

# 2008-2009

## ANNUAL REPORT

IMAGINATION

INNOVATION

DISCOVERY

DESIGN

WOMEN IN ENGINEERING PROGRAM

*Purdue University*  
**Womenengineers**



## REFLECTIONS FROM THE DIRECTOR



Nearly 150 years ago when Purdue was founded, the land-grant vision was for a place of superb higher learning for students; but just as important, it was to be a place that would reach well beyond campus borders into communities throughout Indiana and beyond. The plan was to freely share the benefits of discovery and higher learning in order to solve difficult problems and improve the quality of life.

That commitment to outreach has never been stronger at Purdue or in our College of Engineering.

The Women in Engineering Program has made outreach one of its primary missions from the beginning — reaching out to young women who might not otherwise be aware of, or seriously consider, the rich rewards of being a proud, problem-solving Purdue engineer.

In this edition of the WIEP Annual Report, we shine a light on three of our programs: the Graduate Mentoring Program, which helps women graduate students succeed as they face the rigors of post-baccalaureate studies; the WIEP Residential Program, which boosts the success rates of our undergraduate women engineering majors; and the Imagination, Innovation, Discovery, and Design (I2D2) program, an example of the ambitious work we are doing to inspire young women and girls to make a difference in the world by becoming a Purdue engineer.

It has been my privilege to participate in the activities of the Women in Engineering Program, and to have been a part of its growth. Thanks to your ongoing support, a devoted staff, and remarkable volunteers, our outreach and student-success programs will continue to grow, thrive, and inspire future women engineers.

*Beth M. Holloway*  
Beth M. Holloway  
Director, Women in Engineering Program

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

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

### WOMEN IN ENGINEERING FALL 2008 ENROLLMENT

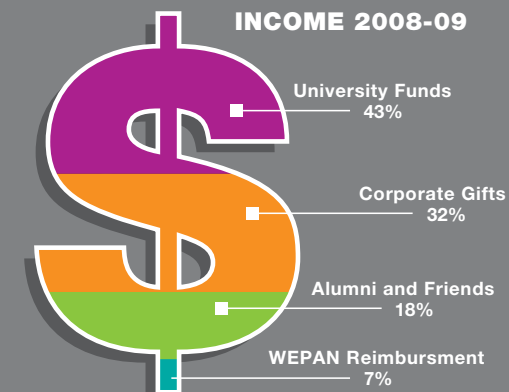
SCHOOLS	UNDERGRADS	GRADS
Aeronautics & Astronautics	15%	16%
Agricultural & Biological	28%	24%
Biomedical	33%	37%
Chemical	30%	26%
Civil	18%	20%
Construction	16%	
Electrical & Computer	10%	16%
Engineering Education		53%
First Year Engineering	22%	
Industrial	24%	21%
Interdisciplinary	18%	19%
Materials Science	19%	37%
Mechanical	13%	12%
Nuclear	14%	2%
Total	19%	19%

SOURCE: Office of the Registrar, Purdue University 9/08

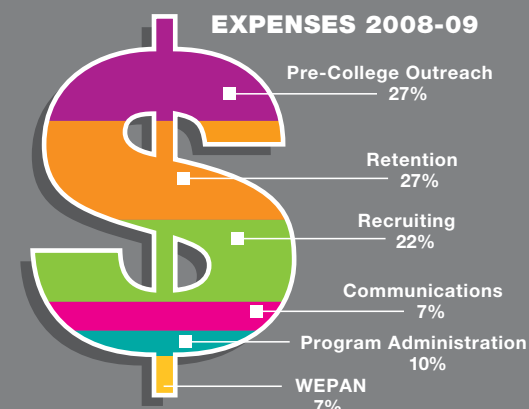
## OBJECTIVES

- 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 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.

### INCOME 2008-09



### EXPENSES 2008-09



# Womenengineers



## OUTREACH ACTIVITIES



### Imagination, Innovation, Discovery and Design (I2D2):

I2D2 is an after-school program that runs 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-eight current engineering undergraduate and graduate students engage participants in age-appropriate 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. For the 2008-09 academic year,

*"I love that this program uses hands-on activities that make engineering exciting for not only the children but for us as facilitators as well."*

