


From: Andrea Burrows andrea.burrows@uwyo.edu 
Subject: [k12_div] ASEE PCEE Chair Updates - December 2021
Date: December 21, 2021 at 12:53 PM
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Dear ASEE PCEE Members,

Happy holidays to each of you!
 Here are a few exciting notes for December from the ASEE PCEE group.

1. Did you know? Our [meetings and meeting notes](#) are open to our PCEE members.

Please fill out this google survey if you want access to either:

<https://forms.gle/VYJRVm6gEPitdF6s9>

Next PCEE meetings:

February - Wednesday, 16th - @ 1 pm MT/ 3 pm ET

March - Monday, 14th - @ 2 pm MT/ 4 pm ET

2. **Awards** information by Vemitra White:

The nominations period for awards to be presented at the 2022 ASEE Annual Conference & Exposition (June 26-29) in Minneapolis, Minnesota is [open now through February 15, 2022](#). Please consider nominating a fellow ERM member who you think deserves recognition, or consider nominating yourself! It is important to nominate (or self-nominate) for ASEE Organization and PCEE Division awards.

**See specifics attached to the end of this email.

The ASEE awards nomination form can be accessed by

- o Going to <https://asee.org/awards>
 - o Selecting the award
 - o Clicking on the "Nomination" tab
 - o Clicking on the link to the form
 - o You will be sent to the awards platform Slayte
 - o You will need to log in (or create a new login)

3. **Newsletter** - Article - Year of Racial Equity by Jamie Kennedy:

ASEE PCEE division is working on our first newsletter and is looking for authors! Our debut edition is on the lead theme of our 2022 conference: Year of Impact on Racial Equity. *If you or someone you know would like to write a piece for this winter edition please let us know (you can email jlk1121@gmail.com).*

It could be on anything you want within the theme of racial equity in engineering education. If not a full article, it would be great to highlight some work being done in the Share Out section. Please reach out if this is something you might be interested in, and I am more than happy to have a conversation if you have any questions or concerns.

4. **Commission on Diversity, Equity, and Inclusion update** by Christina Crawford:

The ASEE CDEI virtual workshop team is excited about our upcoming workshops! Please see the list below to learn more and register!

Upcoming Workshop:

[January 21, 2022, at 2:00 PM \(ET\)—NAVIGATE: A Case Study Approach to Overcoming Barriers to Advancement for Women in STEM](#) [\[Learn More\]](#)

If you are interested in [hosting a workshop](#), please complete the [form](#) by April 13, 2022, for Summer Submissions.

5. NSF [announcement](#) by Joan Walker:

The **Division of Research on Learning (DRL)** in the Directorate for Education and Human Resources (EHR) at the National Science Foundation announces **five nationwide searches for Program Directors** to join our multidisciplinary staff. This is a broad call for both permanent and temporary positions across several fields related to research on learning and education.

Program Officers manage grants programs that support cutting-edge research, both basic and applied, related to STEM learning and education. Program Officers also have the opportunity to create new funding programs that target current and future needs not addressed by existing programs and that foster new research communities that lie in the gray areas between traditional disciplinary boundaries.

___This is a great opportunity to work in the federal context and to learn about research across an astonishing array of literatures as well as a chance to bring your own vision and insights to bear on issues of pressing national concern.

Current Program Officer Position Openings :

DRL-2022-0001 (**Science Education**)
<https://www.usajobs.gov/GetJob/ViewDetails/623382900>

DRL-2022-0002 (**Mathematics Education and Cognitive Science**)
<https://www.usajobs.gov/GetJob/ViewDetails/622838900>

DRL-2022-0003 (**Engineering and Computer Science**)

<https://www.usajobs.gov/GetJob/ViewDetails/624689300>

DRL-2022-0004 (**Informal Science Education**)

<https://www.usajobs.gov/GetJob/ViewDetails/624690000>

DRL-2022-0006 (**Media/Informal Science Education**)

<https://www.usajobs.gov/GetJob/ViewDetails/624690500>

[Note that the job title of "Science Education Administrator" in the postings above is a term that NSF uses for program officers working in EHR. These are not science education postings in the restrictive disciplinary sense. And the terms Program Officer and Program Director are interchangeable.]

