



First-year Programs Division Newsletter

Spring 2018 Edition



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A Message from the Division Chair

From John Estell:

“Quasquicentennial” – a fancy way of saying that we are celebrating that ASEE has been around for 125 years. Founded in Chicago at the 1893 World’s Columbian Exposition (which also hosted the original Ferris Wheel), our Society has been “at the heart of” promoting and improving engineering education since that time – and our Division is “at the heart of” all things emphasizing student success in the first-year experience.

This year’s Annual Conference will be held June 24-27 in Salt Lake City. If you’re new to our Division, please consider stopping by our table during Sunday’s Division Mixer, where you can meet members of the FPD Board and have your questions about the Division answered. Thanks to the efforts of our Program Chair, Kerry Meyers, we have an exciting slate of technical sessions to offer attendees, including our “Best Papers” session at 11:30 am Monday. The 2018 FPD Best Paper Award will be presented at the end of this session. Returning this year are our popular Postcard sessions, where mini-presentations are followed by interactive small group discussions with individual authors of work-in-progress (WIP) papers. This format allows authors of WIP papers to have extended conversations regarding their ongoing research with interested attendees.

Message from the Chair: (continued next page)

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Upcoming Events and Dates of Interest

ASEE 2019 Abstract Submission Open:

September 2018

ASEE 2019 Sunday Workshop Applications Accepted

September 2018

FYEE: 2018 First year Engineering Experience

Conference: “Enhancing the First Year of Engineering Education”

July 25 - 26, 2018 Rowen University, Glassboro, NJ

FIE: 2017 Frontiers in Education Conference:

“Fostering Innovation Through Diversity”

October 3-6, 2018 San Jose, CA

WEEF: World Engineering Education Forum:

“Peace Engineering”

November 12—16, 2018 Albuquerque, New Mexico, USA

National Effective Teaching Institute

NETI 1 –August 1-3, 2018 Philadelphia, PA

NETI 2 -June 28-29, 2018 Salt Lake City, UT

Planning Ahead ... Future ASEE Meetings:

2019 – Tampa, FL 2020– Montreal, Quebec

2021 – Long Beach, CA 2022– Minneapolis, MN

Message from the Chair: *(continued)*

New this year will be a joint Postcard session with our friends from the Design in Engineering Education Division at 3:15 pm on Tuesday. All FPD members are encouraged to attend the Division's Business Meeting at 5:00 pm Tuesday; it's a great opportunity to become more involved with FPD, plus we'll be electing our newest Board Members at this meeting. Our Dinner and Social will be held afterwards on the campus of the University of Utah; I'd like to thank Debra Mascaro for her help with making the on-site arrangements. Tickets for this event can be purchased either through the Online Session Locator or on-site at the Registration desk. Also, please consider attending FPD's closing session at 11:30 am Wednesday; this is where we have an opportunity to discuss the 2018 Conference and obtain feedback on ways to improve our sessions for 2019.

Please note that there's still time to register for the 10th Annual First Year Engineering Experience (FYEE) Conference, which is being hosted by Rowan University in Glassboro, New Jersey, on July 25-26. FYEE represents a unique opportunity to better understand the complexities associated with educating first-year engineering students. Through combinations of workshops and technical sessions, conference attendees are encouraged to share best practices and innovative ideas for changing the face of how first-year engineering education is done. The First-Year Programs Division is proud to be a sponsor of FYEE.

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Message from the Chair: *(continued)*

Finally, some of you might have noticed a subtle change to FPD's logo – it now features a shade of blue that compliments the blue shades in ASEE's logo, thereby providing a stronger visual connection to ASEE. Thanks goes to Mara Knott for the suggestion, former FPD chair Chris Rowe for finding us the original graphics file, and ASEE's Creative Director of Art and Production, Nico Nittoli, for performing the update.

The heart, passion, and commitment that we all have for improving and enhancing the first-year engineering education experience will again be evident at this year's Annual Conference. It's been a privilege to work with many of you over the past couple of years and to have served as chair of such an energetic and impactful division. I'm looking forward to seeing all of you in Salt Lake City!

Sincerely,

John K. Estell

2017-2018 First-Year Programs Division
Division Chair





Please join us for the First-Year Programs Division Social on Tuesday, June 26th immediately following the First-Year Programs Division Business Meeting.

