

Blaise W. Liffick, Ph.D.

Department of Computer Science
Millersville University
Millersville, PA 17551
717-872-3536
blaise.liffick@millersville.edu

EDUCATION

University of Southern Maine, Portland, ME

Accessible Information Technology Certificate, March 2003

California State University at Northridge Center on Disabilities, Northridge, CA

Assistive Technology Applications Certificate, December 2002

Temple University, Philadelphia, PA

Ph.D. 1993, Computer and Information Science.

Dissertation: "A Programming Plans Paradigm for a Novice Programmer's Support Environment"

University of Pittsburgh, Pittsburgh, PA

M.S. 1981, Computer Science.

Thesis: "A Programming Methodology for a Multi-Microcomputer Network"

Purdue University, West Lafayette, IN

B.S. 1975, Computer Science

TECHNICAL EXPERTISE EXPERIENCE

Human-Computer Interaction, Assistive Technology for the Disabled, Social Issues of Computing

Millersville University; Millersville, PA; Department of Computer Science; August 1981 to present

Professor of Computer Science. Tenured August 1986.

ABET Accreditation Reviewer, 2002 - present.

Director, Adaptive Computing Laboratory.

Assistant Chairman for Computer Science, September 1982 to August 1984.

Assistant Director for Computer Services for Academic Computing, September 1983 to August 1984.

Institute on Disabilities, Temple University; Philadelphia, PA; July 2002 – July 2005

Instructor, Augmentative Communications & Empowerment Supports Workshop

Center for Applied Science and Engineering in Rehabilitation of the A.I. DuPont Institute;

University of Delaware; Wilmington, DE; September 1995 to May 1996.

Visiting Research Professor.

University of Pittsburgh; Pittsburgh, PA; Department of Computer Science, May 1980 to August 1981

Instructor, Summer 1981.

Graduate Research Assistant, Solo/NET/works Project. May 1980 – May 1981.

BYTE Magazine; Peterborough, NH; October 1977 to May 1980

Senior Editor. Responsible for establishing new editorial division, acquiring, reviewing, and editing new manuscripts, management of editorial staff.

Eastman Kodak Company; Rochester, NY; January 1976 to October 1977

Systems Analyst. Responsible for compiler support and general user support for Kodak and vendor software.

IBM; Lexington, KY; Office Products Research Development Laboratory; Jan. 1975 to Sept. 1975

Systems Analyst. Responsible for general user support for engineering staff.

CONSULTING

Highmark, Inc. Fall 2004.

Conestoga Valley School District, Smoketown Elementary School. Assistive Technology Evaluation. November 2001.

Director of Tools for HCI Education and Training Website. Addison Wesley Longman. <http://www.aw.com/dtui>. Fall 1996 - Spring 1999.

Amp, Inc. "AMP Graphical User Interface Design Standards and Guidelines." Fall 1998.

ASSOCIATIONS

Computer Ethics Institute (1994), American Association for Artificial Intelligence (1980), Association for Computing Machinery (1980), Computer Professionals for Social Responsibility (1989, Director of Mid-Atlantic Region), Pennsylvania Association of Computer and Information Science Educators (1986 - 1994, Executive Board Member), US Public Policy Committee of the ACM (1995), and the following ACM Special Interest Groups: Computer Science Education (1980), Computer Use in Education (1980), Computers and Society (1988), Computer-Human Interfacing (1987), Computers and the Physically Handicapped (1988)

HONORS

Distinguished Pre-Doctoral Fellowship, University of Pittsburgh, Learning Research and Development Laboratory, Summer 1987.

University Fellowship, Temple University, Department of Computer and Information Sciences, Spring 1985, Summer 1985.

GRANTS

EXTERNAL Principal Investigator. "Integrating Assistive Technology into an Undergraduate Computer Science Curriculum from an HCI Approach." National Science Foundation (CCLI-EMD, DUE-0230969). \$74,898 (\$93,486 total budget). June 2003 – May 2005.