6. Job Opportunity by P.J. Boardman:

I wanted to let you know that I have just received support to add another member to our team to support educators for Primary and Secondary schools. Here is the job description on LinkedIn if you could share it with talented people you may know or recommend: <https://www.linkedin.com/feed/update/urn:li:activity:6876170289105911808/>

I am hoping we can bring other talented people to the team to partner on our project together! Wishing you all a happy, healthy and peaceful holiday season!

7. Research Opportunity by Meg West:

Do you know any exceptional elementary teachers that teach engineering?

I am looking for recommendations of those who may be interested in participating in my dissertation research on positive deviant elementary engineering teachers.

My name is Meg West, and I am a Ph.D. candidate in the Department of Engineering Education at The Ohio State University. The following is a link to a video explaining my background and the parameters for participation in my study.

<https://youtu.be/E9jXAINmZ2M>

If you know elementary teachers that go above and beyond to teach engineering, please recommend them for my study by completing the following survey.

<https://go.osu.edu/superstarengineeringteacher>

If you have any questions, please contact me at west.753@osu.edu or my advisor, Dr. Rachel Kajfez, at kajfez.2@osu.edu. Thank you for your time!

Let me know if you have any questions, and also how PCEE can better support you or your work. Lastly, take care, check those PCEE submissions, and don't forget to get some rest along the way!
Andrea and the PCEE leadership team

**** Awards info for 2022:**

One of the Division's strategic goals is to have a greater number of members who are nominated and potentially win ASEE awards. ASEE recognizes the outstanding accomplishments of engineering educators with several **national-level awards** each year. The nominations period for awards to be presented at the 2022 ASEE Annual Conference & Exposition (June 26-29) in Minneapolis, Minnesota is **now open through February 15, 2022**. Please consider nominating a fellow ERM member who you think deserves recognition, or consider nominating yourself!

The ASEE awards nomination form can be accessed by

- o Going to <https://asee.org/awards>
 - o Selecting the award
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Brief synopses of the awards including eligibility are available at the ASEE awards website. A non-exhaustive summary of some awards is provided below. A big thank you to former ERM Directors, Dr. Sam Brunhaver and Dr. James Huff, for compiling this list.

Most awards require a nomination form, which includes a citation statement (100 words or fewer) giving the major accomplishments for which the award is being made; a rationale (700 words or fewer) on why the candidate is being nominated for the award; a CV; up to three PDFs of accomplishments addressing the award criteria as an educator, researcher, and/or administrator; and up to eight brief letters of support from peers or former students.

ERM can assist with coordinating nominations, e.g., putting people who would like to nominate the same individuals in touch, helping recruit potential letter writers, or sharing lists of previous ERM award winners. Please feel free to reach out if you plan to nominate a fellow ERM member or if you plan to self-nominate – we would love to help out with the process!

Lastly, we also encourage you to check out the awards being offered by specific divisions with ASEE. The ERM Division itself makes several awards each year, including the ASEE ERM Apprentice Faculty Grant. More information is available on the ERM website: <https://erm.asee.org/awards/>.

SECTION (AND NATIONAL) OUTSTANDING TEACHING AWARD

- **Purpose:** To recognize an engineering or engineering technology educator for outstanding classroom performance, contributions to the scholarship of teaching, and ASEE participation.
- **Eligibility:** Teachers of any subject included in an ABET accredited engineering or engineering technology curriculum, including faculty teaching parallel courses at two-year or community colleges and those teaching humanities and social studies, mathematics, science, applied science and computing science.

BENJAMIN GARVER LAMME AWARD

- **Purpose:** To recognize a distinguished engineering educator for contributions to teaching, research and technical literature, and the profession of engineering college administration.
- **Eligibility:** Current and former engineering administrators who have demonstrated improvement of engineering education through: (1) excellence in teaching, (2) research, books, or technical articles, (3) administration of engineering schools, (4) participation in the work of engineering or educational societies, and (5) achievements outside the field of teaching, such as in industry, consulting work, inventions, and government.

