

**JILL S. TIETJEN***Consulting Engineer*

An electrical engineer experienced in electric utility and related planning processes and analyses, primarily in the areas of generation, transmission, and fuels. Experienced expert witness.

**EMPLOYMENT CHRONOLOGY**

<b>2001 - present</b>	Technically Speaking, Founder and Principal University of Colorado at Boulder, Various Titles Independent Consultant; Senior Engineer, McNeil Technologies Senior Management Consultant, R.W. Beck (since 2003)
<b>1997-2000</b>	University of Colorado at Boulder Director, Women in Engineering Program and Independent Consultant
<b>1995-1997</b>	Stone & Webster Management Consultants, Inc. Assistant Vice President
<b>1992-1995</b>	Principal, Hagler Bailly Consulting (Previously RCG/Hagler Bailly) Boulder, Colorado
<b>1984-1992</b>	Stone & Webster Management Consultants, Inc. Assistant Vice President
<b>1981-1984</b>	Mobil Oil Corporation Planning Analyst, Mining and Coal Division
<b>1976-1981</b>	Duke Power Company Planning Engineer

**CONSULTING ASSIGNMENTS****Clean Air**

Examined the process used by Big Rivers Electric Corporation to determine that a scrubber should be installed at Henderson Station Two. Presented testimony on the proposed environmental surcharge before the Kentucky Public Service Commission.

Prepared acid rain workshops for company's Utility Management Development Program. Analyzed coal price projections associated with acid rain compliance plans for Illinois Power and the Allegheny Power System. Authored papers on impacts of acid rain legislation.

**Cogeneration/Independent Power Production**

Managed several projects relating to the efficiency of qualified facilities. One project involved preparation of an affidavit in a Federal Energy Regulatory Commission hearing. Managed an appraisal of an IPP in bankruptcy.

Evaluated fuel contracts - primarily coal and petroleum coke - associated with cogeneration projects in various states. Evaluated steam and power sales contracts as well as operational aspects, avoided cost projections, and transmission issues of projects. Prepared feasibility studies and financial viability analysis.

Assisted Public Service Company of Colorado evaluate the options available with regard to the possible repowering/conversion of the Fort St. Vrain nuclear power plant. Assistance included solicitation and evaluation of potential bidders and preparation of request for proposal.

### **Competitive Bidding**

Managed competitive bidding solicitations for supply-side and/or renewable resources. Projects included RFP and PPA development and evaluations of bids. Clients: Northern States Power, The Empire District Electric Company, San Diego Gas & Electric, SaskPower, and Southwestern Public Service.

### **Economic Analysis**

Investigated the competitive market price for the sale of power from coal-fired, geothermal, and hydroelectric power plants. Performed earnings value evaluations for appraisal evaluations.

Projected levelized annual costs for generating units planned for construction. Analysis included evaluation of fuel costs (including both mine and transportation components), escalation rates, operating and maintenance costs, levelizing factors and appropriate capacity factors.

### **Expert Testimony**

Ms. Tietjen has prepared testimony or affidavits for cases before the Federal Energy Regulatory Commission and before regulatory agencies in the states of Illinois, Kansas, Kentucky, Maine, Missouri, Ohio, South Dakota, and Wyoming. Topics have included fuel procurement practices, policies, and procedures; integrated resource planning; nonutility generation markets; economic dispatch practices; avoided costs; fuel and purchased power expenses; and electric system reliability.

### **Fuels**

Assessed market potential for international coals to various destinations including Egypt and South America. Reviewed the economics of several Australian coals for a power plant in South Australia. Analysis included lignite, subbituminous and bituminous coals under various environmental scenarios.

Analyzed projected fuel costs, supply and availability for coal-fired power plants. Evaluated coal contracts and prepared market assessments.

### **Generation Planning**

Evaluated capacity planning alternatives using several models.

Performed production costing and generation expansion modeling for a wide range of domestic and international utilities.

As project manager, developed and applied a decision methodology to evaluate plant life management option decisions for the gas and oil-fired units in California for the California Energy Commission.

### **Integrated Resource Planning**

Project manager of integrated resource planning studies for Bangor Hydro-Electric, Black Hills Power and Light, and the Empire District Electric Company. Efforts supported with testimony filed in multiple jurisdictions.

### **Management Audits**

Managed fuel practices and policies audits of utilities. Participated in a management audit investigating issues of generation planning. Participated in evaluations of system dispatch practices and procedures.

### **Mergers/Acquisitions**

Evaluated impacts of a proposed merger and later a proposed acquisition for Tri-State Generation and Transmission and Colorado-Ute Electric Association. Areas examined included production costs, power purchases, power sales, and fuel contracts.

### **Power Pooling**

Evaluated power pooling costs and benefits for utilities in Indiana and Ohio. Analysis included centralized dispatch, energy brokering system, and economy interchanges. Examined spinning reserve requirements and fuel impacts of pooling operation.

### **Pre-Audit Counsel**

Helped utilities prepare to undergo management audits. Areas assisted include fuels, purchasing, power production, environmental affairs, gas supply and planning. Assisted in interview training.

### **Ratemaking Principles**

Served as advisor to the Iowa Utilities Board on a priori ratemaking principles for utility construction of electric power generation in Iowa.

### **Renewable Resources**

Served as project manager for assessment of alternative wind technologies for a Midwestern utility. Examined the feasibility and economics of biomass generation for a sawmill in Wyoming, an electric utility in Arizona, a reservation in Minnesota, and a public utilities district in California.

### **Transmission Planning**

Identified potential transmission corridor development in California. Examined related environmental issues. Established an advisory committee composed of utilities, federal and state agencies and special interest groups to facilitate transmission line planning. Evaluated bulk power transmission system issues in California. Examined impacts of Qualifying Facility development in certain areas of the Pacific Gas and Electric and Southern California Edison systems.

Examined the impacts of regional operation on Iowa Power's transmission system. Analyzed associated transmission issues including some MAPP proposals. ENEREX operation and the condition of the Company's 161-kV system.

Participated in audits of transmission and distribution loss calculation practices for Northern States Power and Alberta Power Limited.

**Other**

Project manager and expert witness for a proceeding in Illinois with regard to a reliability rule proposed by the staff of the Illinois Commerce Commission.

**UTILITY BACKGROUND****System Planning**

Conducted generation planning studies including production costing and capacity mix analyses using modern computerized planning tools including. Investigated alternative and renewable technologies.

Prepared economic analyses. Examined fuel use requirements. Assisted in fuel budget preparation. Evaluated maintenance scheduling and generation dispatching practices.

Evaluated alternative load control strategies. Studies included cost/benefit analysis and simulation of strategies with examination of resultant impact on utility operations.

**Other**

Member of McGuire Nuclear Station's Crisis Management Team. Speaker's Bureau. On-campus recruitment.

**COAL EXPERIENCE****Fuels**

Prepared competitive marketability studies of coals throughout the United States. Examined the competitiveness of U.S. coals in markets outside the country primarily the Pacific Rim and Europe as compared to Australian, South African and Canadian coals. Conducted utilization studies of coals for use in the marketing of coal to a number of U.S. utilities.

**Cogeneration**

Studies the feasibility of coal-fired cogeneration for enhanced oil recovery at Mobil's facilities in Kern County, California.

**Economic Analysis**

Assess the economics of various pricing scenarios for coal contracts. Evaluated mining costs and profitability.

**OTHER****Strategic Planning**

Participated in the development of the five-year strategic plan and associated budgets and justifications for an alternative energy entity.

**Marketing**

Participated in marketing coal from the Powder River Basin, Wyoming to a wide spectrum of utilities.

**AFFILIATIONS**

Society of Women Engineers — 1991-92 National President, Fellow.  
Georgia Transmission Corporation, Board of Directors, 1997 – present.  
Colorado State Board of Registration for Professional Engineers and Professional Land Surveyors, 1996-2004, Chair, 2001-2003.  
Institute of Electrical and Electronics Engineers, Power Engineering Society, Senior Member.  
International Women's Forum (Colorado), Board of Directors, 1998 – 2000.  
Women's Forum of Colorado Foundation, Board of Directors, 1997 - 2000, President, 1998 – 2000.  
Rocky Mountain Electrical League Board of Directors, 1994-2002; President, 1999-2000.  
Rocky Mountain Electrical League Foundation Board of Directors, 1999-present, Chair, 2002-present.  
Girl Scouts – Mile Hi Council Board of Directors, 1999-present, Chair, 2003-present.  
Board of Trustees, Arapahoe Library District, 1995-2000, President, 1997 – 1999.  
Women in Engineering Programs & Advocates Network - Board of Directors, 1995 – 2001.  
Leadership Denver 1996.

