

Industrial Engineering Division

Fall 2019 Newsletter

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2020 ASEE Annual Conference and Exposition

The Industrial Engineering Division (IED) officers encourage the current IED members to plan to attend as well as invite colleagues to the 127th ASEE Annual Conference and Exposition which will be held in Montréal, Québec, Canada, June 21-24, 2020. The division's conference theme for the year is Artificial Intelligence and Industrial Engineering Education.

The abstract review deadline for the reviewers is by **Monday, October 28**. Session, workshop, panel, and distinguished lecture requests deadlines are also on the same date. IED authors will be notified the acceptance or rejection of their abstract submissions by **Monday, November 4**. The final paper drafts will be due by **Monday, February 3** for the accepted abstracts. The blind draft paper review to the program chair from the reviewers will be by **Monday, February 24**. The authors will receive a consolidated paper-review feedback from the program chair by **Monday, March 2**. Authors will be notified the final paper acceptance or rejection decision by **Monday, March 23**, after resubmitting the blind paper with applicable requested revisions by **Monday, March 16**.

Current IED Officers

Lisa Bosman from Purdue University is the new acting secretary/treasurer for the 2019-2020 academic year. Leonardo Bedoya-Valencia is a new director replacing Jane Frasier, who will soon retire. Jessica (Matson) Oswalt agreed to continue another term as a director. Gene Dixon, the outgoing award/past division chair, retired at the end of August from East Carolina University.

The full list of the current IED officers for the year ending June 2019 is as presented below.

Division Chair:	Paul C. Lynch
Program Chair:	Ebisa Wollega
Program Chair-Elect:	Raymond Smith III
Secretary/Treasurer:	Lisa Bosman
Awards/Past Division Chair:	Justin Kile
Directors:	Rick Olson (2020)
	Tish Pohl (2020)
	Jessica (Matson) Oswalt (2021)
	Leonardo Bedoya-Valencia (2021)
Webmaster:	Lawrence Whitman
Diversity Committee Delegate	Karen Bursic

2019 ASEE Conference IED Business Meeting Summary

Twenty-two members attended the annual IED business meeting. Topics discussed include ASEE code of conduct, bylaws, affiliated divisions, conference attendance, finance, and IED papers statistics.

The Professional Interest Council I (PIC I) chair Agnieszka Miguel reported on the ongoing effort to establish the code of conduct around meeting committee policies and procedures. Development of a moderator's handbook, which describes new ethics policies, is being considered to help communicate the details of the code of conduct when finalized.

The Chair also mentioned a few points related to finances. First, a replacement for ASEE's information management system, called Monolith, is presently being investigated since the system is unable to interface with apps, accounting and registration processes. Resolving these interface requirements would greatly enhance business operations and member experience. An RFP is being developed and the documentation of processes is needed. Second, each division is requested to provide a plan regarding how they will spend their BASS account money with respect to member services, or enhanced programming (see attached letter). Attendees proposed and discussed several suggestions, such as establishing a student paper travel grant, offering a workshop for student team building, increasing the paper award amount to attract participation, and offering a travel grant aimed at new member recruitment.

The Chair also discussed the current division membership, and evaluation of ASEE PIC reorganization. As of 3/31/2019, PIC I division membership stood at 4231 members with ASEE total organization membership at 10,253 members. Past PIC I division membership has been 4204 (in 2018), 4310 (2017), and 4451 (2016). Five PIC's represent a total of 53 divisions or constituent committees - where 22 of the

divisions are associated with disciplines. For several years, requests have been made to realign some of the PIC's to better align with interests and subject matter divisions. After careful review, three reorganization scenarios have been drafted. The next step would be for the divisions to provide their evaluation and feedback on the proposals to further refine a reorganization plan (see attached letter). Membership in attendance at the meeting expressed the need to strengthen collaboration across the PIC in general.

Lastly, Christi Patton Luks was introduced as the incoming PIC I chair (2019-2022), succeeding Agnieszka Miguel. Christi is an associate teaching professor, chemical and biochemical engineering, Missouri S&T.

