

**ON INSIDE FRONT COVER**

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## ENTREPRENEUR AWARD

*For exemplifying entrepreneurial spirit in the establishment of her three companies and their subsequent successes, through her commitment to client service, integrity and ethics.*

### **Cheryl Collarini, PE**

Collarini Engineering Inc., Petro-Temps Inc., and Anchor Engineering L.L.C.

Cheryl Collarini is the chief executive officer of Collarini Engineering Inc., Petro-Temps Inc., and Anchor Engineering L.L.C. As founder and chief executive officer, she is responsible for the overall management and strategic planning for all three of these companies. Specifically, this includes the management of Collarini Engineering's Houston operations, provision of technical supervision and client services in certain situations, and direct reports from the senior vice president in charge of New Orleans office operations, computer systems personnel, and the technical teams in the Houston office, as well as executive management for Petro-Temps Inc. She currently owns 51 percent of the voting stock in both Collarini Engineering Inc. and Petro-Temps Inc., and 40.8 percent in Anchor Engineering L.L.C.

She incorporated her first company, Collarini Engineering Inc., in 1985. The company's mission is to provide the highest quality service in the areas of reservoir engineering, geoscience, oil and gas property evaluation, and data management. The team of engineers, geologists, geophysicists, and technicians provide reserve estimation and auditing, evaluation of oil and gas properties for acquisition, divestment, further development, prospect evaluation for exploration potential, and custom training in the areas of petroleum economics and risk evaluation. Ten years later, in 1995, Petro-Temps Inc. was established as a full-service staffing agency specializing in the placement of upstream petroleum professionals. With a focus on exploration and production personnel, Petro-Temps Inc.'s mission is to provide highly qualified, well-matched personnel to meet the needs of oil and gas companies requiring in-house assistance. The third company, Anchor Engineering L.L.C., was formed in 2000 to own and manage oil and gas production. The talents of the oil and gas professionals employed by Collarini Engineering are utilized to develop opportunities in cooperation with clients, to jointly share in the risks and rewards of oil and gas exploitation.

Establishing her first company was a vehicle for Collarini to conquer personal obstacles and remove professional obstacles to growth. It allowed her the freedom to direct her career and success in a manner she believes would not have otherwise been possible. She was able to do so while staying where her family needed her, taking into account the needs of her parents in the aftermath of her brother's death.

Collarini has built her companies on three over-arching principles: integrity, technical excellence, and client service. Her management philosophy has been consistent since the beginning – fiscally conservative and recognizing and maintaining people as the most important asset. Her employees share her commitment to these principles, and Collarini insists that all of the companies' dealings are in conformance with them. As clients continually reward the companies with recommendations and repeat business, the result has been resoundingly successful. Her adherence to integrity, technical excellence, and client service embody the spirit of this award.

**GENERAL INFORMATION AND SHUTTLE BUS SCHEDULE**

**Shuttle Bus Schedule**

**TUESDAY, JUNE 26**

7:00 am – 8:00 pm Continuous Shuttle between Marriott, Hyatt, Holiday Inn, and Colorado Convention Center

8:00 pm – 9:30 pm Continuous Shuttle between Marriott, Hyatt, and Holiday Inn

**WEDNESDAY, JUNE 27**

7:00 am – 8:30 pm Continuous Shuttle between Marriott, Hyatt, Holiday Inn, and Colorado Convention Center

8:00 pm – 10:30 pm Continuous Shuttle between Marriott, Hyatt, and Holiday Inn

**THURSDAY, JUNE 28**

7:00 am – 8:00 pm Continuous Shuttle between Marriott, Hyatt, Holiday Inn, and Colorado Convention Center

8:00 pm – 10:30 pm Continuous Shuttle between Marriott, Hyatt, and Holiday Inn

**FRIDAY, JUNE 29**

7:00 am – 5:30 pm Continuous Shuttle between Marriott, Hyatt, Holiday Inn, and Colorado Convention Center

5:30 pm – 10:00 pm Continuous Shuttle between Marriott, Hyatt, Holiday Inn, Convention Center, and Seawell Ballroom

**SATURDAY, JUNE 30**

7:30 am – 5:30 pm Continuous Shuttle between Marriott, Hyatt, Holiday Inn and Colorado Convention Center

8:00 pm – 10:30 pm Continuous Shuttle between Marriott, Hyatt, and Holiday Inn

**Cultural Connection Trolley**

The Cultural Connection Trolley is now being operated by Colorado Tour Line, LLC (Gray Line). The trolley stops at the Colorado Convention Center. Cost will be \$14-\$18 per day.

**ROOM AND TIME CHANGES**

**THURSDAY, JUNE 27**

**SWE Business**

**Fund Development Techniques for SWE Professional Sections**

11:00 am – 12:00 pm Room A206, Convention Center

**SWE Section Vitality Forum**

1:00 pm – 3:00 pm Room A206, Convention Center

**How to be a CSR Workshop**

3:30 pm – 4:30 pm Room A206, Convention Center

*(Changes are in italics.)*

**CANCELLATIONS**

**TUESDAY, JUNE 26**

**SWE Business**

**Goal Managers Meeting**

2:30 pm – 4:30 pm Room C101, Convention Center

**Technical Tours**

**Wisdom Industries and Sterling-Overland Trail Museum**

8:30 am – 5:00 pm Lobby C, Convention Center

**AT&T National Digital Television Center**

12:00 pm – 3:30 pm Lobby C, Convention Center

**WEDNESDAY, JUNE 27**

**SWE Business**

**New Student Section Coordinators Meeting**

3:00 pm – 4:00 pm Room A208, Convention Center

**Technical Tours**

**Fort Collins Water Treatment Facility and Horsetooth Reservoir**

8:15 am – 5:00 pm Lobby C, Convention Center

**Non-Technical Tours & Family Programs**

**Day Hike for Adults**

7:00 am – 5:00 pm Lobby, Marriott

Cancellations continued

Wednesday, June 27

Non-Technical Tours &  
Family Programs

Hyland Hills Water World  
9:30 am – 5:00 pm Lobby C, Convention Center

**THURSDAY, JUNE 28**

**Technical Paper Presentations**

**The Impact of the Digital Divide on Women in Today's Work Environments**

1:00 pm Room C101, Convention Center  
Caroline Starita Enos – OptiPlex Quality Engineering, Dell Computer Corporation

**Utilization of Manufacturing and Customer Feedback for Product Improvement (Dell Computer's Process for Releasing New Products)**

2:30 pm Room C101, Convention Center  
Caroline Starita Enos – OptiPlex Quality Engineering, Dell Computer Corporation

**The Future of Knowledge Transfer**

3:15 pm Room C110, Convention Center  
Ariane Cline – Hallam Associates

**Non-Technical Tours & Family Programs**

**Natural Wonders (Dinosaur Ridge, I-70 Geologic Roadcut and Roxborough State Park)**

8:30 am – 5:00 pm Lobby C, Convention Center

**Wings Over the Rockies – Air & Space Museum**

12:30 pm – 3:30 pm Lobby C, Convention Center

**FRIDAY, JUNE 29**

**Technical Paper Presentations**

**Life Choices – Balancing the Scale**

9:30 am Room C208, Convention Center  
Casida C. Llewellyn – Motorola

**Creating Linkages: Using Mentoring and Coaching for Professional and Personal Development**

10:15 am C208, Convention Center  
Patricia B. Noonan and Nancy Page-Cooper – Noonan & Associates