There will be transportation from the Conference Center to / from the University of Utah in the Warnock Engineering Building (atrium).

Food and beverages included in the ticket price (\$30 in advance / \$40 on-site).

6:30-8:30 pm



2017 ASEE Awards Presentation Recap: *Below are some of the people who shined in 2017!*

2017 Best Paper Awards

- *1st Place:* “Incorporation of Ethics and Societal Impact Issues into First Year Engineering Courses: Results of a National Survey” by Angela R Bielefeldt, Madeline Polmear, Daniel Knight, Nathan E Canney, and Chris Swan.
- *2nd Place:* “Integrating Theory and Hands-On Practice Using Underwater Robotics in a Multidisciplinary Introductory Engineering Course” by Nancy K Lape, Lori Bassman, Christopher Clark, Albert Dato, Angela Lee, Matthew Spencer, Erik Spjut, and Laura Palucki Blake.

2017 Distinguished Service Award

- **Sue Freeman**, (Northeastern University) for outstanding leadership of the First-Year Programs Division.

2017 Best Presentation Awards

- *Best Presentation:* “Integrating Theory and Hands-On Practice Using Underwater Robotics in a Multidisciplinary Introductory Engineering Course” by Nancy K. Lape, Lori Bassman, Christopher Clark, Albert Dato, Angela Lee, Matthew Spencer, Erik Spjut, and Laura Palucki Blake. Presented by Nancy Lape.
- *Best Student Presentation:* “Classroom Belonging and Student Performance in the Introductory Engineering Classroom” by Mark Schar, Sophia Lerner Pink, Kayla Powers, Adrian Piedra, Shivani Alexandra Torres, Kai Jun Chew, and Sheri Sheppard. Presented by Sophia Pink.

Who’s Who on the Board and Committees for 2017-2018:

John Estell, Ohio Northern University
Division Chair

Kerry Meyers, University of Notre Dame
Vice Chair, Program Chair

P.K. Imbrie, University of Cincinnati
Past Chair, Nominating Committee Chair

Rachel McCord, University of Tennessee
Vice Chair Elect, Program Chair-Elect

Greg Bucks, University of Cincinnati
Executive Board Member-at-Large

Mara Knott, Virginia Tech
Treasurer

Scott Moor, Indiana University, Fort Wayne
Historian

Krista Kecskemety, The Ohio State University
Executive Board Member-at-Large

Dan Bundy, University of Pittsburgh
FYEE Webmaster

Kaitlin Mallouk, Rowan University
Secretary

Please contact P.K. Imbrie if you are interested in getting involved! We are electing 2 E-Board Members-at-Large, Secretary / Treasurer, & FYEE Program Chairs.

Robin Hensel, West Virginia University
Executive Board Member-at-Large

Rich Whalen, Northeastern University
Newsletter Editor

Jack Bringardner, New York University
Division Webmaster

Patricia Ralston, University of Louisville
Executive Board Member-at-Large

How
about
you?

FPD Conference Program

[M327·First-year Programs Division: Best Papers](#)

Technical · First-Year Programs Division

Mon. June 25, 2018 11:30 AM to 1:00 PM

Room 254 B, Convention Center - Salt Palace

Session Description: This session includes the five papers considered for the division award. The winner and finalists will be announced during the session.

[M427A·First-year Programs Division: Student Success](#)

Technical · First-Year Programs Division

Mon. June 25, 2018 1:30 PM to 3:00 PM

Salon J, HQ Hotel - Marriott at City Creek

Session Description: Five evidence-based practice papers related to student success, including summer programs.

[M427B·First-year Programs Division: Online Learning](#)

Technical · First-Year Programs Division

Mon. June 25, 2018 1:30 PM to 3:00 PM

Room 257 B, Convention Center - Salt Palace

Session Description: Five full papers will be presented that relate to online learning (flipped classroom, blended classroom, MOOCs).

[T127A·First-year Programs Division: Collection](#)

Technical · First-Year Programs Division

Tue. June 26, 2018 8:00 AM to 9:30 AM

Salon J, HQ Hotel - Marriott at City Creek

Session Description: Full paper presentations related to a variety of first-year engineering topics.

[T127B·First-year Programs Division: Self Efficacy](#)

Technical · First-Year Programs Division

Tue. June 26, 2018 8:00 AM to 9:30 AM

Room 257 A, Convention Center - Salt Palace

Session Description: Five full papers presented on topics related to self-concept and efficacy.

