WIEP
WOMEN
ENGINEERING
PROGRAM



annual report 2010-11 Purdue University



# TABLE OF

#### "I WANT TO MAKE A DIFFERENCE."

No matter what stage of life we're in, or what our circumstances might be, many of us share this goal. And the quest to make a difference is as constant for our Women in Engineering Program as it is for the young women we reach out to every day. They want to choose paths in life that will empower them to make a difference, and we avidly show them the countless ways that a career in engineering provides that empowerment.

When we are able to surprise a girl in elementary school with what engineering is really about, or we see an epiphany dawn on the face of a college-bound high school student who hadn't realized what she could do as an engineer, we know that we are achieving our goal.

In this annual report, you can read about our EDGE program, which is making a big difference for high school girls. After attending EDGE this summer, 70 percent of the girls reported that they either understood more about what engineers actually do, or how engineering applies to the real world, or they came to a better understanding of what kind of engineering they would choose for their own careers.

I also invite you to read about I2R, our Innovation to Reality program for junior high students, which dramatizes what engineers can do through laboratory demonstrations and inspiring talks by our faculty. They hear about how engineers are addressing reallife problems like climate change, water scarcity, and even chronic diseases such as diabetes.

As always, our ability to make a difference is directly affected by your commitment to the same goal. I want to thank you for your support in time and resources that has made all of our programs possible for the past year, and express my gratitude for the help you have promised for the year ahead.

Both M. Holloway

Director, Women in Engineering Program



03 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 alumni, friends and employers who generously support our program.

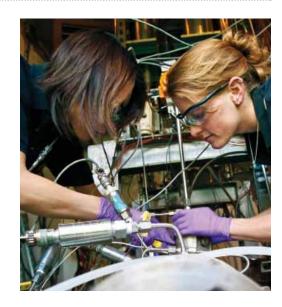
# 04 OBJECTIVES

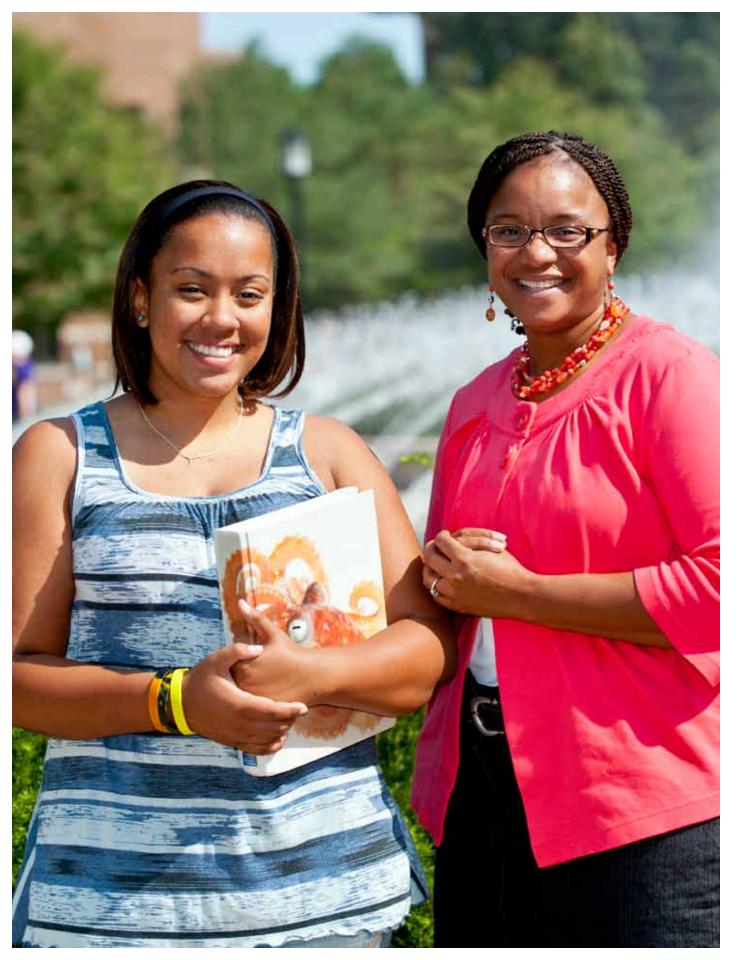
- To provide career information and encouragement to pre-college girls and young women to continue achievement in math and science and consider engineering as an appropriate career choice.
- Encourage women to enroll at Purdue University in the College of Engineering.
- Ensure a climate in the College 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 alumni and their employers to encourage their continued participation in and support of the Women in Engineering Program.