Co-PI. "Scholarships for Financially Disadvantaged Computer Science and Mathematics Students." National Science Foundation (CSEMS). \$347,000. Dr. Robert Smith, Principle Investigator, Dr. Blaise W. Liffick and Dr. Delray Schultz, Co-PIs. January 2002 – December 2006.

Principal Investigator. "Using Surveillance Software as an HCI Tool." Adavi, Inc. \$500. WinWhatWhere Corporation. \$500. September 2000 – September 2001.

Co-PI. "Integrating Haptics into an Undergraduate Computer Science Curriculum". National Science Foundation (NSF CCLI) Course, Curriculum, and Laboratory Improvement Program (DUE-9950742). \$56,030. July 1999 – July 2002. Dr. Roger Webster, Principle Investigator, Dr. David Hutchens and Dr. Blaise W. Liffick, Co-PIs.

Project Evaluator. "Technology, Communications, and Community". National Science Foundation and the National Endowment for the Humanities Grant awarded to the Pennsylvania Humanities Council. \$50,000. August 1995 - June 1996.

Principal Investigator. "An Undergraduate Human-Computer Interaction Laboratory". National Science Foundation, Instrumentation and Laboratory Improvement - Instrumentation Project Grant (DUE-9551245). \$75,262 (total budget). Sept 1995 - Aug 1997. Dr. David Hutchens, Co-PI.

Member of Steering Committee. ImpactCS Project. NSF Grant (Dr. Dianne Martin, Director; DUE-9354626). June 1994 - June 1996.

Research Fellowship. Applied Science and Engineering Laboratory. A.I. DuPont Institution. 95/96 academic year.

Consultant. "Computer Vision Automated Drilling System". Ben Franklin Advanced Technology Research Grant. November 1985 - August 1986. \$186,300 (total budget).

Project Evaluator. "Computer Literacy Model". School District of Lancaster, Technology/Special Innovative Projects Grant, Pennsylvania Department of Education. Fall 1983 - Spring 1984, \$40,000.

PUBLICATIONS

REFEREED Liffick, B. Assistive Technology in Computer Science. Workshop. *Proceedings of SIGCSE 2008*. Portland, OR. March 12-15, 2008.

Liffick, B., Zoppetti, G. You Can Take It With You: Profile Transportability. *Proceedings of ITiCSE 2007*. Dundee, Scotland. June 25-27, 2007.

Liffick, B., Zoppetti, G., Shearer, S. The Personal Portable Profile Project. *Proceedings of the Eighth International ACM SIGACCESS Conference on Computers and Accessibility, ASSETS06*. Portland, OR. October 23-25, 2006.

Liffick, B. Adaptive Technology in a Computing Curriculum. In *Diversity in IT Education*. G. Trajkovski, Editor. Idea Group Publishing: Hershey, PA. 2006.

Liffick, B. An Adaptive Technologies Course in a CS Curriculum. *Proceedings of the Seventh International ACM SIGACCESS Conference on Computers and Accessibility, ASSETS05*. Baltimore, MD. October 9-12, 2005.

Liffick, B., Romich, B., Hill, K. A Single Switch Performance Evaluation Tool. *Proceedings of HCI International 2005 Conference*. Las Vegas, NV. July 22-27, 2005.

Romich, B., Hill, K., Liffick, B. Switch Performance Measurement Software. *Proceedings of the International Technology and Person's with Disabilities 2005 Conference*. Los Angeles, CA. March 14-19, 2005.

Liffick, B. Introducing Assistive Technology in an HCI Course. *Proceedings of ITiCSE 2004*. Leeds, UK. June 28-30, 2004.

Liffick, B. An Assistive Technology Project for an HCI Course. *Proceedings of ITiCSE 2004*. Leeds, UK. June 28-30, 2004.

