

**WOMEN IN ENGINEERING PROGRAM** 





# REFLECTIONS FROM THE DIRECTOR



The Purdue University Women in Engineering Program is proud of all it has accomplished over nearly 40 years of existence. Each year, as we put together materials for this Annual Report, we have the chance to reflect on those accomplishments. As you will see, the past twelve months were busy ones for the program—and for the students and faculty who participate.

Purdue alumni who have been touched by the Women in Engineering Program know the value of empowering and encouraging engineers from all walks of life. Very often their relationship with the university and our program does not end upon graduation. As you will see in this report, many return to speak to students and to participate in the very activities they benefited from as students. We are grateful for their generosity of time and spirit, as well as for their financial support which makes everything we do possible.

These individuals and the corporations who contribute so generously allow us to continue the great work we do. Together, we are helping to encourage and ensure the equal participation of all students in engineering.

Sincerely,

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

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

#### **WOMEN IN ENGINEERING B.S. DEGREES CONFERRED**

YEAR	NATIONAL	PURDUE
1994-95	17.5%	21.4%
1995-96	18.0%	23.4%
1996-97	18.7%	25.4%
1997-98	18.6%	22.4%
1998-99	19.8%	22.7%
1999-00	20.6%	23.1%
2000-01	20.2%	20.1%
2001-02	20.5%	22.8%
2002-03	20.1%	18.7%
2003-04	20.1%	20.6%
2004-05	19.6%	18.1%
2005-06	19.3%	18.9%
2006-07	18.6%	18.8%

SOURCE: Engineering Workforce Commission
American Association of Engineering Societies, Inc.

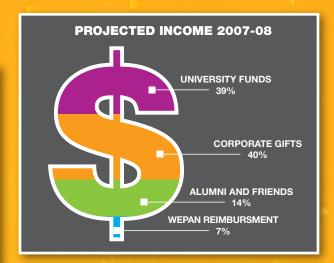
# **OBJECTIVES**

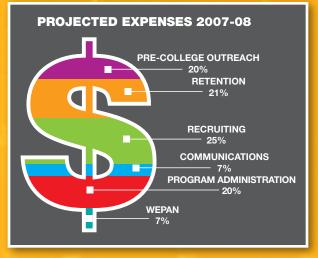
- Provide career information and encouragement to precollege girls and young women to continue achievement in math and science and consider engineering as an appropriate career choice
- Encourage women to matriculate to Purdue University in the College of Engineering
- Ensure a climate in the College 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

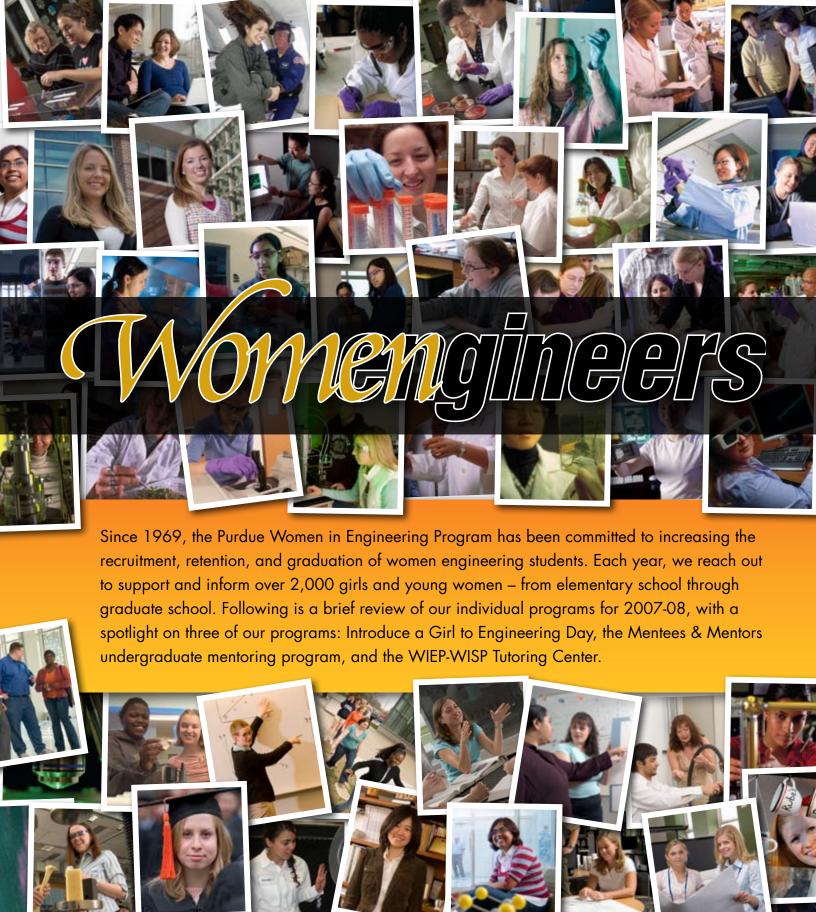
## **ENROLLMENT OF WOMEN IN ENGINEERING FALL 2007**