ASEE LIFETIME ACHIEVEMENT AWARD IN ENGINEERING EDUCATION

- **Purpose:** To recognize individuals who have retired or near retirement and who have devoted their careers primarily to engineering education.
- **Eligibility:** Individuals who have demonstrated throughout their careers (1) excellence in teaching engineering and / or engineering technology courses, (2) mentorship of students beyond the classroom, (3) contributions to the understanding of teaching and learning through the conduct and publication of educational research, (4) demonstrated leadership through the administration of departments, schools or colleges of engineering or engineering technology, and / or (5) volunteer activity and leadership in education societies.

CHESTER F. CARLSON AWARD

- **Purpose:** To recognize an innovator who has made a significant contribution to engineering or engineering technology education.
- **Eligibility:** Individuals who have demonstrated: (1) creative innovation through a single significant contribution to engineering or engineering technology education, (2) recognition of and responsiveness to an educational need, (3) implementation of a concept carried forward with integrity, (4) external influence extending beyond the home institution, and (5) effectiveness in overcoming barriers and causing change.

ISADORE T. DAVIS AWARD

- **Purpose:** To recognize individuals who have demonstrated excellence in collaboration or partnership between engineering or engineering technology education and industry.
- **Eligibility:** Nominees can be a faculty member, researcher, administrator, industry leader or employer, or organizational team. While the collaborative project being honored may have a large group of individuals associated with it, no more than two individuals will be selected to be honored in one year.

CLEMENT J. FREUND AWARD

- **Purpose:** To recognize an individual in business, industry, government or education who has made a significant impact on cooperative education programs in engineering and engineering technology.
- **Eligibility:** Individuals whose professional duties and accomplishments have furthered cooperative education in ABET accredited engineering or engineering technology programs.

DUPONT MINORITIES IN ENGINEERING AWARD

- **Purpose:** To recognize an engineering or engineering technology educator with outstanding accomplishments in recruiting and retaining underrepresented students within graduate and undergraduate engineering and engineering technology programs.
- **Eligibility:** Individuals who demonstrate leadership in the conception, organization and operation of precollege and college activities designed to increase participation of underrepresented students in engineering or engineering technology.

JOHN L. IMHOFF AWARD

- **Purpose:** To recognize an individual who has made outstanding contributions in the field of industrial engineering.

- **Purpose:** To recognize an individual who has made outstanding contributions in the field of industrial engineering education.
- **Eligibility:** Individuals who (1) are a current industrial engineering faculty member in an accredited institution, (2) have at least five years teaching experience in an engineering school, (3) have demonstrated excellence in teaching, (4) have demonstrated global cooperation and understanding through leadership and other initiatives, (5) are committed to the success of students in the classroom and in professional engineering student organizations, and (6) are a current ASEE member.

SHARON KEILLOR AWARD

- **Purpose:** To recognize a woman engineering educator with an outstanding record in teaching engineering students and reasonable performance histories of research and service.
- **Eligibility:** Women who hold an earned doctoral degree in an engineering discipline or related field and who have at least ten years of teaching experience in an engineering school.

MERIAM/WILEY DISTINGUISHED AUTHOR AWARD

- **Purpose:** To recognize excellence in the authorship of engineering textbooks.
- **Eligibility:** Individuals who have contributed to the advancement of technical and professional competence at the undergraduate or graduate level through the authorship of an engineering textbook still in its first edition and written within four years of the award deadline.

NATIONAL ENGINEERING ECONOMY TEACHING EXCELLENCE AWARD

- **Purpose:** To recognize an individual who has demonstrated classroom teaching excellence and teaching scholarship in engineering economy.
- **Eligibility:** Current or former full-time engineering teachers who have taught engineering economy courses in an ABET or CEAB accredited engineering or technology curriculum frequently for a substantial period of time (at least a decade). Nominees should (1) show evidence of outstanding classroom performance, (2) possess a sense of proportion, stressing fundamentals and basic underlying truths, (3) prepare assignments that challenge students, demanding thinking and learning, (4) demonstrate an intense interest and enthusiasm in engineering economy and enhance the learning process through real-life examples and illustrations to fully motivate students.