The IED program chair Paul C. Lynch presented the IED conference papers statistics by comparing the current year to the past three years as shown below.

	2019	2018	2017	2016
Abstracts	15	36	19	27
Drafts submitted	9	24	-	-
Draft papers rejected	0	2	2	-
No final submitted	0	1	-	-
Papers transferred	0	0	-	-
Final papers	9	21	9	16
Diversity related	2	7	2	-
Posters	0	2	1	0
Panels	0	0	1	0
Reviewer pool	31	60	63	-
Reviewers assigned	17	51	36	-

Karen Bursic, diversity committee delegate, stated in her update only 30% of the divisions submitted a diversity paper this year. The diversity committee is examining opportunities to increase visibility and future participation. Two papers for the division were identified by the review committee this year as meeting the criteria: deals with underrepresented groups or addresses different learning capabilities.

2019 Awards

IED Best Paper Award

• Aimee Ulstad and Lora Mavrouli, "Aggregating Industrial Engineering Concepts Through Cookie Manufacturing". Authors are from The Ohio State University.

IED Best Paper Award Runner-Up

• Alejandro Salado and Andrew Katz, "Monetizing Life May Be the Ethical Thing to Do". Authors are from Virginia Tech and Purdue University, respectively.

New IE Educator Outstanding Paper Award

• Omar Ashour, Christian Emmanuel Lopez, and Conrad Tucker, "An Introduction to the CLICK Approach: Leveraging Virtual Reality to Integrate the Industrial Engineering Curriculum". Authors are from Penn State Behrend (Ashour) and Penn State University (Lopez and Tucker).

Distinguished Service Award

• Letitia Pohl, University of Arkansas

Dr. Agnieszka Miguel PIC-1 Outgoing Chair American Society for Engineering Education

Dr. Christi Patton Luks PIC-1 Incoming Chair American Society for Engineering Education

Subject: ASEE Industrial Engineering Division BASS Account Spending

Dear Dr. Miguel and Dr. Luks:

Thank You for attending the ASEE Industrial Engineering Division Business meeting on Monday June 17th at the Marriott Waterside Hotel in Tampa, FL. During this meeting, you asked the Industrial Engineering Division to respond with a letter explaining how the division would spend BASS account resources moving forward. After much discussion in the Division Business meeting from members, past executive board members and current executive board members, the following recommendations were brought forward for future spending:

- (1) Continue to sponsor Annual Conference IED Travel Grants for New Attendees: \$500 per person selected
- (2) Continue to sponsor Annual IED Best Paper Award: \$250 for first author plus an engraved plaque
- (3) Continue to sponsor Annual IED New IE Educator Outstanding Paper Award: \$250 per author, up to \$500 per paper plus an engraved plaque
- (4) Continue to sponsor Annual IED Outstanding Student Paper Award: \$250 per author, up to \$500 per paper plus a certificate of recognition
- (5) Continue to sponsor IED Distinguished Service and Lifetime Achievement Awards: Engraved plaques provided for the recipients
- (6) Continue to provide IED/SED/EED/EMD joint banquet tickets for Annual IED award winners
- (7) Continue to provide food/ refreshments at the Annual IED Business meeting
- (8) Continue to provide favors/ handouts (as needed) for the Annual Conference Division Mixer
- (9) Pay ASEE Administrative Fees

Looking back at the Industrial Engineering Division financial position three years, the BASS account balance has decreased from approximately \$22,000.00 in 2016 to \$16,000.00 (after conference expenses) in 2019. The division is incurring approximately \$2000 more in expenses than it receives in revenues. Over time, the BASS account balance will continue to decrease as annual expenses are outweighing revenues. The division would like to make sure money is being spent on its members while also remaining fiscally responsible for the division to remain strong well into the future.

