

2020 ASEE WIED Business Meeting

Virtual Conference. Thu, Jun 25, 2020 at 2:00PM – 3:00PM.

Minutes taken by Pitiporn Asvapathanagul

1. **Approval of Agenda**: approved after an addition of PIC IV update.

2. **Approval of 2019 WIED Business Meeting Minutes**: approved

3. **PIC IV Update** Beth Hollaway (PIC IV Chair)

- PIC IV Chair is connecting each division to the ASEE Board of director.
- PIC IV Chair provides an update from the Board of Director to WIED and takes any feedbacks from WIED back to the Board of Director.
- PIC IV provides a 37-slide file that includes all updates.



PIC_IV_Annual
Conference Summar

- Enforce Code of Conducts through this virtual conference.
- Total of 3,263 attendees as Jun 1, which is slightly down from last year.
- Total of 1,762 papers published at this conference, which is up 8 compared to last year.
- Total of 1,423 individual authors, which is up 19 compared to last year.
- All conference contents will be available online for one year.
- Reorganization of divisions in each PIC, and all were approved by the Board of Director. WIED is in PIC IV now and continues in PIC IV. Beth will also serve as PIC IV Chair. However, the whole new PIC organization is not available yet on ASEE website, but Beth is able to share the whole new organization at this moment if anyone would like to know.
- Financial of ASEE overall with a deficit of \$267,000 in year 2020 because of short fall of 2020 conference. The ASEE receives a loan from government, which is used for staff salary and facility renting. Hence, our ASEE staffs do not have a pay cut. The loan now becomes a grant, which ASEE does not need to pay back. However, there is no final word yet- ASEE has just submitted the paperwork. The financial for the entire ASEE organization seems healthy. Nevertheless, membership can help in the future in order to improve ASEE financial.
- Board of Director now requires all field units and divisions to include diversity, equity and inclusion statement in their bylaws. This will be effect in June 2021. WIED bylaws are fine. However, bylaws needs to be updated every 5 years to the current practices.
- July 2020 will be a new communication system called ASEE Hub. It is a platform to enhance ASEE members get connected.
- Next year in July 2021 (after 2021 conference), monolith will be replaced with a new system to manage papers and arrange the conference.
- Sandra is requested to submit the name of new officers to ASEE.

4. Webmaster's Report

- WIED website including
 - i. WIED Website:
 - ii. Main Menu
 - iii. Awards
 - iv. Job Opportunities
 - v. Strategic Plan
 - vi. Research Opportunities
 - vii. WIED Minutes
 - viii. Elections
 - ix. Officers

5. WIED Volunteers

- Thank you to volunteers who helped by reviewing papers for the Annual Meeting and reviewing the nominations for WIED's awards!
- If you would like to sign-up, please click [here](#).
- If interested to be nominated for one of the board member positions, please contact Janet Callahan: callahan@mtu.edu.

6. Program Chair's Report 2019-2020

- For the 2020 conference, 45 final papers were assigned to sessions (35 in 2019, and 34 in 2018). 15 withdrew (12 in 2019, 12 in 2018).
- We had 66 people who actively reviewed (43 last year). Thank you everyone. If you'd like to review, email next year's program chair: Kristi Shryock: kshryock@tamu.edu
- We have in total 8 technical sessions (6 in 2019), most with 5 or 6 papers per session. The one poster we had was assigned to a technical session.
- Once again, we had three panels (same as last year), and cosponsored two others (details on following slide)
- The "reception" went virtual and was co-hosted as usual with MIND and PCEE.
- Panels and Panel Moderators
 - 1. Managing Dual Careers; Yuting W. Chen and Jena Shafai Asgarpoor
 - 2. Busting a Career Move? When and Why or Why Not? Adrienne Minerick and Jenna Carpenter
 - 3. Computing -- Increasing Participation of Women and Underrepresented Minorities; Linda Ott
- Cosponsored Panels
 - 1. Educating Inclusive Engineers: Ensuring Equity and Inclusion in the Engineering Profession – Co-sponsored with MIND
 - 2. Faculty Advancement Panel – Co-sponsored with Engineering Management
- Announcement for WIED activities on Friday June 26, 2020 10:40 to 11:00am.

Diane L Peters, Maryam Darbeheshti, Karinna M Vernaza, Alexa N. Rihana Abdallah, Christina Remucal, Stephanie G Wettstein, and Gloria Guohua Ma	How Students View the Role of Faculty Advisors in the SWE Organization
Andrea Nana Ofori-Boadu, Victor Ofori-Boadu, Jacob Randall Vanderpool, and Dongyang Deng	Nascent Professional Identity Development in Freshman Architecture, Engineering, and Construction Women
Anu OstaAnu Osta, Jennifer Kadowec, Alissa Papernik, and Amanda Ferreira Dias-Liebold	Work in Progress: Studying the Factors Affecting Women Recruitment and Retention in Engineering
Weihui Li, Lili Ma, Jiahui Song, Douglas Eric Dow, and Gloria Guohua Ma	STEM Program for Female High School Students
Jiahui Song, Douglas Eric Dow, Gloria Guohua Ma, and James R McCusker	Girl Scouts STEM Day Program
Litany H Lineberry and Sarah B. Lee	Dance-a-Bit: Integrating Dance with Teaching Algorithmic Thinking

- Announcement for WIED activities on Friday June 26, 2020 11:20 to 11:40am.