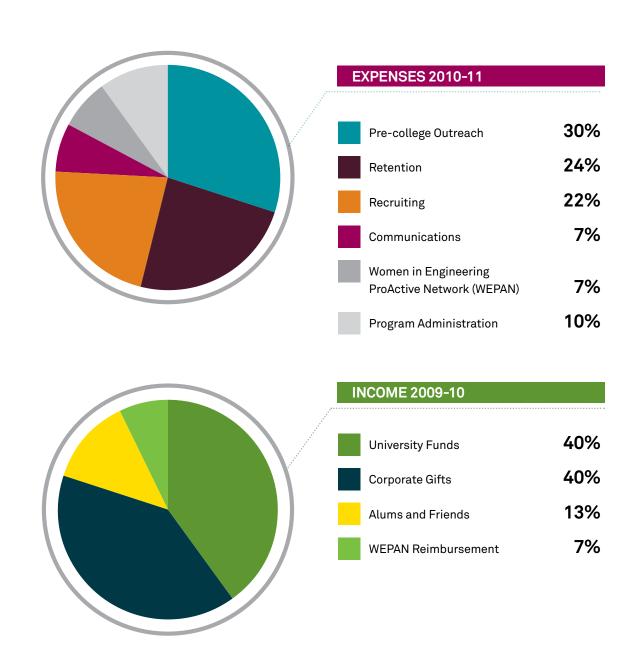
#### **ENROLLMENT OF WOMEN IN ENGINEERING: FALL 2010**

	Undergraduate	Gradua
Aeronautical and Astronautical	18%	16%
Agricultural and Biological	40%	27%
Biomedical	34%	32%
Chemical	32%	26%
Civil	22%	25%
Construction	14%	
Electrical and Computer	10%	14%
First-Year Engineering	20%	
Engineering Education		65%
Industrial	26%	30%
Interdisciplinary	31%	23%
Materials	23%	36%
Mechanical	13%	11%
Nuclear	13%	13%
Total	20%	20%





BUDGET





Since 1969, the Purdue Women in Engineering Program (WIEP) has been committed to increasing the recruitment, retention and graduation of women engineering students. Each year, we reach out to support and inform over 3,500 girls and young women from elementary school through graduate school. Following is a brief review of our individual programs for 2010-11, with a spotlight on three of our programs: Innovation to Reality (I2R), Exciting Discoveries for Girls in Engineering (EDGE) and the WIEP Women in Science Program (WISP) Tutoring Center.



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 fifth grade in the three school systems closest to Purdue. Thirty-one current engineering undergraduate and graduate students engage 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 function as both facilitators and role models. Twice a year, the program sponsors an open house on a Saturday in which young children can explore hands-on engineering concepts. (Sponsored this year by Motorola Solutions Inc.)

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

The Innovation to Reality (I2R) program is an on-campus after-school program for sixth-to eighth-grade students. The program's mission is to educate youth about the great opportunities in engineering through themed sessions that demonstrate the engineering innovation required to transform ideas to reality. The I2R program is uniquely designed to provide middle school students with an engineering experience from Purdue's faculty, staff and current students through a combination of hands-on engineering activities, faculty guest speakers and laboratory tours. To date, themed sessions have been related to the engineering behind Biosensors, alternative energy, diabetes, water scarcity, climate change and food. We extend the advantage of resources provided by faculty research across engineering and science departments and Purdue research centers

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

— PARENT OF I2R PARTICIPANT

which make up the Global Sustainability Initiative (Purdue Climate Change Research Center, Center for Global Food Scarcity, Energy Center, Purdue Water Community and Center for the Environment).

