



annual report 2011-12 Purdue University



TABLE O

"I WANT TO MAKE A DIFFERENCE."

The 2011-2012 academic year brought a special thrill to our office and to the college. Last fall, 466 women started in the first-year engineering program — a 31 percent jump from a year prior, and the highest number of all time for incoming women in the college. That surge set an all-time record — 1,534, up 104 from the previous year's 1,430.

As we see continued growth in female enrollment this year, our mission in the Women in Engineering Program endures, bolstered by the impact we're having and the difference we're making.

There is a great deal that has been done to lay the groundwork for this enrollment surge. We cannot point to one main cause. And that is as it should be, because so much has been done and still continues.

I would, however, suggest that we marked a crucial turning point when in 2008 the National Academy of Engineering recommended "Changing the Conversation: Messages for Improving Public Understanding of Engineering." While this new approach was intended as a means to reach all young, would-be

engineers, it clearly resonated with young women with its emphasis on communicating about engineering by demonstrating how engineers make a difference in the world through solving important problems that help everyday people everywhere.

In all of the programs we plan, support and carry out — the programs you'll read about in this year's report — we bring that changed conversation and that learning experience to as many young women as possible. And with every young woman whose face shows excitement at the beginning of her journey to become a Purdue engineer, our thrill grows even greater.

Beth M. Holloway

Beth M. HollowayDirector, Women in Engineering Program

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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.
- an environment conducive to the successful completion of students' studies.

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

- To 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.

ENROLLMENT OF WOMEN IN ENGINEERING: FALL 2011

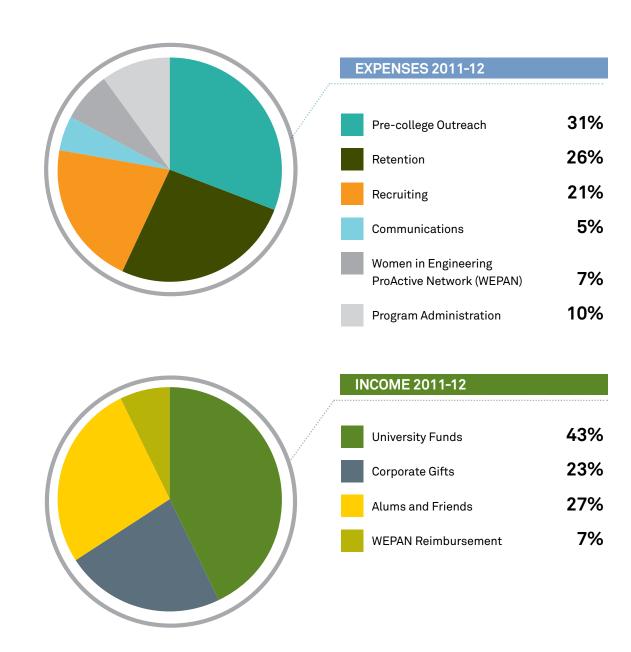
Undergraduate Graduate

Aeronautical and Astronautical	16%	15%
Agricultural and Biological	39%	30%
Biomedical	35%	30%
Chemical	30%	24%
Civil	19%	23%
Construction	17%	
Electrical and Computer	9%	13%
First-Year Engineering	23%	
Engineering Education		64%
Industrial	27%	34%
Interdisciplinary	35%	24%
Materials	26%	34%
Mechanical	15%	14%
Nuclear	12%	19%
Total	21%	20%





06 BUDGET







Since 1969, the Purdue

Women in Engineering

committed to increasing

the recruitment, retention

and graduation of women

engineering students.

to support and inform

Each year, we reach out

over 4,000 girls and young

women – from elementary school through graduate

school. Following is a brief

programs for 2011-12, with

a spotlight on three of our

programs: Introduce a Girl

to Engineering Day (IGED),

Undergraduate Mentoring

Exploring Engineering

Program: Mentees &

Mentors (M&M).

at Purdue, and the

review of our individual

Program has been











OUTREACH ACTIVITIES

IMAGINATION, INNOVATION, DISCOVERY AND DESIGN (I2D2)

I2D2 is an after-school program run throughout the academic year. It is targeted at girls and boys in kindergarten through 5th grade in the three school systems closest to Purdue. Forty-one current engineering undergraduate and graduate students engaged almost 300 participants in creative and innovative hands-on activities and discussions designed to show the creativity, teamwork and social relevance of an engineering career. The current engineering students functioned as both facilitators and role models. Twice this year the program sponsored an open house on Saturday in which young children explored hands-on engineering concepts. (Sponsored this year by Motorola Solutions Inc.)