**Nanotechnology to Revolutionize Molecule/Cell Replication**

3:15pm Room C210, Convention Center  
Rosemary Smith – Motorola

**SWE Business**

**Industry Focus Group**

10: 15 am – 11:15 am Room C210, Convention Center

**Non-Technical Tours & Family Programs**

**Celestial Seasonings (Hain Celestial Group) and Leanin' Tree Museum of Western Art**

12:30 pm – 5:00 pm Lobby C, Convention Center

**SATURDAY, JUNE 30**

**Seminars, Panels, and Workshops**

**Future Visions (Living in a Wired World)**

3:00 pm – 5:00 pm Room C105, Convention Center

**SWE Business**

**Goal Managers E & O**

11:00 am – 12:00 pm Suite 6, Marriott

**Non-Technical Tours & Family Programs**

**Child Care**

7:30 am – 5:30 pm Rooms C202/204  
Convention Center

**Anheuser Busch and Clydesdale Hamlet**

8:00 am – 3:00 pm Lobby C, Convention Center

**NEW EXHIBITORS, SPONSORS, AND CHANGES**

**Additional Conference Sponsors**

**Up to \$4,999**

Haystack Toys  
Scanlon Consulting Services  
Schloss Engineered Equipment  
Stellar Solutions  
Technically Speaking, LLC  
U.S. Department of Labor Women's Bureau

**Child Care**

Tuesday, June 26 – Friday, June 29  
Sponsored by Merrick & Company and *Haystack Toys*

**America West**

**Booth 18**

4000 E. Sky Harbor Blvd. CH-DIV  
Phoenix, AZ 85034  
Fax: 480.693.8979

**American Society of Civil Engineers**

**Booth 38**

1802 Alexander Bell Drive  
Reston, VA 20191  
Fax: 703.295.6132  
Website: www.asce.org

New Exhibitors, Sponsors,  
and Changes continued

The American Society of Civil Engineers, founded in 1852, is a not-for-profit professional society. The purpose of the Society includes the advancement of the science and profession of engineering to enhance the welfare of humanity. The ASCE supports and encourages the equitable opportunity for participation of all people within the civil engineering profession.

**Army Corps of Engineers**

**Booth 48**

441 "G" Street NW  
Washington, DC 20314-1000  
Fax: 202.761.1245

**Avaya Inc.**

**Booth 36**

211 Mt. Airy Road  
Basking Ridge, NJ 07920  
www.avaya.com

Avaya, Inc. is a global leader in business communications and services, helping make enterprise networks customer-driven.

**Bureau of Reclamation**

**Booth 49**

Federal Center  
P.O. Box 25007, Building 67  
(D4310)  
Denver, CO 80225  
Fax: 303.445.6348

**Camp Dresser & McKee Inc.**

**Booth 21**

50 Hampshire Street, One Cambridge Place  
Cambridge, MA 02139  
Fax: 617.452.8000

Camp Dresser & McKee Inc. is a global, full-service consulting, engineering, construction, and operations firm helping public and private clients improve the environment and infrastructure. At CDM we work as integrated teams to deliver safe drinking water, protect water resources, treat municipal and industrial wastewater, meet transportation needs, construct treatment plants and industrial facilities, optimize operations, plan manufacturing and distribution systems, manage solid and hazardous waste, and develop information management systems.

**Case Corporation is now CNH**

**Booth 237**

**City and County of Denver**

**Booth 827**

1437 Bannock Street, Room 379  
Denver, CO 80202  
Fax: 720.865.8795  
Website: www.denvergov.org

The City and County of Denver, through its employees, provides for the delivery of high quality, cost effective, efficient, safe services involving all aspects of public infrastructure and facilities to enhance the quality of life in Denver.

**City Public Service of San Antonio**

**Booth 927**

PO Box 1771  
San Antonio, TX 78296-1771  
Fax: 210.353.4633  
Website: www.citypublicservice.com

CPS is one of the nation's largest municipal utilities and serves more than 560,000 electric customers throughout its 1,566 square mile service area, and about 302,000 natural gas customers in the urban San Antonio area. Purchased in 1942 by the City of San Antonio, CPS provides reliable, low-cost energy and energy-related services for San Antonio and the surrounding area.

**Conoco, Inc.**

**Booth 44**

600 N. Dairy Ashford TR 3034  
Houston, TX 77079  
Fax: 281.293.1657  
Website: www.conoco.com

The fifth-largest U.S. based energy company, Conoco operates in more than 40 countries and is active in both the upstream and downstream segments of the global petroleum industry, including exploration, production, transportation, marketing, and refining. Power generation, carbon fibers, and gas-to-liquids technologies are promising emerging businesses for the company.

**Department of Defense Small Business  
Innovation Research (SBIR) Program**

**Booth 618**

Website: www.defenselink.mil

The DOD trains and equips the armed forces through three military departments – the Army, Navy, and Air Force. The Marine Corps, being mainly an amphibious force, is part of the Department of the Navy. The primary job of the military departments is to train and equip their personnel to perform warfighting, peacekeeping, and humanitarian/disaster assistance tasks.

**ESI (Electro Scientific Industries, Inc.)**

**Booth 55**

13900 NW Science Park Drive  
Portland, OR 97229  
Fax: 503.671.5454  
Website: www.esi.com

ESI, headquartered in Portland, Oregon, designs and manufactures sophisticated products used

New Exhibitors, Sponsors,  
and Changes continued

around the world in electronics manufacturing including: laser manufacturing systems for semiconductor yield improvement, production and test equipment for the manufacture of surface mount ceramic capacitors, laser trim systems for precise electrical tuning of circuits, precision laser and mechanical drilling systems for electronic interconnection, and machine vision systems. Electro Scientific Industries is traded on the NASDAQ National Market System under the symbol "ESIO".

**Exelon Infrastructure Services, Inc. (EIS)  
Booth 716**

200 Yale Avenue  
Morton, PA 19070  
Fax: 610.690.6776  
Website: [www.exeloninfrastructure.com](http://www.exeloninfrastructure.com)

Exelon Infrastructure Services, Inc. (EIS), an unregulated enterprise of Exelon Corporation, is a leading provider of infrastructure services for electric, gas, telecommunications, and cable utilities. EIS offers the widest range of utility distribution network services including design/engineering, operations, maintenance, and program management on a project or turnkey basis.

**Frito-Lay Corporation  
Booth 411**

A key component of PepsiCo, Frito Lay is the undisputed leader in the snack food industry, with over 60% of the U.S. market. We manufacture, and sell the most familiar snack brands in existence: Ruffles and Lay's potato chips, Doritos and Tostitos tortilla chips, Rold Gold pretzels, Cheetos cheese flavored snacks, Fritos corn chips, Cracker Jacks, Smartfood popcorn, plus a variety of dips, cookies, crackers and nuts. Frito Lay also created WOW!, the great-tasting fat-free snack.

**Fuji Photo Film  
Booth 628**

611 Montague Avenue  
Greenwood, SC 29649  
Fax: 864.943.4163  
Website: [www.fujifilm.com](http://www.fujifilm.com)

There are many Fujifilm companies operating in America employing over 8000 associates. We are an organization that takes pride in the quality of its products and its service to the customer. We encourage productivity, motivation, and teamwork and strive for excellence in all that we do.

**General Dynamics Land Systems  
Booth 32**

38500 Mound Road  
Sterling Heights, MI 48310-3200  
Fax: 256.539.9345  
Website: [www.gdls.com](http://www.gdls.com)

General Dynamics Land Systems (GDLS) designs and builds armored vehicles and subsystems for the U.S. Army, Marine Corps, and international customers. It is the world leader in the development, product integration and support of armored vehicle technology and electronics systems. GDLS is the only U.S. Army Contractor currently providing command, control, and communication systems developed for and integrated on armored combat vehicles. Desired Discipline(s): EE, ME,, Manufacturing, Computer, CS

**Goldman Sachs & Company, Technology  
Division  
Booth 526**

10 Hanover Square  
New York, NY 10005  
Fax: 212.357.1512  
Website: [www.gs.com](http://www.gs.com)

Goldman Sachs is a leading international investment banking and securities firm, providing a full range of investment and financial services to corporations, governments, institutions, and individuals worldwide. Our Technology Division offers undergraduates unique opportunities to create the technology that is reshaping the world's financial markets. The Technology Division has over 3,000 people in 21 countries and benefits from an annual \$1.6 billion investment which helps to ensure that technology remains embedded in everything we do.

