

# Engineering Economy Division

#### Fall 2019 Newsletter

Welcome to the Fall 2019 issue of the newsletter for the Engineering Economy Division (EED) of the American Society for Engineering Education (ASEE).

In this issue, you will find information about the 2020 ASEE Annual Conference, our call for papers and special sessions, a recap of our 2019 Annual Conference activities, and information about how to become involved in our division.

If you have any questions, comments, or items for the Spring 2020 Newsletter, contact our editor, Katie Basinger at katie.basinger@ufl.edu.

#### In This Issue

- 2019 Conference Recap and Announcements.
- Information for the upcoming 2020 ASEE Annual Conference & Exposition to be held in Montreal, Quebec, Canada on June 20-24, 2020.
- Call for Papers for the EED.
   ABSTARCTS extended to Wed 10/16
  - o Call for "Special Session" abstracts for the EED.
- Meeting Minutes from the Engineering Economy Division 2019 Annual Business Meeting.

#### A Message from the Chair

The Engineering Economy Division (EED) welcomes you to join us at the **2020 ASEE Annual Conference in Montreal, Quebec, Canada!** Our membership numbers have grown over the past year, but we also want to ensure our members are *engaged* with the division. To that end, we are offering **special sessions** at the conference to make it easy for you to present and awards and sponsorships to support your conference travel.

\*New *special sessions* ask you to share what you're already doing in your own class—in a 3 to 5 page paper. That's it! Write it up, come share it at a special session, and your paper is published in the proceedings. See the call for papers in this newsletter for details.

\*We offer a Best Paper Award (\$1000), multiple New Engineering Economy Educator Awards (\$1000, for those teaching <5 yrs), and abundant new Travel Sponsorships of \$500. Submit an abstract by October 14 to be eligible.

We want you to participate at ASEE 2020 in Montreal! Please plan to submit an abstract, present at the conference, and invite a colleague to join as well!

Visit us online!
<a href="https://sites.asee.org/eed/">https://sites.asee.org/eed/</a>
Conference Paper Archive
<a href="https://sites.asee.org/eed/paper">https://sites.asee.org/eed/paper</a>

#### Officers

Past Chair Billy Gray Tarleton State University bgray@tarleton.edu

Chair Kellie Grasman Missouri University of Science & Technology kgrasman@mst.edu

Program Chair Jim Burns Western Michigan University j.burns@wmich.edu

Treasurer
Ona Egbue
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Secretary/Newsletter Editor Katie Basinger University of Florida katie.basinger@ufl.edu

### Fall 2019 Newsletter - ASEE Engineering Economy Division

#### **Conference Highlights**

• 4 papers in 1 technical session

#### Awards & Recognition

• Eugene L. Grant Award:

James Rutherford Cuthbert, "Partitioning Transaction Vectors into Pure Investments", *The Engineering Economist*, volume 63, number 2, pages 143-152

• 2018 Best Paper Award:

Lester Raymond Smith and Henry Lester for their paper titled "Instructor and Student Perceptions of the Authorized, Self-prepared Reference Sheet for Examinations."

- Call for Nominations: National Engineering Economy Teaching Excellence Award.
  - Awarded every other year. Nominations open in November 2019.

Visit us online to view past award recipients and learn about our upcoming awards.

https://sites.asee.org/eed/awards/

#### **Announcements**

**NOTICE:** The Eugene L. Grant Award Committee needs 2 more members! This committee evaluates the papers written for The Engineering Economist and helps identify the best submission for the year based off of award criteria. This is a good way to get involved in the division and an easy way to score service points towards tenure! Contact Billy Gray at bgray@tarleton.edu for more information.

ASEE General Updates from the PIC Chair:

- New conference registration for k-12 teachers is \$250
- Work-in-progress papers will not be considered for best PIC paper
- Divisions will no long have operating accounts. Balance in operating account will roll over to BASS accounts.
- There will be a PIC reorganization by division

EED Updates from the Past Chair (Billy Gray):

• PIC reorganization has three alternatives, reorganization by division seems to be the most popular at PIC I meeting and EED meeting.

EED Updates from the Chair (Kellie Grasman):

- No work in progress papers were submitted in 2019
- Discussed new sessions the EED could host to encourage new people to attend ASEE and EED (See call for special session below)

### Fall 2019 Newsletter - ASEE Engineering Economy Division

#### ASEE Annual Conference & Exposition June 20-24, 2020 Montreal, Quebec, Canada

Abstract, Special Session, and Workshop submission are now open!