**HONORS**

1990 Certificate of Honor — Colorado Engineering Council.  
Listed in *Who's Who in Engineering*, *Who's Who in Science and Engineering*, and *Who's Who in Technology*.  
1991 John E. Daly Award for Consulting Excellence — Stone & Webster Management Consultants.  
Soroptomist International Women of Distinction Award, 1995.  
Woman of Distinction, Mile Hi Girl Scouts Council, 1997.  
IEEE *Spectrum* Advisor of the Year, 2000.  
Presidential Citation Award, Professional Land Surveyors of Colorado, 2000,  
Woman in Technology Award from the Women's Foundation of Colorado, Subaru, and News4, 2001.  
Distinguished Service Award, Society of Women Engineers, 2002.  
Horizon Award, Outstanding Professional, The Partnership to Advance Science, Engineering, and Technology, 2003.  
Colorado Women's Leadership Coalition, 2004 Woman Leader of Excellence.  
Virginia Engineering Foundation, 2004, Distinguished Alumni Award.  
Tau Beta Pi, 2004 Distinguished Alumna Award.  
One of 50 2004 Trendsetters, *Public Works* Magazine.

**EDUCATION AND OTHER**

University of Virginia, B.S., Applied Mathematics with a minor in Electrical Engineering, 1976.  
(Tau Beta Pi, Virginia Alpha).  
University of North Carolina at Charlotte, M.B.A., 1979.  
Registered Professional Engineering, Colorado.

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**Testimony and Deposition**

Known as Jill S. Baylor May 1976-August 1996

1. Public Utilities Commission of Ohio. "Economic Dispatch Practices, Toledo Edison." 1985.
2. Public Utilities Commission of Ohio. "Fuel Procurement Practices, Policies and Procedures, Toledo Edison." 1987.
3. Maine Department of Environmental Protection. (On behalf of Bangor Hydro-Electric Company.) "Net Benefit Analysis for the Veazie Development and the Basin Mills Development: Integrated Resource Planning." 1992.
4. Wyoming Public Service Commission, Docket No. 20002-EA-92-27. (On behalf of Black Hills Power & Light Company.) "Integrated Resource Planning." 1993.
5. South Dakota Public Utilities Commission, Dockets Nos. EL92-026 and EL92-027. (On behalf of Black Hills Power & Light Company.) "Avoided Costs, Integrated Resource Planning, and Evaluation of Non-Utility Generation Markets." 1993.
6. Missouri Public Service Commission, Case ER-93-41. (On behalf of St. Joseph Light and Power Company.) "Rebuttal Testimony on Production Cost Model, Fuel, and Interchange." 1993.
7. Federal Energy Regulatory Commission, Docket Nos. EL93-45-000 and QF83-248-002. (On behalf of Energy Systems Division of Thermo Electron Corp., et al.) 1993.
8. Illinois Commerce Commission, Docket No. 92-0168. (On behalf of Commonwealth Edison and Central Illinois Public Service Company.) "Reliability Regulation and Measurement." 1993.
9. Kentucky Public Service Commission, Big Rivers Electric Corporation PSC Case No. 94-032. (On behalf of the Kentucky Industrial Utility Customers.) "Coal Price Forecasting and Markets." 1994.
10. General Services Administration Contract Board of Appeals, Contracting Dispute, 1994.
11. Wyoming Public Service Commission, Docket No. 20002-ER-95-48. (On behalf of Black Hills Power & Light Company.) "Integrated Resource Planning." 1995.
12. South Dakota Public Utilities Commission, Docket No. 95-003. (On behalf of Black Hills Power and Light Company.) "Integrated Resource Planning." 1995.
13. Missouri Public Service Commission, Case No. EC-95-28. (On behalf of The Empire District Electric Company.) "Avoided Costs." 1995.

14. Kansas Corporation Commission, Docket No. 191, 205-U. (On behalf of The Empire District Electric Company.) "Avoided Costs." 1995.
15. Colorado Senate Judiciary Committee, Regarding House Bill 1299 "Equal Opportunity Act of 1997," March 10, 1997.
16. Division of Administrative Hearings, State of Colorado, Claim No. 4-338-220, Patricia Bush vs. Coors Ceramics, Witness for the Respondent, February 24, 1998.
17. Commission on the Advancement of Women and Minorities in Science, Engineering, and Technology Development, October 7, 1999.
18. Expert Report on Professional Engineering Behavior and Ethics, United States District Court, District of Colorado, Civil Action No. 99-S-260, Eva B. Huntsinger vs. The Board of Directors of the E-470 Public Highway Authority, Witness for the Plaintiff, October 22, 1999.
19. Colorado Commission on Higher Education, Regarding the Surveying and Mapping Program at Metropolitan State College of Denver, on behalf of the Colorado State Board of Registration for Professional Engineers and Professional Land Surveyors, April 6, 2000.
20. Expert Report on Professional Engineering Behavior and Ethics, District Court, Case No. 00 CV 1690, Division 5, Eva B. Huntsinger v. CH2M Hill Companies, et.al., December 17, 2001.
21. Missouri Public Service Commission, Case No. ER-2002-424. (On behalf of The Empire District Electric Company.) "Purchased Power Pricing and Availability." 2002.
22. Colorado Senate State Veterans and Military Affairs Committee, Regarding Senate Bill 03-080 "Licensure of Landscape Architects," January 28, 2003.
23. Wyoming Senate Revenue Committee, Regarding House Bill HB0188, "Renewable Energy Equipment-Sales Tax Exemption, February 21, 2003.
24. Colorado House of Representatives Business Affairs and Labor Committee, Regarding House Bill 284, Sunset Review of the State Board of Registration for Professional Engineers and Professional Land Surveyors, December 4, 2003.
25. Colorado House of Representatives Business Affairs and Labor Committee, Regarding House Bill 04-1115, Sunset Review of the State Board of Registration for Professional Engineers and Professional Land Surveyors, January 27, 2004.
26. Missouri Public Service Commission, Case No. ER-2004-0570. (On behalf of The Empire District Electric Company.) "Fuel and Purchased Power Expenses; Natural Gas Pricing and Risks; Fuel Adjustment Clause." 2004.
27. Denver City Council, Regarding Broadway Plaza Pedestrian Mall, Phase II Local Maintenance District Notice of Assessment for Girl Scouts – Mile Hi Council, October 18, 2004.

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**Articles/Speeches**

Known as Karen Jill Stein 1954-1976

Known as Jill S. Baylor May 1976-August 1996

**Books**

1. Quoted in *Members of the Club: The Coming of Age of Executive Women*. 1993. Dawn-Marie Driscoll and Carol R. Goldberg. New York: The Free Press, A Division of Macmillan, Inc.
2. *She Does Math! Real-Life Problems from Women on the Job* (contributing author). 1995. M. Parker, ed. Washington, DC: The Mathematical Association of America.
3. *Keys to Engineering Success*. 2001. Jill S. Tietjen, Kristy A. Schloss, et. al. Upper Saddle River, New Jersey: Prentice Hall. [Brief review in *SWE: Magazine of the Society of Women Engineers*, March/April 2001, p. 4.]
4. *Setting the Record Straight: An Introduction to the History and Evolution of Women's Professional Achievement*. 2001. Betty Reynolds, Ph.D. and Jill S. Tietjen, P.E. Denver, Colorado: White Apple Press.
5. *Setting the Record Straight: The History and Evolution of Women's Professional Achievement in Engineering*. 2001. Betty Reynolds, Ph.D. and Jill S. Tietjen, P.E. Denver, Colorado: White Apple Press.
6. *Setting the Record Straight: The History and Evolution of Women's Professional Achievement in Accounting*. 2005. Betty Reynolds, Ph.D. and Jill S. Tietjen, P.E. Denver, Colorado: White Apple Press.
7. *Setting the Record Straight: The History and Evolution of Women's Professional Achievement in Science*. In press. Betty Reynolds, Ph.D. and Jill S. Tietjen, P.E. Denver, Colorado: White Apple Press.

**Technical Reports**

1. *RDI's Outlook for Power in the U.S.* (contributing author), Resource Data International, 1998.
2. *Outlook for Power in North America, 1999 Annual Edition* (contributing author), Resource Data International, 2000.
3. *Electric Transmission: Pathway To Power*, Financial Times Energy, 2000.
4. Quoted and pictured in the Executive Summary, *Women In Technology Report*, Status of Women and Girls in Colorado, Women's Foundation of Colorado, 2001.

**Articles (Technical)**

1. "Transmission Loss Evaluation for Electric Systems" (with Martin W. Gustafson). IEEE 87 SM 467-4, *IEEE Transactions on Power Systems*, 3(3):1026-1032.
2. "Considerations in the Formation of Power Pooling Arrangements" (with Leslie A. Buttorff). 1987. *Public Utilities Fortnightly*, November 26.
3. "The Equivalent Hours Loss Factor Revisited" (with Martin W. Gustafson and Steven S. Mulnix). IEEE 88 WM 166-1, *IEEE Transactions on Power Systems*, 3(4):1502-1507.
4. "Operational Losses Savings Attributable to Load Management" (with Martin W. Gustafson). IEEE 88 SM 659-5, *IEEE Transactions on Power Systems*, 4(1):229-235.



