

BRIEF CURRICULUM VITAE

Leah H. Jamieson

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Education:

B.S. (Mathematics)	1972	M.I.T.
M.A. (Electrical Engineering Computer Science)	1974	Princeton University
M.S.E. (Electrical Engineering Computer Science)	1974	Princeton University
Ph.D. (Electrical Engineering Computer Science)	1977	Princeton University

Professional Experience:

Aug. 1976 – June 1982	Assistant Professor, School of Electrical Engineering, Purdue University
July 1982 – July 1986	Associate Professor, School of Electrical Engineering, Purdue University
Jan. 1985 – Dec. 1985	Visiting Scientist, Computer Science Laboratory, SRI International, Menlo Park, California (sabbatical)
June 1986 – Aug. 1986	Visiting Scientist, Computer Science Laboratory, SRI International, Menlo Park, California
Aug. 1986 – Apr. 2002	Professor, School of Electrical Engineering / School of Electrical and Computer Engineering, Purdue University
Jan. 1990 – Aug. 1994	Graduate Coordinator, School of Electrical Engineering, Purdue University, West Lafayette, Indiana
Aug. 1994 – Aug. 1996	Director of Graduate Admissions, School of Electrical Engineering / School of Electrical and Computer Engineering, Purdue University, West Lafayette, Indiana
June 1996 – Dec. 2002	Co-Director of the Center for Engineering Projects in Community Service (EPICS), Schools of Engineering, Purdue University, West Lafayette, Indiana
1999 – Present	Co-Director of the National EPICS Program
2002 – Present	Ransburg Professor of Electrical and Computer Engineering, Purdue University
June 2002 – Dec. 2002	Interim Head, School of Electrical and Computer Engineering, Purdue University
2003 – Present	Director, EPICS: Engineering Projects in Community Service, Purdue University
2004 – Present	Associate Dean for Undergraduate Education, College of Engineering, Purdue University

Major Awards and Honors

Fellow of the IEEE, 1993: “For contributions to the design and characterization of parallel algorithms for speech, image, and signal processing applications.”

The 1997 Chester F. Carlson Award for Innovation in Engineering Education from the American Society for Engineering Education (ASEE), with Edward J. Coyle.

IEEE Acoustics, Speech, and Signal Processing Society Distinguished Lecturer, 1990-91.

IEEE Computer Society Distinguished Visitor, 1990-94.

1998 Boeing Outstanding Educator Award Finalist, with Edward J. Coyle.

2000 Thomas Ehrlich Faculty Award for Service Learning Finalist, with Edward J. Coyle.

Class of 1992 Annual Award for Outstanding Innovation in “Helping Students Learn,” Purdue University, 1997, with Edward J. Coyle.

Named a member of the IEEE Computer Society Golden Core for service to the Society, January 1998.

Helen B. Schleman Gold Medallion: “For outstanding contribution and concern for women students, encouragement of women in academic and professional areas, leadership and service within and outside the University, and scholarship and character,” Purdue University, April 1999.

One of 18 women profiled in the Careers Booklet *Women in Computer Science* published in 1996 by the Computing Research Association’s Committee on the Status of Women in Computing Research.

One of 15 charter members of the American Association for Higher Education (AAHE) - Campus Compact Service Learning Consulting Corps, 2000.

IEEE Third Millennium Medal, January 2000.

Violet Haas Award, Council on the Status of Women at Purdue University, March 2000.

Harriet B. Rigas “Outstanding Woman Engineering Educator” Award, IEEE Education Society, sponsored by Hewlett-Packard, October 2000.

National Science Foundation Director’s Award for Distinguished Teaching Scholars, November 2001.
Member of the initial class of seven Distinguished Teaching Scholars.

Indiana Professor of the Year, Carnegie Foundation and the Council for Advancement and Support of Education, November 2002.

First Annual Governor’s Award for Outstanding Volunteerism, presented by the Governor of Indiana to the EPICS Program, January 2003.

First Annual Team Excellence Award in the Schools of Engineering, Purdue University, presented to the EPICS Team (Leah H. Jamieson, Edward J. Coyle, William C. Oakes, and Pamela R. Brown), March 2003.

House Resolution “to honor Professor Leah Jamieson for being named 2002 Indiana Professor of the Year” adopted by the Indiana General Assembly, March 27, 2003.

The EPICS Program was featured in the PBS documentary *Communities Building Community*, produced by WFYI, Indianapolis, April 24, 2003.

