





#### FROM THE DIRECTOR



Beth M. Holloway, PhD

Assistant Dean for Diversity and Engagement Leah H. Jamieson Director of Women in Engineering Assistant Professor, Mechanical Engineering (by courtesy) College of Engineering Welcome to the Women in Engineering Program's 50th Anniversary Edition of its Annual Report. Because of my alumna ties to Purdue Engineering, it is a special honor to be the Director of the Women in Engineering Program. It is even more special to be the Leah H. Jamieson Director of Women in Engineering, and hard to describe how it feels to be the lucky director who is here during the program's 50th year.

We've come a long way in the last 50 years, and even farther when you think back to our first female engineering graduate – Martha Dicks Stevens in Civil Engineering in 1897. The first female faculty member in engineering was Dr. Lillian Gilbreth, who started in 1935, and Amelia Earhart advised women students from 1935 – 1937. The first mother/daughter pair (Georgene Laub and Roberta Sahlin) graduated in 1952 and 1972, respectively. To date, there have only been about 55 mother/daughter pairs that have graduated from Purdue Engineering, out of almost 100,000 engineering alums. There's still work to do, and the Women in Engineering program is committed. In the Fall of 2019, almost 26% of all engineering students on campus (undergraduate and graduate) are women – that's 3,490. That compares to the 47 undergraduate women who were studying engineering when the program was created – again, we've come a long way.

These types of numbers and successes can only be attributed to a whole ecosystem of student support and commitment to student success. It's bigger than the Women in Engineering program, and includes the College, the engineering schools, divisions and programs, student support staff, and student-based initiatives and organizations.

I would be remiss if I didn't highlight that 2019 also marks the 65th anniversary of the Purdue student section of the Society of Women Engineers. The Purdue section was chartered in 1954, and is the oldest continuously chartered section in the country. Currently, there are over 700 Purdue SWE members, and it's my honor to be their advisor.

The Women in Engineering Program wouldn't be what it is today without the partnerships we've maintained with alums, friends, and corporations. The program continues to rely on all of them and you for contributions of time and financial support. Whether you have supported us as an individual, or have been an advocate within your company to forge a corporate partnership (or both), I thank you. Partnerships are a cornerstone of the program, and we couldn't achieve our goals without them. And you.

Beth M. Holloway

Boiler Up!

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Individual Donations - Lifetime

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## MISSION

The Women in Engineering Program at Purdue University is dedicated to enriching the profession of engineering through the full participation of women. We develop and direct activities that provide:

- → encouragement for girls and young women to study engineering,
- → information about careers and companies, and
- A an environment conducive to the successful completion of students' studies.

We also strive to maintain strong relationships with alumnae, friends, corporations, and foundations who generously support our program.

## OBJECTIVES

- Provide career information and encouragement to pre-college girls and young women to continue achievement in math and science and consider engineering as an appropriate career choice.
- Encourage women to matriculate at Purdue University in the College of Engineering.
- Ensure a climate in the College of Engineering that allows young women to reach their full potential.
- Provide opportunities for women engineering students to develop leadership skills that can be utilized in their future lives.
- Encourage women to consider graduate education and academia among their options upon graduation.
- Maintain open communication with alumnae and their employers to encourage their continued participation in and support of the Women in Engineering Program.

## **SINCE 1969**

Purdue's Women in Engineering Program has been committed to increasing the recruitment, retention, and graduation of women engineering students. Each year, we reach out to support and inform more than 4,000 girls and young women – from elementary to graduate school.