**Harley Davidson Motor Company  
Booth 46**

11800 W. Capitol Drive, P.O. Box 25527  
Wauwatosa, WI 53225-5527  
Fax: 414.616.1339  
Website: [www.harley-davidson.co](http://www.harley-davidson.co)

We fulfill dreams through the experience of motorcycling, by providing to motorcyclists and to the general public an expanding line of motorcycles and branded products and services in selected market segments.

New Exhibitors, Sponsors,  
and Changes continued

**Hispanic Network Magazine**

**Booth 19**  
22845 Savi Ranch Parkway, Suite A  
Yorba Linda, CA 92887  
Fax: 909.924.1139  
www.hnmagazine.com

The *Hispanic Network Magazine* is a Latino lifestyle, business, and employment magazine. Our goal is to create an environment of teamwork, within which everyone involved will fulfill an obligation to provide Latinos and other minorities opportunities in all aspects of business and diversity.

**HNTB Companies**

**Booth 47**  
715 Kirk Drive  
Kansas City, MO 64105  
Fax 816.471.6707  
Website: www.hntb.com

HNTB's roots date to 1914, and today we're a multidisciplinary firm known and respected for our work in transportation, bridges, aviation, architecture, urban design and planning, environmental engineering, construction services, and design-build.

**MentorNet**

**Booth 52**  
c/o College of Engineering  
San Jose State University  
One Washington Square  
San Jose, CA 95192-0080  
Fax: 408.924.4069

**Mirant**

**Booth 50**  
1155 Perimeter Center W  
Atlanta, GA 30338  
Fax: 678.579.5936

Mirant is a new competitive global energy company formerly known as Southern Energy. We bring together operational excellence, risk management, and marketing expertise across a broad global network – all to find the best opportunities for our customers.

**National Society of Black Engineers**

**Booth 17**  
1454 Duke Street  
Alexandria, VA 22314  
Fax: 703.549.0567  
www.nsbe.org

Desired Discipline(s): All  
Location(s) of Employment: Open

**Nuclear Management Company LLC**

**Booth 57**  
700 First Street  
Hudson, WI 54020  
Fax: 715.386.1013

**Peter Kiewit Sons', Inc.**

**Booth 43**  
3555 Farnam Street  
Omaha, NE 68131  
Fax: 402.271.2939  
www.kiewit.com

Peter Kiewit Sons', Inc. currently ranks number one in transportation in the latest ENR ratings. We also build power plants, tunnels, telecommunications projects, buildings, and water resources projects. If you want to work for a leader in the construction industry, Kiewit is the place to be.

**Pillsbury**

**Booth 427**  
330 University Ave SE  
Minneapolis, MN 55414  
Fax: 612.330.1877  
www.Pillsbury.com

Pillsbury is a fast growing, forward-looking, international food company with a strong brand heritage. Pillsbury has 18,000 employees and annual sales of \$6 billion. Our brands include Hungry Jack, Totino's, Green Giant, Progresso, Häagen Dazs and Old El Paso.  
Desired Discipline(s) Desired: ChE and/or Food Science  
Location(s) of Employment: Minneapolis

**Rolls-Royce of North America, Inc.**

**Booth 617**  
14850 Conference Center Drive, Suite 100  
Chantilly, VA 20151  
Fax: 703.318.9733  
www.rollsroyce.com

**State Water Resources Control Board**

**Booth 51**  
1001 I Street, 16th Floor  
Sacramento, CA 93814  
Fax: 916.341.5884

**StorageTek**

**Booth 718**  
One Storagetek Drive  
Louisville, CO 80241  
Fax: 303.673.5629  
Website: www.storagetek.com/careers

StorageTek is a \$2 billion worldwide company, with headquarters in Louisville, Colorado, that delivers a broad range of storage solutions for digitized data. StorageTek solutions are easy to

New Exhibitors, Sponsors,  
and Changes continued

manage and allow universal access to data across servers, media types, and storage networks. StorageTek is the innovator and global leader in virtual storage solutions for tape automation, disk subsystems, and storage networking. Because of StorageTek, customers can manage and leverage their digital assets as their businesses grow and can maximize IT productivity to ensure business continuity.

**USG Corporation**  
**Booth 318**

125 South Franklin  
Department #158  
Chicago, IL 60606  
Fax: 312.606.5646

**U.S. Cellular Corporation**  
**Booth 813**

8410 W. Bryn Mawr, Suite 700  
Chicago, IL 60631  
Fax: 773.864.3198

**U.S. Department of Labor**  
**Booth 54**

200 Constitution Avenue NW C5522  
Washington, DC 20210  
Fax: 202.693.7611  
Website: [www.dol.gov](http://www.dol.gov)

The U.S. Department of Labor is charged with preparing the American workforce for new and better jobs, and ensuring the adequacy of America's workplaces. It is responsible for the administration and enforcement of over 180 federal statutes. These legislative mandates and the regulations produced to implement them cover a wide variety of workplace activities for nearly 10 million employers and well over 100 million workers, including protecting workers' wages, health and safety, employment and pension rights; promoting equal employment opportunity; administering job training, unemployment insurance, and workers' compensation programs; strengthening free collective bargaining; and collecting, analyzing, and publishing labor and economic statistics.

**U.S. Mint**  
**Booth 56**

801 9th Street, NW  
Washington, DC 20220  
Fax: 202.756.6462

**U.S. Patent and Trademark Office**  
**Booth 42**

2011 Crystal Drive  
Suite 707  
Arlington, VA 22202  
Fax : 703.305.9864  
[www.uspto.gov](http://www.uspto.gov)

The U.S. Patent and Trademark Office (USPTO), located just outside the nation's capital, is the government agency responsible for granting intellectual property rights for patents and trademarks. The USPTO is a fee funded, performance based organization with more than 6,000 employees, including 3,000 scientists and engineers.

Location(s) of Employment: Arlington, VA

**United Technologies Corporation**  
**Booth 100**

1 Financial Plaza  
Hartford, CT 06101  
Fax: 860.728.6562  
[www.utc.com](http://www.utc.com)

Our products warm you, fly you, cool you, elevate you. Which means even if you do not know our name, you know our products. These products brought us \$24 billion in revenue last year. United Technologies' family of companies include industry leaders such as: Carrier, Hamilton Sundstrand, International Fuel Cells, Otis, Pratt & Whitney, Research Center, and Sikorsky. Find out more about opportunities managing some of the most dynamic enterprises on the planet by visiting our website or submit your resume to: [utcjobs@hotjobs.com](mailto:utcjobs@hotjobs.com), source code: CFSWE. Desired Discipline(s) Desired: ME, EE, CE  
Location(s) of Employment: Worldwide

**Washington Group International, Inc.**  
**Booth 829**

PO Box 5888  
Denver, CO 80217  
Fax: 303.843.3253  
Website: [www.wgint.com](http://www.wgint.com)

Washington Group International, Inc., (WGI) was formed in July 2000 following the acquisition by Morrison Knudsen Corporation of Raytheon Engineers & Constructors. WGI provides engineering, construction and program-management services to the environmental, governmental, heavy-civil, industrial, mining, nuclear-services, operations and maintenance, power, process, transportation, and water-resources markets.

**Exhibitor Cancellations**

**Dell Computer Corporation**  
**FreeMarkets, Inc.**  
**Tektronix**  
**Teradyne**

**NEW SEMINARS, PANELS, AND  
WORKSHOPS**

**THURSDAY, JUNE 28**

**SWE Business**

**SWE Section Development – Electronic Communications Workshop**  
10:00 am – 12:00 pm Room C106, Convention Center

Come hear ideas on how to create effective SWE Section web sites that will attract new people to your Section events. Content that should be included, required links to www.swe.org, and resources that the ECC committee can provide will be discussed. Find out about the Section web template that can assist your Section in developing a web site. And learn about ways to incorporate electronic services in your web site to communicate with Internet viewers of your site.

Presented by: Lauren Post, Region C Gatekeeper

**Board Transition Meeting**  
9:15 pm – 11:00 pm Suite 4, Marriott

Overview and question and answer session regarding the Board Transition Advisory Team recommendations. This session will focus on transition of SWE Board of Director roles, responsibilities, and structure.