Liffick, B. Assistive Technology in Computer Science. Workshop. *Proceedings of SIGCSE 2004*. Norfolk, VA. March 3-7, 2004.

Liffick, B. Assistive Technology As an HCI Topic. Workshop. *Proceedings of the 2003 Eastern Conference of the Consortium for Computing Sciences in Colleges*. Montclair State University, Upper Montclair, NJ, October 17-18, 2003.

Liffick, B. Assistive Technology in Computer Science. *Proceedings of the International Symposium on Information and Communication Technologies ISICT03*, Trinity College, Dublin, Ireland, September 24-26th, 2003.

Liffick, B. A Haptics Experiment in Assistive Technology for Undergraduate HCI Students. *Proceedings of the HCI International 2003 Conference*. Crete, Greece. June 22 – 27, 2003.

Liffick, B. and Yohe, L. Using Surveillance Software as an HCI Tool. Information Systems Education Conference. Cincinnati, OH. November 1-4, 2001.

Liffick, B. ViKi: A Virtual Keyboard Interface for the Handicapped. *Proceedings of the HCI International 2001 Conference*. New Orleans, LA. August 5-10, 2001.

Liffick, B. and Aiken, R. A Novice Programmer's Support Environment. *Proceedings of the SIGCSE/SIGCUE Conference on Integrating Technology into Computer Science Education*. Barcelona, Spain. June 2-6, 1996.

Liffick, B. Analyzing Ethical Scenarios. *Proceedings of ETHICOMP95 International Conference*. De Montfort University, Leicester, UK; March 28-30, 1995.

Liffick, B. Social Impact Characteristics of Computer Technology. *Proceedings of ETHICOMP95 International Conference*; De Montfort University, Leicester, UK; March 28-30, 1995.

Liffick, B. and Berger, A. A Methodology for the Analysis of Ethical Scenarios by Undergraduate Computer Science Majors. *Proceedings of the Computer Ethics Institute 3rd Annual National Computer Ethics Conference*. The Brookings Institution. Washington, DC. April 28-29, 1994.

Liffick, B. A Methodology for Scenario Analysis. *Proceedings of the American Association for the Advancement of Science Annual Conference. Teaching Ethics in Science and Engineering Seminar*. Boston, MA. February 1993.

Bonar, J. and Liffick, B. Communicating with High-Level Plans. In *Intelligent User Interfaces*. J. Sullivan, S. Tyler (editors). ACM Press. 1991: 129-156.

Liffick, B. The Seventh Annual Microcomputer Technology in Special Education and Rehabilitation Conference. *SIGCAPH Newsletter*, 42 (June 1990): 8-13.

Liffick, B. The Third International Conference on Artificial Intelligence and Education. *AI Magazine*, 8, 4 (Winter 1987):97-99.

Liffick, B. Solo/NET/Works: A Multi-Microcomputer Network Learning Environment. *Proceedings of the Eighth West Coast Computer Faire*. San Francisco, CA. March 29 - April 2, 1983.

BOOKS Liffick, B. *Software Developer's Sourcebook*. Reading, MA: Addison-Wesley Publishing. 1985.

Liffick, B. (editor). *Bits and Pieces*. editor. New York, NY: BYTE/McGraw-Hill. 1980.

Liffick, B. (editor). *The BYTE Book of Pascal*. editor. Peterborough, NH: BYTE Publications. 1979.

Liffick, B. (editor). *Simulation*. editor. Peterborough, NH: BYTE Publications. 1979.

Liffick, B. (editor). *Numbers in Theory and Practice*. editor. Peterborough, NH: BYTE Publications. 1979.

Program Design. editor. Peterborough, NH: BYTE Publications. 1978.

PAPERS Liffick, B. Gone Fishin' (For Cheaper Labor). *Sunday Patriot News*, Harrisburg, PA. February 15, 2004:D1,D6.