SCHOOLS	UNDERGRADS	GRADS
Aeronautics and Astronautics	15%	14%
Agricultural and Biological	22%	27%
Biomedical	31%	36%
Chemical	30%	27%
Civil	18%	24%
Construction	17%	
Electrical & Computer	9%	17%
Industrial	23%	22%
Interdisciplinary	23%	20%
Material Science	26%	33%
Mechanical	12%	11%
Nuclear	15%	5%
First Year Engr/ Engr Education	19%	50%
Total	18%	19%

**SOURCE:** Office of the Registrar, Purdue University 9/07







# **OUTREACH ACTIVITIES**

## **Engineers Make Dreams Come True:**

An after-school academic year program targeted at girls and boys in Kindergarten through 5th grade. Current engineering students engage participants in hands-on activities designed to show the creativity, teamwork, and social relevance of an engineering career. This program was piloted in the Spring of 2008. (Sponsored this year by the Motorola Foundation)

## Love Engineering At Purdue I (LEAP-I):

LEAP-I is a three or four day camp involving rising 6th and 7th graders in hands-on engineering activities. Participants break into small groups to work on a series of small engineering-based projects, such as making lip gloss, building straw rockets, and creating a water filtration system. The campers also tour engineering facilities and make electronic presentations about their experiences. (Sponsored this year by Boeing Corporation, Motorola Foundation, and the Bechtel Foundation)

# Love Engineering At Purdue II (LEAP-II):

LEAP-II is week-long residential or day-only camp involving rising 8th and 9th graders in hands-on engineering activities. This year's camp focused on "Engineering for Natural Disasters" – learning how engineers work to prevent loss of life and property during a natural disaster, and how they help people recover from the incident. (Sponsored this year by Caterpillar Corporation, Motorola Foundation, and the Bechtel 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 their own electronics device, programming an experiment using Lego Robotics, creating a cardboard chair and touring engineering laboratories and a production facility. Engineering is stressed as a profession that is used to solve problems that help society. (Sponsored this year by Motorola Foundation, Eli Lilly, ExxonMobil, the Bechtel Foundation, and Delphi Corporation)

IGED ANNUAL DATA: PARTICIPANTS						
YEAR	PARTICIPANTS	COE STUDENTS	FACULTY/STAFF			
2006	31	13	_			
2007	44	64	-			
2008	56	66	5			

IGED ANNUAL DATA: PARTICIPATING STATES								
YEAR	IN	IL	ОН	MI	KY	WI	UNKNOWN	TOTAL
2006	15	10	2	3	0	0	1	31
2007	26	9	4	2	1	1	1	44
2008	46	4	3	2	1	0	0	56

IGED ANNUAL DATA: PARTICIPANT AGES						
YEAR	8TH	9TH	10TH	11TH	TOTAL	
2006	0	0	9	22	31	
2007	0	0	11	33	44	
2008	1	28	26	1	56	

## **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 9th and 10th grade participants learn about engineering through exciting hands-on activities and interactions with current female engineering students and faculty.