Profiled in the "People" column of *Science Magazine*, "Engineering with a Social Conscience," Vol. 301, No. 5630, July 11, 2003, p. 164.

Inducted into Purdue's Book of Great Teachers, August 2003.

IEEE Signal Processing Society 2003 Meritorious Service Award, May 2004.

Elected to the United States National Academy of Engineering "For innovations in integrating engineering education and community service," February 2005.

Awarded, with Edward J. Coyle and William C. Oakes, the U.S. National Academy of Engineering's Bernard M. Gordon Prize for Innovation in Engineering and Technology Education "For innovations in the education of tomorrow's engineering leaders by developing and disseminating the Engineering Projects in Community Service (EPICS) program," February 2005.

Selected Keynote Talks

"The EPICS Program at Purdue: A Model for Integrating Engineering Design and Community Service," keynote talk for the conference track "Service Learning: A Pedagogy for Engineering Criteria 2000" at the 1998 ASEE Annual Conference, Seattle, Washington, June 1998 (sponsored by Campus Compact and the Ford Foundation).

"Forces Driving Information Technology Research into the 21st Century," keynote talk at the *11th International Conference on Parallel and Distributed Computing Systems (PDCS-98)*, Chicago, Illinois, September 1998.

"Engineering, Community, Passion, and Balance," keynote address at the *2002 Grace Hopper Celebration of Women in Computing*, Vancouver, British Columbia, October 2002.

Activities in Research and Education:

Research: Professor Jamieson's research interests include speech analysis and recognition; the design and analysis of parallel processing algorithms; and the application of parallel processing to the areas of digital speech, image, and signal processing.

Her work in speech processing has emphasized high accuracy techniques for performing speech analysis and recognition operations, including voiced/unvoiced classification, recognition of stop consonants, generalizations of hidden Markov models (HMMs) for speech recognition, recurrent neural network (RNN)-based systems for phone recognition, and hybrid RNN-HMM systems for continuous speech recognition. Recent work, in collaboration with colleagues in speech science, psychology, and artificial intelligence, has considered the integration of speech recognition and natural language processing systems and on the integration of gesture and gaze analyses with speech recognition.

Her work in parallel processing has addressed issues related to the design of scalable parallel libraries, especially in the application areas of image and speech processing. Work performed under the DARPA-funded Cloner Project centered on poly-algorithmic approaches to achieve high performance at the algorithm selection level.

Education: Professor Jamieson was founding co-founder and is Director of the Engineering Projects in Community Service - EPICS - Program at Purdue. Under the EPICS program, teams of undergraduates earn academic credit for multi-year, multidisciplinary projects that solve engineering- and technology-based problems for community service and education organizations. Started at Purdue in 1995, EPICS programs spread to 16 universities by the 2004-05 academic year.

Representative Grants and Contracts:

Involved in grants, contracts, and donations of over \$26 million at Purdue. Principal investigator for over \$4 million; co-PI on an additional awards of \$13 million; participant on additional grants of over \$9 million.

Representative grants include:

Defense Advanced Research Projects Agency (DARPA), "Parallel Scalable Libraries and Algorithms for Computer Vision," \$940,941, 1992-96, Principal Investigator, with E. J. Delp and S. E. Hambrusch.

NSF, "Experiments in Integrating Speech Recognition and Natural Language Processing," \$50,000, 1997, Co-Principal Investigator, with Mary P. Harper.

NSF Knowledge and Distributed Intelligence initiative, "Cross-Modal Analysis of Signal and Sense: Multimedia Corpora and Computational Tools for Gesture, Speech, and Gaze Research," \$2,999,984; \$329,557 to Purdue, 1999-2002, Faculty Associate, with F. Quek, M. P. Harper, et al.

NSF, "IGERT Proposal: Innovation Realization Lab," \$233,428, 2000-2005, Faculty Associate, with Marie C. Thursby, L. A. Sherman, W. H. Stevenson, and W. R. Woodson.

Ford Foundation, gift to Purdue University to fund a "Perception-Based Engineering Laboratory," \$3,500,000, 2001-2005. Co-PI (Spoken Language Component), with P. Davies, D. Hirleman, S. Rodriguez, M. P. Harper, et al.

NSF, "vBNS Connectivity for Purdue University," \$305,000, 1998-99, Co-Principal Investigator, with J. M. Steele and J. T. Korb.

