

ASEE Annual Conference 2020 CALL FOR PAPERS

The Environmental Engineering Division (EED) of ASEE invites papers for the 2020 Annual Meeting to be held in Montréal, Québec, Canada June 21-24. The EED requires that oral and poster presenters publish their papers in the ASEE conference proceedings. Paper submission is a two-step process: (1) Abstract submission, review, and acceptance; and (2) Paper submission, review, and acceptance. The submission and review process is double blind; do not include names of authors or institutions within the title or body of the abstract or paper. Papers and presentations must contain assessment methods and results. Works in progress or papers without assessment may be considered for poster presentations. Abstracts are limited to 500 words and should provide a clear statement of the objectives of the work, its relevance to the environmental engineering community, assessment methods used, and major findings.

The EED invites papers on topics for joint sessions with the Civil Engineering Division:

- Promotion of educational activities that advance the teaching of the National Academy of Engineering Grand Challenges (<http://www.engineeringchallenges.org/challenges.aspx>);
- Integration of authentic experiences that promote learning and excitement in classes other than the capstone;
- Demonstrations of interactive teaching activities in five minutes or less^;
- Success of extracurricular student projects/contests in environmental engineering, e.g. P3, EWB, IEDC, etc. – this session will be co-sponsored with the Civil Engineering Division;
- Challenges and insights gained in the transition from from ABET a-k to ABET 1-7 (<https://www.abet.org/accreditation/accreditation-criteria/accreditation-changes/>);

The EED invites papers on topics for a special joint panel session with the Faculty Development Division:

- Innovative development for tenured/tenure-track faculty and professional faculty (adjunct, non-tenure track such as teaching and research faculty)

NOTE: This panel session will require a short (~5-10 pg) paper of your practice or opinion (based on research) of the panel topic that will be a part of the proceedings. At this session, all authors will serve on the panel during the presentation time in lieu of traditional presentations. You need to include the panel title in the first sentence of your abstract, and provide a common panel summary paragraph in the introduction of your paper to help readers and reviewers understand how your paper fits in the panel topic. All papers that are part of this panel should have this same panel summary paragraph in the introduction of their papers. Please email the program chair at marincel@rose-hulman.edu describing your interest in this topic at least a week prior to the abstract deadline of Oct. 16.

The EED invites papers on the following topics:

- Use of the American Academy of Environmental Engineers and Scientists (AAEES) Body of Knowledge at the classroom and/or curriculum level (<http://www.aees.org/publications/eebodyofknowledge.php>);
- Integration of sustainability in courses, across curricula, across disciplines, and in communities; this includes incorporating findings from the Association of Environmental Engineering and Science Professors (AEESP) workshops and National Academy report “Environmental Engineering in the 21st century” (<https://www.nap.edu/read/25121/chapter/1#xi>)
- Use of effective pedagogical methods (e.g. active learning, hybrid courses, flipped classrooms, service-learning, etc.)*;
- Innovative uses of current and emerging technologies (e.g. online case studies, web-based course modules, social media) in teaching environmental engineering courses;
- Development of new or cross-disciplinary courses in environmental engineering (e.g. environmental biology, environmental security, environmental and public health);
- Ability to engage students in environmental lifelong learning;
- Recruitment and retention of diverse students in environmental engineering;
- Benefits of undergraduate environmental engineering research, citizen science projects, or capstone experiences;

The EED invites panel and/or workshop proposals on any of the topics described in the call for papers above, or other topics aligned with the paper call.

^Session may be organized to highlight multiple in-class demonstrations by limiting presentation time.

*Sessions may be organized to allow for substantial discussions by limiting presentation time and facilitating round-table or full-room discussion.

The following criteria will be used by reviewers to evaluate papers, and to determine the EED paper awards (Best Paper, Early Career, Best Student Paper):

- Significance and or importance to environmental engineering education (5 points; 1 = Poor; 3 = Good; 5 = Excellent)
- Potential impact, applicability and reproducibility of the proposed educational tools and or methods (5 points)
- Research quality, organization and structure of content, and scholarly presentation (5 points)
- Quality of assessments of student learning, data processing and statistical methods (5 points)

The **EED Early Career Awardee** is determined by the EED Awards Committee formed by division officers and/or division directors and/or invited external judges as needed.

- Eligibility Criteria: The applicant will be within the first four years of academic experience as a non-tenure and/or tenure-track position, and un-tenured as of August 31, 2020. All years of academic experience count towards the time

constraint. The applicant must teach at a four-year University that offers at least one environmental engineering course. Collaboration with senior or tenured faculty members is encouraged as long as the eligible faculty member(s) hold(s) the intellectual merit for the educational research or activity. In addition, the eligible faculty member(s) should be the lead author(s) and submit the manuscript to the division. Single authored papers are also accepted.

- Application Process: To apply, the last line of the abstract must read: “I am an untenured faculty member within the first four years of total academic experience, lead author of the paper, and eligible for the Environmental Engineering Division Early Faculty Paper Award”. In addition, potential candidates should contact the program chair, Dr. Michelle Marincel Payne, marincel@rose-hulman.edu, to confirm their tenure-track position status at their institution.

Questions may be addressed to the Environmental Engineering Division 2019-2020 Division Chair, Dr, Veera Ganeswar Gude gude@cee.msstate.edu or the 2019-2020 Program Chair, Dr. Michelle Marincel Payne marincel@rose-hulman.edu.