I2R draws participants from 11 local public and five local private middle schools in addition to homeschooled children. In each program, 25-30 participants meet five times (once a week for two hours). At the last session, student teams showcase to their parents and other invited guests (e.g., teachers) posters that synthesize what they have learned and present a unique engineering solution to global problems.

The structure of I2R also provides opportunities for undergraduate and graduate students across multiple STEM (science, technology, engineering and math) disciplines to gain essential workforce development skills through teamwork and mentoring experiences, curriculum development/implementation, and project management. Each session is typically organized by graduate students (teams of three to five) who have the necessary theme expertise. The graduate students are assisted undergraduate students who serve as mentors to small teams of middle school students and help engage the teams in activities. Working among students and faculty of multidisciplinary STEM fields provides a unique perspective for the Purdue students as they learn firsthand how engineers and scientists approach problems in different ways and how they can capitalize on each other's strengths. (Sponsored this year by Motorola Solutions Inc.)

### **ENGINEERING: FOR YOUR IMAGINATION (FYI)**

FYI is a weeklong residential or day-only camp involving eighth and ninth-graders in hands-on engineering activities. This year's camp directed 38 campers in "Improving the Human Made World" — learning how engineers are working to develop solutions to improve society. The campers also work on team building and leadership skills. Current engineering students serve as camp facilitators, mentors and role models. (Sponsored this year by the Bechtel Group Inc., Boeing Co., Motorola Solutions Inc.)

# EXCITING DISCOVERIES FOR GIRLS IN ENGINEERING (EDGE)

EDGE is a weeklong residential camp involving rising tenth and eleventh-grade students in hands-on engineering activities. Two sessions of camp enroll 40 participants and bring students from across the country. EDGE camp introduces exciting opportunities and careers in engineering through two primary hands-on projects, an afternoon laboratory research session, and an off-campus tour that showcases engineering's impact on society.

Last year, a popular hands-on project was done in collaboration with faculty and students from Electrical and Computer Engineering and involved the use of circuit boards and cardboard to construct an electronic guitar. For the afternoon laboratory research sessions, campers were able to select one of three disciplines to learn more about that area through short presentations by current students and faculty and interactive activities. One sample activity from Biomedical Engineering involved learning about and simulating tissue engineering constructs. An off-campus tour involved a trip to the Indianapolis Zoo, where the campers heard from engineers who worked on new zoo structures, such as the underwater dome in the dolphin exhibit, experienced a behind-the-scenes tour of the aquatic exhibits, and performed a scavenger hunt in small groups to find objects related to all the engineering disciplines offered at Purdue.

"EDGE showed me that engineering is everywhere and involves so many more things than I thought before."

#### - PARTICIPANT

The EDGE camp ended with a closing ceremony attended by parents, family and friends of campers. The closing event showcased the projects the campers had built and included a competition done in small teams. For the electronic guitar, campers played their creations and competed through a game similar to Guitar Hero. Parents even enthusiastically accepted invitations to participate.

Campers and parents evaluated the program to assess its impact. All parents responded positively that their students had fun during the week and learned new things. This was confirmed by the participants' survey. All parent respondents stated that they would recommend the camp to other parents. (Sponsored this year by Bechtel Group Inc., Delphi Corp., and Motorola Solutions Inc.)

#### INTRODUCE A GIRL TO ENGINEERING DAY

Introduce a Girl to Engineering Day is a free, one-day event hosted by the Women in Engineering program and held in February each year in conjunction with National Engineers Week. The 111 high school-age participants learned about engineering through exciting hands-on activities and interactions with current female engineering students and faculty. Each current undergraduate volunteer hosted two participants for the day. Together they attended a "Purdue Engineering" session and took part in two hands-on engineering activity sessions (chosen by the participant and led by engineering students and faculty). Engineering was tied to the community with a tour of the Engineering Projects in Community Service (EPICS) lab. (Sponsored this year by Caterpillar Foundation.)