Presented by: Rachel McQuillen, Vice President Transition and Libby Allman, Strategic Planning Chair

**FRIDAY, JUNE 29**

**Technical Paper Presentations**

**From ROVs to AUVs: Integrating Automatic Control for Mantaris, Santa Clara University's Third ROV**  
3:15 pm Room C210, Convention Center  
Emily Jean Mounce – Santa Clara University

Underwater research is an exciting field to work in, although difficult because of the extreme environmental conditions. Engineers have developed a variety of robots that are used in underwater applications. Santa Clara University (SCU) began to build such robots in 1998 when an anthropology student was interested in searching for a sunken whaling fleet off the coast of Alaska. Since then, SCU has focused on building remotely operating vehicles, ROVs. These vehicles are tethered and driven by a pilot who is guided by a camera on the vehicle. Autonomous underwater vehicles (AUVs) are not

tethered and look like small submarines. These vehicles are used in research for such areas as underwater vents and geological studies.

**Non-Technical Tours & Family Programs**

**Child Care**  
5:30 pm – 10:30 pm Matchless, Marriott

**SATURDAY, JUNE 30**

**Seminars, Panels, and Workshops**

**Financial Well-Being: What Every Woman Should Know**  
1:00 pm – 2:00 pm Room C108, Convention Center  
The Career Odyssey Track  
Sponsored by DuPont

Ninety percent of women will be solely responsible for financial decision making at some point in their lives. American Express Financial Advisors is committed to making sure that all women are 100% ready to achieve financial well-being. This seminar is an educational program that gives women the financial information and confidence they need to make wise financial decisions. It will focus on six key areas of financial planning: understanding your current financial situation, protecting your assets, accumulating wealth for specific goals, managing income taxes, planning for retirement, and estate planning. Other topics to be discussed include asset allocation, the tax control triangle, pension maximization, and unified credit trusts.

Erin Sweeney has been with American Express Financial Advisors for two years and regularly makes presentations to corporations and individuals. Her BSBA in Finance and Marketing is from the University of Denver.

Natalie Smock has a BS in Chemical Engineering from Vanderbilt University. She previously worked on the American Stock Exchange Options Floor and the Bear Stearns Emerging Markets trading desk. She has recently joined American Express Financial Advisors.

**Financial Well-Being: What Every Woman Should Know**  
2:00 pm – 3:00 pm Room C108, Convention Center  
The Career Odyssey Track  
Sponsored by DuPont

(see above for description – this is a repeat session)

## **SESSION AND SPEAKER INFORMATION**

*(Changes and additions are in italics)*

### **TUESDAY, JUNE 26**

#### **Student Workshops**

##### **Selecting a Job Offer**

8:00 am – 10:00 am Room C109, Convention Center

The Career Odyssey Track

Sponsored by DuPont and Schlumberger

##### **Is An MBA in Your Future?**

3:00 pm – 5:00 pm Room C201, Convention Center

The Career Odyssey Track

Sponsored by DuPont

*Additional Moderator: Dr. Carl H. Harris*

*Panelists: Christine M. Hewitt, Lisa Morrison, Ariane Moyes*

Additional Moderator: Dr. Carl H. Harris is Assistant Dean of Graduate Programs at Arizona State University's College of Business.

Previously, he served for 10 years in the McCombs School of Business at The University of Texas at Austin. His resume reflects experiences as a graduate faculty member. He is a native Texan and has been actively involved in numerous professional organizations and conferences throughout his career. Dr. Harris has an established national reputation as a leader in the utilization of emerging technologies and is serving as an elected member of the Board of Directors of the Graduate Management Admission Council (GMAC).

Panelists: Christine M. Hewitt graduated from Cornell University with a BS in Chemical Engineering in 1997 and is entering her second year at Cornell's Johnson Graduate School of Management (MBA) where her focus is in finance. After receiving her undergraduate degree, Christine worked for three years as a reservoir engineer with Shell Exploration and Production Company headquartered in Houston, Texas. This summer, she is a corporate finance intern in Sales and Marketing at Amgen in Thousand Oaks, California. At Cornell, she is President of the Women's Management Council, Johnson Admissions Group member, and co-director of the Johnson's MBA Golf Invitational. Since 1999, Christine has been a member of Cornell's SWE Corporate Steering Committee.

Lisa Morrison received her BS degree in Mechanical Engineering from Ohio State University and her MBA specializing in Supply

Chain Management from Arizona State University in 2001. Before her MBA, Lisa worked as a Project Engineer at an oil refinery, and a Crude Oil Quality Program Coordinator at Amoco Corporation/Supply and Logistics. After some international travel, she will be joining Intel as a sourcing manager. Lisa is a trained gymnast and extremely active in community activities. She is a member of many academic honor societies and a member of Phi Mu social sorority where she has held a number of elected and appointed positions.

Ariane Moyes is the Product Manager for Transoceanic Services at Level 3 Communications, a communications and information services company based in Broomfield, Colorado. Prior to joining Level 3, she worked in Marketing Consulting and Analysis for Corning Incorporated. Ariane received her BS in Geophysics from Boston College in 1993 and then spent 4 years utilizing her knowledge of geophysics by working for Schlumberger's Oil Exploration Division as a Field Seismologist, and Crew Supervisor. She earned her graduate business degree from Carnegie Mellon in 1999.

#### **Seminars, Panels, and Workshops**

##### **Is an MBA in Your Future?**

3:00 pm – 5:00 pm Room C201, Convention Center

(see above under Student Workshops)

### **WEDNESDAY, JUNE 27**

#### **Student Conference Activities**

##### **Technical Presentation Competition**

8:00 am – 11:45 am Room C103, Convention Center

*Presenters:*

Region A - Joyce Shih, Stanford University  
**A Lagrangian Formulation of High Rate Quantization**

Region B – Beverly Toperzer, University of Arizona

**Effect of Straight Chain versus Branched Chain Alcohols on Etching of Silicon Dioxide**

Region D – Jenny L. Taylor, University of Alabama

**Spring-Loaded Exercise Device For A Zero-Gravity Environment**

Session and Speaker  
Information continued

Wednesday, June 27

Student Conference  
Activities

Region E – Kezia Tsang, University of Maryland  
– College Park

**Feasibility Study of Using Neural Network For  
Building Damage Detection Function For  
Elastomer Lag Dampers**

Region G – Christine Trinkle, University of  
Kentucky

**Parametric Design and Finite Element  
Analysis of an Aluminum Solar Car Chassis**

Region I – Wendi Pickett, University of Colorado  
at Boulder

**Solar Sail Ripple Pointing Effects Experiment  
(SSPRE): Phase 1**

Region J – C.L. Woodcock, Washington State  
University

**Plastic Zone Development Around  
Nanoindentations**

**Student Workshops**

**Networking Skills for Students**

8:00 am – 9:00 am Room C106, Convention  
Center

*Cleshea Macklin will be presenting with Ronna  
Frazier and Cristina Johnson.*

Cleshea Macklin graduated from the University  
Of Akron. During her four years at The Goodyear  
Tire and Rubber Company, she worked on the  
design of tread and cavity shapes for light truck  
tires. She has been with DuPont for a year as a  
field engineer. Her first rotational assignment is  
in DuET Mechanical Systems group working in  
the molding of polymer processing and  
distribution systems for the Polyester Technology  
organization.

**Seminars, Panels, and Workshops**

**Panel: Volunteerism**

11:00 am – 11:45 am Room C106, Convention  
Center

*Moderator:* Joan Graf is an Information  
Technologies Director for Qwest  
Communications International, Inc., in Denver,  
Colorado. She graduated from the University of  
Minnesota with a BS in Mathematics. Joan has  
been very active in SWE for over 10 years and a  
member for over 25 years. This past year she  
has been instrumental in the planning of the SWE  
Business meetings for the 2001 Conference.  
Joan has been voted director of Region I for  
2001-2003. Joan is presently a volunteer at a  
local theatre. She has been a board member for  
her church, docent at a science museum, and  
Junior Achievement advisor.