[T327·First-Year Programs Division Poster Session](#)

Poster · First-Year Programs Division

Tue. June 26, 2018 11:30 AM to 1:00 PM

Exhibit Hall A B & C, Convention Center - Salt Palace

[T427A·First-Year Programs Division - Visualization and Mathematics](#)

Technical · First-Year Programs Division and Mathematics Division

Tue. June 26, 2018 1:30 PM to 3:00 PM

Room 155 B, Convention Center - Salt Palace

Session Description: Full paper presentations - mathematics, concept maps, free body diagrams, spatial visualization

[T427B·First-year Programs Division: Design](#)

Technical · First-Year Programs Division

Tue. June 26, 2018 1:30 PM to 3:00 PM

Room 155 D, Convention Center - Salt Palace

Session Description: This technical session includes five full paper presentations on topics related to first-year engineering design.

[T527A·First-year Programs Division: Retention](#)

Technical · First-Year Programs Division

Tue. June 26, 2018 3:15 PM to 4:45 PM

Room 151 A, Convention Center - Salt Palace

Session Description: This session includes five full paper presentations related to retention.

[T527B·FPD and DEEDs Joint Postcard Sessions](#)

Technical · First-Year Programs Division and Design in Engineering Education Division

Tue. June 26, 2018 3:15 PM to 4:45 PM

Salon F, HQ Hotel - Marriott at City Creek

Session Description: FPD and DEEDs joint Postcard session. Eight to 10 mini-presentations followed by interactive discussions with individual authors related to engineering design in the first year.

[T627·First-Year Programs Division Business Meeting](#)

Business · First-Year Programs Division

Tue. June 26, 2018 5:00 PM to 6:00 PM

Salon B, HQ Hotel - Marriott at City Creek

Session Description: This is the First-Year Program Division (FPD) business meeting; all FPD members are encouraged to attend. Division business (e.g. elections) occurs during this session and opportunities to become more involved in the division are provided.

[T727·First-Year Program Division Dinner & Social](#)

Social · First-Year Programs Division

Tue. June 26, 2018 6:30 PM to 8:30 PM

The University of Utah

Warnock Engineering Building (atrium)

Session Description: Join the First-Year Programs Division members for a dinner and social (transportation provided). **Ticketed event: \$30.00 advanced registration and \$40.00 on site registration**

[W127·First-year Programs Division Postcard Session 2: Identity and Sense of Belonging](#)

Technical · First-Year Programs Division

Wed. June 27, 2018 8:00 AM to 9:30 AM

Room 254 B, Convention Center - Salt Palace

Session Description: Seven mini-presentations followed by interactive discussions with individual authors of work-in-progress papers related to engineering identity and senses of belonging.

[W127B·First-year Programs Division Postcard Session 1: Retention and Student Success Strategies](#)

Technical · First-Year Programs Division

Wed. June 27, 2018 8:00 AM to 9:30 AM

Room 254 A, Convention Center - Salt Palace

Session Description: Eight mini-presentations followed by interactive discussions with individual authors of work-in-progress papers related to retention and student success strategies.

[W233·DISTINGUISHED LECTURE: Cultural Competency in Mentoring – Strategies for Connecting Across Difference](#)

Dist. Lecture · Pre-College Engineering Education Division, New Engineering Educators Division, Student Division, International Division, Women in Engineering Division, First-Year Programs Division, and Minorities in Engineering Division

Wed. June 27, 2018 9:45 AM to 11:15 AM

Room 155 A, Convention Center - Salt Palace

[W327·First-year Programs Division: Closing Session](#)

Technical · First-Year Programs Division

Wed. June 27, 2018 11:30 AM to 1:00 PM

Room 155 D, Convention Center - Salt Palace

Session Description: No papers will be presented during this session; rather it is a discussion of how ASEE 2018 has gone and discussions of ways to improve the conference.

Q: Where can I find a listing of all FPD Papers that were presented at past ASEE Conferences?

A: Head to ASEE web site and search by Division:

<http://www.asee.org/papers-and-publications/papers>

Q: What does it take to earn a Best Paper or Best Presentation Award?

A: Refer to past FPD Newsletters for Guidelines:

<http://www.asee.org/member-resources/groups/divisions>