Each COE female 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 the new dining court. We wrapped up the day with a tour of the EPICS lab and a Q&A session.

# **OUTREACH ACTIVIES CONTINUED**

The hands-on engineering sessions were a big hit. The participants chose two activities from Aero, Biomedical, Chemical, Environmental, Ag and Bio, Civil, Computer and Mechanical. One young lady who attended the Aero session remarked, "I like how the girls talked about all the things that they did to impact the world". Another who attended the Biomedical activity said, "I liked being hooked up to the EKG machine and seeing my heart beat." The participants who elected the Environmental Engineering activity said "Building the filtration system and testing was a great interactive activity".

The participants had a fantastic day. As one young lady stated, "It was inspiring" and another noted that the best part of IGED was "meeting people who have the same dream as you."

The 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 and 2/3 were confident they would choose engineering as a major in college.

For those who felt that the program needed changes, the majority recommended that we make the day longer and add more hands-on activities! (Sponsored this year by Caterpillar Corporation)

# RECRUITING ACTIVITIES



Students Kim Raver and Jillian Striefert who helped with Discovery Day

## **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 50 student volunteers needed to make each Discovery Day successful. (Sponsored this year by Alcoa Inc, Boeing Corporation, 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 email-based conversation about life at Purdue. (Sponsored this year by Deere & Company and General Motors Corporation)

# **Recruiting Dinners:**

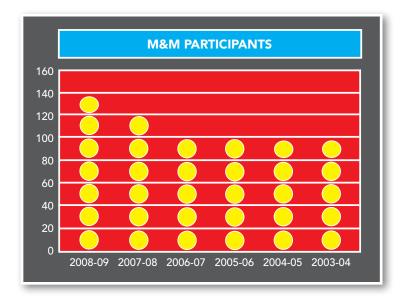
Young women admitted to the College of Engineering from targeted regions in Indiana are invited to dinner in their area. Purdue WIEP personnel and Engineering Deans travel to the region to host dinner, introduce themselves to the students, encourage the students to meet each other, promote Purdue and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

# UNDERGRADUATE AND GRADUATE RETENTION ACTIVITIES

The Women in Engineering Mentees & Mentors (M&M) Program began in 1992 and since then it has encouraged more than 1,000 women to become successful engineers. 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 upperclasswomen in their same major for one-on-one mentoring. Once a month we get the group together for dinner and a presentation on a studentinitiated topic. These monthly meetings are the core of the M&M program and as one participant stated, "I really liked all the speakers, they remind me of how great and powerful we are." We also encourage the mentoring pairs/trios to meet weekly to continually build their relationship. Both participants gain benefits from the mentoring relationship: the mentee gains support and encouragement from a fellow student and the mentors derive satisfaction from helping a fellow future engineer.

On average, 97% of the M&M participants are retained in the College of Engineering each year. Because of this success and the increasing popularity of the program, we





have created a new avenue that will build the participant base. Traditionally, the program allowed for 48 mentoring pairs (a total of 96 participants) mainly due to space and funding limitations. In 2007-08, in conjunction with securing a larger meeting space, mentoring trios were introduced. We matched experienced mentors with 2 mentees instead of one. This grew the size of the program from the traditional 96 participants to 117 participants in 2007-08, and 135 participants in 2008-09.