*Caroline Starita Enos will not be participating.*

**How to Start and Run Your Own Business**

1:45 pm – 3:15 pm Room C107, Convention  
Center

*Speakers:* Irv Ruppel has been a business  
planner for over 30 years, specializing in small  
and medium size businesses. He has dealt with  
over 300 business clients in matters including  
startup, financing, legal structure, cash flow,  
marketing, expansion, and promotion. He has  
served on many business boards and in advisory  
positions. His experience allows him to  
effectively explain the challenges and rewards of  
being a business owner. Irv is currently  
chairperson for Chapter 62 of the Counselors to  
America's Small Business (SCORE) in the  
Denver area.

Bob Douthitt, SCORE, currently owns his own  
training and consulting business through which  
he helps people and organizations maximize their  
leadership potential. He specializes in leadership  
and team building training and provides personal  
business coaching. Bob is on the Business  
Advisory Board for Denver Technology College  
and is an adjunct faculty for two international  
training centers. He is an Accredited Counselor  
and past Vice-Chair for programs for the Denver  
SCORE Chapter. Bob is currently serving as the  
Director of Training where he teaches basic  
business planning and start-up skills in the  
SCORE workshops.

**Panel: Women in Government**

3:00 pm – 4:30 pm Room C109, Convention  
Center

*Moderator: Jennifer Livingston*

*Panelists: Debra R. Brisk, PE, Lt Col Nancy  
Rhoades Insprucker, Alexis C. Swoboda, PE*

*Moderator:* Jennifer Livingston, PE, is a Resident  
Engineer for the Arizona Department of  
Transportation's (ADOT) Kingman District. She  
is currently responsible for the construction  
administration of ADOT's first rural design-build  
project which will result in the widening of 13.7  
miles of State Route 68, east of Bullhead City,  
Arizona. Jennifer serves as the team leader for  
the SR 95, SR 68, and North US 93 corridors  
within the Kingman District. Jennifer has been a  
member of SWE since 1993. She served as  
President of the Student Sections of the  
University of Houston and the University of New  
Mexico and currently is Chair for the Women In  
Government Committee.

Session and Speaker  
Information continued

Wednesday, June 27

Seminars, Panels &  
Workshops

Panelists: Debra R. Brisk, PE, graduated from South Dakota State University with a BS in Civil Engineering. She received her Masters of Organizational Management from the University of Phoenix. Debra has held numerous positions with the Arizona Department of Transportation. She is currently the district engineer for ADOT's Kingman District.

Lt Col Nancy Rhoades Insprucker is the Medium Launch Vehicles Program Manager, Space and Missile Systems Center, Air Force Materiel Command, Los Angeles Air Force Base, California. She leads a 100 person Air Force/Aerospace team that acquires, certifies and prepares for launch the Atlas IIA, Atlas IIAS, Atlas III, and Delta II launch vehicles. Nancy also serves as the Deputy Mission Director on Combatant Command launches. She received her commission through the U.S. Air Force Academy and has spent nearly 20 years in the space systems acquisition career field--including over 10 years in the National Reconnaissance Office. Prior to her current assignment, Nancy served as the first General Thomas S. Moorman Space Chair, Professor of National Space Systems, at the Joint Military Intelligence College, Defense Intelligence Agency, Washington, D.C. Over the course of her career, Nancy has served as a Test Conductor and Test Director for the launch and checkout of two satellites, taught spacecraft systems design and rocket propulsion at the USAF Academy, received personal commendation by the CJCS for a classified system's support to the warfighter during Desert Shield/Desert Storm, served as the Chief System Engineer in the joint AF-NASA Landsat 7 program office, and led a spacecraft design team for a \$2 billion future national imaging satellite ranked #1 by DOD for its combat utility.

Alexis C. Swoboda, PE, is a Fellow Life member of the Society of Women Engineers and a member of the Central New Mexico Section where she currently serves as a Trustee of the Section. She has been active in three SWE Sections during her career – Rocky Mountain, Dallas, and Central New Mexico. Alexis is a petroleum engineer with the Bureau of Land Management in Roswell, New Mexico and is a registered professional engineer in Texas. She also participates as a member of other professional organizations including the Society of Petroleum Engineers (SPE), National Society of Professional Engineers (NSPE), and the American Association of Petroleum Geologists (AAPG). She is a member of the MATHCOUNTS committee for the local New Mexico NSPE. In Colorado she was a member of the Colorado Engineering Council, an umbrella organization of

engineering societies, where she represented SWE and then SPE.

**Panel: Entrepreneurship**

4:00 pm – 5:30 pm Room C104, Convention Center

*Additional panelists: Janice Sands Ash, PE, Cheryl R. Collarini, PE, Cheri J. Leigh, PE*

Additional panelists: Janice Sands Ash, PE, is founder, owner, and president of Ash Engineering, Inc. Ms. Ash has over 12 years of experience in civil and environmental engineering. While chief design engineer with the City of Tampa Water Department, Ms. Ash designed miles of water transmission and distribution lines, upgraded booster pumps, and modified water treatment plant facilities. As a consultant, she performed civil site design, environmental site audits, and design and permitting of recreational areas. Ms. Ash currently specializes in wetland assessment and permitting, having performed wetland jurisdiction projects for the City of Oldsmar and other municipal, industrial, and private clients. Ms. Ash has served as an adjunct professor teaching water systems design at the University of South Florida.

Cheryl R. Collarini, PE, is President of Collarini Engineering Inc., which she founded in 1985 following an eleven-year career with Mobil Oil. Her experience includes offshore platform design, production and reservoir engineering, offshore project management, and oil and gas property appraisal for project financing, offshore lease sales, and producing property acquisition and sale. She has personally conducted and directly supervised reservoir analyses for acquisition, divestment, reserve reports, and field studies on many hundreds of fields, primarily in the offshore Gulf of Mexico, Louisiana, and Texas. She has authored several manuals and instructed over 125 seminars in project economics and risk analysis for Mobil, Shell, Amoco, Texaco, SPE, and others. She believes strongly in quality engineering, scientific defensibility, and unimpeachable ethics, all toward the ultimate objective of meeting her customers' needs. Cheryl has served nationally on the SPE Engineering Registration Committee and locally in numerous leadership positions in SPE, SWE, IPAA, and API. Her BS in Civil Engineering is from MIT and she has an MBA from the University of New Orleans. She is a registered petroleum engineer in Louisiana and Texas and the recipient of the SWE 2001 Entrepreneur Award. .

Session and Speaker Information continued

Wednesday, June 27

Seminars, Panels, & Workshops

Cheri J. Leigh, PE, is the founder and Principal of Leigh & O'Kane, LLC, a structural engineering firm in Kansas City. The firm provides structural services for commercial and public buildings. With over 25 years of structural engineering experience, Leigh has led large projects for major corporations prior to starting her own company in 1983. In her current role as manager of the company, Cheri has functional responsibility for strategic planning, marketing and sales, engineering, human resources, and financial management. Ms. Leigh is a gubernatorial appointee to the Missouri Board for Architects, Professional Engineers, and Land Surveyors. She is also Vice Chair of the Structural Exam Committee for the National Council of Examiners for Engineers and Surveyors, and is responsible for writing, reviewing, and grading problems for the national exam. Ms. Leigh has held positions in the Missouri Society of Professional Engineers, the Consulting Engineering Council of Missouri, and is a Fellow Member of SWE.

### **SWE Business**

#### **ExxonMobil Program Grant Presentations**

1:45 pm – 5:00 pm Room C110, Convention Center

#### **1:45 pm – 2:00 pm Santa Clara Valley Section In Pursuit of Real-Time Diverse Solutions in Silicon Valley: A Personal Development Conference**

The Santa Clara Valley Section will be holding a joint professional development conference with other professional societies that are concerned with diversity. The other professional groups are BDPA – IT (Black Data Processing Association – Information Technology), National Society of Black Engineers (NSBE), and the Society of Hispanic Professional Engineers (SHPE). The conference is about professional development but it will be planned and executed with a diversity focus.

