



Industrial Engineering Division Newsletter Spring 2017

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This newsletter is devoted to the 2017 ASEE Annual Conference and Exposition to be held in Columbus, Ohio, “Where Engineering Education Takes Flight.” IED will present 9 papers in two technical sessions and a poster session that will appeal to people teaching across the IE curriculum. Be sure to attend the Division Mixer on Sunday night and the IED Business Meeting on Tuesday Morning at 8:00 AM. The Tuesday dinner held jointly with the Engineering Economy, Engineering Management, and Systems Engineering Divisions is sure to be a great event. We’ll See you in Columbus.



Visit the division website for more information on IED

<https://sites.asee.org/ied>

Call for Officers

The Industrial Engineering Division (IED) is seeking nominations for Secretary/Treasurer for 2017-2018. This is the first year of a five-year rotation, which is followed by: Assistant Program Chair, Program Chair, Division Chair, and then finally Awards/Past Division Chair. The time commitment is minimal except in the Program Chair year. Please consider nominating someone for this position; self-nominations are welcome. If you have questions, feel free to contact anyone currently on the IED Board – contact information is at the end of the newsletter. Nominations can also be made at the IED Business Meeting on Tuesday, June 27, 2017. At that time, a vote will be taken to elect our new board member.

IED 2017 Annual Conference Technical Sessions

IED is the sponsor of two sessions at the 2017 Annual Conference. The 8 papers and the authors are identified below. Use this as a starting point to plan a conference program that will give you new ideas for your courses and suggestions that you can share with your colleagues. If you aren't able to attend the conference, look for these papers on the ASEE Proceedings website.

Session U329-Industrial Engineering Division Tech Session 1: IE-ing a Broader Perspective

Sun. June 25, 2017 11:30 AM to 1:00 PM
Room A223, Columbus Convention Center
Moderated by Dr. Bill Schell

The focus of this session provides a broad perspective to IE education.

1. An Industrial Engineering Design Experience Reflecting upon Moral Development and Wellbeing

Dr. Cristina D. Pomales-Garcia (University of Puerto Rico, Mayaguez campus) and Prof. Christopher Papadopoulos (University of Puerto Rico, Mayaguez campus)

2. Engineering the Accreditation Process

Dr. Susan O. Schall (SOS Consulting, LLC)

3. Enhancing Ergonomic Design Skills among Undergraduate Students by Integrating Computer Aided Design and Digital Human Modeling

Dr. Faisal Aqlan (Pennsylvania State University, Erie (Behrend College)), Prof. Yuan-Han "Rick" Huang (Pennsylvania State University, Erie (Behrend College)), Dr. E. George Walters III P.E. (Pennsylvania State University, Erie (Behrend College)), and Dr. Osama T. Al Meanazel (The Hashemite University)

4. Industrial Engineering Beyond Numbers: Optimizing under Ethics*

Dr. Alejandro Salado (Virginia Tech)

* New IE Educator Outstanding Paper Award Winner

Session M329-Industrial Engineering Division Tech Session 2, IE-ing the Classroom

Mon. June 26, 2017 11:30 AM to 1:00 PM
Room A223, Columbus Convention Center
Moderated by Dr. Tish Pohl

The theme of this session is IE related to activities associated with class administration and pedagogy.

1. Decision-Making, Information Seeking, and Compromise: A Simulation Game Activity in Global Industrial Management*

Dr. Alejandro Salado (Virginia Tech), Mr. John Ray Morelock (Virginia Tech), and Mr. Arash Baghaei Lakeh (Virginia Tech)

2. Improving Communication in Industrial Engineering Courses by Implementing a “Zero Email” Policy and Optimizing the Use of a Course Management System

Dr. Paul C. Lynch (Penn State Erie, The Behrend College), Dr. Joseph Wilck (College of William & Mary), and Miss Amanda Elizabeth VanBuskirk (Affiliation unknown)

3. Influencing Student Motivation Through Scaffolded Assignments in a Quality Analysis Course and Its Impact on Learning

Dr. Nadiye O. Erdil (University of New Haven)

4. Transforming Outreach Education: Implementing Industrial Engineering Classroom Activities as Outreach Projects**

Dia St. John (University of Arkansas) and Mr. Eric Specking (University of Arkansas)