Sincerely,

Justin W Rilo

Dr. Justin W. Kile Outgoing Division Chair, Industrial Engineering Division, ASEE

Taul C. Tymeh

Dr. Paul C. Lynch Incoming Division Chair, Industrial Engineering Division, ASEE

Dr. Agnieszka Miguel PIC-1 Outgoing Chair American Society for Engineering Education

Dr. Christi Patton Luks PIC-1 Incoming Chair American Society for Engineering Education

Subject: ASEE Industrial Engineering Division- Potential PIC Reorganization

Dear Dr. Miguel and Dr. Luks:

Thank You for attending the ASEE Industrial Engineering Division Business meeting on Monday June 17th at the Marriott Waterside Hotel in Tampa, FL. During this meeting, you asked the Industrial Engineering Division to respond with a letter regarding how the division felt about the (3) potential PIC Reorganization scenarios that you presented to the division. The (3) potential scenarios are attached to this letter. After much discussion in the Division Business meeting from members, past executive board members and current executive board members, the following outlines the overall feel for the Potential PIC Reorganization:

- (1) Scenario RED: keeping Industrial Engineering (IED), Engineering Economy (EED), Engineering Management (EMD), and Systems Engineering (SED) in the same PIC (#4) was the overwhelming favorite. There is significant overlap in membership between these four divisions. The divisions work together throughout the year to plan division sessions for the ASEE annual conference. Each year, the four divisions come together for an annual banquet at the ASEE annual conference.
- (2) Scenario GREEN/ BLUE: there was minimal discussion regarding the difference for IED between these scenarios. The overall consensus was that IED was not in favor of scenario GREEN or BLUE.
- (3) There was some discussion regarding the size of the Educational Research and Methods Division in Scenario RED PIC (#4) when compared to the remainder of the divisions within this proposed PIC. It was noted that the PIC Reorganization committee should discuss the potential impact of such a large division in a PIC with divisions that are significantly smaller.

Sincerely,

Justin W Rilo

Dr. Justin W. Kile Outgoing Division Chair, Industrial Engineering Division, ASEE

aul C. Tymet

Dr. Paul C. Lynch Incoming Division Chair, Industrial Engineering Division, ASEE

Red Scenario

					Sum of #	
		Sum of			Published	Sum of # Technica
		Membership June		Sum of FY	Papers in	Sessions at Annua
	Divisions	2018	1	2018 - YTD	Annual 2018	2018
1		5,791	\$	81,891	284	5
Co	omputers in Education Division	408	\$	4,038	49	1
Co	omputing and Information Technology Division	874	\$	750	29	
Ele	ectrical and Computer Division	758	\$	19,891	50	
En	nergy Conversion and Conservation Division	1,150	\$	12,781	18	
En	ngineering Leadership Development Division	1,113		-	15	
	ngineering Physics and Physics Division	187	\$	7,844	11	
	trepreneurship & Engineering Innovation Division	377	\$	11,950	38	
	operimentation and Laboratory-Oriented Studies Division	312	\$	10,028	30	
	strumentation Division	131	\$	3,418	12	
	lathematics Division		\$	7,847	23	
	Artware Engineering Division	305	\$	3,344	9	
2		4,637		95,727	375	
	rchitectural Engineering Division	237	\$	237	11	
	vil Engineering Division		\$	4,814	56	
	onstruction Engineering Division	124		5,629	15	
	wironmental Engineering Division rst-Year Programs Division	327 541	\$ \$	4,066	13 61	
	ternational Division			19,316	61 38	
	ilitary and Veterans Division	218 250	\$ \$	10,522		
	linorities in Engineering Division	547	ş Ş	14,361	24	
	e-College Engineering Education Division	5 92	ş Ş	14,581	24 93	
	vo-Year College Division	389	ş Ş	19,180	93 18	
	fomen in Engineering Division	872	ې \$	1,419	35	
3		5,362	-	10,183 85,661	260	
	ological and Agricultural Engineering Division	129		9,563	7	
	omedical Engineering Division		ş	16,628	, 59	
	nemical Engineering Division		ŝ	19,840	34	
	ommunity Engagement Division	819		3,414	30	
	ngineering and Public Policy Division	198	Ş	13,680	8	
	ngineering Ethics Division	1,254		254	29	
	ngineering Libraries Division	213	\$	12,523	24	
Lib	beral Education/Engineering & Society Division	344	\$	3,049	46	
Ma	laterials Division	813	\$	6,130	13	
Те	chnological and Engineering Literacy/Philosophy of Engine	625	\$	580	10	
4		3,963	\$	100,983	289	
Ed	lucational Research and Methods Division	1,452	\$	33,761	112	
En	ngineering Economy Division	110	\$	13,663	4	
En	ngineering Management Division	241	\$	6,751	15	
Fa	aculty Development Constituent Committee Division	207			22	
Gr	raduate Studies Division	253	\$	8,260	24	
Inc	dustrial Engineering Division	239	\$	19,205	21	
Ma	lanufacturing Division	232	\$	2,692	47	
Ne	ew Engineering Educators Division	278	\$	9,527	14	
	udent Division	695	Ş	3,977	18	
	stems Engineering Division		Ş	3,147	12	
5		5,443		354,074	289	
	erospace Division	297	\$	2,876	14	
	ollege Industry Partnerships Division	523	\$	42,769	18	
	ontinuing Professional Development Division	160		49,486	10	
	poperative and Experiential Education Division	220	\$	11,690	12	
	esign in Engineering Education Division	893	\$	14,485	52	
	ngineering Design Graphics Division	167	\$	19,060	15	
	ngineering Technology Division	464	\$	176,133	51	
	lechanical Engineering Division	821	\$	29,012	51	
M	lechanics Division	303 1,389	\$ \$	8,284 275	28 33	
8.4.						
	Iultidisciplinary Engineering Division cean and Marine Division	206	\$	4	5	