5. "Approximating the System Losses Equation" (with Martin W. Gustafson). 1989. IEEE 89 WM 146-2 — PWRs, *IEEE Transactions on Power Systems*, 4(3):850-855.
6. "Power-System Loss Calculations Are Updated" (with Martin W. Gustafson). 1989. *Transmission and Distribution*, November.
7. "Acid Rain Impacts on Utility Plans for Plant Life Extension." 1990. *Public Utilities Fortnightly*, March.
8. "Making New Rules" (with Michael T. Burr, et al.). 1991. *Independent Energy*, July/August.
9. "The Fair Access Debate." 1991. *Independent Energy*. September.
10. "Direct Water Heater Load Control — Estimating Program Effectiveness Using an Engineering Model" (with Martin W. Gustafson and Gary Epstein). February 1993. IEEE 92 WM 130-5 — PWRs, *IEEE Transactions on Power Systems*, 8(1):137-143.
11. Discussion for "Bulk Transmission System Loss Analysis." Nadira, Wu, Maratukulam, Weber, and Thomas (with Martin W. Gustafson). May 1993. IEEE 92 WM 097-6 — PWRs, *IEEE Transactions on Power Systems*, 8(2):414.
12. "Estimating Air Conditioning Load Control Effectiveness Using an Engineering Model" (with Martin W. Gustafson and Gary Epstein). August 1993. IEEE 92 SM 420-0 PWRs, *IEEE Transactions on Power Systems*, 8(3):972-978.
13. "Communicating the Value of Dispatchability for Nonutility Generation Projects" (with D. Cotcher, K.D. Krauss, and D. Logan). January 1995. IEEE 95 WM 123-0 — PWRs, *IEEE Transactions on Power Systems*.

#### Articles (Nontechnical)

1. "Nuclear Power." 1980. *The Charlotte Observer*, Letter to the Editor, October 16.
2. "Nuclear Power Will Fill Energy Gap." 1980. *The Charlotte Observer*, Letter to the Editor, December 28.
3. "The 'Good Old Days': A Short Course in Appliance History." 1989. *U.S. Woman Engineer*, January/February.
4. "SWE Career-Guidance Programs." 1989. *The Woman Engineer*, SWE Column, April/May, pp. 16-17.
5. "SWE Co-Sponsors Program with NASA." 1989. *Woman Engineer*, Fall, pp. 12-13.
6. "SWE Highlights Women Achievers." 1989/1990. *Woman Engineer*, SWE Column, Winter.
7. "Women Engineers on the Job." 1990. *Engineering Horizons*, Spring.
8. "The SWE Achievement Award." 1990. *Woman Engineer*, SWE Column, Spring.
9. "Newsletter Award." 1990. *U.S. Woman Engineer*, September/October, p. 41.
10. "Break Through The Glass Ceiling." 1991. *Woman Engineer* (SWE Column). Spring.
11. "President's Note: Recognizing Our Achievements." 1991. *U.S. Woman Engineer*. July/August, p. 2.
12. "A Family Business: Opportunities for the Female Entrepreneur." 1991. *U.S. Woman Engineer*, July/August, pp. 23-24.
13. "President's Note: Providing Guidelines for Successful Projects." 1991. *U.S. Woman Engineer*. September/October, p. 3.
14. "President's Note: Awards: Keys to Visibility and Recognition." 1991. *U.S. Woman Engineer*. November/December, p. 2.
15. "Girls are not encouraged to be engineers." 1991. *The Denver Post* (Letter to the Editor). December 29.
16. "President's Note: One Person Can Make a Difference." 1992. *U.S. Woman Engineer*. January/February, p. 2.
17. "We Haven't Come Such a Long Way, Gary." 1992. *Business Week* (Letter to the Editor). January 20.
18. "Stepping Stones to Career Success." 1992. *Careers and the Engineer*, Spring.
19. "Today's society needs engineers of both sexes." 1992. *The Houston Chronicle*, February 27.
20. "Let's stop discouraging girls from careers in engineering and science." 1992. *The Denver Post*, February 29.
21. "President's Note: SWE Enhances Leadership Skills." 1992. *U.S. Woman Engineer*. March/April, p. 3.
22. "Encouraging girls in science, math: Steps are simple, vital." 1992. *The Cincinnati Post*, March 5.
23. "How about 'L.A. Engineer'?" 1992. *The News & Observer*, Raleigh, N.C., March 15.
24. "President's Note: Valuing Diversity." 1992. *U.S. Woman Engineer*. May/June, p. 3.

25. "What I Wish I Had Known When I Graduated from College: Lessons Learned in the Corporate World." 1992. *U.S. Woman Engineer*, November/December.
26. "The Value of Networking." 1993. *U.S. Woman Engineer*, January/February.
27. "Living a Better Life" (with Alexis C. Swoboda). 1993. *U.S. Woman Engineer*, March/April.
28. "The Importance of Networking." 1993. *The Woman in Engineering Program Newsletter* (University of Colorado - Boulder). Fall, page 4.
29. "Women in Motion: Pioneers in Transportation" (with Alexis C. Swoboda). 1994. *SWE Magazine of the Society of Women Engineers*, March/April.
30. "Why is That Woman Wearing a Balloon? Or GET A LIFE!" 1994. *SWE Magazine of the Society of Women Engineers*, May/June, p. 37.
31. "Engineers Can Be Leaders." 1994. *SWE Magazine of the Society of Women Engineers*, November/December.
32. "Turbines do kill raptors, but there's no free lunch." 1994. *The Denver Post*, Letter to the Editor, December 22, 1994.
33. "Admiral Grace Murray Hopper Inducted into National Women's Hall of Fame." 1995. *IEEE Annals of the History of Computing*, Volume 17, No. 1, pp. 59-61.
34. "Women Who Made a Difference: Technological Bridges" (with Alexis C. Swoboda). 1995. *SWE: Magazine of the Society of Women Engineers*, March/April, pp. 16-20.
35. "Snappy Responses to Obnoxious Comments," 1996. *SWE: Magazine of the Society of Women Engineers*, January/February, pp. 23-24.
36. "Steps to Leadership Success," 1996. *SWE: Magazine of the Society of Women Engineers*, May/June, pp. 42-46.
37. "Facilitated Discussion: An Interactive Look at Affirmative Action (with Kristy A. Schloss)," 1996. *SWE: Magazine of the Society of Women Engineers*, July/August, pp. 16-19.
38. "The View Through the Glass Ceiling (with Kristy A. Schloss)," 1996. *SWE: Magazine of the Society of Women Engineers*, September/October, pp. 36-39.
39. "Community Trusteeship," 1997. *SWE: Magazine of the Society of Women Engineers*, May/June, pp. 32-38.
40. "Reporting disappoints," 1997. *The Rocky Mountain News*, Letter to the Editor, July 1.
41. "Choices," 1997. *SWE: Magazine of the Society of Women Engineers*, July/August, pp. 14-15.
42. "Girls need encouraging to learn math, science" 1998. *The Denver Rocky Mountain News*, Letter to the Editor, November 2.
43. "Taking Humor Seriously (with Kristy A. Schloss)," 1999. *SWE: Magazine of the Society of Women Engineers*, May/June, pp. 68-72.
44. "Response to Letter to the Editor, 1999. *SWE: Magazine of the Society of Women Engineers*, September/October, p. 7, 77-79.
45. "Women in Engineering: The Dawn of an Era," *Colorado Engineer Magazine*, Fall 1999, Volume 96, Number 2, pp. 16-19.
46. "Engineering is energizing with WIEP," *Carillon*, January 21, 2000, Diversity Supplement.
47. "All Board Rules Being Overhauled!" *Board News*, Colorado Board of Registration for Professional Engineers and Professional Land Surveyors, Volume XI, April 2000, pp. 1 and 3.
48. "Joy Burns: Businesswoman, Sportswoman, Philanthropist, *Zenith Woman*, Fall 2000, Volume 4, Number 3, p. 28.
49. "Annie Dodge Wauneka: Legendary Mother of the Navajo," *SWE: Magazine of the Society of Women Engineers*, January/February 2001, p. 73.
50. "2001: A SWE Odyssey Invites You to Denver, Colorado," *SWE: Magazine of the Society of Women Engineers*, January/February 2001, pp. 77-79.
51. "2001: A SWE Odyssey Welcomes You to Denver, Colorado," *SWE: Magazine of the Society of Women Engineers*, June 2001, p. 16.
52. "Electronic Signatures & Other Rule Changes," *Board News*, Colorado Board of Registration for Professional Engineers and Professional Land Surveyors, Volume XIII, December 2001, pp. 5 and 7.
53. "End Note," *Virginia Engineering*, Winter 2002, p. 16.