Liffick, B. Instructor's Lecture Notes for *Problem Solving, Abstraction, and Design Using C++*, 4th Edition, Frank Friedman and Elliot Koffman. Addison-Wesley. July 2003. Available at www.aw-bc.com

Liffick, B. An Instructor's Outline of *Designing the User Interface*, 3rd Edition. Addison-Wesley Longman. April 2001. Available at www.awl.com/dtui.

Liffick, B. Cruising the E-Mall: Shopping by Computer. In *A Reader in Ethical Computing and Business*. Blackwell Publishers. London, UK. 1997.

Liffick, B. A Decomposition Tool for Analyzing Ethical Scenarios. *Values Newsletter*. Spring 1994, 1(1):3.

J. Bonar and Liffick, B. A Visual Programming Language for Novices. In *Principles of Visual Programming Systems*. S. K. Chang (ed.). Englewood Cliffs, NJ: Prentice Hall. 1990.

Liffick, B. A High-Level Plan Language for Novices. Technical Report, Learning Research and Development Center, University of Pittsburgh. 1987.

Liffick, B. A Visual Language as an Aid to Learning Programming. Technical Report, Learning Research and Development Center, University of Pittsburgh. 1987.

Liffick, B. Computer Science and Technology at Narragansett Regional High School. *onComputing*, 2, 2 (Fall 1980):86-89.

Liffick, B. The CompuColor II. *onComputing*, 1, 2 (Fall 1979):12-16.

Liffick, B. The Commodore PET. *onComputing*, 1, 3 (Summer 1979):32-37.

BOOK REVIEWS Liffick, B. A Review of *Practical Microcomputer Programming*. *BYTE*, 4, 10 (October 1979):242-244.

Liffick, B. A Review of *Microcomputer Primer*. *onComputing*, 1, 3 (Winter 1979):32.

Liffick, B. "A Review of *Standard Dictionary of Computers and Information Processing*". *BYTE*, 3, 1 (January 1978):160

Liffick, B. A Review of *Systems and Programming Standards*. *Creative Computing*, 3, 6 (Nov/Dec 1977):

REPORTS Liffick, B. Modifying a Mouse for External Switches. Technical Report #05-1. Millersville University, Department of Computer Science. January 2005.

Liffick, B. Jaws Shortcut Keys. Technical Report #04-6. Millersville University, Department of Computer Science. July 2004.

Liffick, B. Jaws Shortcut Keys - Quick. Technical Report #04-5. Millersville University, Department of Computer Science. July 2004.

Liffick, B. MS Word Shortcuts. Technical Report #04-4. Millersville University, Department of Computer Science. July 2004.

Liffick, B. MS Word Shortcuts - Quick. Technical Report #04-3. Millersville University, Department of Computer Science. July 2004.

Liffick, B. Wivox Controls. Technical Report #04-2. Millersville University, Department of Computer Science. January 2004.

Liffick, B. Windows Keystrokes. Technical Report #04-1. Millersville University, Department of Computer Science. January 2004.

Liffick, B., C. Hendriksen Microsoft Windows XP Accessibility Options. Technical Report #03-4. Millersville University, Department of Computer Science. May 2003.

Liffick, B. Setting Up StickyKeys. Technical Report #03-3. Millersville University, Department of Computer Science. January 2003.

Liffick, B. Setting a Microsoft Windows Display for the Visually Impaired. Technical Report #03-1. Millersville University, Department of Computer Science. January 2003.

Liffick, B. Computer Empowerment: Connecting the Pathfinder to a Computer. Technical Report #02-2. Millersville University, Department of Computer Science. July 2002.

Liffick, B. Pathfinder Equivalences. Technical Report #02-1. Millersville University, Department of Computer Science. July 2002.

Liffick, B. Evaluation of the Technology, Communications, and Community Project. The Pennsylvania Humanities Council. Philadelphia, PA. August 1996.

Liffick, B. Computers in Context: A Framework for Presenting the Social and Ethical Impact of Computing. The ImpactCS Steering Committee. IIST Technical Report Series, EECS Department, George Washington University. Summer 1995.