#### ENROLLMENT OF UNDERGRADUATE WOMEN IN ENGINEERING FALL 2018

Aero & Astro	13%
Ag & Bio	52%
Biomedical	47%
Chemical	40%
Civil	28%
Construction	22%
Elect & Computer	16%
Envir & Ecological	62%
First Year	27%
Industrial	31%
Inter/Multidisciplinary	44%
Materials	38%
Mechanical	17%
Nuclear	21%

26%

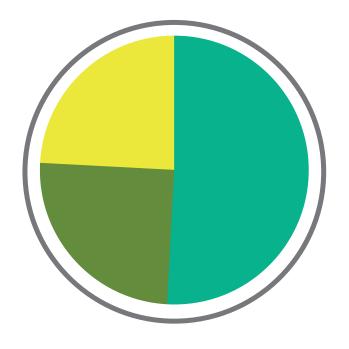
total enrollment of women fall 2018 in undergraduate studies in the College of Engineering

#### ENROLLMENT OF GRADUATE WOMEN IN ENGINEERING FALL 2018

Aero & Astro	17%
Ag & Bio	36%
Biomedical	48%
Chemical	31%
Civil	28%
Elect & Computer	19%
Envir & Ecological	51%
Engr Education	51%
Industrial	31%
Interdisciplinary	24%
Materials	31%
Mechanical	14%
Nuclear	23%

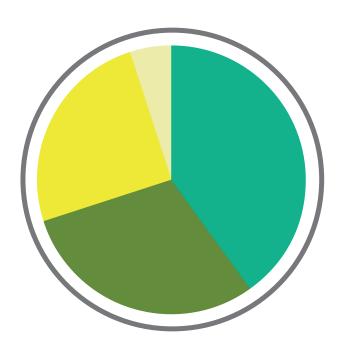
24%

total enrollment of women fall 2018 in graduate studies in the College of Engineering









## **EXPENSES 2018-19**

Pre-College Outreach	40%
Retention	30%
	. = 0 /
Recruiting	25%
Program Administration	.5%

The Women in Engineering Program could not achieve its mission to enrich the profession of engineering through the full participation of women without the generous support of our donors. If you would like to make a contribution, please go to giving.purdue.edu or contact Claire Chandler at 765.494.6383 or cechandler@prf.org.



Women in Engineering Program COLLEGE OF ENGINEERING

## **OUTREACH AND RECRUITMENT ACTIVITIES**









#### > ACCESS ENGINEERING

Access Engineering is a community engagement initiative within WIEP, where we partner with local programs that host students in K – 8th grade summer residential or day camps. Current undergraduate and graduate engineering students bring hands-on engineering activities to campers, discuss engineering in an engaging and relevant way, facilitate activities, and serve as role models. Pre-service teachers serve as team coordinators which research has shown increases their confidence in teaching engineering principles. As a part of Access Engineering, we participated in Grandparents University, an annual event hosted by Purdue Conferences and the Purdue Alumni Association. The Access Engineering team worked with 52 3rd – 7th graders and their grandparents across 4 sessions. In 2019 the Access Engineering Team work with approximately 1500 elementary students; 55% were girls and 25% were minorities underrepresented in engineering.

Sponsored this year by the Motorola Solutions Foundation, the Martinson Family Foundation, and the Triumph Group Foundation.

#### > IMAGINATION, INNOVATION, DISCOVERY, AND DESIGN (12D2)

The Imagination, Innovation, Discovery, and Design (I2D2) program is an after-school academic year program for students in 1st – 6th grade. This early exposure to engineering disciplines helps to increase the potential of students to consider engineering as a career. WIEP partners with afterschool programs in the Greater Lafayette community to bring our role models and activities to 21 afterschool program sites. We have expanded to include weekend and evening events at the invitation of areas schools, Girl Scouts, and other state-wide events which engage both parents and their children. The activities give 1st – 6th grade students the opportunity to work together, solve problems, test prototypes, and redesign for better solutions. These activities allow the students

to explore different fields of engineering and to understand a broader range of engineering options. This year the I2D2 team of 39 trained female engineering student role models engaged over 1200 participants in hands-on activities designed to show the creativity, teamwork, and social relevance of an engineering career.

Sponsored this year by the Motorola Solutions Foundation, and the Triumph Group Foundation.

#### > INNOVATION TO REALITY (12R)

I2R is an after-school program for 6th – 8th graders. Two themed four-week sessions met once a week on-campus and culminated in a team-based presentation to parents. Themes were chosen to reflect the Grand Challenges of Engineering and were based on Purdue research. The 2018 – 19 themes were Engineering Efficiency in Transportation and Engineering Creative Life Solutions for Those with Differing Abilities. There were almost 80 students who participated. We partnered with an EPICS team of current engineering students to plan and implement the activities for the fall session.