The only conference dedicated to all disciplines of engineering education...

We are committed to fostering the exchange of ideas, enhancing teaching methods and curriculum, and providing prime networking opportunities for engineering and technology education stakeholders such as: deans, faculty members, and industry and government representatives.

The conference features more than 400 technical sessions, with peer-reviewed papers spanning all disciplines of engineering education.

#### Schedule at a Glance

- The 2020 call for papers can be found <u>here</u>.
- There are 3 open calls for the EED:
  - Traditional Technical Session
  - o Course Strategy Session for Engineering Economy Instruction
  - o Curriculum Elements for Innovate Teaching
  - o Abstract Submission Due: October 14, 2019
- Aimee Ulstad hosted a webinar on September 13, 2019 to discuss the special sessions. The recording from the event is linked here.
- Special Note: For US institutions the ASEE conference is *international* be sure if you plan to travel on an award or grant it allows for *international travel*. Some are limited to domestic travel only.

## Call for Papers- ASEE Engineering Economy Division (EED)

The Engineering Economy Division (EED) of ASEE seeks papers for presentation at the 2020 ASEE Annual Conference and Exposition being held in Montreal, Quebec, Canada, June 21-24, 2020.

We seek relevant abstract submissions for **research-based full and work in progress papers** for our traditional **Technical Sessions** covering a broad spectrum of engineering economy topics including, but not limited to:

- Economic analysis across engineering disciplines
- Innovative teaching methods for engineering economy
- Integrating engineering economy research into the classroom
- Case studies for the classroom
- Diversity, equity, and inclusion in engineering economy education International aspects of engineering economy education

We also seek submissions for two **Special Sessions** designed to uncover and explore the state-of-the-art of engineering economy education by bringing together new and seasoned engineering economy educators in an engaging, low-risk, high-reward way:

### 1. Course Strategies for Engineering Economy Instruction:

Interactive, panel-type session addressing effective strategies for teaching engineering economy. From large lecture halls, to online courses, to smaller traditional classrooms, the panel will use submitted papers to frame the discussion and draw insights about what really works in engineering economy education. This session is perfect for new educators, those just beginning to teach EE, anyone considering redesigning or updating their course, and experienced educators who have their course strategy for engineering economy down to a science.

Abstract format: Submit an abstract with the title "Course Strategy" followed by a descriptor (e.g., Course Strategy: Managing High Enrollment Online Courses) and a bulleted outline of the elements requested in for the paper itself (see below). The abstract should be approximately 1 page.

Paper format: Submit a paper (3-5 page recommended) addressing the following elements: Instructional Environment (department, student audience, school size, etc.), Delivery Method (lecture, hybrid, online, etc.), Approach to Instruction and Technology (spreadsheets, case studies,

tables/equations/calculators, etc.), Topics Covered, Assessment (grade elements, paper/online/mixed), Rationale for the approach, and Lessons Learned.

Conference Session format: Panel discussion with a dynamic, expert moderator. Contributed papers will drive the discussion topics and authors will have the opportunity to highlight key points and rationale behind their strategy. Paper contributors may be invited to be a member of the panel, and all in attendance will be included in the conversation.

#### 2. Curriculum Elements for Innovative Teaching:

Do you have a curriculum element that you want to share?

- Include real-world scenarios in a case study?
- Assign a group economic analysis project?
- Use online assessment for quizzes and tests?
- Have a technique for teaching financial risk using simulation?

This session will feature a collection of the very best in innovative teaching in engineering economy. You will have the opportunity to share your technique with everyone and then dive deeper with those who are most interested in learning more. This session is perfect for anyone interested learning new techniques or sharing a proven teaching tool with others.

Abstract format: Submit an abstract with the title "Curriculum Element" followed by a descriptor (e.g., Curriculum Element: Crafting Meaningful Case Studies from Current Events) and a bulleted outline of the elements requested in for the paper itself (see below). The abstract should be approximately 1 page.

*Paper format:* Submit a paper (3-5 page recommended) addressing the following elements: Objectives, Content, Delivery, and Assessment. Include the complete curriculum element where relevant to help others emulate or adopt your technique.