INNOVATION TO REALITY (12R)

I2R is an after-school, on-campus program targeted at 6th -8th graders. Three themed 5-week sessions met once a week and culminated in a team-based poster presentation to parents, faculty and staff. Graduate students, undergraduate students and faculty served as content designers, facilitators and role models. Themes were chosen to reflect the Grand Challenges of Engineering and were based on Purdue research. The 2011-2012 themes were water scarcity, diabetes and natural disasters. (Sponsored this year by the Indiana Space Grant Consortium)

"Best educational extracurricular activity my daughter participated in. She enjoyed working with and learning from students, professors and other participants. She gained confidence in problem solving and feels empowered."

- PARENT OF I2R PARTICIPANT

ENGINEERING: FOR YOUR IMAGINATION (FYI)

FYI is a week-long residential or day-only camp involving rising 8th and 9th graders in hands-on engineering activities. This year's camp directed 32 campers in improving the human-made world through learning how engineers are working to develop solutions to improve society, such as cleaning up an oil spill, designing a food packaging system and optimizing a system for long term health care scheduling. The campers also worked on teambuilding and leadership skills. Purdue engineering students served as camp facilitators, mentors and role models. (Sponsored this year by Boeing Company and Motorola Solutions Inc.)

EXCITING DISCOVERIES FOR GIRLS IN ENGINEERING (EDGE)

EDGE camp is focused on students who have just completed their freshman or sophomore year in high school, and is designed to better acquaint the participants with opportunities in engineering and how their interests and talents can be utilized in this exciting career. The campers spent a week on campus learning about engineering by doing activities such as designing and prototyping a "smart" hospital gown, understanding engineers' role in natural disasters and planning emergency housing, and touring engineering laboratories. We also spent a day at Caterpillar and FedEx experiencing the engineering and research behind engines and distribution systems. Engineering is stressed as a profession that is used to solve problems that help society. (Sponsored this year by Motorola Solutions Inc.)

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 exciting handson activities and interactions with current female engineering students and faculty.

Undergraduate and graduate women in engineering can 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 sponsor, Caterpillar, share with the participants what it is like to be an engineer making a difference in the world.

Interacting with a current student mentor for the day is a unique aspect of the Purdue IGED experience for the high school students. In addition to attending two hands-on engineering activity sessions of their choice, participants also enjoy a lunch in the Purdue dining courts with their mentors and end the day with a panel of current undergraduate students from each major and with various leadership experiences (e.g., internships, co-ops, study abroad, etc.).

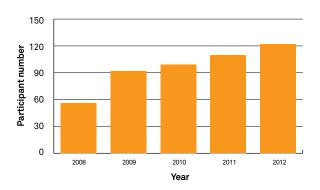
In the morning, we also offer a Parent Session with WIEP staff, current engineering undergraduate women and Caterpillar engineers available to answer questions about encouraging their daughters' interest in engineering through appropriate messaging.

Last year's participants took a survey at the conclusion of the day to provide us insight into their experience as well as feedback on how to improve our program. The participants left with a better understanding of engineering. Ninety-nine percent of participants said they would recommend this program to friends and 100 percent of parents indicated they would recommend IGED to other parents.

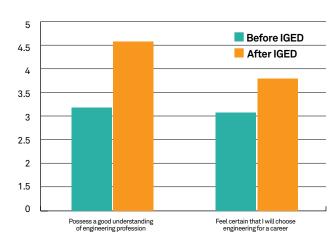
(Sponsored this year by Caterpillar Foundation)

"The best part of IGED was getting to speak to people who are doing engineering right now."

- PARTICIPANT



Participant number by year. (Note that in 2009-2011, 9-11th grade students were invited to participate. IGED was open in 2008 and 2012 to only 9-10th grade students.)



Answers on rating scale of 1-5 with 1 being completely disagree and 5 being completely agree.