10 RECRUITING ACTIVITIES

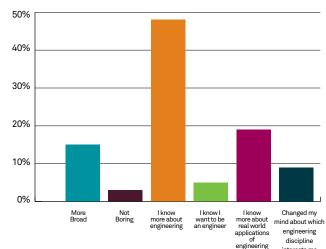
"I learned a lot more about what it's actually like to be an engineer. It's fun!"

- PARTICIPANT IN EDGE

#### **EXPLORING ENGINEERING AT PURDUE**

To get a real taste of campus life, high school juniors and seniors and their parents and teachers are invited to Purdue for the day each fall and spring. Prospective students learn about two types of engineering from engineering professors and graduate students. They also participate in a question-and-answer session with current women engineering students and hear from a panel of Purdue women engineering alumnae. There are campus tours and sessions about residence halls and financial aid. Keynote speakers this year were Mara Howell (BSMSE '05, MSMSE '07) from Intel Corp. and Rebecca Reid (BSChE'05) from Anheuser-Busch Inc. In all, 435 high school juniors and seniors from 21 states attended one of the two days. The Purdue University section of the Society of Women Engineers provided the approximately 75 student volunteers needed to make each daylong program successful. (Sponsored this year by Air Products and Chemicals Inc., Alcoa Inc., Caterpillar Inc., Delphi Corp., ExxonMobil Corp., General Electric Co., General Motors Co. and Northrop Grumman Corp.).

# HOW PERCEPTIONS OF ENGINEERING CHANGED AFTER EDGE



#### PERSONAL CONNECTION PROGRAM (PCP)

The goal of PCP is to create a "personal connection" between admitted students and Purdue, promoting increased comfort with Purdue and its students and encouraging students to choose Purdue for their engineering studies. Young women admitted to the College of Engineering are called by 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 & Co. and General Motors Co.)

#### **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 Oil Co. also attended. (Sponsored this year by Marathon Oil Co.)