Conference Session format: Rapid fire presentations (3-5 minutes) by all authors, then rotating breakout sessions to discuss detail of curriculum elements. Your curriculum element and supporting materials will also be featured on the division's website for maximum impact.

Authors of accepted abstracts will be invited to submit papers for peer review and inclusion in the conference proceedings. All accepted papers are eligible for the **EED Best Paper Award.** We encourage submissions from new educators who are eligible for our \$1,000 New Engineering Economy Educator Award<sup>1</sup>. In addition, authors submitting to the special sessions may be eligible for a \$500 Travel Sponsorship<sup>2</sup> to help defray the cost of attending the conference. For more

<sup>&</sup>lt;sup>1</sup> Eligibility includes students, instructors, or faculty teaching engineering economy less than 5 years.

<sup>&</sup>lt;sup>2</sup> A limited number of awards are available.

information about the special sessions or to discuss your research ideas, join us for a webinar on September 13, 2019 at 10:00am EDT.

If you have questions or would like additional information, contact the engineering economy Division Program Chair, Jim Burns at <u>j.burns@wmich.edu</u> or Division Chair, Kellie Grasman at <u>kgrasman@mst.edu</u>, or visit us on the web (https://sites.asee.org/eed/).

Submission details, paper management information, and author's kit can be found at the links below.

- Conference Website
- Paper Management
- Author's Kit

#### Important Dates<sup>3</sup>

- Abstract Submission Opens: September 3, 2019
- Abstract Submission Deadline: October 14, 2019
- Accept/Reject Abstract Notification: November 4, 2019
- Draft Paper submission: February, 3, 2020
- Draft Revision Notification: March 2, 2020
- Revised Draft Paper Submission: March 16, 2020
- Accept/Reject Final Notification: March 23, 2020
- Author Registration: April 6, 2020
- Final Paper Submission: April 27, 2020

<sup>&</sup>lt;sup>3</sup> As of 8/16/2019. Dates are subject to change.

### 2019 Business Meeting Minutes

ASEE Engineering Economy Division Business Meeting Minutes: June 17, 2019 Tampa, FL as part of the ASEE Annual Conference and Exposition Minutes Prepared by Ona Egbue

#### 1. Welcome and Call to Order

The meeting was called to order by Division Chair Billy Gray --- at 11:35am EDT.

#### 2. Approval of minutes from 2018

Minutes from 2018 meeting were unanimously approved.

#### 3. Attendance

A roundtable introduction was held for all attendees.

The following people were present:

Billy Gray Tarleton State University

Ona Egbue University of South Carolina Upstate

Kellie Grasman Missouri S&T

John White University of Arkansas Tish Pohl University of Arkansas

Jim Burns Western Michigan University
Karen Bursic University of Pittsburgh
Kim Needy University of Arkansas
Sarah Ryan Iowa State University

John Usher Mississippi State University

Aimee Ulstad Ohio State University

Christy Boizic University of Colorado Boulder Jerome Lavelle North Carolina State University

Paul Lynch Penn State – Erie Katie Basinger University of Florida

#### 4. PIC 1 Report

Outgoing PIC 1 chair- Agnieszka Miguel Incoming chair- Christi Patton Luks

Agnieska Miguel joined the meeting to share information from ASEE. She shared that new additions this year included best paper sessions (for PIC winner and overall winner) and best paper poster (for all division winners). Both additions are for winners of previous year (2018). Furthermore, selection of best PIC paper was moved back one week so that people have more time.

Agnieska shared that the ethics taskforce reported to the board on March 16, 2019 on the ethics policy and non-discrimination policy as well as consequences of

violation. She stated that a moderator handbook had been created and will be modified to reflect new ethics policy.

She discussed the new conference registration rate for k-12 teachers (\$250) and stated that she checked that the 20% overhead cost is actual cost associated with covering costs. She shared that ASEE is just starting the process of searching for a replacement for its monolith system and has hired consultants. She stated that the best paper process should be documented in bylaws and that work-in-progress papers (WIPs) will not be considered as best PIC papers or best overall PIC papers. She also discussed the plan to reorganize PICs to address several issues including inequity in best paper selection process and clear imbalance in all metrics based on the current structure. The three reorganization scenarios being considered include Red, Green and Blue

Finally, Angieska discussed changes to BASS Accounts. ASEE has decided that divisions will no longer have operating accounts. Balance in operating accounts will be rolled over to BASS accounts. Every October 1, the operating expenses (\$1 per member) will be added to the BASS account. Funds can roll from year to year

#### 5. Division Chair's Report

Billy thanked the division's officers for their service this year.