1 RECRUITING ACTIVITIES

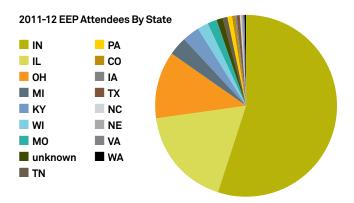
EXPLORING ENGINEERING AT PURDUE

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. During each event, Purdue faculty, staff, students and alumni show the prospective students what it could be like to be an engineering student at Purdue. The prospective students hear presentations about two disciplines of engineering from faculty and graduate students, including information about career possibilities and focus areas within the discipline. Participants also have the opportunity to ask questions of current women engineering students regarding their experiences, options and advice. Panels of Purdue women engineering alumnae talk about their jobs and experiences and answer questions about life as an engineer. There are campus tours and sessions about residence halls and financial aid. One alumnae also speaks to the participants and their parents about her engineering major decision process, college decision process, experiences at Purdue and opportunities since graduation. Participants also learn about the activities and programs that the Women in Engineering Program offers to current students. The Purdue section of the Society of Women Engineers recruits and organizes the approximately 80 student volunteers needed to make each day-long program successful.

(Sponsored this year by Air Products and Chemicals Inc., Alcoa Inc., Caterpillar Incorporated, Delphi Corporation, ExxonMobil Corporation, General Electric Company, General Motors Company and Northrop Grumman Corporation)

PERSONAL CONNECTION PROGRAM (PCP)

The goal of PCP is to create a "personal connection" between admitted students and Purdue to promote increased comfort with Purdue and its students and encourage students to choose Purdue for their engineering studies. Young women admitted to the

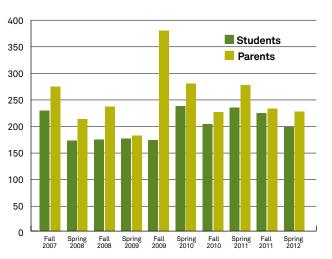


College of Engineering receive calls from PCP program staff and current student volunteers to answer questions and discuss opportunities and options at Purdue. Admitted students also receive a note from the Women in Engineering Program congratulating them on their admission and a magnetic photo frame inviting them to "Picture Yourself in Purdue Engineering". (Sponsored this year by Deere & Company and General Motors Company)

RECRUITING DINNERS

Young women admitted to the College of Engineering from targeted regions in Indiana are invited to dinner in their area. Purdue WIEP personnel and engineering deans travel to the region to host dinner, introduce themselves to the students, encourage the students to meet each other, promote Purdue and the College of Engineering, and answer students' questions. This year, the Indianapolis region was targeted, and representatives from Marathon Petroleum Corporation also attended. (Sponsored this year by Marathon Petroleum Corporation)





Women in Engineering Program

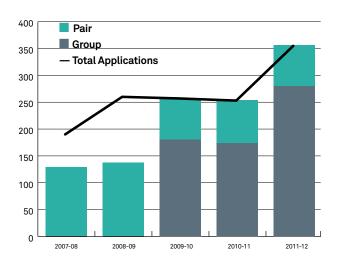
11 RETENTION ACTIVITIES

"M&M provides information I need and knowledge I can apply directly to my future." — PARTICIPANT

M&M: MENTORS & MENTEES, UNDERGRADUATE MENTORING PROGRAM

The Women in Engineering Mentees & Mentors (M&M) Program began in 1992 and since then it has impacted approximately 2,000 women engineering students. M&M is designed to give support, affirmation and helpful strategies to female undergraduate engineering students through dynamic and nurturing programming. We achieve this by pairing freshmen and sophomore students with upperclass women in their same major for one-on-one mentoring, or through a new group mentoring format which started in 2009 in response to increasing applications to the M&M program.

The Group Program facilitates acceptance of all applicants to M&M, which reached over 350 in 2011. It provides more flexibility for students balancing academics, extracurricular activities and part-time



Overall applications to the M&M programs (Pair and Group) continue to increase. Graphic shows application numbers over the past 5 years for total (Pair and Group) and the proportion of students accepted into each program.