Women in Engineering Program

Year in Review

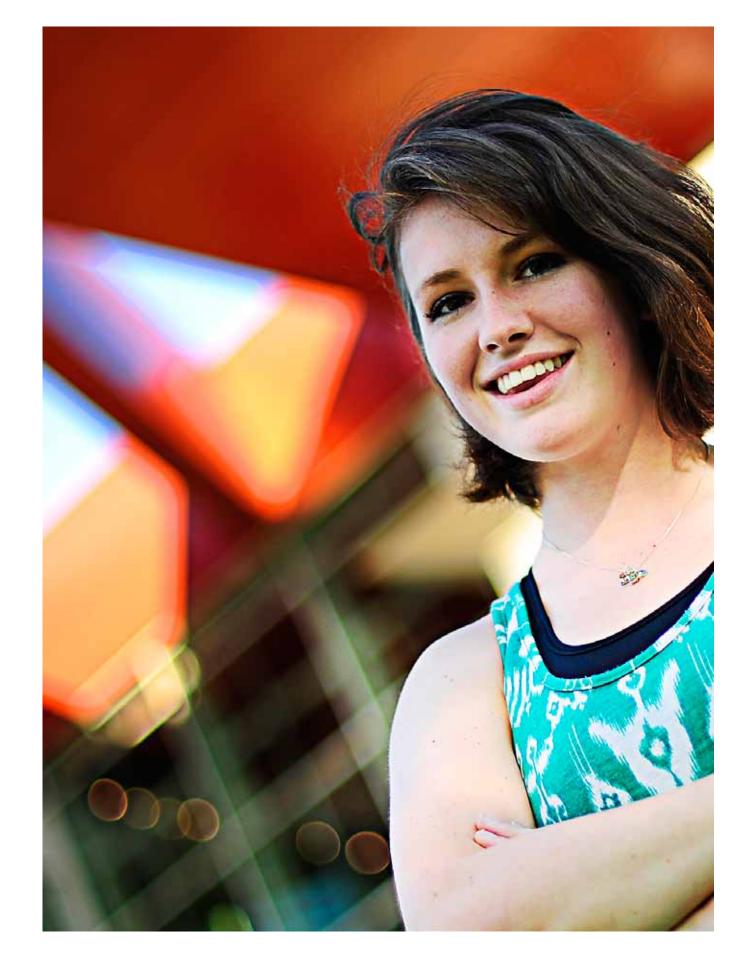
### M&M: MENTORS & MENTEES, UNDERGRADUATE MENTORING PROGRAM

The program matches first- and second-year students with juniors and seniors, or groups first-year students with upperclass students for formal and informal mutual mentoring activities. The program is based upon eight monthly meetings that provide academic, personal development and professional success strategies. The objectives of the program are to enhance personal support of students through contacts with female role models and mentors, to build confidence in students through affirmation of their skills and values, to share effective strategies that lead to successful completion of their engineering education and prepare them for future careers as engineers. There were over 250 participants in the Undergraduate Mentoring Programs this year. (Sponsored this year by Eaton Corp., Lockheed Martin Corp., PPG Industries Inc., and United Technologies.)

### 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 who live on the engineering floors have access on an informal basis to female engineering mentors 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 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.



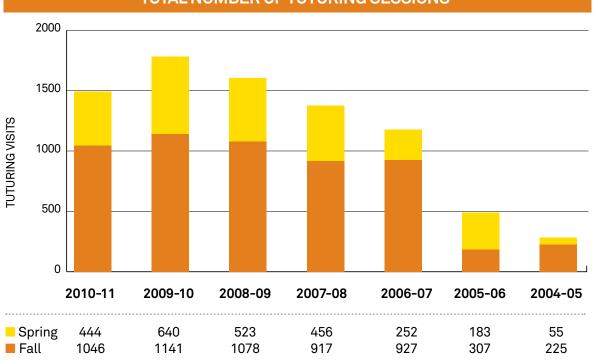


#### **ENGR 194, WOMEN IN ENGINEERING SEMINAR**

First-year students can choose to take this one-credit course, which uses 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 Corp.)



### TOTAL NUMBER OF TUTURING SESSIONS



#### WIEP-WISP TUTORING CENTER

The center offers free, drop-in tutoring services for first-year classes and is co-hosted by the Women in Science Program (WISP). Thirty-two upper-class science and engineering students were hired and trained as tutors this year. In addition to providing homework help, the tutors are seen as mentors and role models. The tutoring center is located in the Earhart Residence Hall conference room and adjoining computer lab for the convenience of the students who live on the engineering and science floors there, though the center is open to all students, regardless of residency.

For the 2010-11 academic year, 324 students used the tutoring center 1,490 different times. About 55% of the students who used the center this year were females, and a majority of the students lived in Earhart Hall. Math was by far the most tutored subject, followed distantly by chemistry and physics. (Sponsored this year by General Motors Corp. and Eaton Corp.)

#### 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 177 participants in the Graduate Mentoring Program in 2010-11.





Women in Engineering Program
Year in Review

#### 5 SPEAKERS FACULTY

Sue Abreu, MD BSIDE '78 US Army Medical Corps; Sue Abreu Consulting

Ashley Ackerman BSChE'07 Procter & Gamble

Stephanie Acosta Caterpillar

Caroline Anderson BSCE '07 Marathon Oil Co.

Jennifer Armour Roach BSChF'91 Procter & Gamble

Ashley Babcock BSIE '06 Vectren Energy Delivery

**Chris Barman** BSME'94 Chrysler

Kristen Billinghire BSME '06 General Mills

Mary Ellen Blichmann

Halle Brooks BSChE'01 BP

Robert Busch West Lafavette Wastewater Treatment Utility

**Tracy Chariton** 

BSCE'01 TRC Worldwide Engineering

September Dehen BSIE '06 Cook Biotech Inc.

Jamie Drewry, JD BSChE'04 Baker & Daniels LLP

Amanda Fles BSIE '05 Ingersoll Rand

Amanda Gordon West Lafavette Visitor's Center

Ann Markwell BSEE '05 Northrop Grumman

Andrea Massa

Melissa Mercik BSCNE'05 The Hagerman Group

Caterpillar

Domenica Hartman, JD BSMSE'81

Hartman & Hartman, P.C.

Jennifer Heathcote BSME'97 Integration Technology, Ltd.