54. "Conferences offer many networking opportunities," *Front Range TechBiz*, April 22-28, 2002, p. 16.
55. "Conferences offer many networking opportunities," *Mass High Tech*, April 22-28, 2002, p. 22.
56. "The FE Exam as an Assessment Tool," 2<sup>nd</sup> National Conference on Outcomes Assessment for Program Improvement, 2002 ABET Annual Meeting, Pittsburgh, Pennsylvania, November 1, 2002.
57. "GREAT women and their Stories," (with Alexis C. Swoboda, P.E.) *SWE: Magazine of the Society of Women Engineers*, Winter 2003, pp. 16-20.
58. "What is That P.E. After Your Name?" (with Alexis C. Swoboda, P.E.) *SWE: Magazine of the Society of Women Engineers*, Winter 2004, pp. 45-46.
59. "Blazing A Trail To A Utility Career," (with Rebecca Shiflea and Ed Blum) *Public Power*, July-August 2004, pp. 36-37.
60. "Sunset review in Colorado: our story," (with Angeline C. Kinnaird) *Licensure Exchange*, National Council of Examiners for Engineering and Surveying, October 2004, Volume 8, Issue 4, pp. 12-13.
61. "Why So Few Women, Still?" *IEEE Spectrum*, October 2004, pp. 57-58. (précis of article appeared in the *International Engineering Education Digest*, October 2004.)
62. "What is that PE in front [sic] of your name?" (with Alexis C. Swoboda, P.E.) *Colorado Engineer Magazine*, Fall 2004, Volume 101, Number 1, pp. 18-19.
63. "So what does an EAC/ABET engineering degree mean anyway?" *Licensure Exchange*, National Council of Examiners for Engineering and Surveying, February 2005, Volume 9, Issue 1, pp. 10-11.
64. "Turning Hope into a Strategy," (with Mary D. Petryszyn) *SWE: Magazine of the Society of Women Engineers*, Spring 2005, pp. 63-64.
65. "Yes, Engineering Is A Woman's Job," *Electronic Design*, April 14, 2005, [www.elecdesign.com/Articles/Print.cfm?ArticleID=10117](http://www.elecdesign.com/Articles/Print.cfm?ArticleID=10117).

#### Articles (Featured in)

1. Profiled and pictured in "DAR Presents Good Citizen Awards to Hampton Girls," *Daily Press* (Hampton, Virginia), May 19, 1972, p. 39.
2. Profiled and pictured in "Former Deacon to be Engineer," by Peter Stein and David Mallinson, Hampton High School/Thorpe Junior High School Commemorative Edition (Hampton, Virginia), 1976, p. 7.
3. One of 10 engineers profiled in "What We Wish We Had Known," by Ellen Branddt, *Graduating Engineer*, March 1988.
4. Profiled in "Finding the Right Job," *The Woman Engineer*, Spring 1989.
5. Quoted in article titled "Engineering fails to break sex barriers," by Connie Pryzant, *The Dallas Morning News*, July 31, 1989.
6. Guest Editor, Pictured and biography presented, *U.S. Woman Engineer*, January/February 1990, p. 1.
7. Quoted in article titled "How We're Shortchanging Women Engineers," by George Nobbe, *Graduating Engineer*, February 1990.
8. Quoted in article titled "Nine Career Tips From Top Minority Managers," by Christopher C. Williams, *Graduating Engineer*, April 1990.
9. Quoted in article titled "Networking," by Peggy Schmidt, *Graduating Engineer*, October 1990.
10. Quoted in article titled "Dressing for Engineering Careers," by Courtney S. Susemihl, *Engineering Horizons*, 1990/1991 Women's Edition.
11. Quoted in article titled "Taking Stock of Your Future," by Adriana Reyneri, *Graduating Engineer*, February 1991.
12. Profiled and pictured in an article titled "Women still rare in engineering," by Caryl Buckstein, *Rocky Mountain News*, May 12, 1991.
13. Profiled and pictured in an article titled "U.Va. Graduate is SWE President-Elect," *Virginia Engineering*, Spring 1991.
14. Pictured and biography presented in, "Meet the 1991-1992 Society President," Society of Women Engineers 1991 National Convention and Student Conference Program – Engineering Our Future Enhancing the Quality of Life, June 24-29, 1991, p. 143.

15. Quoted in an article titled "Salute to Excellence: Computer pioneer receives national recognition," *Around the Fleet*, September 20, 1991, p. 5.
16. Profiled and pictured in an article titled "Baylor Elected President of Engineering Society," *Rocky Mountain Electrical League News*, October 1991, p. 3.
17. Featured in an interview titled "Careers Unlimited," by Kathleen Groll Connolly, *Science and Engineering Horizons*, 1991/92 Women's Edition.
18. Pictured and biography presented in "Highlights From The Denver IRAC" by Gayle Langley, The American Society of Mechanical Engineers – Rocky Mountain Region XII Newsletter, February 1992, pp. 1-2.
19. Featured in an article titled "We Ask You: What is the toughest problem you've ever had to solve?" *Graduating Engineer*, February 1992.
20. Quoted in an article titled "Job Opportunity Barometer," by Valerie Law, *Graduating Engineer*, February 1992.
21. Quoted in an article titled "The Pond Factor," by Mary Ann Castronovo Fusco, *Graduating Engineer*, February 1992.
22. Featured in an article titled "New careers open to women, but overall progress is slow," by William Charland, *Rocky Mountain News*, March 15, 1992.
23. Featured in an article titled "Getting more women into the field of engineering," by William Charland, *Sentinel Enterprise*, Fitchburg, MA, April 2, 1992.
24. Quoted in an article titled "Erasing Gender Stereotypes in Engineering," *Mechanical Advantage*, Spring 1992.
25. Featured in an article titled "Woman blazes a trail in field of engineering," *Journal-Bulletin*, May 11, 1992.
26. Featured in an article titled "Engineers break gender stereotypes," by William Charland, *Seattle Times/Seattle Post Intelligencer*, October 18, 1992.
27. Featured in an article titled "Women Engineers Face Barriers, Opportunities," by Gabrielle Solomon, *National Business Employment Weekly*, February 26-March 4, 1993.
28. Profiled and pictured in an article titled "Baylor appointed to Women's Forum," *Rocky Mountain Electrical League News*, November 1993, p. 3.
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30. Quoted and pictured in an article titled "Manufacturing a New Engineer," by Anne Erickson, *Science and Engineering Horizons*, 1994/1995 Women's Edition.
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34. Quoted in an article titled "You'll Go a Long Way Ms. Engineer," by Terry Deal, *Computer and Engineering Horizons - Women's Edition*, 1996-1997, pp. 12-17.
35. Quoted in an article titled "Is an MBA for me?" by Margo Hittleman, *SWE Magazine of the Society of Women Engineers*, September/October 1997, pp. 30-34.
36. Quoted in an article titled "Women engineers: Their impacts aren't cosmetic," by Jack Cox, *The Denver Post*, November 23, 1997, page 8E.
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40. Quoted in an article titled "Women in Engineering Program focuses on taking intimidation out of science," by Danielle Jimenez, *Carillon*, January 15, 1999, Diversity Supplement.

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42. Quoted in an article titled "CU women engineer their own success," by Danielle Seymour, *Carillon*, April 9, 1999, p. 8.
43. Quoted in an article titled "Career Update: Women in engineering gaining slowly, but steadily," by Lara Jackson, *Control Engineering*, June 1999, p. 17.
44. Quoted in an article titled "CU-Boulder encourages female engineers," by Anitha Ibrahim, *Boulder Planet*, June 30-July 6, 1999.
45. Quoted in an article titled "Workshop harnesses bundle of energy," by Amy Bounds, *Daily Times Call*, August 8, 1999, p. B1.
46. Quoted in an article titled "Progressive Schools Strive to Meet Industry Demand," by Shelley Lane, *Women's Business Chronicle*, August/September 1999, p. 12.
47. Quoted in an article titled "Scientist creates opportunities for minorities," by Stuart Warner, *Plain Dealer* (Cleveland, Ohio), September 18, 1999.
48. Quoted in an article titled "Number of women in top jobs at UCB still low," by Jefferson Dodge, *Silver & Gold Record*, September 23, 1999, p. 5.
49. Quoted in an article titled "Report: Women discriminated against at CU," by Nadia White, *Daily Camera*, October 6, 1999, p. 1A.
50. Quoted in an article titled "The Congressional Commission on the Advancement of Women and Minorities in Science, Engineering and Technology Development," by Anne Perusek, *SWE: Magazine of the Society of Women Engineers*, November/December 1999, p. 26.
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52. Quoted and pictured in an article titled "Recollections from the SWE Presidents," *SWE: Magazine of the Society of Women Engineers*, January/February 2000, pp. 38-56.
53. Quoted in article titled "The First Lady of Engineering," by Anne Perusek, *SWE: Magazine of the Society of Women Engineers*, January/February 2000, pp. 82-92.
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55. Quoted in an article titled "Female execs to join Girl Scouts at camp," by Dahlia, *Denver Rocky Mountain News*, May 2, 2000, p. 14D.
56. Pictured and profiled in an article titled "Meet the movers: Jill Tietjen reinvigorates the women's program at UC-B," by Pru Peterson *Diversity/Careers in Engineering and Information Technology*, April/May 2000, pp. 94-100.
57. Quoted in an article titled "Girls attend career camp," *Golden Transcript*, June 26, 2000.
58. Quoted in an article titled "Teens explore careers at Scouts' Camp CEO," *The Villager*, July 6, 2000.
59. Quoted in an article titled "Why so few female engineering students?" by Katie Ford, *The Denver Business Journal*, July 21-27, 2000, pp. 11A and 14A.
60. Highlighted in an article titled "Wauneka becomes a legend," by Jim Maniaci, *Gallup Independent*, August 28, 2000.
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62. Quoted in an article titled "Women discuss life in the boardroom," by Lyn Berry *The Denver Business Journal*, September 29 – October 5, 2000, pp. 15A – 18A.
63. Quoted in an article titled "Colleges hold key to boost female engineer numbers," by Katie Ford, *Boston Business Journal*, September 29, 2000, pp. 42 and 44.
64. Quoted in an article titled "No-slide Rule," by DeeDee Correll, *The Daily Times-Call* (Longmont, CO), October 15, 2000, pp. F1 and F8.
65. Quoted in an article titled "Mentors sought for women engineering program," *Boulder County Business Report*, October 20, 2000.
66. Quoted in an article titled "Biz leaders headed to camp," by Dahlia, *Rocky Mountain News*, February 27, 2001, p. 14D.