Liffick, B. Report of the NCCV Working Group on Privacy and Confidentiality. J. Catudal *et al.* Contributing member of the working group, National Conference on Computing and Values, Southern Connecticut State University. August 1991.

Liffick, B. Evaluation of the Lancaster City School District Elementary Computer Literacy Project. Report for the Lancaster City School District. December 1983.

Liffick, B. A School Self-Evaluation Survey and Danger Checklist. Report for the Elementary Computer Literacy Project. Lancaster City School District. April 1984.

Liffick, B. A College Microcomputer Laboratory. Report for the Department of Mathematics and Computer Science. Thiel College. June 1982.

Liffick, B. A Computer Laboratory for Elementary Schools. Report for the Dublin School (Dublin, NH). March 1979.

INTERVIEWS, TESTIMONY

Analyzing Ethical Scenarios. Video interview for *Understanding Computer Ethics* CD-ROM, Educational Media Resources, November 1998.

Expert Witness. Pennsylvania House of Representatives Bill 2105 (The Pennsylvania Education Restoration Act of 1995) Hearing. Harrisburg, PA. February 8, 1996.

When Good People Write Bad Laws. *Wired*. February 1996.

Expert Witness. Pennsylvania House of Representatives Special Subcommittee on House Resolution 37 Hearing. Harrisburg, PA. September 11, 1995.

Expert Witness. National Research Council's National Cryptographic Policy Committee. Washington, DC. April 12 and 14, 1995.

Panelist for "Challenges: Are Computers Chipping Away at Your Privacy?". Channel 69, Allentown, PA. March 20, 1995.

Expert Witness. State Board of Education Chapter V Hearing. Harrisburg, PA. December 1990.

Computer Anxiety? You Are Not Alone". Linda Whipple. Lancaster Sunday News. May 20, 1984.

Who's Afraid of the Big, Bad Computer?. Naomi Yocom. Lancaster New Era. February 20, 1984.

The Classroom Computer. *Newsweek*. March 9, 1981.

EDITED MSS.

The World Connection. T. Knight. Indianapolis, IN: Howard W. Sams & Co. 1983.

Microcomputer Structures. H. D'Angelo. New York, NY: BYTE/McGraw-Hill. 1981.

Threaded Interpretive Languages. R. Loeliger. New York, NY: BYTE/McGraw-Hill. 1981.

BASIC Scientific Subroutines. Vol. I & II. F. Ruckdeschel. New York, NY: BYTE/McGraw-Hill. 1981.

Ciarcia's Circuit Cellar. Vol. II. S. Ciarcia. New York, NY: BYTE/McGraw-Hill. 1981.

Beginner's Guide for the UCSD Pascal System. K. Bowles. New York, NY: BYTE/McGraw-Hill. 1980.

You Just Bought a Personal What? T. Dwyer and M. Critchfield. New York, NY: BYTE/McGraw-Hill. 1979.

Ciarcia's Circuit Cellar. Vol. I. S. Ciarcia. Peterborough, NH: BYTE Publications. 1979.

K2FDOS: A Floppy Disk Operating System for the 8080. K. Welles. Peterborough, NH: BYTE Publications. 1979.

BASEX: A Simple Language and Compiler for 8080 Systems. P. Warne. Peterborough, NH: BYTE Publications. 1978.

MONDEB: An Advanced M6800 Monitor/Debugger. D. Peters. Peterborough, NH: BYTE Publications. 1978.

Tracer: a 6800 Debugging Program. R. Grappel and J. Hemenway. Peterborough, NH: BYTE Publications. 1978.

LINK68: An M6800 Linking Loader. R. Grappel and J. Hemenway. Peterborough, NH: BYTE Publications. 1978.

RA6800ML: An M6800 Relocatable Macro Assembler. J. Hemenway. Peterborough, NH: BYTE Publications. 1978.