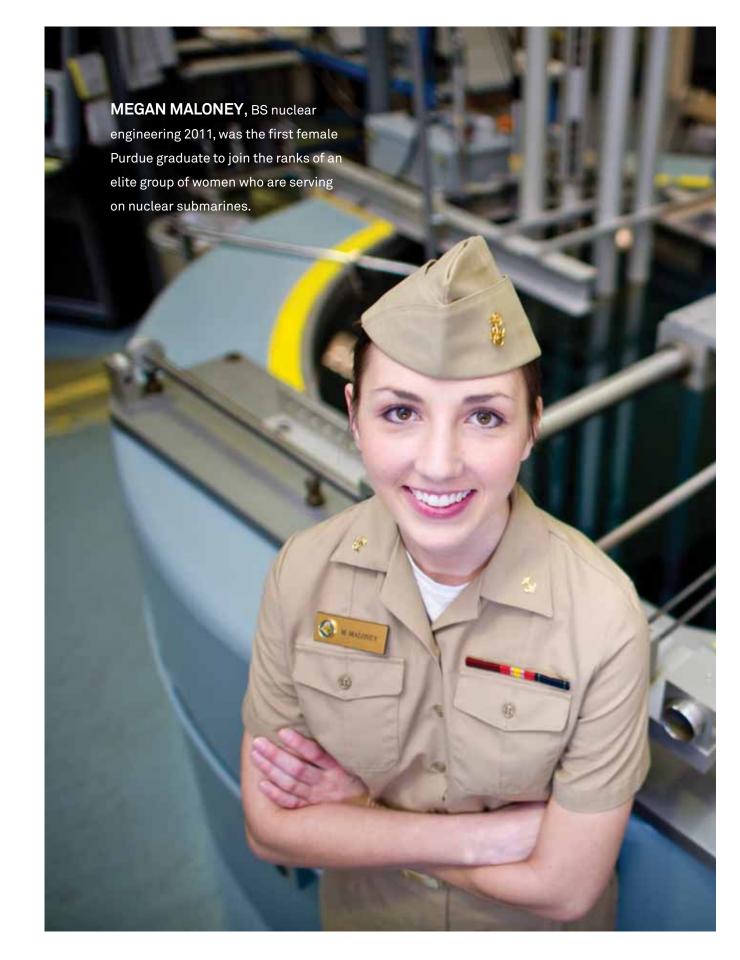
employment with fewer requirements than the traditional Pair Program, which is fixed at approximately 72 participants to maintain program quality. In contrast to the Pair Program, the Group Program is centered around a network mentoring model in which individuals take on the role of mentor depending upon their knowledge of and experiences with a particular situation, regardless of age or year in the engineering program.

Once a month, both Pair and Group participants meet for dinner and either an interactive group activity or a presentation by engineering alumni or other leaders on student-initiated topics that address academic success, personal development and professional strategies. Group participants also interact in monthly socials organized by the M&M Leadership Team and mentoring pairs are encouraged to interact weekly to fortify their relationship.

Judging from participant numbers, attendance averages and surveys, Group and Pair participants who attend meetings enjoy the speakers, socials, group activities, and interaction with fellow engineering women and plan to return unless they are graduating. Participants also indicate that they receive personal support, increased confidence, and crucial strategies to help them accomplish their career goals.

The M&M Group program has been featured in proceedings of the 2011 and 2012 Women in Engineering ProActive Network (WEPAN) national conferences. These papers, as well as other publications from WIEP, can be found on the WIEP website: https://engineering.purdue.edu/WIEP/AboutUs/WIEP_Publications.

(Sponsored this year by PPG Industries Inc., Rockwell Collins, Inc., United Technologies, and alumnae donations)

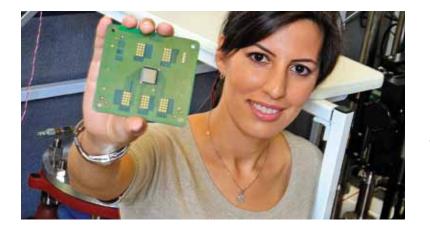


WIEP RESIDENTIAL PROGRAM:

First-year women majoring in engineering can choose to live on one of the designated engineering floors in Earhart Hall or Harrison Hall. The students that live on the engineering floors have access to female engineering mentors on an informal basis, which provides 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 tutoring center is located in Earhart 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.







"I like most being able to meet other women in my major, which traditionally has an extremely small number of women."