67. Quoted and profiled in an article titled "Definition for success," by Gary Massaro, *Rocky Mountain News*, February 28, 2001, p. 28A
68. Quoted in an article titled "Getting It Right," by Margaret Mannix, *Prism*, March 2001, pp. 14-20.
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70. Quoted and pictured in an article titled, "Corporate Leaders go to Girl Scouts' Camp CEO," by Rachelle Trujillo, *Zenith Woman*, Spring 2001, pp. 14-15.
71. Quoted, pictured, and profiled in an article titled "50 Years of Leadership" by Jennifer Tarplee, *SWE: Magazine of the Society of Women Engineers*, March/April 2001, pp. 52-56.
72. Profiled in an article titled "Governor Makes Appointments to the Board," *Board News*, Colorado State Board of Registration for Professional Engineers and Professional Land Surveyors, April 2001, p.2.
73. Quoted in an article titled "Leaders of Today and Tomorrow Connect at Girl Scout Camp CEO," by Rachelle Trujillo, *The Urban Spectrum*, April 2001, pp. 24-25.
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81. Quoted in an article titled "Career fair to focus on teen girls and science," by Andrew Bach, *The Salina Journal* (Salina, Kansas), January 4, 2002.
82. Quoted in an article titled "U.Va. Women of Engineering," by Josephine P. Pipkin, *Virginia Engineering*, Winter 2002, pp. 10-12.
83. Quoted in an article titled "Women engineers building school's excellence," by Josephine P. Pipkin, *Inside UVa*, February 22, 2002, pp. 4-5.
84. Quoted in an article titled "Engineering a Warmer Welcome for Female Students: The discipline tires to stress its social relevance, an important factor for many women," by Elizabeth F. Farrell, *The Chronicle of Higher Education*, February 22, 2002, pp. A31-A32.
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94. Quoted in an article titled "Denver women leaders mentor Girl Scouts at career conference," *North Denver Tribune*, April 2003.
95. Pictured with an article titled "Girl Scouts name 20 Women of Distinction," by Dahlia, *Rocky Mountain News*, May 29, 2003, p. 14D
96. Highlighted in an article titled "Denver women leaders mentor Girl Scouts at career conference," *Volunteer View*, Girl Scouts – Mile Hi Council, June/July 2003, p. 5.
97. Pictured and profiled in an article titled "Mile Hi Council honors volunteers at dinner," *Volunteer View*, Girl Scouts – Mile Hi Council, June/July 2003, p. 1.
98. Profiled in an article titled "Volunteers Make the Difference," *CUEngineering*, College of Engineering and Applied Science, University of Colorado at Boulder, 2003, p. 31.
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- 100 Profiled in "Briefcase: Nonprofits," *Denver Business Journal*, June 20-26, 2003, p. A31.
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- 102 Quoted in an article titled "Geeky Girls: Aims program puts projects in hands, minds of girls," by Carl McCutchen, *Greeley Tribune*, July 19, 2003.
- 103 Quoted and pictured in an article titled "Past Presidents Recall RMEL and the Issues and Fun of Their Terms," by Jennifer Bernal, *Electric Energy*, Rocky Mountain Electrical League, August 2003, pp. 20-22.
- 104 Pictured and highlighted in "womentowatch," by Judy Harris, *Colorado Woman News*, September 2003, p. 24.
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- 106 Quoted, pictured, and profiled in an article titled "Amped Up About Electrical Engineering: These Six Women Engineers Power Ahead," by Elizabeth Carlassare, *Woman Engineer*, Fall 2003, pp. 18-21.
- 107 Quoted, pictured, and profiled in an article titled "Member Profile: Jill S. Tietjen, P.E.," *Society of Women Engineers Rocky Mountain Section News*, November/December 2003, pp. 6-7.
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- 112 Pictured and quoted in "Nominee Q&A," *Licensure Exchange* (National Council of Examiners for Engineering and Surveying), August 2004, pp. 6-8.
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- 114 Pictured and profiled "Tau Beta Pi: Distinguished Alumna Jill S. Tietjen, P.E.," *The Bent of Tau Beta Pi*, Fall 2004, cover, p. 1, and p. 24.
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- 116 Pictured and profiled in "Tietjen Named Distinguished Alumnus," *Side Shots* (Professional Land Surveyors of Colorado, Inc.) November Journal 2004, p. 32.
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- 118 Pictured and remarks summarized in "Alligator country hosts Tau Beta Pi's 2004 Convention," *The Bent of Tau Beta Pi*, Winter 2005, pp. 43-45.
- 119 Highlighted in "Tau Beta Pi Names EAC Commissioner 204 Distinguished Alumna," *Society Notes*, *ABET Communications Link*, 2004, Issue 3, back cover.
- 120 Pictured and profiled in "Jill Tietjen Named 2004 Trendsetter," *Rocky Mountain Section News*, January/February 2005, Volume 50, Issue 1, p. 1.



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- 123 Quoted in "MentorNet Plays a Professional Development Role at the University of Colorado, Boulder," *MentorNet News*, May 2005, [www.mentornet.net/news/2005/maynews1.aspx](http://www.mentornet.net/news/2005/maynews1.aspx).
- 124 Featured in "Tietjen Rebuts Article about 'Women Scientist'", *SWE-RMS Newsletter*, May/June 2005, Page 4.
- 125 Quoted in "Draining the Talent Pool" by Drew Robb, *Power Engineering*, May 2005, pp. 46-50.
- 126 Pictured and Profiled in "Distinguished Engineering Alumni Awards," *CU Engineering*, University of Colorado at Boulder, College of Engineering and Applied Science, 2005, p. 20.
- 127 Pictured and Featured in "Jill Tietjen – Looking Beyond Dilbert: Life Outside the Cubicles," by Jeanne Siler, *Virginia Engineering*, Spring 2005, p. 22.

### Conference Papers (Technical)

1. "Power by Wire — Expectations and Realities," Proceedings of the Sixth Annual Coal Market Strategies Conference — Dynamics of Utility Coal Use, 2:1-21, Denver, CO, November 1-3, 1988. (Awarded one of 10 best papers for 1988 for Stone & Webster employees.)
2. "Wheeling — Issues and Challenges," Proceedings of the 1989 Electric Utility Business Environment Conference and Exhibition, 101-115, Denver, CO, sponsored by Electric Utilities Consultants, Inc. and RCG/Hagler Bailly, Inc., March 28-30, 1989.
3. "Air Quality Concerns: Impacts on Utility Plans for Life Extension of Coal-Fired Power Plants," Proceedings of the Seventh Annual Coal Market Strategies Conference — Utility Coal Use, Acid Rain, and Other Uncertainties, 3:1-16, Denver, CO, sponsored by Edison Electric Institute Western Coal Council, October 26, 1989. (Awarded one of 10 best papers for 1989 for Stone & Webster employees.)
4. "Transmission Pricing Policies and Access," Proceedings of the 1990 Electric Utility Business Environment Conference and Exhibition, 49-55, Denver, CO, sponsored by Electric Utilities Consultants, Inc. and RCG/Hagler Bailly, Inc., March 7-9, 1990.
5. "Analyzing Utility System Losses." Presented at the T&D World Expo '90, March 1990.
6. "Future Electric Generation: Clean Air At What Cost?" Proceedings of the Fifteenth Annual Conference — Issues in Gas, Electricity, and Telecommunications, 5, July 18-20, 1990. (Awarded one of 10 best papers for 1990 for Stone & Webster employees.)
7. "Transmission Access: Who Pays and How?" Proceedings of the Transmission & Wheeling Conference, 61-70, Denver, CO, sponsored by Electric Utilities Consultants, Inc. and Stone & Webster Management Consultants, Inc., November 8-9, 1990.
8. "Open Access." 1990. Power-Gen '90. November.
9. "Plant Life Management Option Selection Decision Methodology" (with David S. Galpin and Roger L. Johnson). 1990. Power-Gen '90. December.
10. "Why Inter-Area Electric Transmission?" (with Fred E. Depenbrock), Proceedings of the American Power Conference, Volume 53-I, 588-591, Chicago, IL, sponsored by the Illinois Institute of Technology, April 1991.
11. "Decision Methodology for Plant Life Management Option Selection" (with David S. Galpin and Roger L. Johnson), Proceedings of the American Power Conference, Volume 53-I, 485-491, Chicago, IL, sponsored by the Illinois Institute of Technology, April 1991. (Awarded one of 10 best papers for 1991 for Stone & Webster employees.)
12. "Transmission Access: Technical and Political Implications" (with Glenn A. Davidson), Proceedings of the 2nd Annual Transmission & Wheeling Conference, 127-134, Denver, CO, sponsored by Electric Utilities Consultants, Inc. and Stone & Webster Management Consultants, Inc., November 21-22, 1991.
13. "New Transmission Lines: Do We Really Need Them?" (with Glenn A. Davidson). Presented at the Strategic Utility Planning Conference, June 25-26, 1992. (Awarded one of 10 best papers for 1992 for Stone & Webster employees.)