Superwumpus. J. Emmerichs. Peterborough, NH: BYTE Publications. 1978.

Tiny Assembler 6800. J. Emmerichs. Peterborough, NH: BYTE Publications. 1978.

MSS. REVIEWED *The Psychology of Human-Computer Interaction.* Norman, K. Cambridge University Press. June 2005.

Interaction Design. Preece, J., Rogers, Y., and Sharp, H. John Wiley and Sons. October 1999.

Diogenes in Cyberspace. F. Connelly. Boyd & Fraser Publishing. Fall 1994.

Shoulds, Oughts, and Netiquette. F. Connelly. Boyd & Fraser Publishing. Fall 1994.

Introduction to Computer Science with Pascal. Li Santi, Mann, and Zlotnick. Belmont, CA: Wadsworth Publishing. 1985.

Kid-Powered Logo. D. Fiday. Indianapolis, IN: Howard W. Sams & Co. 1983.

IBM PC DOS Primer. Murtha and Petrie. Indianapolis, IN: Howard W. Sams & Co. 1983.

Using Computer Information Services. Indianapolis, IN: Howard W. Sams & Co. 1983.

Pascal Programming for the IBM PC. T. Lewis. Reading, MA: Addison-Wesley Publishing Co. 1982.

CP/M and the Personal Computer. T. Dwyer and M. Critchfield. Reading, MA: Addison-Wesley Publishing Co. 1982.

IBM PC User's Guide. L. Poole. Indianapolis, IN: Howard W. Sams & Co. 1982.

The Intermediate-Level TRS-80 Handbook. Indianapolis, IN: Howard W. Sams & Co. 1981.

Approaches to Pascal. Englewood Cliffs, NJ: Prentice-Hall. 1981.

Crash Course in Microcomputers. L. Frenzel. Indianapolis, IN: Howard W. Sams & Co. 1981.

The Computer for the Small Office. Barnes. Indianapolis, IN: Howard W. Sams & Co. 1981.

A Beginner's Guide to Understanding and Buying a Small Business Computer. Blumenthal. Indianapolis, IN: Howard W. Sams & Co. 1981.

Digital Computer Series. Vol. 1. 2. 3. and 4. A. Patiella. Indianapolis, IN: Howard W. Sams & Co. 1981.

TRS-80 for Kids: Level II BASIC. M. Zabinski. New York, NY: McGraw-Hill. 1980.

Considerate Programming with Pascal. Price. Englewood Cliffs, NJ: Prentice Hall. 1980.

Personal Computing. Boston, MA: Digital Press. 1979.

PRESENTATIONS

“The Degree Specification Project: The Experience of the Millersville University Computer Science Department.” B. Liffick, D. Weinstein. ABET Best Assessment Processes VIII Symposium. Terre Haute, IN. February 27-28, 2006.

“Methods for Implementing Student Surveys.” D. Whitfield, B. Liffick. ABET Best Assessment Processes VIII Symposium. Terre Haute, IN. February 27-28, 2006.

“Free Software for Measuring Single Switch Use Performance.” B. Romich, K. Hill, B. Liffick. 2006 ATIA Conference and Vendor Fair. Orlando, FL. January 18-21, 2006.

“Single Switch Performance Software.” B. Romich, K. Hill, B. Liffick. RESNA 2005 Conference. Atlanta, GA. June 23-27, 2005.

“Closing the Gap: Adaptive Technology for the Disabled from an HCI Perspective.” Haverford College. Haverford, PA. November 5, 2004.

“Assistive Technology as an HCI Subject.” PACISE Spring Conference. Shippensburg University. Shippensburg, PA. April 4-5, 2003.

“Fitting ABET Requirements into SSHE Constraints: The Millersville Experience.” PACISE Spring Conference. Shippensburg University. Shippensburg, PA. April 4-5, 2003.