Sce	nario Green					
		Sum of				
		Member			Sum of #	Sum of #
		ship			Published	Technical
		June	Su	n of FY 2018 -	Papers in	Sessions at
		2018		YTD	Annual 2018	Annual 2018
=1		4794	\$	104,929	307	54
	Aerospace Division	297	\$	2,876	14	3
	Architectural Engineering Division	237	\$	237	11	3
	Biological and Agricultural Engineering Division	129	•	9,563	7	
	Biomedical Engineering Division	491	•	16,628	5 9	6
	Chemical Engineering Division	476	•	19,840	34	6
	Civil Engineering Division	540	•	4,814	56	8
	College Industry Partnerships Division	523	•	42,769	18	3
	Community Engagement Division	819	•	3,414	30	5
	Computers in Education Division	408	•	4,038	49	10
	Computing and Information Technology Division	874		750	29	8
2	Construction Facility Division	5232 124		194,126	296 15	61
	Construction Engineering Division Continuing Professional Development Division	124	•	5,629 49,486	10	5 2
	Cooperative and Experiential Education Division	220		49,480 11,690	10	2
	Design in Engineering Education Division	893	•	14,485	52	
	Educational Research and Methods Division	1452	•	33,761	112	20
	Electrical and Computer Division	758	•	19,891	50	20
	Energy Conversion and Conservation Division	1150		12,781	18	4
	Engineering and Public Policy Division	198		13,680	8	2
	Engineering Design Graphics Division	167		19,060	15	3
	Engineering Economy Division	110	•	13,663	4	1
3		5236	\$	248,865	309	63
	Engineering Ethics Division	1254	\$	254	29	5
	Engineering Leadership Development Division	1113	\$	-	15	3
	Engineering Libraries Division	213	\$	12,523	24	5
	Engineering Management Division	241	\$	6,751	15	3
	Engineering Physics and Physics Division	187	\$	7,844	11	3
	Engineering Technology Division	464	\$	176,133	51	11
	Entrepreneurship & Engineering Innovation Division	377	•	11,950	38	8
	Environmental Engineering Division	327		4,066	13	3
	Experimentation and Laboratory-Oriented Studies Division	312	\$	10,028	30	5
	Faculty Development Constituent Committee Division	207			22	5
	First-Year Programs Division	541		19,316	61	12
4		3530	•	98,419	303	63
	Graduate Studies Division	253	•	8,260	24	5
	Industrial Engineering Division	239	•	19,205	21	4
	Instrumentation Division International Division	131 218		3,418	12 38	2 6
	Liberal Education/Engineering & Society Division	344	•	10,522 3,049	46	
	Manufacturing Division	232		2,692	40	10
	Materials Division	813		6,130	13	
	Mathematics Division	176		7,847	23	4
	Mechanical Engineering Division	821		29,012	51	9
	Mechanics Division	303		8,284	28	
⊒5		6404	•	71,997	282	
	Military and Veterans Division	250	\$	-	11	
	Minorities in Engineering Division	547	\$	14,361	24	5
	Multidisciplinary Engineering Division	1389	\$	275	33	7
	New Engineering Educators Division	278	\$	9,527	14	3
	Ocean and Marine Division	206	\$	4	5	2
	Pre-College Engineering Education Division	592	\$	19,180	93	19
	Software Engineering Division	305	\$	3,344	9	2
	Student Division	69 5	\$	3,977	18	3
	Systems Engineering Division	256	\$	3,147	12	4
	Technological and Engineering Literacy/Philosophy of Engineering Division	625	\$	580	10	3
	Two-Year College Division	389	-	1,419	18	3
	Women in Engineering Division	872		16,183	35	7
Gra	nd Total	25196	\$	718,336	1497	302