14. "Licensing a Coal-Fired Power Plant in the 1990s — A Utility's Success Story" (with Tom Ohlmacher, Douglas M. Logan, Ludwig Funke, and Scott Carpenter). 1993. Power-Gen '93.
15. "Uncertainty Analysis Without Tears" (with Douglas M. Logan). Proceedings of EPRI's Ninth Electric Utility Forecasting Symposium, September 8-10, 1993.
16. "Modeling Renewable Energy Resources in Utility Planning Models" (with Douglas M. Logan, Alan Taylor, and Peter Lilienthal), Proceedings of the National Regulatory Conference on Renewable Energy, 315-329, Savannah, GA, sponsored by the National Association of Regulatory Utility Commissioners, October 3-6, 1993.
17. "Load Forecasting: Ensuring a Solid Foundation for Integrated Resource Planning" (with Douglas M. Logan and Chris Neil), Proceedings of the Electric Systems Planning and Operations Conference, 1-10, Denver, CO, sponsored by Electric Utilities Consultants, Inc., November 11-13, 1993.
18. "Where and Why Coal Will Remain the Big Player," Proceedings of the Natural Gas and Electric Power Industries Conference, Washington, D.C., sponsored by The Institute of Gas Technology, November 11-13, 1996.
19. "Transmission 101: Understanding the Grid," Coal Market Strategies 2001 – Fueling the Nation's Energy Needs: Bridging the Barriers to Future Coal-fired Power," San Antonio, Texas, October 15-17, 2001.
20. "Integrated Resource Planning in the 21<sup>st</sup> Century" (with Jacqueline C. Sargent), Rocky Mountain Electrical League 2005 Spring Conference, Albuquerque, NM, May 16, 2005.

#### **Conference Papers (Nontechnical)**

1. "Interviewing Skills: Putting Yourself in the Driver's Seat," Proceedings of the Society of Women Engineers' National Convention and Student Conference — Strength Through Diversity: Women & Technology, 313-326, Oakland, CA, June 26-July 2, 1989.
2. "Living A Better Life" (with Alexis C. Swoboda), Proceedings of the Society of Women Engineers' National Convention and Student Conference — Building Tomorrow on Yesterday's Blueprints, 272-278, New York, NY, June 25-July 1, 1990.
3. "Mathematics, Minerals and Molecules" (with Alexis C. Swoboda), Proceedings of the Society of Women Engineers' National Convention and Student Conference — Building Tomorrow on Yesterday's Blueprints, 308-316, New York, NY, June 25-July 1, 1990.
4. "Living A Better Life" (with Alexis C. Swoboda), Conference Record of MIDCON/90, Dallas, TX, sponsored by IEEE and ERA, September 11-13, 1990.
5. "Mathematics, Minerals and Molecules" (with Alexis C. Swoboda), Conference Record of MIDCON/90, Dallas, TX, sponsored by IEEE and ERA, September 11-13, 1990.
6. "Women in Engineering and Science: The Limited Past, A Limitless Future" (with Alexis C. Swoboda), Proceedings of the Society of Women Engineers' National Convention and Student Conference — Engineering Our Future: Enhancing the Quality of Life, San Diego, CA, June 24-29, 1991.
7. "Mathematics, Minerals and Molecules" (with Alexis C. Swoboda), Proceedings of the Ninth International Conference of Women Engineers and Scientists, University of Warwick, United Kingdom, July 14-20, 1991.
8. "Space: Women Challenge the Final Frontier" (with Cynthia Hesse), Proceedings of the Society of Women Engineers' National Convention and Student Conference — Space Challenges: Earth and Beyond, J:4-8, Orlando, FL, June 22-27, 1992.
9. "Women in Motion: Pioneers in Transportation" (with Alexis C. Swoboda), Proceedings of the Society of Women Engineers' National Convention and Student Conference — Gear Up 2000, Women in Motion, 312-316, Chicago, IL, June 21-27, 1993.
10. "Women Who Made a Difference: Technological Bridges" (with Alexis C. Swoboda), Proceedings of the Society of Women Engineers' National Convention and Student Conference — Engineering: A Bridge Into the 21st Century, 69-74, Pittsburgh, PA, June 22-26, 1994.

11. "Facilitated Discussion: An Interactive Discussion on Affirmative Action (with Kristy A. Schloss)," Proceedings of the Women in Engineering Programs Advocates Network Conference — Capitalizing on Today's Challenges, 263-267, Denver, CO, June 1-4, 1996.
12. "Steps to Leadership Success," Proceedings of the Women in Engineering Programs Advocates Network Conference — Capitalizing on Today's Challenges, 9-14, Denver, CO, June 1-4, 1996.
13. "Women Engineers Bridging The Gender Gap (with Betty Reynolds, Ph.D.)," Proceedings of the 1999 International Symposium on Technology and Society – Women and Technology: Historical, Societal, and Professional Perspectives," 206-210, New Brunswick, New Jersey, July 29-31, 1999.
14. "Designing Engineering and Science Education for the 21<sup>st</sup> Century (with Suzanne Franks, Ph.D., Richard Gallagher, Ph.D., Jeff Wright, Ph.D., and Jane Z. Daniels, Ph.D.)," Proceedings of the Women in Engineering Programs & Advocates Network Conference – Second Stage Transformations: Creating a New Vision in the 21<sup>st</sup> Century, 93-98, Washington, DC, June 25-27, 2000.
15. "Integrated Utilities Engineering-Management M.S. Program (with F.S. Barnes, E.F. Fuchs, J. Silverstein, H-Y Ko, T. Lookabaugh, T. Brown, D.C. Sicker)," IEEE Power Engineering Society 2004 General Meeting, Denver, CO, June 7, 2004.
16. "Integrated Utilities Engineering Management M.S. Program (with F.S. Barnes, E.F. Fuchs, J. Silverstein, H-Y Ko, T. Lookabaugh, T. Brown, D.C. Sicker)," 37<sup>th</sup> Annual Frontiers of Power Conference, Stillwater, OK, October 25-26, 2004.

### Technical Presentations

1. "The Mechanical Performance of Polyglycolic Acid Sutures." Presented to the Virginia Academy of Science, May 1975.
2. "Mechanical Performance of Surgical Sutures." Presented at the American Society of Mechanical Engineers Regional Student Conference, March 1976. (Awarded second place.)
3. "How to Evaluate Utility Staff Resource Plans" (with Martin W. Gustafson). Presented to the California Municipal Utilities Association, February 1987.
4. "Geothermal Project Development and Management Market Analysis," (with Leslie A. Buttorff), presented to the Geothermal Resources Council as part of a short course, Sparks, NV, October 9-10, 1987.
5. "Transmission Access and Wheeling." Presented at the Rocky Mountain Electrical League Spring Conference, May 1990.
6. "Engineering and Rate Making Fundamentals," Power Transmission: Access, Pricing and Regulation, San Francisco, CA, presented to Infocast, Inc., September 23, 1991.
7. "Coal Issues and Electric Fuel Management." Stone & Webster Management Consultants' annual Utility Management Development Program, Annual lecture, 1986-1992.
8. "Natural Gas and Coal: Competition or Cooperation?" Presented at Denver Coal Club. February 11, 1993.
9. "Where are We and How Did We Get There?" 32<sup>nd</sup> Annual Paul D. Scholz Symposium on Technology and Its Role in Society, University of Iowa, Iowa City, Iowa, April 5, 2001.
10. "What is Happening in California?" Englewood (Colorado) Lions Club, Englewood, CO, June 19, 2001.
11. "Powering Our Future," Boulder Rotary Club, Boulder, CO, January 4, 2002.
12. "Electrical Power in 2004 and Beyond, Sharkey, Howes & Javer, Inc., Denver, CO, May 12, 2004.
13. "Blackouts, Wind Turbines and Coal: Where is the Power in Your Future?" IEEE and SWE, Clemson University, Clemson, SC, October 6, 2004.

### Nontechnical Presentations

#### "Steps to Leadership Success" or "Steps to Personal Success":

1. Keynote address, Society of Women Engineers' Region J regional conference, Portland, Oregon, October 7, 1995.
2. Society of Women Engineers' Region I student conference, University of Missouri - Columbia, February 3, 1996.