The M&M program is run by a group of outstanding undergraduate engineering students. The success of the program is due to their hard work and dedication. As one Leadership Team member stated, "I hope that someday I will be able to come back and speak and have the same impact on someone's life as the M&M program has had on mine." (Sponsored this year by Lockheed Martin, Procter & Gamble Corporation, PPG Industries Inc., and United Technologies)

# UNDERGRADUATE AND GRADUATE RETENTION ACTIVITIES CONTINUED



## **Earhart Residential Program:**

Every year since 1994, first-year women majoring in engineering have been able to choose to live on one of the designated engineering floors in Earhart Hall. The students that live on the engineering floors have access 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. Most of the time, the Resident Assistants assigned to the engineering floors are engineering students themselves, and are thus 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. (Sponsored this year by General Motors Corporation)

# **ENGR 194, Women in Engineering Seminar:**

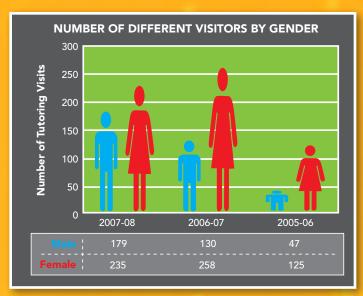
First-year students can choose to take this one-credit course which utilizes dynamic alumnae to inspire, motivate, and reinforce the students' career choices. Students hear presentations from a variety of practicing engineers who talk about their engineering career choices, their daily routines on the 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)

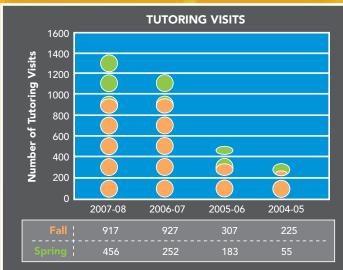
## **WIEP-WISP Tutoring Center:**

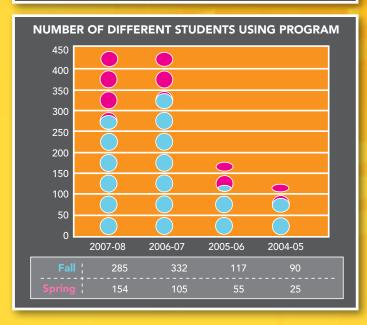
The center offers free, drop-in tutoring services for first-year classes and is co-hosted by the Women in Science Program (WISP). Twenty-eight upper-class science and engineering students were hired and trained as tutors this year. In addition to providing homework help, the tutors are seen as mentors 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 2007-08 academic year, 368 students used the tutoring center 1373 different times. The number of students helped and the number of tutoring sessions held have increased dramatically over the past few years. The percentage of the Tutoring Center participants that are male has increased dramatically this year. Last year only one-third of the people who visited the center were male, and the year before, approximately one-fourth of the users were male. Earhart is in its fifth year housing male students, and this likely accounts for the increased participation by males in the program. However, the number of females using the program continues to be strong, and thus we continue to meet our goal of assisting women with their math, science, and engineering courses.

A majority of the students who used the tutoring service lived in Earhart Hall. Math was the most tutored subject, followed distantly by chemistry. (Sponsored this year by General Motors Corporation and Boeing Corporation)







# UNDERGRADUATE AND GRADUATE RETENTION ACTIVITIES CONTINUED



Graduate Mentoring Program Leadership Team

## **Graduate Mentoring Program:**

The Graduate Mentoring Program provides information and strategies to assist women engineering graduate students to achieve success personally, academically, and professionally. 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. (Sponsored this year by the heads and deans of the College of Engineering)

## **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, emailbased 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. (Sponsored this year by the dean of the College of Engineering)



Graduate Mentoring Program social event at a roller skating rink

# SPEAKERS FY 2007-08

## 2007-08 WIEP Speaker List

Sue Abreu, MD (BSIDE 1978)

Dracon Engeray

Ashley Ackerman (BSChE 2007)

Procter and Gamble

Caroline Anderson (BSCE 2007)

Marathon Petroleum

Chris Barman (BSME 1994)

Chrysler Corp

Allison Barry (BSME 1996)

College of Engineering, Purdue University

Ted Blum (MSCE 1982) Marathon Petroleum

Melanie Brickley (BSIE 2003)

Becton Dickinson & Company

Halle Brooks (BSChE 2001)

BP Products North America

Tuhina Chakrabarti

Raytheon

Tracy Chariton (BSCE 2001)

BSA LifeStructures

Prof. Mary Comer

School of Electrical and Computer

Engineering, Purdue University September Dehen (BSIE 2006)

Cook Biotech, Inc.

leanne Edwards (BSIE 1990)

General Electric

Sara Evans (MSChE 1984)

**ExxonMobil** 

Jenell Fairman (BSCE 1997)

McComas Engineering, Inc.