Sponsored this year by the Motorola Solutions Foundation, and the Triumph Group Foundation.

## > ENGINEERING FOR YOUR IMAGINATION (FYI)

FYI is a one-day, on-campus summer program to inspire rising 7th – 9th grade students to consider engineering by showing the positive impact that engineers have on people and the world. Overall, 121 participants rotated through three hands-on engineering activities facilitated by Purdue engineering faculty and students. Current engineering students acted as mentors and role models, facilitating small group interaction, guiding the participants throughout the day, eating lunch with the participants, and exchanging contact information to stay in touch after the event.

## **OUTREACH AND RECRUITMENT ACTIVITIES**

Simultaneous programming was offered for parents of FYI participants to assist them in encouraging their students' interest in and preparation for engineering. These sessions introduced appropriate messages and resources, provided the opportunity for parents to meet current engineering students running the handson activities, and to participate in the activities themselves.

Sponsored this year by the Motorola Solutions Foundation, and the Triumph Group Foundation.

#### > INTRODUCE A GIRL TO ENGINEERING DAY(IGED)

Introduce a Girl to Engineering Day is an annual daylong event held in February in conjunction with National Engineers' Week. The 9th and 10th grade participants learn about engineering through engaging hands-on activities and interactions with current female engineering students and faculty. Undergraduate and graduate women in engineering volunteer to be a mentor to 2 – 3 participants or to lead/assist with hands-on activities related to each of the engineering disciplines represented at Purdue. Purdue faculty and staff also develop and present activities, and female engineers from the IGED corporate sponsor, Caterpillar, share with the participants what it is like to be an engineer making a difference in the world. In addition to attending three hands-on engineering activity sessions of their choice, participants also enjoy a lunch in the Purdue dining courts with their mentors. In the morning, we also offer a Parent Session with WIEP staff and Caterpillar engineers available to present information and answer questions about encouraging their daughters' interest in engineering through appropriate messaging. There were 163 high school participants in the program this year.

Sponsored this year by Caterpillar Foundation.

#### > EXPLORING ENGINEERING AT PURDUE

High school juniors and seniors and their parents and teachers are invited to Purdue for a day each fall and spring. The prospective students are exposed to the College of Engineering at Purdue, and have the opportunity to learn more about two types of engineering from professors and graduate students. They participate in a question-and-answer session with current women engineering students and hear from a panel of Purdue engineering alumnae. There are also campus tours, lunch with a keynote speaker, and sessions about EPICS, global, co-operative education, and honors opportunities. About 100 current student volunteers are needed

to make each daylong program successful. There were 223 high school seniors who attended in the fall, and 261 high school juniors who attended the program in the spring. Across both events, 638 parents also attended.

Sponsored this year by ExxonMobil, the General Motors Foundation, Northrop Grumman, and Phillips 66.

#### > WE LINK

The WE Link Leadership Team, made up of undergraduate engineering students, aims to reach out to prospective engineering students in high school and to serve as their connection to Purdue. WE Link focuses on activities that help young women interested in engineering learn more about life as a female engineering student at Purdue by discussing residential hall life, typical classes for engineering students, internships, co-ops, study abroad, and other experiences Purdue students have. The team curates a blog for prospective students to learn more about the engineering experience at Purdue (www.purduewiep.blogsspot.com), a Twitter account (@PurdueWIEP - Follow Us!), and an Instagram account (@purduewiep). Young women admitted to the College of Engineering also receive a handwritten postcard from a current student.

Sponsored this year by Deere & Co., and the General Motors Foundation.



Meet the WE Link Leadership Team Fall 2019 – Spring 2020 Front row (left to right) JT, Madeline; Back row (left to right) Marisa, Megan, Brittany, and Kat

## **UNDERGRADUATE AND GRADUATE RETENTION ACTIVITIES**







Access Alum is an initiative in which we offer alums planning to come to campus an opportunity to have informal chats with our undergraduate and graduate women in engineering. The 1 1/2 – 2-hour sessions are intended for students to network with alums, ask questions, have a resume reviewed, and learn more about industry, government, and academic positions. Forty-eight alums and 565 students took advantage of the opportunity this year.