3. Society of Women Engineers' Region I student conference, University of Colorado - Boulder, February 22, 1997.
4. Society of Women Engineers National Convention and Student Conference — The Road to Southwestern Enchantment, Albuquerque, New Mexico, June 25, 1997.
5. Mechanical Engineering Technology class, Metro State College, Denver, Colorado, October 10, 1997.
6. Society of Women Engineer's Region I student conference, University of Tulsa, Tulsa, Oklahoma, February 21, 1998.
7. Society of Women Engineers National Convention and Student Conference — Diversity: Look How Far We've Come, Houston, Texas, June 18, 1998.
8. Pike's Peak Section, Society of Women Engineers, Awards Banquet, Colorado Springs, Colorado, July 18, 1998.
9. Metropolitan State College Mechanical Engineering Technology Project Management Class, Denver, Colorado, September 25, 1998.
10. Virginia Tech Society of Women Engineers, Blacksburg, Virginia, October 1, 1998.
11. University of Wyoming Society of Women Engineers, Laramie, Wyoming, January 27, 1999.
12. Technical Careers Institute, Society of Women Engineers, New York, New York, April 21, 1999.
13. Keynote Speaker, Transformations Graduation Ceremony, Higher Education and Advanced Technology Center, Denver, CO, August 18, 1999.
14. Gill Leadership Conference: Making Dilbert's World Diverse, Boulder, Colorado, April 8, 2000.
15. National Council of Examiners for Engineering and Surveying, Western Zone Meeting, Grand Junction, Colorado, May 20, 2000.
16. Society of Women Engineers National Conference – Beyond 2000: Exploring Perspectives, Washington, DC, June 29, 2000.
17. Society of Women Engineers, Santa Clara Valley Section, Keynote Address, Palo Alto, California, October 18, 2000.
18. Society of Women Engineers, Region J Conference – The Global Workplace in the New Millennium, Keynote Address, Boise, Idaho, October 21, 2000.
19. Duke University, Society of Women Engineers, Durham, NC, November 1, 2000.
20. Girl Scouts – Mile Hi Council, Denver, CO, January 24, 2001.
21. American Indian Science and Engineering Society Region III Conference, Denver, CO, April 6, 2001.
22. Keynote Speaker, Girls in the Middle Conference, La Junta, CO, April 7, 2001.
23. Keynote Speaker, Girl Scouts – Mile Hi Council Silver & Gold Celebration, Denver, CO, April 30, 2001.
24. Keynote Speaker, Society of Women Engineers, Sierra Foothills Section Tenth Anniversary Banquet, Folsom, California, May 12, 2001.
25. Public Seminar, Mississippi State University, Starkville, Mississippi, February 18, 2002.
26. Mini-Conference, Society of Women Engineers, Rocky Mountain Section, Golden, Colorado, April 20, 2002.
27. Women in Cable & Telecommunications, Take your child to work day, Englewood, Colorado, April 25, 2002.
28. Black & Veatch Corporation, Aurora, Colorado, August 22, 2002.
29. Institute of Electrical and Electronics Engineers Spring 2003 Annual Conference, University of Denver, Denver, Colorado, March 1, 2003.
30. Telecommunications Seminar – TLEN 5600, University of Colorado at Boulder, Boulder, Colorado, March 15, 2005.

“What I Wish I Had Known When I Graduated From College”:

1. Society of Women Engineers Region I Student Conference, Wichita State University, Wichita, Kansas, October 1, 1988.
2. University of Virginia Society of Women Engineers, Charlottesville, Virginia, April 1989.
3. University of Colorado at Boulder Society of Women Engineers, Boulder, Colorado, September 20, 1989.
4. Vanderbilt University Society of Women Engineers, Nashville, Tennessee February 20, 1992.
5. University of Colorado at Boulder Society of Women Engineers, Boulder, Colorado, March 14, 1992.

6. Keynote Address, Society of Women Engineers' 1991-1992 Awards Banquet, Cornell University, Ithaca, New York, April 22, 1992.
7. Keynote Address, Oklahoma State University Evening With Industry, Stillwater, Oklahoma, September 26, 1994.
8. University of Wyoming Society of Women Engineers, Cheyenne, Wyoming, January 28, 1997.
9. University of Colorado – Boulder Society of Women Engineers, September 10, 1997.
10. University of Virginia Society of Women Engineers, Charlottesville, Virginia, October 27, 1997.
11. Georgia Tech Society of Women Engineers, Atlanta, Georgia, November 4, 1997.
12. University of Denver Society of Women Engineers, Denver, Colorado, November 10, 1997.
13. American Society of Mechanical Engineers, University of Colorado - Boulder, March 5, 1998.
14. Colorado State University, Society of Women Engineers, Fort Collins, Colorado, September 29, 1998.
15. University of Colorado at Boulder, Society of Women Engineers, Boulder, Colorado, October 27, 1998.
16. University of Virginia, Society of Women Engineers, Charlottesville, VA, January 28, 1999.
17. Kansas State University, Society of Women Engineers, Manhattan, KS, October 13, 1999.
18. Georgia Tech, Society of Women Engineers, Atlanta, GA, November 9, 1999.
19. University of Virginia, Society of Women Engineers, Charlottesville, VA, January 27, 2000.
20. University of Colorado at Boulder, American Institute of Chemical Engineers, Boulder, Colorado, February 15, 2000.
21. University of Wyoming, Society of Women Engineers, Cheyenne, Wyoming, November 7, 2000.
22. University of Virginia, Society of Women Engineers, Charlottesville, Virginia, January 25, 2001.

“Taking Humor Seriously”:

1. Black & Veatch Corporation, Aurora, Colorado, August 22, 2002.
2. Colorado School of Mines, Society of Women Engineers, Golden, CO, February 2, 2005.

“Volunteering: Cornerstone to Career Success”:

1. Keynote Speaker, National Engineers Week Luncheon, Annual Joint Luncheon, Kansas City, MO, February 22, 2001.
2. Keynote Speaker, Society of Women Engineers, Pacific Northwest Section, Seattle, Washington, May 15, 2001.
3. Keynote Speaker, Institute of Electrical and Electronics Engineers Spring 2003 Annual Conference, University of Denver, Denver, Colorado, March 1, 2003.
4. Society of Women Engineers Mini-Conference, Rocky Mountain Section, University of Denver, Denver, Colorado, April 19, 2003.

“Networking Or How May I Help You?”:

1. Keynote Speaker, Society of Women Engineers, Region G Conference, University of Akron, Akron, OH, November 3, 2001.
2. Graduate Student and Fellow Seminar, Mississippi State University, Starkville, Mississippi, February 18, 2002.
3. Society of Women Engineers Mini-Conference, Rocky Mountain Section, University of Denver, Denver, Colorado, April 19, 2003.
4. Telecommunications Seminar – TLEN 5600, University of Colorado at Boulder, Boulder, Colorado, March 15, 2005.

“Breaking the Mold: Women Engineers and Scientists”:

1. Keynote Speaker, Teen Women in Science and Technology Career Fair, Kansas State University – Salina, Salina, Kansas, January 8, 2002.
2. Keynote Speaker, Society of Women Engineers National Engineers' Week Banquet, Mississippi State University, Starkville, Mississippi, February 18, 2002.
3. Keynote Speaker, Society of Women Engineers, 2003 Exploring Engineering and Technology, Denver, Colorado, February 24, 2003.