U.S. Department of Education Fund for the Improvement of Postsecondary Education: Innovative Projects in Community Service (FIPSE), "Engineering Assistance for Community Service Organizations," \$70,658, 1995-97, Co-Principal Investigator, with E. J. Coyle and H. G. Dietz.

Corporation for National Service, Learn and Serve America Higher Education Program, "Engineering Projects in Community Service," \$311,360, 1997-2000, Principal Investigator, with E. J. Coyle, W. Oakes, P. Davies, J. D. Jones, D. D. Knudsen, R. Wukasch, and V. Goldschmidt.

NSF, "Creation and Evaluation of the National Engineering Projects in Community Service (EPICS) Program," \$752,226, 1999-2002, Co-Principal Investigator, with E. J. Coyle and W. Oakes.

Hewlett-Packard, "1999/2000 Institute for Women and Technology Virtual Development Center Participation," \$399,495 in equipment to support the collaboration between Purdue and the Institute for Women and Technology, October 1999, Principal Investigator.

Corporation for National Service, Learn and Serve America Higher Education Program, "The EPICS Consortium: A National-Scale Service Learning Program in Engineering," \$1,050,000, 2000-03, Co-Principal Investigator, with W. Oakes and E. J. Coyle.

NSF, Director's Award for Distinguished Teaching Scholars, \$305,000, 2001-2005.

Microsoft Research, donation of gift funds, software, training materials, and computers to the Purdue EPICS Program and the EPICS National Program, valued at \$3,140,000, 1999-2008.

National Science Foundation (NSF), "National Dissemination of the National Engineering Projects in Community Service (EPICS) Program," January 1, 2003 to December 31, 2008, \$2,499,975, Co-Principal Investigator.

NSF, "Computing Research Association Committee on the Status of Women in Computing Research (CRA-W)," \$221,719, 1999-2002, awarded to the Computing Research Association, Co-Principal Investigator, with

Jan Cuny and Bill Aspray.

IEEE, "Focus on Technology," \$450,000, February 15, 2004 to December 31, 2005, Principal Investigator; awarded to the IEEE New Technology Directions Committee.

Selected Publications:

Author or co-author of over 150 publications. The following are representative.

Edited Books:

Algorithmically Specialized Parallel Computers, L. Snyder, L. H. Jamieson, D. B. Gannon, and H. J. Siegel, editors, Academic Press, New York, NY, 1985,

The Characteristics of Parallel Algorithms, L. H. Jamieson, D. Gannon, and R. J. Douglass, editors, M.I.T. Press, Cambridge, MA, 1987.

Publications in Speech Processing, Parallel Processing, and Computing:

L. H. Jamieson, "Characterizing Parallel Algorithms," in *The Characteristics of Parallel Algorithms*, L. H. Jamieson, D. Gannon, and R. J. Douglass, editors, M.I.T. Press, Cambridge, MA, 1987, pp. 65-100.

T. A. Rice and L. H. Jamieson, "A Parallel Algorithm for Finding the Roots of a Polynomial," *IEEE Trans. Computers*, Vol. C-38, March 1989, pp. 443-449.

M. A. Yoder and L. H. Jamieson, "Simulation of a Word Recognition System on Two Parallel Architectures," *IEEE Trans. Computers*, Vol. C-38, Sept. 1989, pp. 1269-1284.

E. C. Bronson, T. L. Casavant, and L. H. Jamieson, "Experimental Application-Driven Architecture Analysis of an SIMD/MIMD Parallel Processing System," *IEEE Trans. Parallel and Distributed Systems*, Vol. 1, April 1990, pp. 195-205.

J. Li and L. H. Jamieson, "A System for Algorithm-Architecture Mapping Based on Dependence Graph Matching and Hypergraphs," *Fifth Int'l Parallel Processing Symposium*, April 1991, pp. 513-518.

F. J. Weil, L. H. Jamieson, and E. J. Delp, "DISC: A Method for Dynamic Intelligent Scheduling and Control of Reconfigurable Parallel Architectures," *Journal of Parallel and Distributed Computing*, Vol. 13, Nov. 1991, pp. 273-285.

L. H. Jamieson, E. J. Delp, C.-C. Wang, J. Li, and F. J. Weil, "A Software Environment for Parallel Computer Vision," *IEEE Computer*, Vol. 25, Feb. 1992, pp. 73-77.