2:00 pm – 2:15 pm Humboldt State University Student Section

#### **Go with the Flow**

The program will introduce the concepts of open channel flow, fluid mechanics and appropriate engineering applications to elementary and middle school children through use of fun, hands-on activities. SWE Student Section members will take the flume to schools and will also hold workshops at the University. This project introduces children to some fundamental uses of engineering in the hopes of sparking interest in this career field.

2:15 pm – 2:30 pm Kansas State University Student Section

#### **Women Mentoring Women**

The program is a peer mentoring program designed and run by junior and senior undergraduate women engineers, for encouragement and coaching of incoming freshman women through the first difficult year in the engineering curriculum. A resource guide that documents the program will be made available to other Sections. For this project, we anticipate having four groups each comprised of six freshman women. Each group will be matched with three junior women, for a total of 24 mentees and 12 mentors. The program will consist of tutoring and each semester will have three formal activities that mentors and mentees will be expected to attend.

2:30 pm – 3:00 pm Iowa State University Student Section

#### **Middle School and High School Outreach and Middle School & High School Leadership Conference**

The ISU SWE Student Section is designing a resource packet for middle school and high school teachers and parents. The packets will include information about engineering and ways to encourage children interested in engineering. These packets will be made through acquiring articles and data from many branches of our University and through SWE. They will contain articles that discuss the statistics about classroom students and their abilities. Also included will be ways in which teachers can make engineering a career their students are familiar with and one that students feel comfortable with. It will also contain articles for parents describing what a job in the field of engineering would include, the courses students have to take in college, and contact information.

The leadership conference will take place on the ISU campus and will be held for middle school and high school students. By providing this conference to pre-college students, we hope to strengthen their teamwork, leadership, and engineering skills. We feel that the national goals the conference reinforces are: leadership, education, and visibility. The goal of leadership will be met two-fold. First, a committee of our members will be responsible for putting the conference together. Secondly, the students who attend the conference, will learn leadership skills from our activities and speakers.

Session and Speaker  
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Wednesday, June 27

SWE Business

3:00 pm – 3:15 pm Smoky Mountain Section  
**Professional Engineering Progress**

The PEP program is a series of workshops and seminars designed to increase the number of female professional engineers in leadership positions in the Smoky Mountain Section area of East Tennessee. The program will include a seminar "Progressing as Professionals" that will offer mentoring and networking opportunities with local students and area professionals. The PEP program's primary benefit will be to sponsor exam workshops to local students and engineers. The materials from the workshops and seminars will be available for use by local SWE members, students, and other engineering professionals for use in future leadership development activities. The program will also set up a professional career advancement information center that can be used as a resource for other SWE sections. Building a Better SWE will be divided into four workshop segments 1) Laying the Foundation: SWE Overview; 2) Creating the Framework: Leadership Skills & Effective Meeting Management; 3) Raising the Walls: Membership Growth and Upgrades; and 4) Customizing the Interior: Ideas Exchange.

3:15 pm – 3:30 pm Central Illinois Section  
**Prepare For Your Future**

The program is a two-day workshop dealing with career preparatory issues for engineering college students. The workshop will include sessions on resume writing, interviewing, dressing for success, and evaluating job offers, as well as a plant tour of an engineering facility and a networking night with Central Illinois SWE members. This workshop is intended to give the attendees the "inside scoop" on finding and attaining a great engineering career.

3:30 pm – 3:45 pm Syracuse Greater Area  
Section

**Expanding Girls' Choices to Include  
Engineering**

In conjunction with Girls Incorporated of Central NY, the Greater Syracuse Area Section will design modules about specific engineering and engineering support careers using hands-on activities. A woman working in the particular career will facilitate each of the activities. This project will include an evening of engineering for 75 girls in sixth to ninth grades of which 40% will be from minority backgrounds. A guidebook will be developed that belongs to SWE so that it can be distributed without cost to other SWE Sections.

3:45 pm – 3:55 pm Break

3:55 pm – 4:10 pm Columbia River Section  
**The Spring Seminar Series**

The program targets all practicing women engineers to come together for one or several seminars that focus on engineering ethics, management skills, and systems engineering. These topics have been chosen to have a broad base appeal and bring together a variety of practicing engineers interested in attaining professional development hour (PDH) credits. In Oregon, 30 credits are required every two years to maintain professional engineering licensure.

4:10 pm – 4:25 pm Section Vitality, Membership  
Committee

4:25 pm – 4:40 pm Wichita Area Section  
**Girl Scout Educational Tub**

The Wichita Area Section plans to develop an educational "tub" for the local Girl Scout Council that explores the different disciplines of engineering. A tub is a set of four to eight activities that are related and has instructions for each activity. A SWE member will be selected each year to support the tub with training for the Girl Scout leaders as needed.

4:40 pm – 4:55 pm Pittsburgh Section  
**Engineering Kits K-12**

This is a follow-on project to a previous grant, where girls in grades K-12 are targeted to use exploration kits "E-Kits" by SWE organizations and others such as Girl Scouts, 4H and schools. A second competition for designing "E-Kits" will be held. Production of 100 copies of eight kits will be available.

4:55 pm – 5:10 pm Cal Poly San Luis Obispo  
Student Section  
**Engineering Road Show**

The program will support showing the Engineering Road Show skits to two schools. The Roadshow skits introduce engineering in a fun way as students in costume will perform skits. Career Guidance information will be given to students at the school presentations.

**SWE Section Development – Membership  
Workshop**

2:00 pm – 5:00 pm Room C207, Convention  
Center

*Sponsored by ExxonMobil*

## THURSDAY, JUNE 28

### Conference Highlights & Registration

#### Keynote Breakfast

8:00 am – 9:30 am Ballrooms 1 & 2, Convention Center

*The keynote speaker, Karen Hendricks, has now retired from Baldwin Piano & Organ Company.*

### Career Enhancement Series

#### Diversity: Management's Role in Implementing Change

2:30 pm – 4:00 pm Room C201, Convention Center

The Career Odyssey Track Sponsored by DuPont

Cost: \$25 0.15 CEU

*Claudette Whiting will be replaced by Diane Gulyas*

Diane H. Gulyas is Vice President and General Manager of DuPont's Advanced Fibers businesses based in Richmond, Virginia, at the Spruance Plant site. Diane joined DuPont in 1978 and spent her first ten years in a variety of positions primarily at DuPont's Polymers business. The next four years she was in Europe as European business manager based in Geneva for Engineering Polymers, and plant superintendent at the Mechelen, Belgium site. Diane served as Executive Assistant to the Chairman of the Board, E.S. Woolard, in 1993-1994. Since then, she has held two positions as global business director, Nylon Fibers New Business Development and Global Zytel® Engineering Polymers. Diane is on the Board of Directors for the United Way of Richmond and previously served as Co-Chairman of the John Tyler Community College Workforce Campaign Development Council. She has a BS in Chemical Engineering and completed the Advanced Management Program at Wharton in 1994.

### Seminars, Panels, and Workshops

#### Evaluating Job Offers

1:00 pm – 2:30 pm Room C209, Convention Center

The Career Odyssey Track  
Sponsored by DuPont and Schlumberger

### SWE Business

#### Girl Scouts Workshop: How to Work Successfully with Girl Scouts

3:30 pm – 5:00 pm Room C105, Convention Center

Sponsored by Bechtel Foundation

Girl Scouting has always encouraged girls to explore careers in science and technology. SWE members have the knowledge to make engineering fun while being positive role models for Girl Scouts. This session will share information on how to partner with your local GS Council, give tips on bringing out the best in girls and provide examples of successful SWE programs. The SWE Girl Scout Task Force consists of women who have a great deal of experience working within SWE and with Girl Scouts. These women will be available at the workshop to share their expertise with you so that you can help your Section build a strong partnership with your local Girl Scout Council.

*Presented by:* Esther A. Heller, Girl Scout Task Force Leader, Diversity Chair, Santa Clara Valley Section and Susan Anderson, Girl Scout Task Force Member, Career Guidance Chair New England Shoreline Section.