* IED Best Paper Award Winner

** IED Best Paper Award Runner Up

Session T329-Industrial Engineering Division Poster Session

Tue. June 27, 2017 11:30 AM to 1:00 PM

Exhibit Hall A & B, Columbus Convention Center

Implementation of a Learning Assessment: Case Study of Applied Statistics Course in Industrial Engineering

Dr. Behin Elahi (Purdue University, Fort Wayne)

Panel Session – Evolving IE Curricula

New this year

Session W129-IED Evolving IE Curricula: Panel Session

Wed. June 28, 2017 8:00 AM to 9:30 AM

Room A223, Columbus Convention Center

Moderated by Dr. Gene Dixon

The world is flat; knowledge availability continues to expand; the speed of business continues to increase. These factors influence the work of IEs across the globe. As IE educators, it is imperative that we prepare our students for employers’ expectations through robust and responsive curricula. The IISE has a defined set of twelve knowledge areas within the IE Body of Knowledge (IEBoK). Technological interest in the areas of sustainability, analytics, and healthcare is now garnering increasing attention from industrial engineering researchers and practitioners.

Do these trends represent new or changing knowledge areas? If these trends reflect new knowledge areas, how should IE educators be responding relative to course development, contemporary issues in the classroom, and evolving curricula? Join us for a broad discussion with a panel of eminent experts discussing how IE educators might address the expanding needs in IE education.

Panelists

1. Dr. Jane M. Fraser

Colorado State University, Pueblo

Jane M. Fraser is a Professor and the Chair of the Department of Engineering at Colorado State University-Pueblo

2. Dr. Jeffrey B. Goldberg

University of Arizona

Jeffrey Goldberg is Dean of College of Engineering and a Professor of Systems and Industrial Engineering at the University of Arizona.

3. Dr. Leonard A Perry

University of San Diego

Chair and Associate Professor, Industrial and Systems Engineering, Shiley-Marcos School of Engineering, University of San Diego

Special Conference Events for IED Members

ASEE Division Mixer

Sunday, June 25, 4:00pm-5:30pm

Regency Ballroom, Hyatt Regency Columbus

The *Division Mixer* provides a networking opportunity that encourages conference attendees to meet with members of the ASEE divisions in an informal setting with light refreshments. Officers from the IE Division will be staffing a table to answer your questions about IED sessions and activities, and asking for your suggestions for how the IED can provide better value to you. Please come by and say hello!

Two great books will be given away. Drop your business card of at the IE table during the mixer to be entered into a drawing for a great IE book donated by McGraw-Hill. Winner to be selected at the close of the mixer and announced at the Business Meeting.

Industrial Engineering Division Business Meeting

Tuesday, June 27, 8:00am-9:30am

Harrison Room, Hyatt Regency Columbus

The annual business meeting of the IED takes place on Tuesday morning this year. Division officers will be there, but it isn't just for officers. The IED sessions at the 2017 ASEE Conference will be influenced by the ideas you bring to this meeting, so plan on attending this session and helping to make the division even more effective. An election for Secretary/Treasurer for 2016-17 will be held – this is your opportunity to get involved and provide leadership.

New this year, a light breakfast (with coffee) will be served at the business meeting.

Joint Dinner with EMD, EED, IED, SED (Ticketed Event)

Tuesday, June 27, 7:00pm-9:00pm

Peppercorn Room, Hyatt Regency Columbus

This annual dinner is held along with the *Engineering Management, Engineering Economy, and Systems Engineering* divisions. Awards from all four divisions are presented at the dinner, so be sure to attend and share in the success of your colleagues and friends. It's a perfect way to wind down from the first days of the conference and charge your batteries for Wednesday. This ticketed event costs \$60 with advanced registration and \$80 dollars on-site. Register now to reserve a spot.

IED Awards and 2016 Winners

The division offers five awards to recognize excellent papers presented at the ASEE Annual Conference and acknowledge outstanding service on behalf of the division.

IED Best Paper Award The purpose of this award is to encourage and recognize industrial engineering educators for the preparation and presentation of outstanding papers at sessions sponsored by the IE Division during the ASEE Annual Conference.