ROBERT G. QUINN AWARD

- **Purpose:** To recognize outstanding contributions in providing and promoting excellence in experimentation and laboratory instruction.
- **Eligibility:** ASEE faculty members who have made outstanding, sustained contributions to the teaching of laboratory or experimentation courses in engineering or engineering technology, and who have developed courses, course materials, facilities or equipment that exhibit innovation, relevance to the real world, experiential learning, and student motivation.

WILLIAM ELGIN WICKENDEN AWARD

- **Purpose:** To recognize the author(s) of the best paper published in the Journal of Engineering Education (JEE), the scholarly research journal for ASEE.
 - **Eligibility:** Authors of a refereed article published in JEE during the previous volume year.
 - **What to Submit:** The selection is made by a committee composed of the journal's associate editors and four members of the journal's international advisory board, and chaired by the immediate past editor of the journal. All papers published are automatically considered. However, any ASEE member may nominate a qualified paper for this award. A letter explaining the basis for the nomination should be forwarded to Lisa Benson, lbenson@clemsun.edu, JEE editor.
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Date: December 28, 2021 at 12:49 PM

Happy holidays to all PCEE Division members!
Here are two other pieces of information to add to the [December 2021 update](#):

* **ASEE-wide Commission on PreK to 12 engineering education** by Katey Shirey -

You already know that PCEE is the pre-college engineering education Division of ASEE, which is organized to support, share, and encourage research and publications on engineering education in the pre-college grades (grades Pre-Kindergarten to 12th grade). But did you know there is also an ASEE-wide Commission on PreK to 12 engineering education? The Commission focuses on inter-Division special projects pertaining to P12 engineering education, such as the ASEE resource Engineering Go For It and professional development credentialing. You are invited to support both efforts! Contribute to research and publication on pre-college engineering education by joining and submitting papers or workshops to PCEE, and share your collective expertise from and Division by aligning your efforts with the foci of the P12 Commission. Read more about the Commission [here](#).

This year, the PCEE Division will be providing a day of professional development learning for teachers before the ASEE conference. Additionally, the P12 Commission is involved in supporting ASEE in creating a positive impact in the P12 community where the conference will be held. If you have any suggestions for supporting the PCEE Teacher conference including known partners in the twin cities Minneapolis, St. Paul geographic area, please contact Merredith Portsmore (Merredith.Portsmore@tufts.edu).

If you are interested in aligning positive impacts of ASEE on the local community during the ASEE conference, including any local partners, opportunities, or suggestions for reducing impacts on the community, please email Katey Shirey (katey@edukatey.com).

* **PCEE Division Awards** outlined by Vemitra White -

Know Someone Deserving of a PCEE Division Award?

Do you know someone worthy of being recognized by the PCEE division for their work? Division Awards are meant to highlight excellence service and scholarly contributions within the division. One or more of the following awards will be presented each year at the Division's annual business meeting:

- **Meritorious Service** – This award is given to a PCEE Division member who has provided exemplary service in alignment with the PCEE Division Vision, Mission, and Core Beliefs and in support of pre-college engineering education efforts within ASEE. Such service goes above and beyond baseline expectations for service within elected or appointed positions.

- **Lifetime Achievement** – This award is given to a PCEE Division member who has provided a high standard of service in alignment with the PCEE Division Vision, Mission, and Core Beliefs and in support of pre-college engineering education efforts within ASEE, and who has made significant and sustained contributions (10 years or more) to the field of pre-college engineering education.

To nominate yourself or someone else, please do so by **February 15th**. The form listed below can be used to provide your recommendation for the nominee. Self-nominations are allowed so do not forget to → **Apply here** [PCEE Division Awards Nomination Form](#).