Efforts and initiatives continuing from last year:

- The New Engineering Economy Educator Award was not presented this year
- National Engineering Economy Teaching Award (even years) will be selected this fall/winter
- The 2018 winner for the Eugene L. Grant Award is James Rutherford Cuthbert for the paper "Partitioning Transaction Vectors into Pure Investments", *The Engineering Economist*, volume 63, number 2, pages 143-152. Awards for the year will be presented at the annual banquet
- Erick Jones is EED's representative on ASEE Diversity, Equity and Inclusion committee and has agreed to continue serving.

Kelly Grasman is the EED representative on ASEE's K-12 committee

Membership increased significantly from 112 in 2017 to 167 in 2018. Billy presented summary data and graphics for the division's total membership from 2015 to 2018 that showed a comparison to PIC I membership and ASEE overall membership. 2018 marked the first time during this period that EED membership has increased above the 125 required by ASEE.

Highlights from PIC I meeting:

Changes to the operating accounts were discussed. Website needs to be updated. ASEE did not follow through on multiple emails from Aimee about updating website

PIC reorganization was discussed and most members agreed that scenario red (reorganization by disciplines) makes the most sense. Aimee Ulstad noted that Engineering Ethics and Engineering leadership would make sense to be in the same group as EED. Kim Needy asked when the change will take effect. Billy Gray responded that the date is unknown. Billy said he will send out the information on reorganization to members to receive feedback. Aimee suggested using a survey to get feedback. Kim Needy pointed out that ERM typically has more sessions than typical. Some concern was expressed about potentially having reduced sessions for the EED because of ERM

#### 6. Program Chair's Report

Kellie Grasman presented the Program Chair's report. For the 2019 conference, 10 abstracts were submitted, 6 withdrawn, 0 was transferred to another division, and 0 were rejected. From those initial submissions, 4 papers were published and presented, placed into one technical session. Kellie noted that no abstract was submitted as a WIP. Some submitted abstracts were withdrawn despite being offered to submit as a WIP. Only four papers were submitted.

Technical session Is on Tuesday, June 18, 3:15-4:45pm in Room 12-Theather of the Tampa Convention Center.

One award was presented to those who submitted papers. The Best Paper Award was presented to Lester Raymond Smith and Henry Lester for their paper titled "Instructor and Student Perceptions of the Authorized, Self-prepared Reference Sheet for Examinations,".

No New Engineering Economy Educator award was made this year because no paper was eligible. The rules and eligibility for the New Engineering Economy Educator award were reviewed with the division.

Kelly discussed meeting of officers prior to the business meeting to talk about emphasizing WIP option for the EED. Kim Needy asked about the possibility of extended abstracts instead of papers. Kellie discussed reaching out to more people through The Engineering Economist email list in order to broaden participation. Aimee offered to host a short seminar about sessions. The group discussed making sure EED offers different sessions (WIP vs Regular vs Panels) and the need to clarify WIP requirements since WIP varies by divisions.

Kim Needy suggested more encouraging comments from reviewers. John Usher suggested encouraging some papers to be WIP

#### 7. Treasurer's Report

Jim Burns presented a summary of main accounts (222 BASS, 322, Oper., 122, Best Paper, 422 Loc and 115 NEETEA). Jim provided a tables showing summary for 9/30/2017, 9/30/2018 and 3/31/2019. Furthermore, he discussed the sources of change (expenses and revenue) from 9/30/2018 to 3/31/2019 as well as pending transactions for 4/1/2019-9/30/2019. He noted that financial reports were received in a timely manner this year. No major changes to financial procedures were made during the year.

Furthermore, Jim noted that award accounts are not standard reports from ASEE and have to be requested specifically.

This report includes an update on five accounts. Three accounts managed by the Treasurer in conjunction with ASEE Headquarters include the BASS (Bank and Accounting Services System) Account, the Operating Account, the Conference Best Paper Award Account. Two external accounts are the Grant Award Account and the National Engineering Economy Teaching Excellence Award Account, which are external accounts. The Grant Award Account is overseen by the Editor of *The Engineering Economist* and is journal's annual best paper award; it is currently not managed by ASEE.

