

Industrial Engineering Division Newsletter

SPRING 2016

CONTENTS

Call for Officers	2
IED 2016 Annual Conference Technical Sessions	2
Special Conference Events for IED Members	3
IED Awards	4
How Can You Help the IED?	4
Newsletter Submissions Welcome!	5
IED Board Member Contact Information.....	5

This newsletter is devoted to the 2016 ASEE Annual Conference and Exposition to be held in New Orleans, Louisiana, “Jazzed About Engineering Education.” IED will present 16 papers in three sessions 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 Wednesday afternoon at 3:00. 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 New Orleans!



Plan ahead...

2017 ASEE Annual Conference and Exposition

Columbus, Ohio

June 25-28, 2017

CALL FOR OFFICERS

The Industrial Engineering Division (IED) is seeking nominations for Secretary/Treasurer for 2016-2017. This is the first year of a five-year rotation, which is followed by: Program Chair-Elect, 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 Wednesday, June 29, 2016. At that time, a vote will be taken to elect our new board member.

We are also seeking a Newsletter Editor to replace Rick Olson, who wishes to step down. Thank you for your service, Rick!

IED 2016 ANNUAL CONFERENCE TECHNICAL SESSIONS

IED is the sponsor of three sessions at the 2016 Annual Conference. The 16 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 W129-Industrial Engineering Division Technical Session 1](#)

Wed. June 29, 2016 8:00 AM to 9:30 AM
Room 337, New Orleans Convention Center
Moderated by Dr. Letitia M. Pohl

- 1. Using a Service-Learning Pedagogy to Improve Student Engagement**
Dr. Lesley Strawderman (Mississippi State University) and Shuchisnigdha Deb (Mississippi State University)
- 2. Predicting Success in a Quality Control Course: Does Time Since Taking the Prerequisite Course Matter?**
Dr. Joseph Wilck (United States Air Force Academy), Dr. Paul J. Kauffmann P.E. (East Carolina University), and Dr. Paul C. Lynch (Penn State University - Erie)
- 3. Evaluation of Engineering Teaching Effectiveness through Cheat-Sheet Data-Mining**
Dr. Philip Appiah-Kubi (University of Dayton)
- 4. Using Experiential Learning to Teach Office Ergonomics in the Undergraduate Classroom**
Dr. Terri M. Lynch-Caris (Kettering University) and Karl D. Majeske (Oakland University)
- 5. Ergonomics Topics for the Undergraduate Classroom**
Dr. Terri M. Lynch-Caris (Kettering University) and Dr. Letitia M. Pohl (University of Arkansas)

[W229-Industrial Engineering Division Technical Session 2](#)

Wed. June 29, 2016 9:45 AM to 11:15 AM
Room 282, New Orleans Convention Center
Moderated by Mr. Eric Specking

- 1. 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)
- 2. An Online 2+2 Bachelor's Degree Program Track in Industrial Engineering at Lamar University**
Dr. James C. Curry (Lamar University), Dr. Brian Craig P.E. (Lamar University), and Prof. Weihang Zhu (Lamar University)
- 3. Opportunities, Challenges, and Locus of Control in Undergraduate Research in Healthcare Settings**
Dr. Laura E Moody (Mercer University) and Dr. Joan Burtner (Mercer University)

4. Modeling Student Satisfaction and Implementation of the I-C-D Method to Improve the Industrial Engineering Undergraduate Course Experience

Dr. Paul C. Lynch (Penn State University - Erie), Ms. Cynthia Bober (Penn State University), and Dr. Joseph Wilck (United States Air Force Academy)

5. Perception: Industrial Engineering Jobs

Mr. Eric Specking (University of Arkansas), Mr. Brian W. Henderson (University of Arkansas), and Mr. Bryan Hill (University of Arkansas)

*IED Best Paper Award Winner

W629-Industrial Engineering Technical Session 3

Wed. June 29, 2016 11:30 AM to 1:00 PM

Room 282, New Orleans Convention Center

Moderated by Dr. Leonardo Bedoya-Valencia

1. Using Case Studies to Enhance the Critical Thinking Skills of IE Students [view paper]

Dr. Alexandra Chronopoulou (University of Illinois, Urbana-Champaign), Dr. Kelly J. Cross (University of Illinois, Urbana-Champaign), Dr. Douglas M. King (University of Illinois, Urbana-Champaign), and Ehsan Salimi (University of Southern California)

2. Integrated Curriculum Design for an Industrial Engineering Undergraduate Program in Latin America

Dr. Angélica Burbano (Universidad Icesi)

3. A University-Based Organizational Platform to Leverage Regional Economic Development

Dr. David Elizandro (Tennessee Technological University)

4. An Academic Program Assessment Methodology to Leverage the Integrated Higher Education Environment Created by the Complete College Tennessee Act (CCTA)

Dr. David Elizandro (Tennessee Technological University), Dr. David H. Huddleston (Tennessee Technological University), Dr. Y. Jane Liu (Tennessee Technological University), and Ms. Elizabeth L. Hutchins (Affiliation unknown)

5. User-Based Collaborative Filtering Recommender Systems Approach in Industrial Engineering Curriculum Design and Review Process

Dr. Ebisa Wollega (Colorado State University - Pueblo) and Mr. Vitor Ambrosio Winckler (Colorado State University - Pueblo)

6. Using Mentors as Live Case Studies for Teaching Topics in Supply Chain Management

Aimee T. Ulstad (Ohio State University) and Ms. Yeonsu Ryu (Affiliation unknown)

SPECIAL CONFERENCE EVENTS FOR IED MEMBERS

ASEE Division Mixer

Sunday, June 26, 4:15pm-5:45pm

La Nouvelle Ballroom, New Orleans Convention Center

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!

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

Tuesday, June 28, 7:00pm-9:00pm

Drago's Seafood, Hilton New Orleans Riverside Hotel

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 the IED sessions on Wednesday. This ticketed event costs \$68 with advanced registration and \$78 dollars on-site. Register now to reserve a spot.

Industrial Engineering Division Business Meeting

Wednesday, June 29, 3:00pm-4:30pm

Room 241, New Orleans Convention Center

The annual business meeting of the IED always takes place on Wednesday afternoon. Division officers will be there, but it isn't just for officers. The IED sessions at the 2016 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 2015-16 will be held – this is your opportunity to get involved and provide leadership. We are also looking for someone to take over as our newsletter editor.

IED AWARDS

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.

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.

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.

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 in Indianapolis, 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 means 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 2016 ASEE Conference, the IED officers are:

Awards/Past Division Chair:	Heidi Taboada (hataboada@utep.edu) (915) 747-5734
Division Chair:	Leonardo Bedoya-Valencia (l.bedoyavalencia@colostate-pueblo.edu) (719) 549-2788
Program Chair:	Letitia Pohl (lpohl@uark.edu) (479) 575-3667
Assistant Program Chair:	Gene Dixon (dixone@ecu.edu) (252) 737-1031

Secretary/Treasurer: Justin Kile (Justin.Kile@quinnipiac.edu) (203) 582-3372

Directors: Jessica Matson (matson@tntech.edu) (931) 372-3260
Jane Fraser (jane.fraser@colostate-pueblo.edu) (719) 549-2036
Terri Lynch-Caris (tlynch@kettering.edu) (810) 762-9859
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Newsletter Editor: Rick Olson (r_olson@sandiego.edu) (619) 260-6853

Webmaster: Lawrence Whitman

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

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