**KAT GILBERT, JUNIOR, AGRICULTURE AND BIOMEDICAL ENGINEERING**

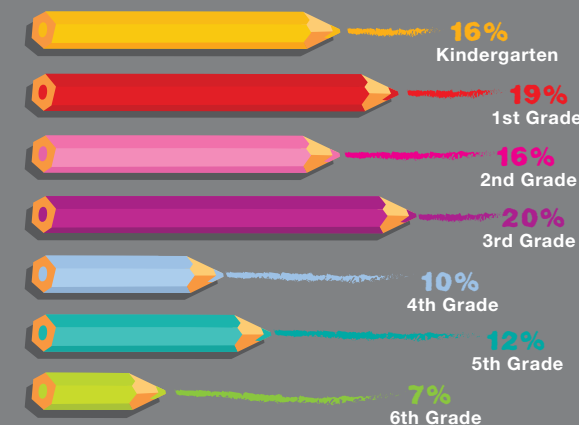
*"I love I2D2. You don't realize just how exciting engineering is until you see a group of second-graders practically yelling in anticipation for the activity."*

**MICHELLE PRICE, SOPHOMORE, BIOMEDICAL ENGINEERING**



the program staff visited 11 after-school program locations, and had approximately 220 total participants. The breakdown in participants by grade is shown below. (Sponsored this year by the Motorola Foundation and Boeing Company)

### I2D2 PARTICIPANTS BY GRADE



*"The I2D2 program is a fun learning experience that allows young children to begin focusing on what their future may hold while introducing them to engineering. Participating in I2D2 has allowed me to represent Purdue engineering while interacting with elementary students. My favorite outing was when one young student came up to me and said, 'Emily, you have inspired me to become an engineer.' That is what I2D2 is all about — opening doors for the next generation of Purdue engineers."*

**EMILY ELLSWORTH, JUNIOR, CHEMICAL ENGINEERING**

**Innovation to Reality (I2R):** Piloted for the first time in the spring of 2009, I2R is an after-school, on-campus program targeted at sixth-eighth graders. Two themed five-week sessions met once a week and culminated in a team-based poster presentation to parents, faculty, and staff. The spring 2009 themes were alternative energy and biosensors, and were chosen based on Purdue faculty research. (Sponsored this year by Motorola Foundation)

**Engineering: For Your Imagination (FYI):** FYI is weeklong residential or day-only camp involving eighth and ninth graders in hands-on engineering activities. This year's camp focused on alternative energy — learning how engineers are working to develop and maximize alternative energy sources, such as solar, wind, and nuclear. Special emphasis was put on renewable energy and sustainability. (Sponsored this year by Boeing Company, Caterpillar Foundation, Motorola Foundation, and Bechtel Group Foundation)

**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 early high school-age participants learn 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, two hands-on engineering activity sessions (chosen by the participant and led by engineering students and faculty), and enjoyed lunch in a residence hall dining court. Engineering was tied to the community with a tour of the Engineering Projects in Community Service (EPICS) lab. (Sponsored this year by Caterpillar Foundation)

### 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 building and programming their own Dance Dance Revolution dance pad; designing, building, and testing platform shoes; and touring engineering laboratories. Participants also spent a day at the Indianapolis Zoo learning about how engineering impacts a zoo environment. Engineering is stressed as a profession that is used to help society solve problems. (Sponsored this year by Motorola Foundation, Eli Lilly & Company Foundation, Bechtel Group Foundation, and Delphi Foundation, Inc.)

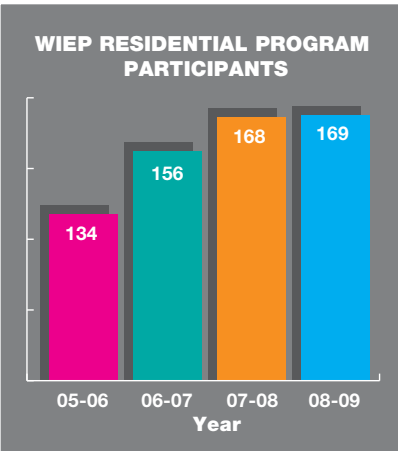


Since 1969, the Purdue Women in Engineering Program has been committed to increasing the recruitment, retention, and graduation of women engineering students. Each year, we reach out to support and inform more than 2,000 girls and young women — from elementary school through graduate school. Following is a brief review of our individual programs for 2008-09, with a spotlight on three of our programs: Imagination, Innovation, Discovery, and Design (I2D2); the WIEP Residential Program; and the Graduate Mentoring Program (GMP).