2016 Winner

Industrial Engineering Students' Perceptions of the Logistics and Supply Chain Industry

Dr. Christina R. Scherrer (Kennesaw State University), Michael Maloni (Kennesaw State University), Dr. Elizabeth M. Boyd (Kennesaw State University), and Dr. Stacy M. Campbell (Kennesaw State University)

New Industrial Engineering Educator Outstanding Paper Award

The purpose of the award is to encourage and recognize new industrial engineering educators for the preparation and presentation of outstanding papers at sessions sponsored by the IE Division during the ASEE Annual Conference. The recipient will be awarded \$250 per author up to \$500 per paper. Senior faculty are eligible for the award as co-authors, but not for the monetary award. The award also includes a plaque of recognition.

Industrial Engineering Travel Grant for New Attendees

The purpose of the award is to encourage industrial engineering faculty to attend the ASEE annual conference, and to encourage faculty to become active in the research and dissemination of industrial engineering educational best practices. The recipient will be awarded \$500 to be used toward travel expenses to attend the annual conference. The award also includes a ticket to the IED awards banquet.

2016 Winner

Philip Appiah-Kubi, University of Dayton

Distinguished Service Award

This award recognizes exemplary service to the Industrial Engineering Division and is presented to a member of the division who has provided significant service to the division. The award consists of an engraved plaque and can be received only once by any individual.

Lifetime Achievement Award

This award recognizes an outstanding industrial engineering educator in recognition of the educator's contributions to the profession. The award, which recognizes lifetime achievement in industrial engineering education, is presented annually to an individual who has made significant contributions over an extended period of time to the discipline and the division, and who exemplifies the highest standards of the professorate in industrial engineering. The award consists of a suitably engraved plaque presented at the annual Joint IE/EMD/EED Division Dinner. The award can be received only once by any individual.

IED Members Are Great

ASEE President

Louis A Martin-Vega, Dean of the College of Engineering, North Carolina State University.

New ASEE Fellow

Ted Eschenbach, Professor Emeritus, School of Engineering, University of Alaska, Anchorage.
Will be inducted as a society fellow during the 2017 conference.

2016 National Award Winners

John L. Imhoff Award

Edward A. Pohl, Professor and Head, Department of Industrial Engineering, College of Engineering, University of Arkansas. This award recognizes an individual who has made outstanding contributions in the field of industrial engineering education and has demonstrated global cooperation and understanding through leadership and other initiatives, and comes with a \$1,000 honorarium.

National Engineering Economy Teaching Excellence Award

Ted Eschenbach, Professor Emeritus, School of Engineering, University of Alaska, Anchorage. This award recognizes an individual who has demonstrated classroom teaching excellence and teaching scholarship in engineering economy and consists of a \$10,000 honorarium, an inscribed plaque, and a \$1,000 stipend to assist the award recipient in travel costs to attend the ASEE Annual Conference.

ASEE Fellows

John A. White 1997, Distinguished Professor and Chancellor Emeritus, University of Arkansas

Larry J. Shuman 2006, Professor, University of Pittsburgh

Jane M. Fraser 2012, Professor and Chair, Colorado State University, Pueblo

Jessica O. Matson 2013, Professor of Industrial Engineering, Tennessee Technological University

Kim LaScola Needy 2014, Dean, Graduate School and International Education, University of Arkansas

News from around IE

Program earns ABET accreditation: The Penn State Behrend Industrial Engineering Program just completed its 4th year. The program received its first ABET visit Fall 2015 and is now an ABET accredited program. The 2016-2017 school year brought with it the opening of a new \$16.5 M Advanced Manufacturing and Innovation Center (AMIC) co-locating the Industrial & Mechanical Engineering programs with industry partners. The new AMIC building will provide an array of student hands-on learning opportunities while companies will be able to tap the minds of the next generation of engineers.

New program has first Graduates: The Industrial Engineering program at Quinnipiac University started in Fall 2012. The program had its first graduates in May 2016. The IE program aims to develop and produce employment-ready graduates; in addition to a full-year Senior Design project and a mandatory internship, the students do a significant project with a company at the end of every single IE course. The 120-credit curriculum is flexible and relevant; it allows for minors, double majors, accelerated programs, and Study Abroad opportunities.

How Can You Help the IED?

