An Ambitious Goal

By challenging our members to Aspire, Advance, Achieve and by building strength through corporate and individual partnerships, the Society of Women Engineers empowers women to excel in engineering and technology. As an organization committed to lifelong professional development and mentoring youth, we have the capacity to enhance the lives of future generations.

OUR MISSION
The Society of Women Engineers stimulates women to achieve full potential in careers as engineers and leaders, expands the image of the engineering profession as a positive force in improving the quality of life, and demonstrates the value of diversity.
Strength in Partnership

During fiscal year 2004, SWE’s membership growth continued, bringing our total to nearly 18,000 members. Although size alone is not the sole indicator of strength, our growth clearly demonstrates that we are delivering value to more and more women, those who already have attained positions of power, those who are poised to move up in their organizations, and younger women who hold great promise.

The tagline—Aspire, Advance, Achieve—puts our mission in perspective. Support for this worthy goal is rapidly escalating at every level. Through the generosity of our corporate members in particular, partners in the public and not-for-profit sectors, and individuals as well, we continue to inform, inspire and enrich the lives of increasing numbers of young women from diverse backgrounds.

Strong partnerships will drive SWE’s future impact and the many individual success stories of women in engineering and technology. Every year, women in engineering are rising higher in their organizations.

We have aptly named this annual report, “Strength in Partnership,” to acknowledge the energy of members supporting members at the corporate, working engineer and student levels. Yet we all acknowledge there is much more we can do.

As partners in engineering, we can and will meet the challenges and opportunities before us by leading the effort to make the world a better place for our families, communities, businesses, governments and society at large. Thank you for another outstanding year.
Since 1950, SWE has been the driving force in establishing engineering as an exciting career aspiration for women. SWE offers hundreds of programs that introduce girls to engineering and technology. Our Space Campership program, for example, compels young minority girls to reach for the stars.

The More We Aspire To Be, The Stronger Our Potential

SWE Space Campership Program
A NASA grant in 1991 spawned SWE’s Space Campership program that has enhanced the lives of more than 120 minority girls. Subsequent, generous donations from Chevron, Hewlett-Packard Company and General Motors have ensured the continuation of this wonderful program.

SWE’s all-expense-paid Space Camp in Huntsville, Alabama, has been an inspiration to young girls since its inception in 1991. The continually improving program assigns each camper, based on age, to either the Space Academy or Advanced Space Academy.

Space Academy
Space Academy is an intense program of astronaut and mission training and academics. Simulated missions to a space station and crew rotation highlight the week. From designing, building and launching their own rocket to walking in 1/6th gravity, to maneuvering on a cushion of air with a jet backpack, SWE’s campers are immersed in the challenges and rewards of space exploration. They experience the importance of teamwork as they join the Flight Crew and Mission Control Crew during simulated missions to a space station.

Advanced Space Academy
Older girls are enrolled in the Advanced Space Academy where they earn one hour of college freshman-level general science credit. They learned about the mental, emotional and physical challenges astronauts face. Each girl focused on her field of interest: pilot, mission specialist or payload specialist. The week of training was the basis of a six-hour Space Shuttle mission. Leadership training sessions to prepare them for challenging Shuttle missions are an important part of the program.

After six days, the girls from each program graduated with some very proud parents on hand for the closing ceremonies.
“General Motors is delighted to team up with SWE. By supporting Space Camp, we are providing young girls with a unique experience that will inspire them to pursue careers in engineering.”

– Silvia Karlsson, Engineering, General Motors

Letters from Campers

“I had so much fun and I thank you for choosing me. The opportunity has helped me get through many things, such as my fear of flight. I now know that I still want to join the Navy and become a pilot. Once again I thank you for this opportunity.”

– Christina Gray

“Commander this is CAPCOM, we are Go for launch, and it’s T-30 until launch.” At Space Camp I had the privilege to say those words during one of our missions. I just want to say thank you for giving me this fantastic opportunity to imagine myself as an astronaut.”

– Zeena Khalfan

Fueling Aspirations

SWE designed the Space Campership program to increase the number of female minority students who study math and science in high school and ultimately attend college with a major in engineering.