Shawn Fagan	A Phenomenological Exploration of Women's Lived Experiences and Factors that Influence their Choice and Persistence in Engineering
Maureen Smith, Jinny Rhee, and Belle Wei	Women in Engineering: Promoting Identity Exploration and Professional Development
Agnes Germaine d'Entremont, Kerry Greer, and Katherine A. Lyon	Does Adding 'Helping Disciplines' to Engineering Schools Contribute to Gender Parity?
Courtney Green	Exploring the Educational Experiences of Women Who Persisted in Engineering: A Qualitative Case Study
Lourdes A. Medina, Saylisse Davila, Olga Beatriz Rivera, Nolgie Oquendo, and Maria Velazquez	Developing a Meta-Model of Critical Factors for Females in STEM with Application to a Minority-serving Institution

- WIED Accounts balance as 3/31/2020 of **\$28,034.00**

PIC IV: Division BASS Accounts, 3/31/20



Account Name	BASS Acct No.	FY 2016 9/30/2016 Balance	FY 2017 9/30/2017 Balance	FY 2018 9/30/2018 Balance	FY 2019 9/30/2019 Balance	FY 2020 3/31/2020 Balance
PIC IV						\$ -
Computers in Engineering Education Division	209	4,649	3,171	4,696	6,253	\$ 7,323
Educational Research and Methods Division	226	42,519	32,386	5,746	12,768	\$ 15,443
Engineering Libraries Division	220	7,476	11,756	14,939	11,415	\$ 10,286
DELOS Division	214	10,131	9,979	8,847	9,679	\$ 10,414
Graduate Studies Division	233	7,092	7,836	7,523	7,842	\$ 8,466
International Division	239	9,776	10,186	9,499	8,957	\$ 9,495
Minorities in Engineering Division	248	12,325	13,569	26,249	28,296	\$ 29,718
New Engineering Educators Division	252	10,361	9,222	8,812	7,790	\$ 8,317
Women in Engineering Division	268	13,972	15,000	25,093	25,327	\$ 28,034
Entrepreneurship Division	230	13,053	11,344	10,719	10,778	\$ 11,661
K12 & Pre-College Engineering Division	240	22,294	18,999	16,315	22,900	\$ 20,237
Engineering Ethics Division	221	-	-	217	220	\$ 1,393
Faculty Development Division	272	-	-	390	1,029	\$ 1,732
Student Division	264	307	677	2,072	511	\$ 1,213
PIC IV TOTALS		153,954	144,124	141,116	153,763	163,732

7. Honors & Recognitions

- Honor roll

- i. Please let us know about honors, promotions, and recognitions that members have received.
 - ii. Self-report or report for someone else.
 - iii. Send an email to our webmaster: Bethany Brinkman: bbrinkman@sbcc.edu
 - iv. Contributions will go on the “Honor Roll” section on the website.
- 2020 Mara Wasburn Early Engineering Education Grant Award
- Faculty Awardees**
- i. Dr. Rachel Childers-The University of Oklahoma
 - ii. Dr. Catherine McGough -Minnesota State University
 - iii. Dr. Anna Tarakanova -University of Connecticut

Student Awardees

- i. Erica Comber - Carnegie Mellon University
- ii. Megan Levis - University of Notre Dame
- iii. Amanda Johnston - Purdue University

8. WIED's Best Paper Recap

2020 Denise D. Denton Best Paper Award

“Gendered Professional Role Confidence and Persistence of Artificial Intelligence and Machine Learning Students”

Authors: Alison Olechowski and Kimberly Ren

University of Toronto

Results:

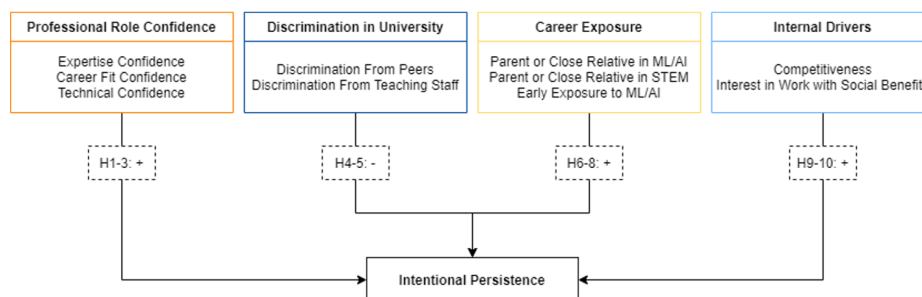
- Career Fit Confidence & Expertise Confidence found to be significant **positive predictors** of intentional persistence in ML/AI engineering.
- Discrimination from Teaching Staff found to be a significant **negative predictor** of intentional persistence **for women** in general engineering.