M. P. Harper, L. H. Jamieson, C. D. Mitchell, G. Ying, S. Potisuk, P. N. Srinivasan, R. Chen, C. B. Zoltowski, L. L. McPheters, B. Pellom, and R. A. Helzerman, "Integrating Language Models with Speech Recognition," *AAAI-94 Workshop on the Integration of Natural Language and Speech Processing*, Aug. 1994, pp. 139-146.

C. D. Mitchell, M. P. Harper, L. H. Jamieson, and R. A. Helzerman, "A Parallel Implementation of a Hidden Markov Model with Duration Modeling for Speech Recognition," *Digital Signal Processing*, Vol. 5, Jan. 1995, pp. 43-57.

C. D. Mitchell, M. P. Harper, and L. H. Jamieson, "On the Complexity of Explicit Duration HMMs," *IEEE Trans. Speech and Audio Processing*, Vol. 3, May 1995, pp. 213-217.

J. N. Patel, A. A. Khokhar, and L. H. Jamieson, "Scalable Parallel Implementations of List Ranking on Fine-grained Machines," *IEEE Trans. Parallel and Distributed Systems*, Vol. 8, Oct. 1997, pp. 1006-1018.

P. Srinivasan and L. H. Jamieson, "High Quality Audio Compression Using an Adaptive Wavelet Packet Decomposition and Psychoacoustic Modelling," *IEEE Trans. Signal Processing*, Vol. 46, April 1998.

M. T. Johnson, L. H. Jamieson, and M. P. Harper, "Interfacing Acoustic Models with Natural Language Processing Systems," *5th Int'l Conf. Spoken Language Processing*, Dec. 1998.

A. M. Surprenant, S. L. Hura, M. P. Harper, L. H. Jamieson, G. Long, S. Thede, A. Rout, T.-H. Hsueh, S. Hockema, M. Johnson, P. Srinivasan, C. White, and J. Laflen, "Familiarity and Pronounceability of Nouns and Names," *Behavior Research Methods, Instruments, & Computers*, Vol. 31, Nov. 1999, pp. 638-649.

J. N. Patel, A. A. Khokhar, and L. H. Jamieson, "Scalability of 2-D Wavelet Transform Algorithms: Analytical and Experimental Results on MPPs," *IEEE Transactions on Signal Processing*, Vol. 48, Dec. 2000, pp. 3407-3419.

R. Kennell and L. H. Jamieson, "Establishing the Genuinity of Remote Computer Systems," *USENIX '03*, June 2003. Winner of the Best Student Paper Award.

Y. Liu, M. P. Harper, M. Johnson, and L. H. Jamieson, "The Effect of Pruning and Compression on Graphical Representations of the Output of a Speech Recognizer," *Computer Speech and Language*, Vol. 17, Oct. 2003, pp. 329-256.

Publications in Education:

E. J. Coyle, H. G. Dietz, and L. H. Jamieson, "Long-Term Community Service Projects in the Purdue Engineering Curriculum," *1996 ASEE Annual Conference*, June 1996.

E. J. Coyle, L. H. Jamieson, and L. S. Sommers, "EPICS: A Model for Integrating Service-Learning into the Engineering Curriculum," *Michigan Journal of Community Service Learning*, Vol. 4, Fall 1997, pp. 81-89.

Leah H. Jamieson, Edward J. Coyle, Mary P. Harper, Edward J. Delp, and Patricia Davies, "Integrating Engineering Design, Signal Processing, and Community Service in the EPICS Program," *1998 IEEE Int'l Conf. Acoustics, Speech, and Signal Processing*, May 1998, pp. 1897-1900.

W. C. Oakes, E. J. Coyle, and L. H. Jamieson, "EPICS: A Model of Service-Learning in an Engineering Curriculum," *2000 ASEE Annual Conference*, June 2000.

E. J. Coyle, R. Foretek, J. L. Gray, L. H. Jamieson, W. C. Oakes, J. Watia, and R. Wukasch, "EPICS: Experiencing Engineering Design Through Community Service Projects," *2000 ASEE Annual Conference*, June 2000.

E. J. Coyle and L. H. Jamieson, "EPICS: Service Learning by Design," in *Projects That Matter: Concepts and Models for Service-Learning in Engineering*, E. Tsang, editor, American Association for Higher Education (AAHE), 2000, pp. 59-73.

W. C. Oakes, L. H. Jamieson, and E. J. Coyle, "Documenting Service Learning to Meet ABET Engineering Criteria 2000," *Proceedings of the 2001 Frontiers in Education Conference*, October 2001.