4. Keynote Speaker, Women's Leadership Symposium and Luncheon: Women and Technology, University of Colorado – Colorado Springs, Colorado Springs, Colorado, February 26, 2003.
  5. Women in Information Technology – Northern Colorado, Agilent, Fort Collins, Colorado, March 9, 2004.
  6. Forum Speaker, IEEE Women in Engineering, Denver, Colorado, June 6, 2004.
  7. Keynote Speaker, Women's History Month - SWE, IEEE, Tau Beta Pi, University of Florida, Gainesville, Florida, March 22, 2005.
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1. "SWE in your future." Presented at the Society of Women Engineers' Region H Student Conference, October 20, 1990.
  2. "Engineers of Tomorrow: Breaking the Mold." Presented at the American Society of Mechanical Engineers Regional Conference, August 23, 1991.
  3. Moderator of Panel: "Competition in the Utility Industry: Evolving Still" Utility Women's Conference, Atlantic City, NJ, September 12, 1991.
  4. "Engineers of Tomorrow: Breaking the Mold." Presented at Power Supply USA, November 4-5, 1991.
  5. "Enhancing Your Career Through SWE: Why the Need for SWE," Presented at the Sierra Foothills Section Chartering Banquet, Roseville, CA, November 16, 1991.
  6. "Is an Engineering Career in Your Future?" Presented as the Keynote Address for "Women In Engineering . . . A Winning Combination," University of Pittsburgh, November 22, 1991.
  7. "The Changing Face of the Engineer." Presented at the New York Academy of Sciences, Engineering Section, March 11, 1992.
  8. "Developing Tomorrow's Technical Workforce." Presented at the Rocky Mountain Regional Tech Prep Conference, March 26, 1992.
  9. "The Changing Face of the Engineer: Breaking the Mold." Presented at Oklahoma State University, July 23, 1992.
  10. "Developing Tomorrow's Technical Workforce." Presented at the Association for Women Geoscientists, September 12, 1992.
  11. "SWE - What's In It For Me?" Presented at the University of Wyoming, September 17, 1992.
  12. "Historical Women in Engineering and Science: Unknown But Not Forgotten." Presented at U.S. West Advanced Technologies, March 1993.
  13. "Tomorrow's Technical Workforce: Breaking the Mold." Presented to the American Business Women's Association, August 14, 1993.
  14. Panel Participant, "Women and Minorities in Water Resources - Practitioner's Perspective," ASCE 21<sup>st</sup> Annual Conference, Water Resources Planning and Management Division, May 23, 1994.
  15. "My Experiences as a Woman Engineer," Presented to the University of Denver, The Making of An Engineer Program, June 28, 1994.
  16. "My Experiences as a Woman Engineer," Presented at the University of Denver, October 19, 1994.
  17. "Engineering Women: Amending History." Presented at U.S. West, March 1995.
  18. Moderator and Panel Participant: "Snappy Responses to Obnoxious Comments," Society of Women Engineers National Convention and Student Conference — Engineering - Revolutionizing our Lives, Boston, MA, July 1, 1995.
  19. "SWE and You," Presented at the University of Wyoming, September 1995.
  20. Fellows Panel Participant: "Rabble Rousers," Presented at the Society of Women Engineers Region I Conference, Denver, Colorado, October 21, 1995.
  21. "My Experiences as a Woman Engineer," Presented to the University of Denver, January 24, 1996.
  22. "Engineering Women: Amending History." Presented at U.S. West Advanced Technologies, March 22, 1996.
  23. "Tomorrow's Technical Workforce: Breaking the Mold," Presented to Alpha Omega Epsilon, August 16, 1996.
  24. Moderator and Panel Participant: "What Do I Want To Be When I Grow Up?" Society of Women Engineers National Convention and Student Conference — The Road to Southwestern Enchantment, Albuquerque, New Mexico, June 26, 1997.

25. "Responsibilities of Professional Engineers," Presented to the Civil Engineering Senior Seminar, University of Colorado - Boulder, October 8, 1997.
26. "My Career Experiences," Presented to first year project classes, University of Colorado - Boulder, February 25 and February 27, 1998.
27. "Historical Women in Science and Engineering," U.S. West Advanced Technologies, March 16, 1998.
28. Panel Member, "High-Tech Women: Daring To Be Different," Women's Forum of Colorado, March 23, 1998.
29. Panel Participant: "Volunteerism: How Can It Help Your Career?" Society of Women Engineers National Convention and Student Conference — Diversity; Look How Far We've Come, Houston, Texas, June 19, 1998.
30. "My Career Path," Civil Engineering Senior Seminar, University of Colorado at Boulder, Boulder, Colorado, September 9, 1998.
31. "SWE: What's In It For me?" Keynote Speaker, Colorado School of Mines, Society of Women Engineers' Evening With Industry, Golden, Colorado, September 14, 1998.
32. Moderator and Panel Member, "Points of View Across the Ages," Women's Forum of Colorado, November 17, 1998.
33. "My Career Experiences," Presented to first year engineering students, University of Colorado - Boulder, November 17, 1998.
34. "The Rocky Mountain Electrical League," Proceedings of the Megawatt Daily Conference — Powering the Rockies and the Southwest, Denver, CO, May 5-6, 1999.
35. Panel Member, "Professional Engineering Registration in Colorado," Society of Petroleum Evaluation Engineers, Denver, CO, July 14, 1999.
36. Panel Member, "Science in the Third Millennium: Who, what and for whom?" University of Colorado at Boulder, Boulder, CO, September 16, 1999.
37. Panel Member, "How Many Careers in a Lifetime?" Society of Women Engineers National Conference — Beyond 2000: Exploring Perspectives, Washington, DC, June 29, 2000.
38. Panel Member, "President's Leadership Institute," Society of Women Engineers National Conference — Beyond 2000: Exploring Perspectives, Washington, DC, July 1, 2000.
39. Panel Member, "Getting Women on Corporate and Other Powerful Boards," Boulder Business and Professional Women, Boulder, CO, September 21, 2000.
40. "My Career Experiences," Introduction to Engineering Class, University of Colorado at Boulder, Boulder, CO, October 10, 2000.
41. Plenary Panel Member, "Power and Expertise," Writing the Past, Claiming the Future: Women and Gender in Science, Medicine, and Technology, Saint Louis University, Saint Louis, Missouri, October 13, 2000.
42. "My Educational and Career Experiences," with Kristy Schloss, Students Underrepresented in Math, Engineering, Technology, and Science, Front Range Community College, Westminster, CO, November 28, 2000.
43. Career Day Speaker with Kristy Schloss, CH2M Hill's National Engineer's Week Event, Denver Museum of Nature and Science, Denver, CO, March 20, 2001.
44. Keynote Speaker, "The Power of Mentoring," MentorNet Partners Forum, Palo Alto, CA, March 30, 2001.
45. Panel Member, "Model Law Task Force & Colorado State Board of Registration," Professional Engineers of Colorado Annual Convention, Breckenridge, CO, June 9, 2001.
46. "Women as Leaders in Science and Technology: Promoting Competence and Confidence," with Kristy Schloss, Prentice Hall National Symposium on Education, Denver, CO, June 14, 2001.
47. "Historical Women in Engineering and Science," United Parcel Service, Westminster, CO, September 5, 2001.
48. Featured Speaker, "Networking," IEEE Women in Engineering Committee, Power Engineering Society Winter Conference, New York, NY, January 29, 2002.
49. Commencement Speaker, Kansas State University at Salina, Salina, Kansas, May 11, 2002.
50. "Women and their Entry into the Professions," Eclectics, Denver, CO, May 17, 2002.

51. Closing Keynote Speaker, "Women in Technology: Imagining the Future," High Tech: Low Numbers – Imagine Women in Technology Conference, Denver, Colorado, August 14, 2002.
52. "Ethics and Professionalism," Civil Engineering Senior Seminar, University of Colorado at Boulder, Boulder, Colorado, September 25, 2002.
53. Panel Member, Women in Technology Panel, sponsored by Rollie Heath for Governor, Broomfield, Colorado, September 26, 2002.
54. Panel Member, CareerReality Educator Workshop, DeVry University, Broomfield, Colorado, March 4, 2003.
55. "Women in Academia: Past, Present, and Future," Graduate Teacher Program Special Workshop Series, University of Colorado at Boulder, Boulder, Colorado, April 14, 2003.
56. "Using the FE Examination as an Outcomes Assessment Tool," with David L. Whitman and John Steadman, ASEE Annual Meeting, Nashville, TN, June 23, 2003.
57. Keynote Speaker, UCCS SWE Day, Society of Women Engineers, Colorado Springs, Colorado, September 13, 2003.
58. Keynote Speaker, Academic Forum & Roundtable, 2003 Society of Women Engineers National Conference, Birmingham, AL, October 10, 2003.
59. Keynote Speaker, ChevronTexaco Lectures Series Luncheon, Colorado School of Mines, Golden, CO, October 15, 2003.
60. Panel Member, Sunset Review Process, Professional Engineers of Colorado, Denver, Colorado, November 12, 2003.
61. "Two Viewpoints on Ethics and the Environment," (with Connie H. King), Colorado Water Congress – Workshop on Legal Ethics in Water and Environmental Law, Denver, Colorado, November 12, 2003.
62. Panel Member, CareerReality Educator Workshop, DeVry University, Colorado Springs, Colorado, January 30, 2004.
63. Keynote Speaker (with Vi Brown), Society of Women Engineers Sonora Region Conference, Phoenix, Arizona, March 5, 2004.
64. "Qualifying for PE Licensure," (with Angie Kinnaird), American Society of Civil Engineers Younger Members, Denver, Colorado, March 23, 2004.
65. Dinner Speaker, University of Colorado at Boulder College of Engineering Scholarship Dinner, Boulder, CO, September 24, 2004.
66. Awards Banquet Remarks on Receipt of Distinguished Alumna Award, Tau Beta Pi Initiation and Awards Banquet, Orlando, Florida, October 9, 2004.
67. Panel Member, "Giving Back: What It Means to SWE," Society of Women Engineers National Conference, Milwaukee, Wisconsin, October 15, 2004.
68. "Fundamentals of Engineering Exam," (with Mike Shannon), Society of Women Engineers National Conference, Milwaukee, Wisconsin, October 16, 2004.
69. "Challenges for Women in the Engineering Field," University of Virginia Women's Center's Fall 2004 Artists, Scholars and Leaders series entitled "Virginia 2020: Women, Innovation, and Public Service," Charlottesville, Virginia, November 17, 2004.
70. Keynote Speaker, Parent Workshop Speaker, Teacher Workshop Speaker, Introduce a Girl to Engineering Workshop, Society of Women Engineers – Space Coast Section, Cape Canaveral, Florida, January 22, 2005.
71. "Presentation Skills and Networking," Junior Achievement Business Week, Denver, Colorado, June 16, 2005.