“Gendered Professional Role Confidence and Persistence of Artificial Intelligence and Machine Learning Students”

Authors: Alison Olechowski and Kimberly Ren



Summary of Hypotheses



9. WIED's Best Diversity Paper Recap

2020 WIED Best Diversity Paper

“Interventions in Faculty Recruiting, Screening, and Hiring Processes Enable Greater Engineering Faculty Diversity”

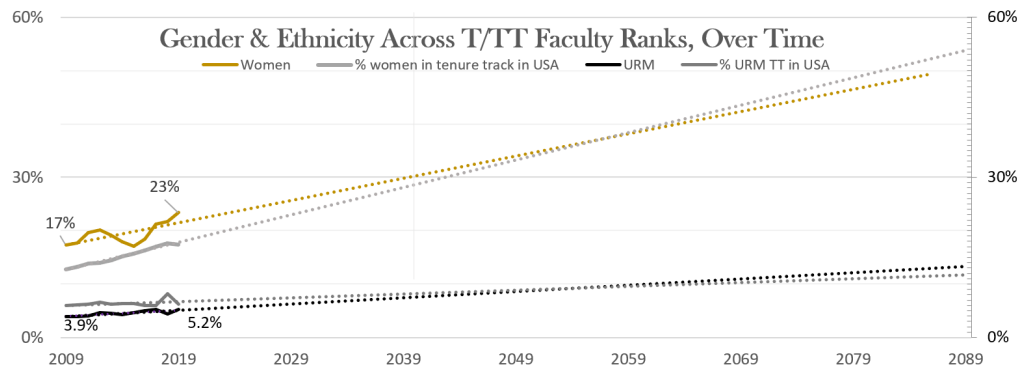
Authors: Robyn Sandekian, Joann Silverstein, and Beverly Louie

University of Colorado, Boulder

Results: What's Needed? *Move the curve: Exponential increase through DEI-focused hiring!!*

“Interventions in Faculty Recruiting, Screening, and Hiring Processes Enable Greater Engineering Faculty Diversity”

Authors: Robyn Sandekian, Joann Silverstein, and Beverly Louie



10. Election Results

- Brian Kirkmeyer – Program Chair Elect
- Idalis Villanueva – Secretary
- Jessica Perez– Director at Large
- Krystel Castillo – Assistant Webmaster
- Outgoing WIED officers
 - i. Beena Sukumaran
 - ii. Pitiporn Asvapathanagul
 - iii. Panadda Marayong
 - iv. Claire McCullough
- 2020-2021 WIED officers
 - i. Sandra Eksioglu – Past Chair
 - ii. Janet Callahan – Chair
 - iii. Kristi Shryock – Program Chair

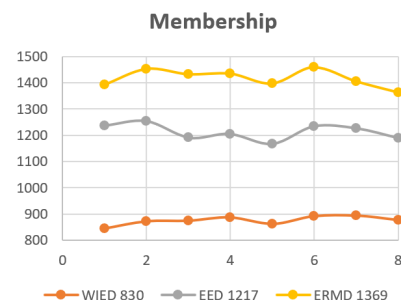
- iv. Brian Kirkmeyer – Program Chair Elect (**Newly Elected**)
- v. Angela Lueking – Treasurer
- vi. Idalis Villanueva – Secretary (**Newly Elected**)
- vii. Lily Gossage – Director of Awards
- viii. Jenahvive K. Morgan – Director of Positions
- ix. Bethany Brinkman – Webmaster
- x. Malini Natarajarathinam – Director at Large
- xi. Jessica Perez– Director at Large (**Newly Elected**)
- xii. Krystel Castillo – Assistant Webmaster (**Newly Elected**)

11. Membership

- o All division in PIC IV membership is displayed below. WIED is ranked as the 3rd. The WIED memberships are maintained stably even during CoVID 19 pandemic (3/30/2020) when compared to the other two high memberships (EED and ERMD division)

PIC IV: Division Membership, 3/30/20

PIC IV Membership	Jan-18	Jun-18	Oct-18	Jan-19	Mar-19	Oct-19	FY20-Q1	FY20-Q2
Computers in Education	429	423	408	379	382	364	386	354
Educational Research and Methods	1369	1392	1452	1432	1435	1397	1459	1405
Engineering Ethics	1217	1236	1254	1191	1205	1168	1235	1227
Engineering Libraries	212	206	213	213	214	216	230	227
Entrepreneurship & Engineering Innovation	391	389	377	388	393	388	405	380
Equity, Culture & Social Justice in Education								
Experimentation and Lab.-Oriented Studies	340	338	312	290	280	268	277	264
Faculty Development		48	207	294	310	297	301	258
Graduate Studies	256	248	253	254	249	242	252	245
International	223	220	218	209	202	196	203	208
Minorities in Engineering	508	524	547	533	540	530	553	549
New Engineering Educators	281	283	278	280	268	252	260	251
Pre-College Engineering Education	578	578	592	567	560	528	553	513
Student	685	688	695	607	688	671	747	742
Women in Engineering	830	845	872	874	887	862	892	894
Total PIC IV Members	7319	7418	7678	7511	7613	7379	7753	7517



12. Adjourn

See You in Long Beach, California 2021