L. H. Jamieson, W. C. Oakes, and E. J. Coyle, "EPICS: Serving the Community Through Engineering Design Projects," *Learning to Serve: Promoting Civil Society Through Service Learning*, L. A. K. Simon, M. Kenny, K. Brabeck, and R. M. Lerner, editors, Kluwer Academic Publishers, 2001.

L.P.B. Katehi, K. Banks, H. A. Diefes-Dux, D. K. Follman, J. Gaunt, K. Haghighi, P. K. Imbrie, L. H. Jamieson, R. E. Montgomery, W. C. Oakes, and P. Wankat, "A New Framework for Academic Reform in Engineering Education," *2004 American Society for Engineering Education (ASEE) Annual Conference*, June 2004.

E. J. Coyle, L. H. Jamieson, and W. C. Oakes, "EPICS: Engineering Projects in Community Service," *International Journal of Engineering Education*, Vol. 21, No. 1, 2005.

Publications Related to Women in Engineering and Computer Science:

L. H. Jamieson and J. E. Cuny, "CRA-W: The Computing Research Association Committee on the Status of Women in Computing Research," *Grace Hopper Celebration of Women in Computing*, Sept. 1997, pp. 129-132.

E. M. Wadsworth, L. H. Jamieson, R. Sullivan Lee, and D. R. Mennen, *Classroom Climate Workshops on Gender Equity for Faculty Members*, video and guide, Anker Publishing, Bolton, MA, 1998.

"Cherchez la Femme," *IEEE Signal Processing Magazine*, Vol. 16, July 1999, pp. 6-8.

"Do it for your Daughters," *IEEE Signal Processing Magazine*, Vol. 16, September 1999, pp. 4-10.

"Engineering, Community, and Women," *Computing Research News*, April 2001.

Representative Professional Activities

Member of the Advisory Committee for the NSF Directorate for Computer and Information Science and Engineering (CISE), 1997-2000.

Associate Editor, *IEEE Transactions on Acoustics, Speech, and Signal Processing*, 1986-87.

Associate Editor, *IEEE Transactions on Parallel and Distributed Systems*, 1991-94.

Member, Editorial Board, *Proceedings of the IEEE*, 1999-2001.

IEEE Vice-President, Technical Activities, 2003.

IEEE Vice-President, Publication Services and Products, 2005.

Member, IEEE Board of Directors and Excom, 2003, 2005.

President, IEEE Signal Processing Society, 1998-99.

Founder, Women in Signal Processing Lunch at the annual IEEE International Conference on Acoustics, Speech, and Signal Processing

Chair, IEEE Jack S. Kilby Signal Processing Medal Committee, 1996-99.

Chair, IEEE Technical Activities Board New Technology Directions Committee, 2004-06.

Member (1998-2000, 2001-2007) and Secretary (1999-2000), Computing Research Association (CRA) Board of Directors.

Co-Chair, CRA Committee on the Status of Women in Computing Research, 1996-99.

Co-Chair, CRA Snowbird Conference, 2002.

Member of numerous conference program committees.

Activities at Purdue

Courses: Developed eight courses, including graduate courses in speech processing, algorithm complexity, and parallel algorithms, and undergraduate courses in introductory computer programming and systems programming.

Co-founder (with E. J. Coyle and H. G. Dietz) and Director of the Engineering Projects in Community Service (EPICS) Program at Purdue. Co-founder and co-director of the National EPICS Program.

Students: Supervised 16 Ph.D. students in the areas of speech recognition, speech and audio compression, parallel algorithms and software.

Selected University-Wide Activities:

Elected member of the University Senate, 1987-90 and 1992-95.

Chair, University Senate Steering Committee, 1992-95.

Chair, Policy Committee on World Wide Web Publishing, 1996-97.

Chair, Research Computing and Communications Advisory Committee, 1997-2001.

Member, University Task Force on Women's Issues, 1995-97.

Facilitator for Purdue *Classroom Climate Workshops on Gender Equity for Faculty in Science and Engineering*, 1997; facilitator for *Classroom Climate Workshops on Gender Equity for Faculty Members*, video and guide, Anker Publishing Company, Boulton, MA, 1998.

Vice-Convener, Council on the Status of Women, Purdue University, 1999-2000; Co-Convener, 2000-01.

Selected Activities in Engineering at Purdue:

Member, Dean's Advisory Committee, 2002-Present.

Member, Engineering Leadership Team, 2004-Present.

Member, Neil Armstrong Hall of Engineering Planning Committee, 1999-Present.