Please contact Jim Burns (j.burns@wmich.edu) with any questions.

#### BASS Account #222 - Activity for dues, royalty, conference expenses.

Balance as of 9/30/17: \$13,587 Balance as of 9/30/18: \$13,408 Balance as of 3/31/18: \$13,498

#### Operating Account #322 – Allocation of \$1/member each year.

Balance as of 9/30/17: \$0
Balance as of 9/30/18: \$0
Balance as of 3/31/18: \$113

Note: Account receives an allocation of \$1 per division member each year, and expenses are applied to deplete each year. All ASEE Operating Accounts will be discontinued after October 2019, and the \$1 allocation per division member will be paid to the BASS account.

#### Grant Award Account #422 – Award affiliated with Engineering Economist.

Balance as of 9/30/17: \$32,741 Balance as of 9/30/18: \$33,044

Updates on the Grant Award account are sent to the Editor of The Engineering Economist.

# Conference Best Paper Award Account (Endowment Account, #122 – held with TIAA-CREF).

Balance as of 9/30/17: \$128,226 Balance as of 6/30/18: \$133,053 Balance as of 6/11/19: \$137,417

# National Engineering Economy Teaching Excellence Award Account (Endowment Account, #115 – held with TIAA-CREF).

Balance as of 9/30/17: \$375,491 Balance as of 6/30/18: \$389,628 Balance as of 6/11/19: \$391,173

#### 8. Newsletter Editor's Report

Ona Egbue presented the newsletter editor's report. The division published and distributed two newsletters to its members in 2018 – 2019. A summary of the timing and content for each edition was provided. Meeting minutes will continue to be published in the fall edition of the newsletter, which is anticipated in mid-September 2019. The division's website (https://sites.asee.org/eed/) continued to be updated throughout the year and is serving as a repository for past newsletters and a place where ASEE members can access information about the division. The Secretary/Newsletter Editor position will continue to have responsibility for maintaining the division website.

#### 9. Division Leadership and Volunteers

Officers for 2019-2020 were announced and a call for nominations for a new Secretary/Newsletter Editor was announced. Jerome Lavelle nominated Katie Basinger. Kim Needy moved to close the nomination. All division members voted in favor of Katie for the role of Secretary/ EED Newsletter Editor to commence 2019-2020.

The division leadership and volunteers for the prior and new year are:

Division Officers (2017 – 2018):

Immediate Past Chair: Aimee Ulstad

Division Chair: Billy Gray

Division Chair: Kellie Grasman

Program Chair: Kellie Grasman
Treasurer: Jim Burns
Treasurer: Ona Egbue
Secretary: Ona Egbue
Secretary: Katie Basinger

10. Committee Report: National Engineering Economy Teaching Excellence Award Billy Gray presented an update on the National Engineering Economy Teaching Excellence Award (NEETEA). The award recognizes an individual who has

demonstrated classroom teaching excellence and teaching scholarship in engineering economy. The award is presented biennially at the ASEE Awards Banquet held during the Annual Conference. No award was made in 2019. The next award will be in 2020

Billy Gray stated that a fifth non-division member was needed for the committee. Potential non-division members were discussed. Tish Pohl volunteered to find the non-division member. Ed Pohl accepted to be the non-division member.

#### 2020 NEETEA Committee Members include:

Billy Gray (Officer Representative, 2020 Committee Chair) Jim Burns (Officer Representative, 2022 Committee Chair) Ted Eschenbach (previous winner, term ends 2020) Bill Sullivan (previous winner, term ends 2022) Ed Pohl (Non-division member, term ends 2022)

# 11. Committee Report: <u>Eugene L. Grant Award Winner for The Engineering</u> Economist

The recipients of the Eugene L. Grant Award for 2018 is James Rutherford Cuthbert for his article *Partitioning Transaction Vectors into Pure Investments* published in the *The Engineering Economist*, volume 63, number 2, pages 143-152.

Election of new committee members for the Grant Award Committee ensued. Eugene L. Grant Award committee members serve 3-year terms. The term periods provided here correspond to Issue Year of The Engineering Economist (e.g., 2018 committee members will begin the evaluation of 2018 papers in early 2019).