Sponsored this year by Bechtel Corporation.

#### > ENGR 194. WOMEN IN ENGINEERING SEMINAR

First-year students can choose to take this one-credit course which utilizes dynamic alumnae to inspire, motivate, and reinforce the students' career choices. Students hear presentations from a variety of engineering alumnae who talk about their career choices, their daily routines on the job, and their challenges and successes in their professions as well as in their personal lives. Speakers range from recent graduates to well established corporate executives. The seminar speakers act as energizing role models, and through a series of lunches with the speakers, students learn networking skills. There were 204 students in the Fall 2018 class.

Sponsored this year by Deere & Co., and the General Motors Foundation.

#### > ENGR 494. GENDER IN THE WORKPLACE

This course, developed and first offered by WIEP in the 2015 spring semester, provides junior and senior engineering students an opportunity to maximize their opportunities and retention within engineering or related fields. The goals for the course are for students to become aware of and discuss solutions for internal and external barriers which can prevent women from reaching their greatest potential in the workforce; enhance





professional development and transition skills required to move successfully from an academic to professional environment; and acquire skills and knowledge to serve as engineering role models/ambassadors for diverse populations. The class meets weekly in a small-group discussion format. In spring 2018, an Executive in Residence (EIR) was added to the course. The addition of an EIR, a highly accomplished industry leader, enhances the classroom discussions by sharing real-life situations and brainstorming resolutions. The EIR attends class 4 times during the semester where she leads class discussions around the topics the students have read and discussed. There were 17 students in the Spring 2019 class.

Sponsored this year by the Martinson Family Foundation.

## > M&M: MENTORS & MENTEES, UNDERGRADUATE MENTORING PROGRAM

The Women in Engineering Mentees & Mentors (M&M) Program began in 1992 and has since impacted thousands of female undergraduate engineering students. M&M is designed to provide support, affirmation, and helpful strategies to the participants through dynamic and nurturing programming. The goals of the program are three-fold: (1) to enhance personal support of students through contact with female role models and an interactive, mutually-beneficial peer mentoring program, (2) to build confidence in students through affirmation of their skills and values, and (3) to share effective strategies that enable students to thrive in college, leading to successful completion of their engineering education and preparing them for future endeavors. We achieve these goals by offering two distinct programs. The M&M Pair Program matches incoming students with an upperclass student for one-on-one mentoring. The M&M Group Program is designed around a network mentoring model in which individiuals take on the role of mentor

## **UNDERGRADUATE AND GRADUATE RETENTION ACTIVITIES**





depending upon their knowledge of and experiences with a particular situation, regardless of age or time at Purdue.

For 2018 – 19, 329 undergraduates participated in the mentoring program, and there was a 13-member student leadership team.

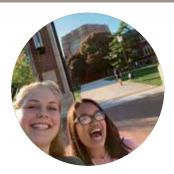
Sponsored this year by ArcelorMittal USA Inc., Boeing, and Nucor.

#### > WIEP RESIDENTIAL PROGRAM

First-year women majoring in engineering can choose to live on one of the designated engineering floors in Earhart Hall or Shreve Hall. The students who live on the engineering floors have access to female engineering mentors on an informal basis, who provide them with support and encouragement. Since engineering students share a common first-year curriculum, the women on the engineering floors are easily able to form study groups and social networks. Many of the resident assistants assigned to the engineering floors are engineering students themselves, and are able to relate to the residents academically as well as socially. In addition, the WIEP-WISP (Women in Science) tutoring center is located in Shreve Hall for the convenience of the students who live there. Participants in the WIEP Residential Program can also participate in other Purdue Engineering learning communities if the residency requirement is co-located or optional, and many of them do so. This year, 234 students live in the WIEP Residential Program.