Paul Fisher (BSIE 2003)

Walt Disney Corporation

Katherine Graham (BSCE 2004)

American Structurepoint, Inc.

Karen Grinker (BSME 1994)

Baxter Healthcare Corporation

Kelly Hanson (BSME 2005)

Whirlpool Corporation

Lynette Hart (BSCEM 1999)

BSA LifeStructures

Domenica Hartman, JD (BSMSE 1981)

Hartman and Hartman

Cindy Heckman

Raytheon

Shelly Helser (BSME 1993)

Procter and Gamble

Julie Holland (BSAAE 1991, MSAAE 1993)

Rolls Royce Corporation

Amanda Horan (BSChE 2005)

Eli Lilly and Company

Elisha Huddleston (BSIE 1999)

General Motors

Lila Ibrahim (BSEE 1993)

Intel Corporation

Prof. Dan liao

School of Electrical and Computer

Engineering, Purdue University

Amy Jines (BSChE 1994)

Eli Lilly and Company

Alyson Keaton (BSABE 1998, MSABE 2000)

USDA-NRCS

Prof. Nicole Key (BSAAE 2000, MSME

2002, PhD ME 2007)

School of Mechanical Engineering,

Purdue University

Prof. Marisol Koslowski

School of Mechanical Engineering,

Purdue University

Tracy Koss (BSCE 1979)

Marathon Petroleum

Keri Kukral (BSIDE 2000)

ArthroCare Corporation

Christy Lester Lane, MD (BSIDE 1996)

Nassim and Associates

Bets Lillo (BSIDE 1981)

Abbott Laboratories

Barbara Mansfield (MSCE 1998)

Office of the Architect, Purdue University

Melissa Marcum (BSChE 1996)

Eli Lilly and Company

Lori McCain (BSIE 1982)

Raytheon

Christine Merrill (MSME 2005)

Cooling Technologies Research Center

Amanda Miller (BSME 2006)

Caterpillar

Christine Moore (BSCE 1991)

United Airlines

Lara Morey (BSCE 1991)

Lara Morey Relief Veterinary Services

Prof. Jayathi Murthy

School of Mechanical Engineering,

Purdue University

Beth Nunning (BSME 1997, MSE 2003)

General Motors

Jada Phillabaum (BSABE 1997)

Caterpillar

Christine Poulin (BSAAE 2006)

Rolls Royce Corporation

Doris (Dodi) Powers (BSAAE 1949)

Jennifer Pyrz (BSCE 1995, MSCS 1997)

Parsons Brinkerhoff

Kari Raplee (BSECE 1994)

Clarian Health Partners Inc.

Assistant Dean Teri Reed-Rhoads

School of Engineering Education,

Purdue University

Jennifer Armour Roach (BSChE 1991)

Procter and Gamble

Cece Berger Sharp (BSChE 1998)

Kimberly Clark

Lt. Sarah Sheppard (BA 1996)

Purdue Police Dept.

Elizabeth Sickels (BSMSE 2002)

General Electric

Kerri Skowron

Walt Disney Corporation

Prof. Alejandro Strachan

School of Materials Engineering,

Purdue University

Diane Tennenhouse (BSChE 2000)

Eli Lilly Corporation

Carla Tibbits

Lvondell

lenny Tuertscher (BSME 1999)

Procter & Gamble

Donna VanKlompenburg (BSME 1982)

Cummins, Inc.

