removed, all co-authors should be confirmed, and authors should be registered for the conference (indicating who the presenting author will be). No changes to papers can be made after this submission. At this time, authors should also ensure that their biographical information is up to date in the NEMO system so that papers accurately pull names, titles, institutional information, and biographies.

Closing Comments from the 2024 ERM Program Chairs

We are looking forward to seeing you all at ASEE 2024 in Portland. As you prepare your papers and presentations, consider best practices in verbal communication, presentation, and if you wish, you may consider embedding novel or interactive components into your talks. While some may feel comfortable with non-traditional presentations, we also recognize that conferences are a place for graduate students and others to learn to give formal technical presentations, so we encourage folks to consider their message and audience as they design their presentations.

If you have questions, please contact the ERM 2023 program chairs using email bfc@ufl.edu.

Looking forward to a productive year and coming together around great scholarship!

Your 2024 Program Chairs,
Bruce Carroll & Alejandra Magana

Call for Proposals: Special Sessions, Panels, and Workshops

ERM is soliciting proposals for Workshops (2-4 hours usually on the first day of the conference during conference workshop time slot), Special Sessions, and Panels (both held during a 90-minute technical session time slot). **Applications will open November 1, 2023 and are due by December 1, 2023.**

Special Session and Panel Proposals
Maximum 5 pages (not including references). Proposals for Special Sessions or Panels submitted through the ERM should be sent directly to the ERM Program Chairs (send to bfc@ufl.edu) and **NOT** through the New Monolith (NEMO) system. **The deadline for submitting special session proposals is December 1, 2023.** Proposals should include the following information:
- A description of the session/panel, including its purpose, format, learning goals, content, and activities.
- A schedule of workshop activities.
- An explanation of why the non-traditional/panel format is needed to accomplish the learning goals.
- A list of presenters/facilitators/panelist and their contact information, along with a brief justification for their ability to successfully accomplish the stated goals.

Proposals will be reviewed and selected by ERM leadership team to be forwarded for further consideration by ASEE, which makes the final decision. Acceptance of a Special Session or Panel proposal by ERM does not guarantee that it will appear in the final program.

Workshop Proposals
Maximum 7 pages (not including references). Proposals for Workshops submitted through the ERM should be sent directly to the ERM Program Chairs (send to bfc@ufl.edu) and **NOT** through the NEMO system. **The deadline for submitting workshop proposals is December 1, 2023.** Proposals should include the following information:
- A description of the session, including its purpose, format, learning goals, content, and activities.
- A schedule of workshop activities.
- An explanation of why the non-traditional/panel format is needed to accomplish the learning goals.
- A list of presenters/facilitators and their contact information, along with a brief justification for their ability to successfully accomplish the stated goals.

All workshops have an associated $150 fee. If the workshop is approved by the ERM leadership team, it is then submitted to ASEE by the Program Chair. The submission to ASEE will include additional information such as estimated attendance, estimated ticket cost and responsible party to subsidize the expense if tickets don't cover the entire cost of the event (ASEE charges for the room, audio-visual, etc.), expected food and beverage requests, and audio-visual needs.