Ipek Hill BSIE 05 PepsiCo

Cicely Hart

BSEE '98 Duke Energy

Mara Howell BSMSE'05 MSMSE'07 Intel

Lila Ibrahim BSEE'93 Kleiner Perkins Caufield & Byers

Steve Kessinger Silver Creek Engineering

Lauren Knowlton BSIE'05 NASA

Amy Kolczak BSCE'93 ITW Red Head

Jill Krutz BSABE '98 Caterpillar

Christy Lester Lane, MD BSIDE '96 Nassim and Associates

Amanda Linnemeier BSME '06 Caterpillar

Melissa Lonn BSBME '07. MSBME '09 Medtronic

Melissa Marcum BSChE'96 Eli Lilly and Co.

**Jeff Marks** Black & Veatch

Chico Marks Subaru Izuzu of America

BSME '04 Sargent & Lundy LLC

**Katie Pierce** 

Kari Raplee BSECE '94 Dell Perot Systems

Rebecca Reid BSChE '05 Anheuser-Busch

Nina Robinson Caterpillar

**Christin Schippnick** BSME '98 Roche Diagnostics

Kathryn Schrock BSChE'10 Procter & Gamble

Jennifer Senesac BSIE'97 Caterpillar

Rayelle Sheets BSME '04 Hendrickson Trailer Suspension

Kathleen Shewmaker BSChF '07 General Mills

Kristin Shuler BSChE'00 Kleen Test Products

Madeleine Smith BSMSE'08 Cummins Inc.

Mike Teague Indianapolis Zoo

Jennifer Trunk BSABE '97 Eli Lilly and Co.

Jenny Tuertscher BSME '99 Procter & Gamble

Donna VanKlompenburg BSME'82 Cummins Inc.

Doug VanKlompenburg **Engines** 

Jennifer Vogel BSABE '04 Frito-Lav

Chelsea White Subaru Izuzu of America

Lisa Wink BSIE '06 Toyota Motor Manufacturing Indiana

**FACULTY** 

Prof. Dulcy Abraham Construction Engineering and Management

Monica Allain Birck Nanotechnology Center

Prof. Jean Paul Allain **Nuclear Engineering** 

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

Prof. Michael Baldwin Earth and Atmospheric Sciences

Prof. Charles Bouman **Electrical and Computer** Engineering

**David Bowker** College of Engineering

Prof. Keith Bowman Materials Science Engineering

**Anthony Cawdron** Westwood Events

Prof. William Chappell **Electrical and Computer** Engineering

**Prof. Patricia Davies** Herrick Laboratories

Ukari Figgs BSME '99 Women's Basketball

Kathy Heath Civil Engineering

Stephen Hoffmann **Environmental and Ecological** Engineering

Zita Holland BSME '05 MSABE '10

**Prof. Matthew Huber** Earth and Atmospheric Sciences

Dean Leah Jamieson College of Engineering

Prof. Panagiota Karava Construction Engineering and Management

Sandun Kuruppu

**Electrical and Computer** Engineering Technology

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

Prof. Julie Liu **Chemical Engineering** 

Prof. John Lumkes Agricultural and Biological Engineering

Anne Mahon Student Health Center

Megan Morrison Agricultural and Biological Engineering

Prof. Nate Mosier Agricultural and Biological Engineering

**Prof. Larry Nies** Civil Engineering

John Nolfi Mechanical Engineering

Marcia Poole Biomedical Engineering

Prof. Mary Sadowski College of Technology

Lt. Sarah Sheppard Police Department

Allison Sieving Biomedical Engineering

Truda Strange Biomedical Engineering

**Prof. Tom Turpin** Entomology

Prof. Nelson Uhan Industrial Engineering

Prof. Hong Wan Industrial Engineering

Michelle Whipple Recreational Sports Center

Prof. Marc Williams Aeronautics and Astronautics

Prof. Chongli Yuan Chemical Engineering

### **CORPORATE DONATIONS** FY 2010-11

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\$10,000 - \$19,900

Alcoa Inc.

Bechtel Group Inc.

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Up to \$10,000

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Women in Engineering Program Year in Review 16

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