Although these aspirations are necessary, they are not always sufficient for young women considering engineering careers. The Congressional CAWMSET report (Commission on the Advancement of Women and Minorities in Science, Engineering, and Technology) identifies inadequate financial resources as a barrier to women and minorities studying engineering. To address this issue, the SWE Scholarship Program provides financial assistance to women admitted to accredited baccalaureate or graduate programs, in preparation for careers in engineering, engineering technology and computer science.

FY04 SWE Scholarship Program

In fiscal year 2004, SWE nationally disbursed more than 100 new and renewed scholarships valued at more than $250,000. Many SWE sections also sponsor local scholarship programs not included here.

Freshmen Scholarships

Anne Maureen Whitney Barrow Memorial
DuPont
Exelon
General Electric Foundation
B.J. Harrod
Dorothy M. and Earl S. Hoffman
Honeywell International, Inc.
Admiral Grace Murray Hopper Memorial
B. K. Krenzer Memorial Reentry
Bertha Lamme Memorial
Lockheed Martin Foundation
Northrop Grumman Corporation
SWE New Jersey Section
SWE Phoenix Section
Olive Lynn Salembier Memorial Reentry

Undergraduate Scholarships

ADC Communications and Foundation
Adobe Systems Incorporated
Agilent Technologies Foundation
Anne Maureen Whitney Barrow Memorial
Bechtel Foundation
Caterpillar Inc.
Chevron Corporation
DaimlerChrysler Corporation
Dell Inc.
Delphi, Inc.
DuPont
Electronics For Imaging, Inc.
Ford Motor Company Fund
General Electric Women’s Network
General Motors Foundation
Guidant Foundation
Honeywell International, Inc.
Dorothy Lenke Howarth Memorial
IBM Corporation
B.K. Krenzer Memorial Reentry
Lockheed Martin Aeronautics Company
MASWE Memorial
Elizabeth McLean Memorial
Susan Miszkowicz Memorial
Lillian Moller Gilbreth
Dorothy P. Morris
DuPont
Microsoft Corporation
Northrop Grumman Foundation
Ivy M. Parker Memorial
Lydia I. Pickup Memorial
Ada I. Pressman Memorial
Judith Resnik Memorial
Rockwell Automation
Olive Lynn Salembier Reentry
Sarnoff Corporation
SWE Past Presidents
Meridith Thoms Memorial
Jill S. Tietjen, P.E.

Graduate Scholarships

Bentley/SWE Graduate Merit Scholarship
Caterpillar Inc.
Electronics For Imaging, Inc.
General Motors Foundation
B. K. Krenzer Memorial Reentry
Henry Luce Foundation
Microsoft Corporation
Lydia I. Pickup Memorial
Ada I. Pressman Memorial
Olive Lynn Salembier Memorial Reentry
SWE Past Presidents
Jill S. Tietjen, P.E.
Called to Action
SWE’s growth, volunteers, and energy have long fueled the Society to advance in its mission. The time has come to harness the voices of SWE’s 18,000 members to make an impact on public policy. SWE has the ability to influence our nation’s policymakers to affect the future of women in engineering and technology.

Defining our public policy strategy starts with building the right infrastructure to assure that position statements, communications, relationships and resources are aligned with the Society’s mission and strategic plan. During 2004, SWE launched public policy strategy by creating a Government Relations and Public Policy Committee, appointing a board member to oversee the initiatives, and evaluating strategic relationships to facilitate our journey.

The More We Advance,
The Stronger
Our Influence

SWE empowers women to succeed in their studies and careers. Our professional development programs, career services, and many networking opportunities support the retention, recruitment and advancement of women in engineering and technology. By designing unique professional development programs for each segment of our membership, SWE can service the spectrum of members, from engineering students, through early career professionals all the way to corporate executives. SWE’s Executive Summit, for example, provides unparalleled networking and information-sharing opportunities for women at the top levels of technical corporations.
Executive Summit
Where do women at the top turn for insight? Within SWE, it’s the Executive Summit. Here senior women executives exchange business solutions, receive executive training in a unique environment, and build peer support through network systems.

Just ask Susan Landahl, site vice president at the LaSalle County Nuclear Generating Station for Exelon Corporation. “The Executive Summit was one of the most worthwhile events I have ever attended.” Noting that the Summit’s benefits continue long after the formal session ends, she added, “I continue to stay in touch with everyone from the meeting and highly recommend the experience.”