Scenario Blue

1 638 104,569 403 97 Computing and Information Echnology Division 424 5 4,038 49 10 Computing and Information Echnology Division 142 5 33,761 112 20 Electrical and Computer Division 178 5 19,991 50 88 Engineering Icadeship Development Division 113 5 - 15 3 First Year Programs Division 207 22 55 5 5 3,344 9 22 Two Year College Division 376 5 9,527 14 3 2 Wear Trajneering Division 707 5 9,563 7 22 Two Year College Division 198 5 14,450 32,47 3 2 Biological and Agricultural Engineering Division 102 9,563 7 2 3 2 Biological and Agricultural Engineering Division 107 5 33 4 4 1 1 16,613	Div	isions	Sum of Membership June 2018	Sum of FY 2018 - YTD	Sum of # Published Papers in Annual 2018	
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effectional Research and Methods Division 1452 \$ 33,761 112 20 Experiencial and Computer Division 113 \$ - 5 33 Engineering Libacies Division 213 \$ 12,523 24 5 Enaulty Development Constituent Committee Division 213 \$ 19,357 14 33 Software Engineering Educators Division 206 \$ 3,344 9 7 New Engineering Educators Division 205 \$ 3,344 9 7 We Verar College Division 205 \$ 14,19 33 3 Ver Verar College Division 476 \$ 19,840 34 6 Design Engineering Division 476 \$ 19,840 34 6 Design Engineering Division 110 \$ 13,663 4 1 Engineering Division 124 \$ 30,49 46 3 Ingineering Division 124 \$ 30,49 46 3 Ingineering Division 124 \$ 30,49 46 3 Ingineering Division 127<	•					
Electrical and Computer Division 113 \$ 153 53 Engineering Leadership Development Division 213 \$ 12,523 54 55 Faculty Development Constituent Committee Division 207 22 55 First Year Programs Division 541 \$ 9,331 64 122 New Engineering Division 365 \$ 3,344 9 22 Two Year College Division 369 \$ 1,419 18 33 Software Engineering Division 120 \$ 9,563 .7 22 Biological and Agricultural Engineering Division 107 \$ 19,860 13 34 Legineering Division 105 \$ 13,863 4 14 Legineering Economy Division 110 \$ 13,663 4 14 Legineering Economy Division 105 \$ 13,863 4 14 Legineering Economy Division 377 \$ 11,050 38 88 Lagineering Economy Division 374 \$ 30,49 6 13				•		
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Engineering Libraries Division 213 \$ 12,523 24 \$ 5 Faculty Development Constituent Committee Division 207 22 \$ 5 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	•					
Faculty Development Constituent Committee Division 207 22 55 First Year Programs Division 541 5 19,316 14 33 New Engineering Educators Division 278 5 3,344 9 22 Two Year College Division 389 1,141 9 2 36 Biological and Agricultural Engineering Division 471 5 19,460 34 6 Design Engineering Division 471 5 19,460 34 6 Design Engineering Division 110 5 3,344 9 2 Engineering Division 476 5 19,440 34 6 Design Engineering Econory Division 116 5 33 14,485 52 33 Engineering Ethics Division 11254 5 254 29 55 Entrepreneurship & Engineering Division 1125 10,028 30 13 4 Solitistic Division 326 5,554 202 35 115 5<		•		•		