— M&M PARTICIPANT

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 and small group discussions, students learn networking skills. (Sponsored this year by General Motors Corporation)

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 upper-class 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 the Earhart Hall conference room and adjoining computer lab for the convenience of the women who live on the engineering and science floors there, but is open to all students regardless of residence. In 2011-2012, the center hosted 1140 tutoring sessions for 343 students. (Sponsored this year by General Motors Corporation)

GRADUATE MENTORING PROGRAM

The Graduate Mentoring Program provides women engineering graduate students information to achieve success personally, academically and professionally. It also provides a means to form peer mentor groups, take breaks from intensive academic work and access professional role models. This is achieved within the framework of a networking mentoring model and through continuous assessment of program objectives and results. The networking model for the program is implemented through monthly meetings and social events that allow participants to interact with each other and experience lively, informative speakers in a supportive environment. There were 157 participants in the Graduate Mentoring Program this year.



Women in Engineering Program
Year in Review

SPEAKERS FACULTY

Sue Abreu, MD

BSIDE '78 US Army Medical Corps; Sue Abreu Consulting

Ashlev Ackerman

BSChE'07 Proctor & Gamble

Caroline Anderson BSCE'07 Marathon Oil Company

Jennifer Armour Roach

BSChE'91 Proctor & Gamble

Ashley Babcock BSIE '06 Vectren Energy Delivery

Chris Barman BSME '94 Chrysler

Caitlin Bartz BSIE '09 Unilever

Kristen Billinghire BSME '06 General Mills

Mary Ellen Blichmann Caterpillar Inc.

John Blichmann Caterpillar Inc.

Avanthi Boopalan BSAAF '05 MSAAF '07

Caterpillar Inc.

Jeanine Brosch

BSEE '00 Roche Diagnostics

Brig. Gen. Theresa Carter BSIE'85 US Air Force

Tracy Chariton BSCE'01TRC Worldwide Engineering

Diane Clifford

Caterpillar Inc.

Jennifer Copeland BSIE '08 General Mills

Jacquelyn Day BSIF '06 Woodward Inc. Kim Dietz

BSME '08 Whirlpool Corporation

Jackie Garrison, PhD MED Institute Inc.

James Garrison Caterpillar Inc.

Susan Green

BSABE '02 Caterpillar Inc. Karen Grinker

BSME'94 Baxter Healthcare Corporation

Deb Grubbe BSChE'77, HDR'10 Operations and Safety Solutions LLC

Domenica Hartman.JD BSMSE'81 Hartman & Hartman, P.C.

Ashley Hildebrandt BSChE '06 Carrier Corporation

Ipek Hill BSIE '05 PepsiCo

Zita Holland

BSME'05 MSABE'10 John Deere

Elisha Huddleston BSIE '99 General Motors

Michelle Huettner BSME '08 GE Healthcare

Carmen Hysong

Leukemia and Lymphoma Society Team in Training

Lauren Knowlton BSIE'05 NASA

Jill Krutz

BSABE '98 Caterpillar Inc.

Christy Lester Lane, MD BSIDE '96 Nassim and Associates

Becky Lewark Caterpillar Inc.

Steve Lewark Caternillar Inc.

Amanda Linnemeier BSME '06 Caterpillar Inc.

Melissa Lonn

BSBME '07. MSBME '09 Medtronic

Melissa Marcum BSChE'96 Eli Lilly and Co.

Karissa McConnell BSIE '08 Wabash National

Katelyn Zollos Milius BSCE'09 CH2M HILL

Jacki Miller BSIE '95 FedEx Express Hub

Gina Morris BSIE '04 Lockheed Martin

Dana Newell BSIE '07 Whirlpool Corporation

Kelly Orr Caterpillar Inc.

Amy Parry BSChE'09 Georgia-Pacific

Julie Percifield BSChE'08 Unilever

Kim Ringenberger MSME '05, PhD '09 Cook Medical

Rhett Ringenberger

Stacey Schafer BSME '99 Stericycle Inc.