Begun informally as a dinner gathering at SWE’s 2003 National Conference, the Summit is now an established, comprehensive professional development program designed for senior executive women with a technical background.

Suzanne Jenniches, an executive at Northrop Grumman Corporation and 1999 SWE president, serves as executive champion and co-chair. “The Executive Summit is important for several reasons,” she said. “Through this forum, we provide our women executives with additional tools and resources needed to create an inclusive work environment. Moreover, it affords SWE the opportunity to give back to women who give so much as role models and mentors to the next generation of technical women executives.”

Unique Opportunity for Candor and Objectivity
The Executive Summit borrowed its name from Birmingham Alabama’s Summit Club where the group first gathered in 2003. The women met again during SWE’s 2004 National Conference convening over two days, with 18 women participating in workshops conducted by the Institute for Women’s Leadership.

Summits enable technical women in corporate leadership roles to discuss shared challenges. “These are completely objective forums that allow participants to be candid with female colleagues who are at their own level, but outside their organizations,” said SWE’s director of development Karen Horting. “Knowing that participants have limited time, we provide seasoned facilitators who are able to get right in and break down barriers.”

Horting said plans allow for welcoming larger numbers of women to future Summits. “Our goal is to provide value to all of our members – from entry-level engineers to senior executives. So as the demand grows, our program offerings will also grow.”

Thanks to all those who make SWE’s Executive Summits such valuable forums for advancement.

“The opportunity to network with women executives from various businesses was extraordinary.”

Susan Landahl
Site Vice President, LaSalle County Nuclear Generating Station
Exelon Corporation
Congratulations to all SWE members who reached new career milestones during 2004. Each success serves as an inspiration to other members. Those women at the pinnacle of the engineering profession are particular inspirations. Consider the story of Dr. Sheila Widnall.

The More We Achieve, The Stronger Our Will to Elevate Other Women

Proudly Standing Among Great Women
SWE Member Sheila Widnall Inducted into National Women’s Hall of Fame

On October 4, 2003, Sheila Widnall, Ph.D., joined the esteemed ranks of the National Women’s Hall of Fame. She stands beside great women in the arts, athletics, business, education, government, humanities, philanthropy and science. The Hall’s mission is, “To honor in perpetuity those women, citizens of the United States of America, whose contributions... have been the greatest value for the development of their country.” The inductees are trailblazers, women of courage, achievement, and inspiration. Dr. Widnall, the first woman Secretary of the Air Force, distinguished professor, and recipient of many prestigious awards including SWE’s Achievement Award, was inducted along with 11 others.

A Remarkable Journey
Contemplating her life, in which she has typically been one of a few women, only woman, if not the first woman, Dr. Widnall said, “When you climb up the ladder, don’t pull it up after you... leave it so you can help others to climb it.”

Widnall grew up fascinated with flight. A serious student, she won her high school science fair, graduated, and entered the Massachusetts Institute of Technology as one of 23 female students in a freshman class of 936. Continuing to break new ground, she was the first alumna to join the MIT faculty as an assistant professor.
At MIT, Widnall has served as a professor of aeronautics and astronautics, an Institute professor, the first woman to serve as faculty chair, and associate provost. With a specialty in fluid dynamics, she served on advisory committees to the Military Airlift Command and Wright Patterson Air Force Base and on the USAF Academy Board of Visitors. When President Clinton appointed her Secretary of the United States Air Force in 1993, Widnall became the first woman to serve as secretary of an armed service. She now has returned to MIT.

William Wulf, Ph.D., president of the National Academy of Engineering, made a surprise appearance as a guest presenter at the induction ceremony. Realizing that the meaning of Widnall’s engineering research, academic career, and membership in the National Academy might not be immediately discernable to a general audience, he explained that the National Academy, founded by President Lincoln in 1863 as the National Academy of Science, is an independent advisor to the federal government mandated to conduct research and provide leadership and expertise. Highlighting the significance of Widnall’s Academy membership, he noted that only 3 percent of the living members are female. Of her appointment as an MIT Institute professor, Wulf described the position as one of the university’s highest honors. He presented the medallion to enthusiastic applause. SWE joins in that applause as we congratulate Dr. Widnall for her accomplishments and thank her for being a role model to so many women.