# UNDERGRADUATE AND GRADUATE RETENTION ACTIVITIES

**M&M: Mentors & Mentees, Undergraduate Mentoring Program:** First-year women are matched with juniors, and sophomores are matched with seniors for formal and informal activities. In the context of mutual mentoring, students receive affirmation and strategies to succeed in engineering. The program is based upon eight monthly meetings that provide academic, personal development, and professional 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 to prepare them for future careers as engineers. (Sponsored this year by ExxonMobil Chemical Company, Lockheed Martin Foundation, PPG Industries Foundation, and United Technologies)



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, 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 on the engineering floors. This year, 169 students participated in the program, which is effectively the capacity of the program. Expansion is planned for the 2009-2010 academic year by adding a floor in Harrison Hall. Participants in the WIEP Residential Program also can participate in other Purdue Engineering Learning Communities, if the residency is co-located. The Learning Communities that are co-located with

the WIEP Residential Program are the Engineering Honors Learning Community, the Network Learning Community, and the IDEAS (Introducing Diversity through Engagement And Service) Learning Community. When expansion to Harrison Hall is complete, three other Learning Communities will be co-located: Engineering for the Planet Learning Community, Entrepreneurship and Innovation Learning Community, and the EPICS Learning Community. (Sponsored this year by General Motors Corp.)

**ENGR 194, Women in Engineering Seminar:** First-year students can choose 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)

**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 consistent 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. New for 2008-09 was the development of school specific Graduate Women Gatherings — department specific groups intended to strengthen the bonds between students in each engineering discipline. There were



GRADUATE MENTORING PROGRAM ATTRIBUTES	What attracted you to join the program?	What have you gained from the program?
Learning new strategies to help with grad school/career and/or balancing my life	73%	71%
Hearing about the experiences of a successful female engineer	74%	85%
Meeting new people	88%	85%
Enjoying a change from your daily routine	55%	90%
Receiving affirmation & support from other female graduate students	58%	73%
Other	7%	4%

123 participants in the Graduate Mentoring Program this year. (Sponsored this year by the heads and deans of the College of Engineering)

**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 serve 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. (Sponsored this year by General Motors Corporation and Boeing Company)

**MentorNet:** MentorNet is the award-winning nonprofit e-mentoring network that positively affects the retention and success of those in engineering, science, and mathematics, particularly but not exclusively women and others underrepresented in these fields. Founded in 1997, MentorNet provides highly motivated protégés from many of the world's top colleges and universities with positive, one-on-one, e-mail-based mentoring relationships with mentors from industry, government, and higher education. In addition, the MentorNet Community provides opportunities to connect with others from around the world who are interested in diversifying engineering and science. Purdue's WIEP is one of MentorNet's original university partners.

## RECRUITING ACTIVITIES

**WIEP Discovery Days:** High school juniors and seniors and their parents and teachers are invited to Purdue for a day each fall and spring. The 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, lunch with a keynote speaker, and sessions about residence halls and financial aid. The Purdue University section of the Society of Women Engineers assists with the planning of Discovery Days and provides the approximately 75 student volunteers needed to make each Discovery Day successful. (Sponsored this year by Alcoa Inc., Boeing Company, and General Motors Corporation)

**Personal Connection Program:** Young women admitted to the College of Engineering are called by undergraduate women students. The Purdue students answer questions about the University and engineering, and encourage the high school students to enroll in engineering at Purdue. In addition, once a tuition deposit is received from the admitted women, they are matched with a current engineering student volunteer from their home area to begin an e-mail-based conversation about life at Purdue. (Sponsored this year by John Deere Foundation and General Motors Corporation)

**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 College of Engineering deans 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 Company also attended. (Sponsored this year by Marathon Oil Company)

# SPEAKERS FY 2008-09

2008-09 WIEP Speaker List

Sue Hudson Abreu, MD (BSIDE 1978),  
Dracon Engergy

Ashley Ackerman (BSChE 2007),  
Procter and Gamble

Caroline Anderson (BSCE 2007),  
Marathon Petroleum

Prof. Ragu Balakrishnan,  
School of Electrical and Computer  
Engineering, Purdue University

Chris Barman (BSME 1994),  
Chrysler Corporation

Jason Boron, Purdue Village,  
Purdue University

Melanie Minter Brickley (BSIE 2003),  
Becton Dickinson and Company

Terry Brown,  
Purdue University

Prof. Patrice Buzzanell,  
Department of Communications,  
Purdue University

Tracy Chariton (BSCE 2001),  
BSA LifeStructures

President France Córdova,  
Purdue University

Kristen Kukral Daihes (BSEE 1996),  
William Wrigley Jr. Company

September Knoll Dehen (BSIE 2006),  
Cook Biotech, Inc.

Jamie Metzger Drewry, JD (BSChE 2004),  
Baker Daniels LLP

Rebecca Dohrman,  
Purdue University

Ashley Eckert (BSEE 2005),  
General Electric

Jenell Matthiesen Fairman (BSCE 1997),  
McComas Engineering, Inc.

Jamie Foresman (BSME 1999),  
Caterpillar, Inc.