Four committee spots needed to be replaced. Kate Abel agreed to stay on as Chair. Kellie Grasman replaced Paul Kaufman on the committee last year. Christy Boizic volunteered to replace Gene Dixon if all three members whose terms are up decided to stay on. Billy Gray stated that he will check with the three members to see if they would like to be reappointed. John White expressed willingness to serve a one-year term to replace Gene if one of the three members is not willing to serve another term and then Christy can serve a 2-year term.

Members of the 2019 Eugene L. Grant Award Committee (Volume Committee Cycles):

Kate Abel	(18-20)	[Chair]
Gene Dixon	(16-19)	[Past Chair, Term Ends]
Ted Eschenbach	(16-19)	[Term Ends]
Jane Fraser	(15-18)	
Kellie Grasman	(18-20)	

Billy Gray (18-20)

Erick Jones (16-19) [Term Ends]

Neal Lewis (15-18) Janis Terpenny (15-18)

The 2019 Eugene L. Grant Award will be paid out of the BASS account.

#### 12. Committee Report: The Engineering Economist

Sara Ryan presented the report for The Engineering Economist. Original manuscript submissions show an increasing trend with some variability. The Engineering Economist has a 17.1% acceptance rate over the past 12 months as of mid-May 2017. She noted that many of the rejections are desk rejections due to lack of fit.

Sarah discussed statistics from publisher's annual meeting showing trends in number of full paper downloads, manuscript acceptance rate and impact factor.

For the first time, Clarivate Analytics provided a detailed spreadsheet showing all journal impact factor data. However, there are some problems with the data on impact factor.

The Engineering Economist editorial board nomination/election: Kim Needy nominated Jerome Lavelle to serve another term on the editorial board. Jerome accepted with unanimous approval. Christie Boizic agreed to replace Gene Dixon with unanimous approval

The ASEE representatives for The Engineering Economist editorial board are:

Jerome Lavelle (Jan. 2017 – Dec. 2021) Billy Gray (Jan. 2018 – Dec. 2020) Christy Boizic (Jan. 2020 – Dec. 2022)

Jerome Lavelle thanked Sarah for her service as the editor of The Engineering Economist.

#### 13. New Business

Aimee Ulstad discussed officers' meeting that took place prior to the business meeting and the discussion during the meeting to merge EED, EMD and IED. Kim Needy asked about the overlap of members in those divisions and pointed out that some members may not want to continue in the division if merge occurs. Kim also expressed curiosity about finding out who the new EED members are and their reason for joining the division.

Jerome Lavelle stated that all three divisions fit under the same umbrella and therefore a merge will be effective administratively. However, Jerome noted that a merge will mean less opportunity to have leadership opportunity and will result in as loss of unique identity. He also noted that some people in other engineering divisions are part of EECS but not EMD and ISD. Furthermore, EED has more money than the other divisions.

Christie Boizic suggested that EED should wait to till next year to see if ideas from this year to increase participation in the division are successful. Tish Pohl suggested emailing industrial engineering department heads about the new engineering educator award. John Usher suggested emailing the engineering deans council too.

Jerome Lavelle suggested a practical session for people teaching that is not a paper session. He also suggested more promotion and awareness.

Billy Gray announced that the 2020 ASEE Conference will be in Montreal Quebec, Canada on June 21-24, 2020 and reminded attendees that the joint award dinner will be June 18, 2019, at Jackson's Waterfront Room, 601 S. Harbour Island Blvd, Tampa, FL

Billy Gray thanked Aime Ulstad for her service to the division over the past several years and thanked the current and new officers for their willingness to continue serving.

#### 14. Adjournment

The meeting was adjourned by Billy Gray at approximately 1:00pm EDT.

#### 15. Appendix

Treasurer's Report, by Jim Burns Current as of August 8, 2019

This report includes an update on five accounts. Three accounts managed by the Treasurer in conjunction with ASEE Headquarters include the BASS (Bank and Accounting Services System) Account, the Operating Account, the Conference Best Paper Award Account. Two external accounts are the Grant Award Account and the National Engineering Economy Teaching Excellence Award Account, which are external accounts. The Grant Award Account is overseen by the Editor of *The Engineering Economist* and is journal's annual best paper award; it is currently not managed by ASEE.

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