“Assistive Technology and the Disabled: Present and Future.” School of Science and Mathematics Science Lectureship Series. Millersville University. February 20, 2003.

“Assistive Technology.” Gilbert Hall Student Organization. Millersville University. February 19, 2003.

“Computers and Privacy in the Age of Terror.” ACM Student Chapter. Bucknell University. November 28, 2001.

“The Role of Teamwork in a CS Curriculum.” Department of Computer Science Seminar. Stanford University, Palo Alto, CA. April 4, 2001.

“The Considerate Programmer.” Department of Computer Science Seminar. Stanford University, Palo Alto, CA. April 3, 2001.

“The Social Impact of Computing Technology.” American Society for Materials, South Central PA Chapter. November 29, 2000.

“Privacy and Confidentiality of Electronic Media.” Spring Social Issues in Computing Symposium. Department of Computer Science. Millersville University. April 27, 2000.

“The Future of Computing: Beyond Y2K.” Beacon Series Lectures. Unitarian Universalist Church of Lancaster. May 5, 1999.

“Privacy in the Computer Age.” Lancaster Microcomputer Users Group. August 27, 1997.

“Privacy in the Computer Age.” Lancaster Kiwanis Club. April 8, 1997.

“Social Impact Issues of Computer Technology.” Pennsylvania Humanities Council Legislative Breakfast. Pennsylvania House of Representatives. Harrisburg, PA. April 10, 1996.

“Two Major Social Issues in the Computer Age.” Keynote Address, Student Pugwash Regional Conference. Johns-Hopkins University, Baltimore, MD. March 10, 1996.

“A Cognitive Model for a Novice Programmer’s Support Environment”. Department of Computer Science Seminar Series. Western Kentucky University. Bowling Green, KY. March 21, 1994.

“A Course on Computer Ethics”. PACISE Fall Conference. Millersville University. October 1991.

“Computers in Science Fiction”. Millersville University Computer Club. March 1989.

“Using Computers in Foreign Language Education”. Millersville University 19th Annual In-Service Conference on the Teaching of Foreign Language. October 1984.

“Home Computing”. Lancaster Chapter of the American Association of University Women. February 1984.

“Home and School Computing”. Martin Meylin Middle School Home and School Association. January 1984.

“Computers in Education”. Millersville University Chapter of the Council for Exceptional Children. December 1983.

“Microcomputers in the Business Environment”. Olde Oak Chapter of the American Business Women's Association. November 1983.

“Buying a Home Computer”. University Celebration Week. Millersville University. October 1983.

“Home Computers: Myth or Miracle?”. Millersville University Science Division Seminar. March 1983.

“Are Computers Human Too? A Look at Artificial Intelligence”. Lancaster Chapter of AAAS. February 1983.

“Careers in the Computer Field”. Hempfield High School. April 1982.

“The Cybernetic Imagination in Science Fiction”. Millersville University Chapter of Sigma Alpha Nu Fraternity. March 1982.

IN-SERVICE TRAINING

Participant, In-Service Training Meeting, Millersville University, May 21, 1992.

“The Use of Computers in Teaching High School Mathematics”. West Shore School District. March 1990.

“Computers in Education”. Governor-Mifflin School District. October 1983.

“Computers in Education”. Wyomissing School District. April 1983.

“Computers in Education”. Derry Township School District. January 1983.

CONFERENCE, WORKSHOP ATTENDANCE

The Fourth IASTED International Conference on Telehealth and Assistive Technologies. Baltimore, MD. April 16-18, 2008. **Program Committee Member.**

ACM SIGCSE 2008. Portland, OR. March 12-15, 2008. **Presenter.**

ACM ITiCSE 2007. Dundee, Scotland, UK. June 25-27, 2007. **Presenter.**

Eighth International ACM SIGACCESS Conference on Computers and Accessibility, ASSETS06. Portland, OR. October 23-25, 2006. **Presenter.**

Seventh International ACM SIGACCESS Conference on Computers and Accessibility, ASSETS05. Baltimore, MD. October 9-12, 2005. **Presenter.**

HCI International 2005 Conference. Las Vegas, NV. July 22-27, 2005. **Presenter.**

“Advanced Java.” NSF Chautauqua Workshop. University of Dayton. June 2005.