Founding Chair, Women Faculty in Engineering Committee, 1999-Present.

Workshop organizer for numerous Purdue Engineering workshops for Girl Scouts, junior high, and high school girls, as a part of the Expanding Your Horizons in Math and Science programs, Society of Women Engineers (SWE) programs, and Purdue's Women in Engineering Career Day.

Selected Activities in the School of Electrical and Computer Engineering:

Chair, Electrical Engineering Graduate Committee, 1986-89.

Director of the Graduate Program in Electrical Engineering, 1990-94.

Chair, Computer Engineering Area Committee, 1991-92.

Director of Graduate Admissions, School of Electrical and Computer Engineering, 1994-96.

Selected Activities Related to Women in Engineering and Computing:

Activities at Purdue:

Facilitator/moderator for pilot Classroom Climate Workshops on Gender Equity for faculty in the schools of engineering and science (1997): Workshops addressing gender equity issues, developed by the Women in Engineering and Women in Science programs and the Division of Theatre at Purdue, with support from the Sloan Foundation. Workshops were conducted at Purdue, the University of Illinois at Urbana-Champaign, and at the Rose-Hulman Institute of Technology. A follow-on project (1998) produced a video and facilitation guide for use by institutions wishing to conduct gender equity workshops for faculty.

Member of the 14-member Presidential Task Force on Women's Issues (1995-1997).

Founding Chair of the Purdue Women Faculty in Engineering Committee, 1999.

Organizer of numerous workshops for junior high school and high school girls as a part of the Expanding Your

Horizons in Math and Science programs, Society of Women Engineers programs, and Purdue's Women in Engineering Career Day.

Vice-Convener (2000) and Co-Convener (2001) of the Purdue Council on the Status of Women.

National Activities: The Computing Research Association (CRA) is an association of more than 150 North American academic departments of computer science and computer engineering, industrial laboratories engaging in basic computing research, and affiliated professional societies. CRA's Committee on the Status of Women in Computing Research (CRA-W) is a working committee whose mission is to take positive action that increases the number and success of women in computing research and higher education. Funded primarily by NSF, CRA-W has conducted projects aimed at research mentoring, information sharing, community building, and effecting organizational change.

Past Co-Chair of CRA's Committee on the Status of Women in Computing Research (CRA-W) (1996-1999)

Editor of the column "Expanding the Pipeline," published in the *Computing Research News*, 1993-1996.

"Women in Computer Science" Careers Booklet: One of 18 women profiled in the Careers Booklet "Women in Computer Science" published in 1996 by CRA-W, with support from NSF. The purpose of the booklet is to encourage young women in high school and college to consider a career in computing. To date, 15,000 copies of the booklet have been distributed. Funding from ACM supported the distribution of the booklet to all high schools in the United States.

Academic Careers for Women in Computing Workshop/ Research Careers for Women in Computing Workshop panelist, 1994-2003: Participated in several CRA mentoring workshops as a panelist on the topics of time management, building a research program, and advancing a research career.

Organized the first CRA leadership summit of the chairs of the women's groups affiliated with professional organizations in computing (1999).

IEEE Signal Processing Society:

Founder and organizer of the annual "Women in Signal Processing" lunch at the IEEE International Conference on Acoustics, Speech, Signal Processing (1993 - present).

Signal Processing Magazine columns on women in engineering: "Cherchez la Femme" (Vol. 16, July 1999, pp. 6-8) and "Do it for your Daughters" (Vol. 16, September 1999, pp. 4-10).

Women and EPICS: The EPICS goals are consistent with many of the recommendations that have been made with respect to increasing the number of women and minorities in engineering: framing technical fields in their social context, stressing general educational goals, including communication, in engineering education; employing cooperative, interdisciplinary approaches. In the first eight years of operation, 25% of the EPICS students were women. In Electrical and Computer Engineering and Mechanical Engineering, participation of women in EPICS was 20%, compared to approximately 11% in the ECE and ME undergraduate programs.

In 1999, Prof. Jamieson joined with four colleagues from Purdue to forge a partnership with the Institute for Women and Technology (IWT). This led to a series of workshops at Purdue that have engaged over 200 women and girls from Purdue and the local community in discussions about technology. An EPICS-IWT of women students is pursuing design ideas for products focused on technology for pre-teen and young-teen girls, and has designed a "female-friendly" collaborative computer lab for Purdue's Computer Science Department - see <http://cs175-cam.cs.purdue.edu>.