As is the case with every division in ASEE, the success of the IED depends on the participation of its members. We are hoping you can help us to achieve these goals in specific ways. If you'd like to help, or have ideas on how the IED can help you, talk to one of the officers at the Division Mixer at the

conference or one of the technical sessions, or send a message to an officer. Contact information is at the end of the newsletter.

- Make certain you renew your IED membership. As you renew your ASEE membership this year, make certain that you check the box for the IED. The nominal dues provide the money needed to appropriately recognize the award recipients, but even more importantly, your membership in the IED sends a signal to ASEE that the Division is important and deserving on continuing to receive four technical paper sessions at the conference.
- Make a special effort to encourage your colleagues to join ASEE, and the IED.
- Submit a paper to the Annual Conference.
High quality submissions mean high quality sessions, and a more valuable conference for everyone. Plan on submitting a paper to the next ASEE conference.
- Volunteer to review abstracts and papers submitted to the IED.
Everyone appreciates a thorough review of the papers they submit. Those reviews have to start somewhere. By offering a few hours of your time, you'll help to improve the quality of the IED program even if you aren't able to attend the conference.
- Identify a deserving recipient for IED awards.
Outstanding papers don't receive the recognition they deserve unless the reviewers are aware of the awards, and then identify the best papers for the awards. When reviewing papers, keep an eye out for outstanding work. At the same time, review the criteria for the Distinguished Service and Lifetime Achievement awards. If you can identify deserving colleagues, please tell the Division leadership.
- Attend IED sessions at the Annual Conference, and rate the sessions.
Among the factors that ASEE uses when allocating technical sessions are the attendance at the session and the evaluations of the quality of the sessions. By attending the sessions, you will ensure the IED's place at future conferences; and you'll become a better IE educator.
- Represent IE at Regional ASEE Conferences.
Regional conferences often offer forum for your work that is close to home and may be more convenient for you than the National Conference. Keep your eyes out for the Call for Papers from your local section and submit paper there. This may also prove to be an opportunity to find a future collaborator.
- Share your ideas with the board.
We're always looking for new ideas that can make the IED more valuable for the members. Your ideas are as good as anyone else's. Please share them with the board. If you don't know how to contact us, keep reading.

Newsletter Submissions Welcome!

The most valuable newsletters are the ones that contain actual news submitted by the members. If you have something that you'd like to share with the IED, please forward the details to our newsletter editor. Anything that might be of interest to the members is welcome including:

- Calls for Papers for conferences related to engineering education including ASEE regional conferences
- Reminders of deadline submissions to agencies funding educational research
- Announcements of members receiving teaching awards or other related accolades
- Announcement of papers related to IE education

This is your newsletter. Please help to make it valuable.

IED Board Member Contact Information

Until the end of the 2017 ASEE Conference, the IED officers are:

Awards/Past Division Chair:	Leonardo Bedoya-Valencia (l.bedoyavalencia@colostate-pueblo.edu) (719) 549-2788
Division Chair:	Letitia Pohl (lpohl@uark.edu) (479) 575-3667
Program Chair:	Gene Dixon (dixone@ecu.edu) (252) 737-1031
Assistant Program Chair:	Justin Kile (Justin.Kile@quinnipiac.edu) (203) 582-3372
Secretary/Treasurer:	Paul C. Lynch (Lynch0917@hotmail.com) (570) 590-3672
Diversity Committee:	Glenda D Young (glendayoung87@gmail.com) (662) 722-0201
Directors:	Jane Fraser (jane.fraser@colostate-pueblo.edu) (719) 549-2036 Jessica Matson (matson@tntech.edu) (931) 372-3260 Rick Olson (r_olson@sandiego.edu) (619) 260-6853 Lawrence Whitman (Larry.whitman@wichita.edu) (316) 978-5907
Webmaster:	Lawrence Whitman

After the conference, the Division Chair, Program Chair, Assistant Program Chair and Secretary/Treasurer will move up one position. Who would you like to nominate for Secretary/Treasurer?

The ASEE IED web site is at: <https://sites.asee.org/ied/>

We look forward to seeing you all next year:

2018 ASEE Annual Conference and Exposition
Sal Lake City, Utah
June 24-27, 2018