#### > WIEP-WISP TUTORING CENTER

A free tutoring service for first-year classes, co-hosted by the Women in Engineering Program and the Women in Science Program (WISP), is offered on a walk-in basis. Women who are upperclass science and engineering majors are employed and trained as tutors. In addition to providing homework help, the tutors are seen as mentors and role models. The tutoring





service is located in Shreve Hall in the University Residences Support Center for the convenience of the women who live on the engineering floors there, but is open to all students, regardless of residence.

The 2018–19 academic year was the 22nd year of the program. For the year, 299 students used the center 1,229 different times. About 72% of the students who used the center this year were women. Math was by far the most tutored subject, with 70% of visits focusing on math tutoring.

Sponsored this year by the General Motors Foundation and Phillips 66.



#### > GRADUATE WOMEN IN ENGINEERING NETWORK (GWEN)

The Graduate Women in Engineering Network is designed to provide strategies within a supportive community for women engineering graduate students to advance personally, academically, and professionally. The program objectives are to establish an inclusive network that affirms, inspires, and supports women and gender minorities throughout their engineering graduate career; to provide opportunities to develop skills and introduce strategies for professional and personal development; and to provide an enriching experience that encourages individual growth and furthers the community of women engineers. To address these core objectives, GWEN uses twice monthly meetings that cover a range of topics to address personal and professional development. There were 118 active participants in the GWEN Program this year, and a 6-member student leadership team.

## **WOMEN IN ENGINEERING PROGRAM 50TH ANNIVERSARY CELEBRATION**









#### **1ST FEMALE ENGINEEER**

Purdue's first female engineering graduate was Martha Dick Stevens, BSCE 1897.

#### LILLIAN GILBRETH RECRUITED

President Elliot also recruited Lillian Gilbreth in 1935 as the first female engineering Professor and she became known as the "Mother of Industrial Engineering." Amelia and Lilian became fast friends while at Purdue.

#### WIEP IS ESTABLISHED

The Women in Engineering Program at Purdue University, the first of its kind in the nation, was established in 1969.

1935

1937

1946

**■1969** i

These women and

history leading to

Purdue's Women in

many others are an

important part of the

Engineering Program.

AMELIA EARHART RECRUITED

President Elliot recruited Amelia Earhart to be a counselor in careers for women and technical adviser to the Department of Aeronautics from 1935 - 1937.

#### **GILBRETH SUPPORTS PI OMICRON**

Gilbreth was at Purdue from 1935 - 48 and often visited, sharing advice with students. In 1946, Gilbreth supported the Gamma chapter of Pi Omicron, a professional society for women in engineering, which became the Society of Women Engineers in 1954.





## **WOMEN IN ENGINEERING PROGRAM:** 50 YEARS OF ENCOURAGING, SUPPORTING, CONNECTING, ENRICHING

The 50th anniversary of the Women in Engineering Program, held March 22 - 24, 2019, was rich with content from interactive workshops to dynamic speakers to a historical video depicting the program's half a century of progress. During the weekend celebration, one common theme repeatedly emerged: connections. Women of all ages and of all stages of their engineering educations and careers capitalized on the opportunity to connect with each other personally and professionally.

Plans for the golden anniversary were in the works for two years, said Beth Holloway, the Leah H. Jamieson Director of Women in Engineering Program and Assistant Dean for Diversity and Engagement. More than 200 women, including students, alumnae, faculty, and staff, enjoyed the weekend's offerings.



Jennifer DeCamp (L) shares a laugh with Kim Underhill; the Leah H. Jamieson Director of Women in Engineering Program, Beth Holloway; Claire Chandler; Erin Muphy; and Chris Barman; during the Women in Engineering Program 50th Anniversary opening reception March 22, 2019.



Engineering students and alumnae are treated with a visit from Purdue Pete during the Friday evening opening reception of the Women in Engineering Program's 50th Anniversary celebration weekend inside the Armstrong Building Atrium.

When it started in 1969, Purdue's Women in Engineering Program was the first in the nation.

"It was something that not a lot of other colleges or universities were thinking of," Holloway said. "You can see the extent of that groundbreaking thinking because, to this day, not every university has such a program, and of those that do, many were not started until the '90s."

Purdue's engineering college had 47 undergraduate women enrolled in engineering when the program started. In the fall of 2018, there were 2,442.