“If women don’t belong in engineering, then engineering as a profession is irrelevant to the needs of our society.”

– Sheila Widnall, Ph.D.

Congratulations to the FY04 SWE Award Recipients

ACHIEVEMENT AWARD
Kristina M. Johnson, Ph.D.
Duke University

UPWARD MOBILITY AWARD
Vicki E. Panhuise, Ph.D.
Honeywell Corporation

ENTREPRENEUR AWARD
Judith Nitsch, P.E.
Judith Nitsch Engineering, Inc.

RODNEY D. CHIPP MEMORIAL AWARD
Jean-Lou A. Chameau, Ph.D.
Georgia Institute of Technology

DISTINGUISHED ENGINEERING EDUCATOR
JoAnn S. Lighty, Ph.D.
The University of Utah

WORK/LIFE BALANCE AWARD
Anne Marie Jollié
Motorola Corporation

DISTINGUISHED NEW ENGINEER AWARD
Carolina C. Desmone
GE Energy

Linette C. Patterson
McLeodUSA

Amy K. Poirier
General Motors

Karen G. Tyll, P.E.
Roux Associates, Inc.

RODNEY D. CHIPP MEMORIAL AWARD
Jean-Lou A. Chameau, Ph.D.
Georgia Institute of Technology

DISTINGUISHED NEW ENGINEER AWARD
Carolina C. Desmone
GE Energy

Linette C. Patterson
McLeodUSA

Amy K. Poirier
General Motors

Karen G. Tyll, P.E.
Roux Associates, Inc.

WORK/LIFE BALANCE AWARD
Anne Marie Jollié
Motorola Corporation

DISTINGUISHED SERVICE AWARD
Marsha A. Meili
The Boeing Company

FELLOW GRADE
Beth Posey-Leonhard
Owens Corning

Felicita Saiez
Global Institute for Technology & Engineering

Beth A. Todd, Ph.D.
The University of Alabama
Corporate partnerships support our efforts and dramatically impact our results. The stronger our partnerships, the more progress we will make in diversity, outreach, and advancement. Among an array of vital sponsorship programs, the Corporate Partnership Council is key to SWE’s growth and continued success.

Officially launched in January 2003, the Corporate Partnership Council (CPC) completed the fiscal year at 24 members strong. Its founding premise was to facilitate frequent interaction among SWE leadership and representatives of major supporting organizations. CPC members, who represent a range of industries, provide ongoing, long-term support to SWE through funding of and participation in a variety of meaningful programs and activities.

In addition, the CPC advises and supports SWE in identifying and developing opportunities that have a real impact. To that end, each CPC member has pledged a portion of its funding to support initiatives chosen by the Council based on their value to all SWE members and the Society as a whole.

CPC Funds Groundbreaking Retention Study
The first CPC initiative is a retention study whose goals include: identifying the retention rates of women in engineering; benchmarking those rates against those of their male colleagues; identifying the key reasons for women leaving engineering; and studying the reasons if and why women choose not to advance in the engineering profession. Through online and mail-in surveys, the project will obtain feedback from at least 2,000 engineers. Results of the study will be instrumental in overcoming the challenges of increasing diversity in the engineering workforce and leadership, both in industry and academia.

Leveraging SWE
Council Partners leverage SWE’s professional development programs to support their retention goals, augment their recruiting efforts through the SWE National Conference and online Career Center, and work through SWE’s passionate membership to expand K-12 outreach programs and pipeline initiatives. Moreover, thrice-yearly meetings provide CPC members with a forum for networking and sharing best practices.

SWE recruits CPC members who are committed to the power of diversity and wish to have a direct impact on advancing the mission of the Society.

“...
Fiscal Year 2004 Sponsorship

SWE's mission is advanced every day through the dedication, effort and innovation of SWE members combined with crucial financial support from corporations, foundations, and individuals who endorse SWE's mission and objectives. By working closely with each organization, we are able to design a sponsorship package that meets the needs of both the sponsor and SWE. Here are just some of the ways our partners are getting involved:

Corporate Partnership Council (CPC)
- CPC members provide assistance to SWE through consultation with SWE leadership, sharing insight on industry trends and developments, and supplying financial support not only for innovative projects but for the operations and infrastructure of the Society as well.
- Each CPC member commits a minimum of $30,000/year to a set of SWE activities of its choice (including unrestricted support).