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2 5366 5 124,650 327 66 Biological and Agricultural Engineering Division 129 5 9,563 7 2 Biomedical Engineering Division 476 \$ 19,840 34 66 Design in Engineering Division 176 \$ 19,840 34 61 Engineering Education Division 129 \$ 13,663 4 11 Engineering Ithics Division 1275 \$ 254 29 55 Entrepreneurship & Engineering Innovation Division 377 \$ 11,950 38 88 Experimentation and Laboratory Oriented Studies Division 312 \$ 010,028 30 55 Ibtrast Idvation/Engineering Division 313 \$ 6,130 34 Architectural Engineering Division 132 \$ 5,629 15 5 Energy Conversion and Conservation Division 1150 \$ 12,781 18 4 Engineering Division 327 5,406 13 3	Software Engineering Divisio	n	305	\$ 3,344	9	2
Biological and Agricultural Engineering Division 129 \$ 9,563 7 2 Biomedical Engineering Division 491 \$ 16,628 59 66 Chemical Engineering Division 893 \$ 14,485 52 13 Engineering Icomp Division 110 \$ 13,663 4 11 Engineering Icomory Division 110 \$ 13,663 4 11 Engineering Icomory Division 1254 \$ 254 29 55 Entrepreneurship & Engineering Innovation Division 377 \$ 11,950 38 88 Experimentation and Laboratory Oriented Studies Division 344 \$ 6,130 13 4 3 4006 \$ 55,504 202 43 Architectural Engineering Division 124 \$ 5,629 15 5 Energy Conversion and Conservation Division 1150 \$ 12,781 13 3 Instrumentation Division 131 \$ 3,418 1	Two-Year College Division		389	\$ 1,419	18	3
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Engineering Design Graphics Division 167 \$ 13,663 4 13,663 4 14,673 14,1950 15,1951 14,1950 14,1450 14,150 1	Chemical Engineering Division	n	476	\$ 19,840	34	6
Engineering Economy Division 110 \$ 13,663 4 11 Engineering Ethics Division 1224 \$ 224 29 55 Entrepreneurship & Engineering Innovation Division 317 \$ 11,950 38 88 Experimentation and Laboratory-Oriented Studies Division 312 \$ 10,028 30 55 Materials Division 341 \$ 3,049 46 13 Materials Division 343 \$ 6,130 13 44 Civil Engineering Division 27 \$ 2237 11 33 Architectural Engineering Division 124 \$ 5,629 15 55 Energy Conversion and Conservation Division 1150 \$ 12,781 18 44 Engineering Division 131 \$ 3,418 12 22 Mathematics Division 131 \$ 3,418 12 22 Mathematics Division 136 \$ 4,814 5 23 Mathematics Division 136 \$ 4,864 3 3 Instrumentation Division 176 \$ 7,847 23 4 Mathematics Division				• •	52	
Engineering Ethics Division 1254 \$ 254 29 55 Entrepreneurship & Engineering Innovation Division 377 \$ 11,500 38 88 Experimentation and Laboratory-Oriented Studies Division 312 \$ 10,028 30 55 Liberal Education/Engineering & Society Division 344 \$ 3,049 46 133 Materials Division 237 237 11 33 Architectural Engineering Division 247 \$ 237 11 33 Goil Engineering Division 124 \$ 5,5504 202 48 Engineering Physics and Physics Division 1150 \$ 12,781 18 44 Engineering Physics and Physics Division 313 \$ 3,418 12 22 Mathematics Division 313 \$ 3,418 12 23 44 Mechanics Division 303 \$ 8,244 26 66 62 2 2 45 22 320 67 2 33 51 11 33 51 13 <	0 0 0 1			-		
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