Doug VanKlompenburg

Neibel Engines

Dr. lanice Voss (Eng Sci 1975)

NASA

Prof. Connie Weaver

Department of Foods & Nutrition,

Purdue University

Michele VanArsdall (BSChE 2003)

Unilever

Jane Xu (MSEE 1994, PhD ECE 1998)

Intel Corporation

Rebecca Yassan (BSChE 2000)

Hill Mechanical Group

Sydney Yazdani (BSIE 2007)

Eli Lilly Corporation

Carla Zoltowski (BSEE 1985, MSEE 1987)

EPICS, Purdue University



#### \$20,000 and above

Boeing Company General Motors Foundation Inc. Motorola Foundation

#### \$10,000 - \$19,900

Alcoa Inc.
Bechtel Group Foundation
Caterpillar Foundation
Chrysler Foundation
Lockheed Martin Foundation
P & G Pharmaceuticals, Inc.

## Up to \$10,000

Corning Incorporated
Delphi Foundation, Inc
Eli Lilly and Company
ExxonMobil Chemical Company
Fidelity Charitable Gift Fund
Klettheimer Consulting, Inc.
Lockheed Martin
Marathon Oil Company
PPG Industries Foundation
Schwab Fund for Charitable Giving
United Technologies



# MATCHING DONATIONS FY 2007-08

#### \$1,000 and above

Abbott Laboratories Fund Boeing Gift Matching Program Henry Luce Foundation, Inc. IBM International Foundation Intel Foundation Procter & Gamble Fund

#### \$500 - \$999

Air Products and Chemicals Inc.
Detroit Edison Foundation
Entegris Inc.
Honeywell Hometown Solutions
Kraft Foods MGP
Northrop Grumman Foundation

#### Up to \$500

3M Foundation Inc. Accenture Agilent Technologies Ameren Corporation American Electric Power Anheuser-Busch Foundation AT&T Foundation Baxter International Foundation Bristol-Myers Squibb Fdn. Inc. ConocoPhillips Corning Incorporated Foundation Covidien Emp. Matching Gift Program Dana Corporation Foundation Dell Direct Giving Campaign Dow Chemical Foundation Dow Corning Corporation Eaton Charitable Fund Eli Lilly & Company Foundation Inc MGP Exelon MGP ExxonMobil Foundation GF Foundation General Mills Foundation General Motors Foundation Inc.

Johnson & Johnson/MGP Lexmark International Inc. Lockheed Martin Mtg Gift Prog Medtronic Foundation MGEP Michael Baker Corporation Motorola Foundation Nordson Corporation Pepsi Bottling Group Foundation, Inc. Pfizer Matching Gifts Program Raytheon Company Sartomer Scientific-Atlanta Foundation, Inc. Shell Oil Company Fdn Sun Microsystems Inc. Texas Instruments Foundation The Clorox Company Fdn. Tomkins Corporation Foundation Toyota Motor Manufacturing NA Inc. Trane Foundation of New York United Technologies Corporation Wells Fargo Foundation/MGP Whirlpool Foundation Xerox Corporation U.S.A.

Hallmark Corporate Foundation

Invensys Systems, Inc.

# INDIVIDUAL DONATIONS FY 2007-08



Barbara Haney Tom Head

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

Terry and George Adams Jr. Renee and Brian Binash Bets Lillo and Raymond Bukszar Terry and Cathie Dager lane Zimmer Daniels Abbie Griffin & Ken Schreiner Nishi Gupta Beth and Eric Holloway Nancy and William Huber Betsv Huntinadon loan and Kenneth Isman Kim Jones & Michael McCall Stacey Kacek Shirley and John McCarty Frin McGinnis Heather Newlin & Charles Thompson Patti and Eric Poppe Lois Raphael Janis and Robert Richert Nancy Sarkisian Gretchen and Brian Swain Beth Thompson Hank and Emy Wadsworth

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## Total Gift of Up to \$100

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