Corporate Membership
- Diversity in the workforce and in leadership correlates with improved corporate performance. Corporate membership shows commitment to diversity and support for the professional development of women in the organization. SWE corporate membership is available to any corporation, educational institution, or government entity that supports the mission and objectives of the Society.
- SWE’s $3,000 corporate membership package includes nine individual SWE memberships for employees, three full conference registrations for three of the sponsored employees, best practices sharing through formal sessions and a quarterly e-newsletter.

Programs and Initiatives
- To address the Society's objectives, SWE's programs and initiatives target key areas including: K-12 educational outreach, collegiate outreach and scholarships, professional development, diversity, leadership training, and awards and recognition.
- Support for these activities provides high visibility for the sponsor and addresses the particular goals of the sponsor; while allowing SWE to launch or sustain programs that provide vital services to SWE’s members, from entry-level engineers to senior executives.

SWE National Conference Sponsorship
- The SWE National Conference is the Society's premier event for professional development, networking and career advancement, for both student and professional members.
- Conference sponsorship enables SWE to offer high-value, high-impact programming for all members and significant subsidies for each student member's participation.

SWE Magazine Heritage Club Advertising
- SWE, the award-winning magazine of the Society, is published five times per year. The publication provides each SWE professional and student member with inspiration, industry information, and news on the Society.
- The commitment of organizations to advertise consistently in each issue of the magazine enables SWE to deliver a high-quality publication year after year.

A listing of SWE's corporate partners and donors begins on page 12.
### Statement of Financial Position

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<th>Unrestricted</th>
<th>Temporarily Restricted</th>
<th>2004 Total</th>
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<td>Cash/Investments</td>
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<td>Accounts Receivable</td>
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<td>Prepaid Expenses</td>
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<td>Deposits</td>
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<td>Liabilities &amp; Accounts Payable</td>
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<td>Deferred Revenues</td>
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<td><strong>Total Liabilities &amp; Net Assets</strong></td>
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<td><strong>$1,308,597</strong></td>
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### Society Statement of Revenues and Expenses

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<th>Unrestricted</th>
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<td>Other</td>
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<td>Conference</td>
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<td>Programs &amp; Services</td>
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<td>Publications</td>
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<td>Net Assets Released from Restrictions</td>
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<td>Management</td>
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<td><strong>Revenue - Expenses</strong></td>
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### Consolidated Net Assets

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<th>Society</th>
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<th>Other</th>
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<td>Contingency Reserve*</td>
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<td>Scholarship Fund*</td>
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<td>Restricted Grants</td>
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<td>Anne Maureen Whitney Barrow Memorial Scholarship*</td>
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<tr>
<td>General Operating</td>
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<td>$138,991</td>
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<td>Annual Conference</td>
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<td>Headquarters Fund*</td>
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<td>Sponsored Scholarships</td>
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<td>1,420,524</td>
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<td>Rodney D. Chipp Memorial*</td>
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<td><strong>Total Net Assets</strong></td>
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<td>Resnik Challenger Medal*</td>
<td>60,241</td>
<td><strong>$8,194,835</strong></td>
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<td>Motorola Multi-Cultural Program*</td>
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<tr>
<td>Corporate Partnership Council</td>
<td>36,000</td>
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<tr>
<td><strong>Total Society Net Assets</strong></td>
<td><strong>$4,259,608</strong></td>
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*Managed by Board of Trustees
Thanks to SWE’s Corporate Partnership Council Members
Abbott Laboratories
Agilent Technologies
Bechtel
The Boeing Company
Caterpillar Inc.
Chevron Corporation
DaimlerChrysler Corporation
Dell Inc.
DuPont
Exelon
ExxonMobil Foundation
Ford Motor Company
General Electric Company
General Motors Corporation
Goldman, Sachs & Co.
Honeywell International, Inc.
IBM Corporation
Kimberly-Clark Corporation
Lockheed Martin
Medtronic, Inc.
Microsoft Corporation
Northrop Grumman
Raytheon
Rockwell Automation