The Women in Engineering Program also has evolved in ways beyond its participation level.

"We have so many more resources at our disposal because of the support of our alums, corporations, foundations, and friends. The program was started with just one person; now we have a staff of six plus graduate assistants. When the program started, there was really just a focus on the current undergraduates. Now we do programming and activities for students in kindergarten through graduate school. The expanse of who we are trying to impact is so much larger," Holloway said.

During her address at the dinner, Holloway highlighted the hashtag created specifically for the 50th celebration – #be\_aWE50me.

"We can all 'be awesome' because we have a strong foundation from Purdue, and we have each other to continue to build us up. Sister to sister, mother to daughter, alum to student, peer to peer – these are the connections that make us strong, that make us resilient, that enable us to 'be awesome."

To commemorate the event, each attendee was given a poster to take home (poster shown on front cover, credit: Kate Theobald). The design highlighted New York-based photographer Paul Lange's capturing of flowers to represent Amelia Earhart and Lillian Gilbreth, both of whom hold historical importance within Purdue Engineering as women trailblazers in their respective fields. "These flowers are both peonies, the state flower of Indiana, which was a happy coincidence," Holloway said.

The full-size prints of Lange's work hang in the Women in Engineering Program front office.





(L to R): Emy Wadsworth, former Associate Director; Beth Holloway, current Director; Leah H. Jamieson, Dean Emerita, College of Engineering; Jane Zimmer Daniels, Director Emerita

"Fifty years of the Women in Engineering Program signifies visionary leadership at many levels of Purdue University and the College of Engineering. Long-term institutional, corporate, foundation, and individual commitments provided opportunities and resources to study the issues, implement programs to address those issues, and share results at the national and international levels."

## – Jane Zimmer Daniels

Women in Engineering Program Director 1980 – 2001



(L to R): Donna McKenzie, Inaugural Director; Beth Holloway, current Director; Leah H. Jamieson, Dean Emerita, College of Engineering; Jane Zimmer Daniels, Director Emerita; Marie McKee, former Director

## LEADERSHIP OF PURDUE'S WOMEN IN ENGINEERING PROGRAM

## 1969 — PRESENT

## **DONNA MCKENZIE**

First Director 1968 – 1974

## **CHRISTINE SMITH**

Director 1974 – 1978

## **MARIE MCKEE**

Director 1978 – 1979

## **KATHY FLORA**

Director 1979

## JANE ZIMMER DANIELS

Director 1980 – 2001

## **BETH M. HOLLOWAY**

Leah H. Jamieson Director of the Women in Engineering Program 2001 – Present



**ENCOURAGING SUPPORTING CONNECTING ENRICHING** 

where commitment and actions will keep advancing women engineering students, faculty, and professionals." - Mung Chiang

John A. Edwardson Dean of the College of Engineering, Roscoe H. George Distinguished Professor of Electrical and Computer Engineering

**ENCOURAGING SUPPORTING CONNECTING ENRICHING** 



#### TOTAL GIFT ABOVE \$1,000,000

Dr. John A. Edwardson, Jr. and Mrs. Francesca Maher Edwardson

#### \$500.000 - \$1.000.000

Ms. Marilyn F. Dwyer Mr. John H. Martinson Ms. Sandra L. Postel

#### \$100,000 - \$499.999

Anonymous Anonymous

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Dr. Juan Ernesto de Bedout

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Mr. Doug Upshaw and Ms. Susanne Kieselbach Upshaw

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Mr. Richard A. Vining

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Ms. Susan L. Woodling

Mrs. Anna Zimmerman

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Dr. Sue Hudson Abreu

Ms. Caitlin J. Adams

Mrs. Janet Adams Qubain and Mr. Munther Qubain

Mrs. Kimberly Adams Riddle and Mr. William G. Riddle

Mrs. Theresa L. Adams and Mr. George E. Adams, Jr.

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Mrs. Holly L. Aulen and Mr. David B. Aulen

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Ms. Elizabeth S. Ballard and Mr. Donald M. Ballard

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Mrs. Patricia J. Behrens

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