## FRIDAY, JUNE 29

### Seminars, Panels, and Workshops

#### Panel: Dual Careers

9:30 am – 11:30 am Room C205, Convention Center

*Additional panelists:* Andy Rollin, Carol Rollin, Sandra Scanlon, PE

Additional panelists: Andrew Rollin is currently a Systems Engineer for Vitria Technologies, a leading integration server provider. Vitria products integrate applications and automate mission-critical business processes within and across the extended enterprise. Andy provides technical sales support to strategic alliance partners. He has over 15 years of experience developing software and managing software development projects for companies such as Lockheed Martin and Adaptec. Andrew has a BS in Computer Science from the University of North Dakota.

Carol Rollin is currently a Project Manager of Stellar Solutions, Incorporated. Carol has over 19 years experience in Systems Engineering. Her comprehensive background in satellite systems engineering includes program management, process improvement, concept definition, requirements analysis and flowdown for ground systems, contract negotiation, launch preparation, satellite operations, and training. Carol has a BS in Industrial Engineering from Auburn University and an MS in Systems Management from the University of Denver. She has been awarded the Air Force Meritorious

Session and Speaker  
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Friday, June 29

Seminars, Panels, &  
Workshops

Service Medal, Commendation Medal, and  
Achievement Medal.

Sandra Scanlon, PE, founded Scanlon Consulting Services, an electrical design and consulting firm, in 1997 after eight years at Amoco Corporation. She serves industrial, institutional, and commercial clients. Sandra's responsibilities while at Amoco included serving as lead electrical engineer, team leader for safety coordination, teacher at the School of Engineering Technology, and active leader in the Amoco/SWE Advisory Council. She has a BS in Electrical Engineering from Valparaiso University where she helped form the SWE Student Section. She is a senior life member of SWE and received the SWE Distinguished New Engineer Award in 1998. She is a co-chair of the 2001 Conference.

#### **Mid-Career Changes**

10:30 am – 12:00 pm Room C101, Convention  
Center

*Christine Kent will not be participating as a  
speaker.*

#### **Panel: Changing Careers**

1:00 pm – 3:00 pm Room C205, Convention  
Center

*Dodie Powers has retired from Shielding  
Technologies.*

#### **Panel: Elder Care**

3:00 pm – 5:00 pm Room C108, Convention  
Center

*Janet Williams will not be participating as a  
panelist.*

#### **Panel: Women in Academia**

3:00 pm – 5:00 pm Room C201, Convention  
Center

*Moderator: Dr. Elena-McDonald Buller*

*Panelists: Dr. JoAnn Silverstein, Dr. Michelle  
Clauss, Dr. Corinne Lengsfeld, Dr. Shelly Miller*

Moderator: Dr. Elena McDonald-Buller is a Research Associate at the Center for Energy and Environmental Resources at the University of Texas at Austin. She oversees a research group that conducts air quality modeling studies to support policy decisions in Texas. Her research interests lie in the areas of atmospheric chemistry, emissions trading, dry deposition, and the impacts of air quality on public health. Dr. McDonald-Buller received her BS in Civil Engineering from Michigan State University, MS in Environmental Engineering from the Florida

Institute of Technology, and PhD in Civil Engineering from the University of Texas at Austin.

Panelists: Dr. JoAnn Silverstein is a Professor in the Department of Civil, Environmental and Architectural Engineering at the University of Colorado at Boulder. Her work focuses on biological treatment of water and wastewater and bioremediation of acid mine drainage. She is a pioneer in the area of biological denitrification as a treatment process for both wastewater and drinking water. Dr. Silverstein received a Faculty Award for Women Scientists and Engineers from the National Science Foundation in 1992 and the Research/Service Award from the National Water Research Institute in 1996. She was honored as the SWE Distinguished Engineering Educator in 2000. Dr. Silverstein received her BS, MS, and PhD degrees in Environmental Engineering from the University of California, Davis.

Dr. Michelle Clauss is an Associate Professor of Mechanical Engineering at Grove City College in Grove City, Pennsylvania. Her research interests are in the field of biomedical engineering, especially those areas where transport and fluid flow are involved. Her thesis research examined the delivery of macromolecules to tumors and their transport through vessel walls into normal and neoplastic tissues. While at Grove City College, she established the SWE Student Section and has played a key role in forming a Sigma Xi Chapter, The Scientific Research Society. Under her leadership as president of Sigma Xi, her chapter was recognized as a "Chapter of Excellence". She is also planning to begin a math and science summer program for young people within the next year. Dr. Clauss received her BS in Chemical Engineering from Grove City College and her PhD in Chemical and Biomedical Engineering from Carnegie Mellon University.

Dr. Corinne Lengsfeld is an Assistant Professor of Mechanical Engineering at the University of Denver. Her research interests primarily focus on the application of atomization and spray systems and supercritical fluid technology to the areas of biotechnology and biopharmaceuticals. Dr. Lengsfeld received her BS, MS, and PhD degrees in Mechanical Engineering from the University of California, Irvine.

Dr. Shelly Miller is an Assistant Professor of Mechanical Engineering at the University of Colorado at Boulder. Her research interests include indoor air quality, air pollutant personal exposure, and development and evaluation of indoor air quality control measures. Dr. Miller's current projects include engineering controls for reducing exposures to infectious diseases and

Session and Speaker  
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Friday, June 29

source apportionment of personal exposure to toxic air contaminants. Dr. Miller received the Chancellor's Postdoctoral Fellow from the University of Colorado in 1996. In 2000, she received an Environmental Achievement Award from the U.S. EPA Region 8 for her work assessing indoor air quality in schools. Dr. Miller received her BS in Applied Mathematics from Harvey Mudd College and MS and PhD degrees in Civil and Environmental Engineering from the University of California, Berkeley.

#### **Technical Paper Presentations**

##### **Myths About Mentoring, Networking, and Diversity Programs**

1:45 pm Room C208, Convention Center  
The Career Odyssey Track Sponsored by Dupont  
*Patrice Langford – Motorola (Speaker change)*

#### **SATURDAY, JUNE 30**

#### **Career Enhancement Series**

##### **Advanced Project Management Training: Taking It To The Next Level**

8:00 am – 5:00 pm Room C109, Convention Center

*Speakers:* Dianna L. Ballew has an extensive project management background. She has developed training programs for project planning, project tracking and oversight, requirements management, software configuration management, and software quality assurance. She has developed an assessment tool for tracking deliverables produced on projects from the business idea stage through the deployment stage into maintenance and support. Ms. Ballew teaches executives and managers how to track multiple projects and provide effective reporting on issues, jeopardizes, overall status within all levels of an organization.

Dr. James Ballew is a project manager, electrical engineer, and associate professor with over 25 years of experience in the management of engineering, design, procurement, and construction of industrial manufacturing and process facilities. His experience encompasses such industries as pharmaceutical, petroleum and chemical processing, gas and oil production and refining, offshore oil production, pipeline transmission, pulp and paper production, power generation, and mining. His project management expertise covers areas including staffing plans, budgets, critical path management schedules, project progress evaluation programs and progress reports, cash flow projections, supervision of project personnel, and risk

analysis. He is the President and a principal partner in DM Consulting Group, LLC.

#### **Seminars, Panels, and Workshops**

**Panel: Glass Ceiling Perspectives**  
11:00 am – 1:00 pm Suite 3, Marriott

*Eleanor Pope will not be one of the panelists.*

##### **Career Success in High-Tech Industry: Expert Advice from Key Executives**

12:00 pm – 1:00 pm Room C104, Convention Center

*Panelists: Linda Gaskill, Tina Gleisner, Allison Smith-Terrey*

Panelists: Linda Gaskill is a Director in Advanced Engineering for Corning Incorporated where she creates leading-edge technology solutions for the telecommunications industry and advanced materials for scientific, semiconductor, and environmental markets. Linda holds an MS degree in Mechanical Engineering from Rensselaer Polytechnic Institute and in 1997 completed the Stanford University Executive Business Program. In her 20 years at Corning, she has held numerous, significant positions which span all aspects of the Innovation Continuum; R&D, Manufacturing, Engineering, and Business Development. This mixture of technology and business has provided Linda with a unique foundation for creating technology. An exciting highlight of Linda's career was creating one of Corning's most innovative product platforms and a significant new business – Corning's Microarrays Technology. Through this advanced tool for drug discovery, Corning Incorporated is becoming a major leader in the Genomics Revolution. Linda is passionate about and understands the keys to "Turning Ideas into Dollars."