Kathleen Shewmaker BSChE'07 General Mills

Sara Steinwart BSChE'11 Proctor & Gamble

Shelby Swango BSCE'94, MSCE'96 Parsons Brinckerhoff

Kara Szpondowski BSIE '96 Niro, Haller & Niro

Pervin Rusi Taleyarkhan BSCHE'09 Indiana University School of Law

Sarah Tedder BSAAE '03 NASA Glenn Research Center

Jennifer Trunk BSABE '97 Eli Lilly and Company

Jennifer Vogel BSABE '04 Frito Lay

Jennifer Walker BSCEE'94 Raytheon

Kristen Wangerin BSNE '05 General Electric

Lisa Wink BSIE '06 Toyota Motor Manufacturing Indiana

Faculty, Staff and **Graduate Students**

Prof. Jan Allebach **Electrical and Computer** Engineering

Prof. WIlliam Anderson Aeronautics and Astronautics

Michael Bittinger Programs for Study Abroad

Prof. Hubo Cai Construction Engineering and Management

Prof. Patricia Davies Herrick Laboratories

Harry Diamond Electrical and Computer Engineering

Prof. Abby Engelberth Environmental and Ecological Engineering

Prof. Kendra Erk BSMSF '06 Materials Engineering

Velvet Fitzpatrick MSCE'09 **Engineering Education**

Adam Flaugh Agricultural and Biological Engineering

Brandon Fulk Construction Engineering and Management

Judith Hanks Mechanical Engineering

Kathy Heath Civil Engineering

Stephen Hoffmann Engineering

Prof. Inez Hua Civil Engineering

Prof. PK Imbrie **Engineering Education**

Mark Johnson **Electrical and Computer** Engineering

Prof. Nan Kong Biomedical Engineering

Prof. George Lee **Electrical and Computer** Engineering

Prof. Julie Liu Chemical Engineering

Rebecca Logsdon MSABE '11 Agricultural and **Biological Engineering**

Prof. Omid Nohadani Industrial Engineering

John Nolfi Mechanical Engineering

Prof. Bill Oakes **EPICS**

Marcia Poole Biomedical Engineering Cindy Quillen

Office of Professional Practice

Prof. Ann Rundell MSME'93. PhD'97 Biomedical Engineering

Allison Sieving Biomedical Engineering

Prof. Elliott Slamovich Materials Science Engineering

Truda Strange Biomedical Engineering

Prof. Rusi Taleyarkhan Nuclear Engineering

Prof. Marc Williams autics and Astronautics

Prof. Yuehwern Yih Industrial Engineering

Prof. Chongli Yuan Chemical Engineering

Carla Zoltowski BSEE '85, MSEE '87, PhD '10 **EPICS**

Prof. Patrice Buzzanell

Prof. Laura Bowling

Prof. Keith Cherkauer Agricultural and Biological Engineering

Dr. Nancy Maylath

Dr. Susan Welch Counseling and Psychological Services

Dr. Greg Mallis Counseling and Psychological Services

Daniel Ross Birck Boilermaker Golf Complex

Brent Willis Birck Boilermaker Golf Complex

CORPORATE DONATIONS FY 2010-11

\$20,000 and above

General Motors Company

\$10,000 - \$19,900

Alcoa Inc. Caterpillar Inc. Up to \$10,000

Air Products and Chemicals Inc. Arcelor Mittal S.A.

Deere & Company **Exxon Mobil Corporation** General Electric Company

General Mills Inc.

Marathon Petroleum Corporation Northrop Grumman Corporation

PPG Industries Inc. Rockwell Collins Inc. **Target Corporation**

United Technologies

MATCHING DONATIONS FY 2009-10

Boeing Company Clorox Company Eli Lilly and Company

Exxon Mobil Corporation

Henry Luce Foundation Inc. International Business Machines Kraft Foods Inc.

\$500 - \$999

Abbott Laboratories The Procter & Gamble Company

Up to \$500

3M Corporation Agilent Technologies Inc. Air Products and Chemicals Inc. American Electric Power Company Inc.

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\$1,000 and above **Eaton Corporation**

Exelon

General Electric Company Hillshire Brands Inc.

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Medtronic Inc.

Motorola Solutions Inc.

Reed Elsevier Group plc

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Schneider Electric SA

Unilever United States Inc.

Year in Review

Women in Engineering Program

INDIVIDUAL **DONATIONS FY**

Total Gift above \$5.000

Roberta Banaszak Gleiter and John Gleiter Barbara Haney Tom Head Joan and Kenneth Isman Daniel and Sharon Kujovich Shirley and John McCarty Sandy Postel Louise and Jim Voss Minerva Yeung and Boon Yeo

Total Gift of \$1,000 - \$4,999

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Total Gift of \$500 - \$999

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Total Gift of Up to \$100

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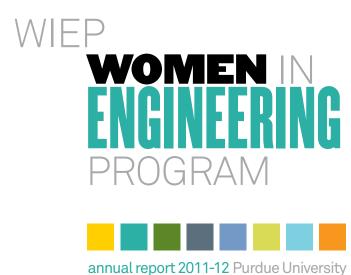
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