National Conference Sponsors
Alcoa Foundation
American Council of Engineering Companies
Apple Computer
BAE SYSTEMS
Barge, Waggoner, Sumner & Cannon, Inc.
BE&K, Inc.
The Boeing Company
Caterpillar Inc.
Chevron Corporation
Christy/Cobb, Inc.
Conagra Foods
DaimlerChrysler Corporation
Dell Inc.
Duke University EMBA Programs
DuPont
Eastman Kodak Company
Exelon
Exxon Mobil Corporation
Ford Motor Company
Gallet & Associates, Inc.
General Electric Company
Goldman, Sachs & Co.
Hewlett-Packard Company
Honda Manufacturing of Alabama, LLC
IBM Corporation
ITT Technical Institute
Kimberly-Clark Corporation
Lockheed Martin
Microsoft Corporation
Northrop Grumman
Owens Corning
Praxair
The Procter & Gamble Company
Raytheon
Rensselaer Polytechnic Institute
Rockwell Automation
Rolls-Royce North America
Sam’s Club
Sandia National Laboratories
Schlumberger Technology Corporation
Southern Company
UBS Investment Bank
University of Alabama
Volkert & Associates, Inc.
Walt Disney Imagineering
Washington Group International, Inc.
Westinghouse Electric Company

SWE Magazine Heritage Club
Amerada Hess
Argonne National Laboratory
BAE SYSTEMS
Capital One
Caterpillar Inc.
Exelon
Fermilab
General Motors Corporation
Goldman, Sachs & Co.
John Deere & Company
JHU Applied Physics Lab
Lockheed Martin
Medtronic, Inc.
NAVAIR
Nissan North America
Northrop Grumman
The Southern Company

SWE Corporate Members
Abbott Laboratories
ABB Luminus Global, Inc.
Adam Aircraft Industries
The Aerospace Corporation
Agilent Technologies
Alcoa, Inc.
AMI Semiconductor, Inc.
Argonne National Laboratory
BAE Systems
Bechtel
The Boeing Company
Booz Allen Hamilton
BorgWarner Inc.
BP
Caterpillar Inc.
Chevron Corporation
Cisco Systems, Inc.
Corning Incorporated
DaimlerChrysler Corporation
Dell Inc.
Exelon
Expedia, Inc.
Exxon Mobil Corporation
Fleetguard, Inc.
Fluor Corporation
Ford Motor Company
FPL Group
General Electric Company
General Motors Corporation
Goldman, Sachs & Co.
HNTB Corporation
Honda of America Mfg., Inc.
Honeywell International, Inc.
HRL Laboratories, LLC
IBM Corporation
Institute for Defense Analysis
Johnson & Johnson-CPWW
L-3 Communications
Medtronic, Inc.
Merrick & Company
Microsoft Corporation
The MITRE Corporation
Molex Incorporated
Nissan North America, Inc.
NORESCO
Northeast Utilities
Northrop Grumman
Pall Corporation
Parker Aerospace
Pillsbury Winthrop LLP
The Procter & Gamble Company
Raytheon
Rockwell Automation
Rohm and Haas Company
Schlumberger Oilfield Services
Southern Nuclear
Symbol Technologies Inc.
Thomson
Verizon
Weyerhaeuser Company
Whirlpool Corporation
Platinum Halo
$1000 and above
** Mary Anderson-Rowland
Benjamin Moore & Co.
** Susanna Biancheri
S.D. Bechtel, Jr. Foundation
Bernice Brody
Casey Brown
* Patricia Brown
* Virginia C. Connolly
Sherry Conrad
** Kristine K. Craven
** Pamela L. Dingman
Nicholas Donofrio
Linda Rochelle Drake
Jane L. Driscoll
Laura J. Gimpelson
Goodrich Foundation
John Goodrich
W. George Hairston
The Hess Foundation
** Patricia J. Hoffman
Bishop Homes
** Susan A. Hougendobler
Illinois Tool Works Foundation
** Janet L. Jozwiak
Kim M. Keller
* Rosemary Lafrance
* Marcia L. Lampela
* Margaret E. Layne
* Nora C. Lin
** Ssu-Wei Loh
** Dr. Valerie Maier-Speredelozzi
* Alma U. Martinez Fallon
** Justina H. Mikals
** Shirley J. Mondy
** Andrea S. Morris
Nevada Power Company
Norfolk Southern Foundation
Estate of Lydia Pickup
** Josephine E. Rewald
John Rice
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