Amanda Newton Fles (BSIE 2005),  
Ingersoll Rand

Jessica Fox (BSME 2007),  
Procter and Gamble

Katie McHugh Fox (BSIE 2003),  
Abbott Labs

Michelle Huggins Grabczak (BSIE 1995),  
Eli Lilly and Company

Deb Grubbe (BSChE 1977),  
BP North America, Inc.

Sweta Gupta (BSEE 2005),  
Caterpillar, Inc.

Kelly Hanson (BSME 2005),  
Whirlpool Corporation

Domenica Samargin Hartman, JD  
(BSMSE 1981)  
Hartman and Hartman

Brandy Montague Heyde  
(BSIE 2002, MSIE 2008),  
Walt Disney Parks and Resorts

Ipek Tunc Hill (BSIE 2005),  
PepsiCo

Amanda Braun Horan (BSChE 2005),  
Eli Lilly and Company

Katie Allen Hubert (BSIE 2005),  
Avon Products, Inc.

Elisha Luttrell Huddleston (BSIE 1999),  
General Motors Corporation

Lila Ibrahim (BSEE 1993),  
Intel Corporation

Shannon Kelley (BSChE 2004),  
Eli Lilly and Company

Prof. Nicole Key (BSAAE 2000,  
MSME 2002, PhD ME 2007),  
School of Mechanical Engineering, Purdue  
University

Tom Kudele (BSCEM 1989, MSCE 1990),  
ExxonMobil

Keri Kukral (BSIDE 2000),  
ArthroCare Corporation

Christy Lester Lane, MD (BSIDE 1996),  
Nassim and Associates

Laura Conyers LaRiviere, (BSCE 1998),  
Kleinfelder

Allene Manning (BSEE 1996, MSEE 2000),  
Purdue University

Melissa Foutz Marcum (BSChE 1996),  
Eli Lilly and Company

Melissa Massa (BSME 2004),  
Sargent & Lundy LLC

Nancy Maylath,  
Purdue University

Deanna McMillan,  
Division of Construction Engineering  
and Management, Purdue University

Dana Newell (BSIE 2007),  
Whirlpool Corp.

Susan Prieto-Welch,  
Purdue University

Jessica Stein Rebmann (BS IDE 1999),  
Smith Barney

Robin Mills Ridgway (MSCE 1994,  
PhD CE 2001),  
Purdue University

Jennifer Armour Roach (BSChE 1991),  
Procter and Gamble

Prof. Ann Rundell (MSEE 1993, PhD EE 1997),  
Weldon School of Biomedical Engineering,  
Purdue University

Gina Sabelli (BSIE 2004),  
Lockheed Martin Corp.

Jennifer Bontempo Senesac (BSIE 1997),  
Caterpillar, Inc.

Cece Berger Sharp (BSChE 1998),  
Kimberly Clark

Kristin Levin Shuler (BSChE 2000),  
Kleen Test Products

Elizabeth Sickels (BSMSE 2002),  
General Electric

Amy Mahoney Signaigo (BSCEE 1994),  
Jenner & Block LLP

Jenny Tuertscher (BSME 1999),  
Procter & Gamble

Donna Spofford VanKlompensburg  
(BSME 1982),  
Cummins, Inc.

Doug VanKlompensburg,  
Neibel Engines

Michele Welch (BSChE 2003),  
PepsiCo

Don Werden,  
Purdue University

Michelle Whipple,  
Purdue University

# CORPORATE DONATIONS FY 2008-09

\$20,000 and above

Boeing Company  
General Motors Corporation  
Motorola Foundation

\$10,000-\$19,900

Alcoa, Inc.  
Bechtel Group Foundation  
Caterpillar Foundation  
Delphi Foundation, Inc  
Eli Lilly & Company Foundation, Inc.  
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Up to \$10,000

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Dow Corning Corporation  
Duke Energy Foundation/MGP  
Eaton Charitable Fund  
Exelon

General Mills Foundation  
General Motors Foundation Inc.  
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Pepsi Bottling Group Foundation, Inc.  
PPG Industries Foundation  
Roche Diagnostics/MGP  
RohMax USA Inc.

Saint-Gobain Corporation Foundation  
Sartomer  
SC Johnson Fund/MG  
Scientific-Atlanta Foundation, Inc.  
Sun Microsystems Inc.  
The Clorox Company Foundation  
United Technologies Corporation  
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Whirlpool Foundation  
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\$500-\$999

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Detroit Edison Foundation  
Eli Lilly & Company  
Foundation Inc MGP  
General Electric Foundation  
Kraft Foods Inc  
Kraft Foods MGP  
Shell Oil Company Foundation  
Sun Microsystems Inc.  
William Wrigley Jr. Company  
Foundation

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Tom Head

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

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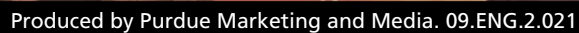
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