Tina Gleisner is an eBiz consultant at IBM helping customers leverage technology to streamline core business processes and deliver more value to existing and new customers. Using her graduate degrees in Computer Science and Business Administration, Tina provides e-business leadership with new business models and more innovative communications, marketing, commerce and customer service enabled by technology. Tina combined all these skills as the IBM project executive partnering with Hong Kong Telecom to deliver video-on-demand. She understands the key elements required to succeed on the web - strong and enduring relationships, rich and dynamic content and compelling user value that translates to profitable business transactions. With 27 years at IBM, Tina has held numerous technical management

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Seminars, Panels, & Workshops

positions developing operating systems, middleware, and industry applications for the telco/media, finance, health, government, and distribution industries. In the early '90s she worked in Tokyo transforming IBM's Asian programming groups to create industry solution business units in Australia, Singapore, Taiwan and Korea, providing leadership in developing business cases, organizations, solution portfolios, and business processes.

Allison Smith-Terrey is currently a Senior Business Analyst for Product Planning at MapInfo Corporation, a \$100 million company that provides business intelligence solutions and data. In her role, Allison performs a variety of tasks merging her business and technical strengths, including product performance analysis, OEM contract negotiations and management of pricing operations critical to senior level strategy implementation. Allison received a BS degree in Electrical Engineering from the Moore School of Engineering at the University of Pennsylvania. She has held a variety of positions in engineering ranging from Product Engineer with Intel to Project Manager of the Clean Harbors remediation at SUNY New Paltz. To fulfill her growing professional interest with the business aspects of technology, Allison turned to Rensselaer and simultaneously earned an MBA from the Lally School of Management and Technology and a Master of Engineering from the School of Engineering's Decision Sciences and Engineering Systems department.

**Panel; What To Do With Your Time When You Retire**

1:00 pm – 3:00 pm Room C107, Convention Center

*Moderator: Susan K. Whatley*

*Additional Panelist: Kathleen Harer*

Additional Panelist: Kathleen Harer retired from the National Aeronautics and Space Administration in January 1998, following a 30-year engineering career that included work in environmental, safety and health management, and in technology development and commercialization. She recently completed a 2-year assignment working as the Program Manager for L&M Technologies, Inc., in managing a NASA support contract. She is now back at her home in Florida and has begun her retired career again, performing some consulting services but spending most of her time in volunteer work. Kathleen has served in a leadership position for a number of organizations, including President of SWE in 1987-88. She has been recognized by her peers for a number of honors, including SWE Distinguished New

Engineer, SWE Fellow, Florida Engineering Society's Engineer of the Year, Kennedy Space Center Woman of the Year and SWE Space Coast Outstanding Woman Engineer of the Year. Kathleen has a BS in Aeronautics and Astronautics and a BS in Industrial Engineering, both from the University of Washington, and an MBA in management and finance from the University of Tennessee.

**Telecommuting & Flexible Work Schedules Discussion**

2:30 pm – 3:30 pm Room C110, Convention Center

*Brenda Herold will present this discussion alone.*

**Panel: CEO Forum**

3:00 pm – 4:30 pm Room C207, Convention Center

*Peter Mannetti will not be participating.*

**Fellows Panel: Having Our Say – Lessons in Life, Leadership, and SWE**

3:00 pm – 5:00 pm Room C106, Convention Center

*Moderator: Alexis C. Swoboda, PE*

*Panelists: Debra P. Evans, Judith L. Forbes, Ph.D., G. Jean Hoppert, PE, Anna M. Salguero, Irene Sharpe, Susan Whatley, F. Suzanne Jenniches (Alternate)*

Moderator: Alexis C. Swoboda, PE, is celebrating her 25<sup>th</sup> year of SWE membership. She began her SWE career in the Denver Section where she was active in a variety of activities including co-founding their scholarship program and annual essay contest. She has served as the Director of Region C and on the Board of Directors as Vice President for Member Services. Alexis is a Petroleum Engineer with the Bureau of Land Management in Roswell, New Mexico where she is also active in a number of other organizations and was recently honored with the Society of Petroleum Engineers 2001 Southwestern North America Region Regional Service Award.

Panelists: Debra P. Evans has been a SWE member since her undergraduate days at Northwestern University. Debra is Program Manager for the Ford Telematics Business for Motorola. She has been an active member of the Chicago, Los Angeles, and Western Carolina Sections and the Student Sections at Northwestern and the University of Illinois where she earned an MS in engineering. She also holds a MS in Program Management from George

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Workshops

Washington University. Debra is a former member of the Society's Board of Directors and has also been active in organizations including her alma maters, sorority and the St. Joan of Arc PTA and Women's Club.

Judith L. Forbes, Ph.D., became a SWE member before there was even a Student Section at California State University, Fullerton. She earned her Bachelors while her children were in nursery school and her MSE and MBA while her children were growing up. Judie and her children were all in college at the same time while she earned her doctorate. Most recently President of Jandr Associates, a consulting company, Judie has a multi-faceted background in engineering management and technical education. She is active in technical and community organizations including SWE, the American Institute of Aeronautics and Astronautics, the American Association of University Women, Mensa, and the 99s International Women Pilots Association. She is a veteran, USN, a private pilot, and aircraft owner.

G. Jean Hoppert, PE, is a long-time SWE member who has only missed one annual convention since she joined the Society in 1974. Jean is a manufacturing engineer and Operations Manager for M&M Mars, Inc., where she makes candy for a living. Active in SWE throughout the U.S., she is a charter member of three sections and is currently a member-at-large. She has served on the SWE Board of Directors and a number of national committees including the Student Activities Committee and the Long Range Strategy Committee.

Anna M. Salguero served as the Charter President of the Southwest Texas Section of SWE and 1992-93 President of the Society, Anna has been a member since her student days at the University of Texas at El Paso. She has been very active on the national level, serving on a number of committees including Scholarship, Career Guidance, Publicity, Tellers, Nominating, and Upward Mobility Award Selection Committee Coordinator in addition to her service on the Board of Directors as Executive Committee Director, Secretary, Treasurer, Vice President - Student Services and President Elect. She is Principal Member of Technical Staff for SBC Technology Resources, Inc., part of the SBC Global Network family of companies.

Irene Sharpe, a member of SWE since her student days, was the third woman to graduate from Howard University with a BS in Electrical Engineering. Her career has included work with the Federal government, Ford Motor Company, General Motors Corporation, and United Technologies. Her work in SWE and the Society

of Automotive Engineers has supported the continuous advancement of women in engineering.

Susan Whatley, now a member-at-large of the Society, launched her SWE career in the Smoky Mountain Section where she held most offices and went on to serve as the 1985-86 President of the Society. Susan earned her engineering degrees, BS and MS in Engineering Science and Mechanics, while working at the U.S. Atomic Energy Commission and the Oak Ridge National Laboratory. She rose rapidly from a development associate to a top level program manager at Oak Ridge where her work included experimental research on alternate nuclear fuel forms and radioactive waste management, especially in the area of repository licensing analysis and transportation. Now retired, Susan remains active in a number of community activities including serving as the substitute librarian at the Pamlico County Library.

F. Suzanne Jenniches, a former high school biology teacher, Past President of the Society and SWE 2000 Achievement Award recipient is Vice President of Northrop Grumman ESSS Communication Systems. She is actively involved in educational matters and has served on two Governor's Commissions on Higher Education and High Speed Networking. She is now serving on three National Academy of Engineering's Committees on women and diversity.