“Introduction to Java.” NSF Chautauqua Workshop. University of Dayton. May 2005.

ACM ITiCSE 2004. Leeds, UK. June 28-30, 2004. **Presenter.**

ACM SIGCSE 2004. Norfolk, VA. March 3-7, 2004. **Presenter.**

Eastern Conference of the Consortium for Computing Sciences in Colleges. Montclair State University, Upper Montclair, NJ, October 17-18, 2003. **Presenter.**

International Symposium on Information and Communication Technologies ISICT03, Trinity College, Dublin, Ireland, September 24-26th, 2003. **Presenter.**

HCI International 2003 Conference. Crete, Greece. June 22 – 27, 2003. **Presenter.**

“Advanced Barrier-Free Web Design.” On-line course as part of the certificate in Accessible Information Technology program of the University of Southern Maine. December 2002.

“Accessible Internet Multimedia Production.” On-line course as part of the certificate in Accessible Information Technology program of the University of Southern Maine. November 2002.

“Service Learning: Crossing the Boundaries for Success.” Millersville University. September 12-13, 2002.

California State University at Northridge Center on Disabilities, Assistive Technology Applications Certificate Workshop. Arlington, VA. August 5-9, 2002.

“Beginner’s Barrier-Free Web Design.” On-line workshop as part of Certificate in Accessible Information Technology program of the University of Southern Maine. May 2002.

“Train the Trainer.” On-line workshop as part of Certificate in Accessible Information Technology program of the University of Southern Maine. March 2002.

ABET Reviewer’s Training Workshop. Covington, KY. Mar. 3, 2002.

“Java Laboratories Using Java Power Tools” and “Teaching Multi-threaded Programming” workshops. Covington, KY. Feb. 27 - Mar. 3, 2002.

“Barrier-Free Information Technology.” On-line workshop as part of Certificate in Accessible Information Technology program of the University of Southern Maine. February 2002.

Doing “IT” Right Conference. Pennsylvania’s Initiative on Assistive Technology. Institute on Disabilities, Temple University. Harrisburg, PA. Nov. 7-8, 2001.

Information Systems Education Conference. Cincinnati, OH. November 1-4, 2001. **Presenter and Session Chair.**

HCI International 2001 Conference. New Orleans, LA. August 5-10, 2001. **Presenter.**

Developing On/Off-Line Computer Ethics (DOLCE) Workshop. Sponsored by the National Science Foundation. Colorado School of the Mines, Golden, CO. May 31 - June 3, 2001. One of 30 selected participants, of 80 applicants.

Usability Intensive Workshop. Inverse Ratio Corporation. Irving, NY. February 15-16, 2001.

ACM Computing Policy '98 Conference. Washington, DC. May 10-12, 1998. **Program Committee Member.**

Human Computer Interaction Lab 14th Annual Symposium: Universal Access. Institute for Advanced Computer Studies, University of Maryland. May 30, 1997.
Discussant.

ACM SIGCHI Conference. The Association for Computing Machinery's Special Interest Group on Computer-Human Interaction. Atlanta, GA. March 24-27, 1997.

Computer Professionals for Social Responsibility Annual Meeting. Washington, DC. October 19-20, 1996.
Board Member.

Java Workshop Sunsoft Developer Camp. Washington, DC. September 24, 1996.

8th Annual Rehabilitation Conference. A.I. duPont Institute. Wilmington, DE. April 19, 1996.

The SIGCSE Technical Symposium. The Association for Computing Machinery's Special Interest Group on Computer Science Education. Philadelphia, PA. February 15-18, 1996.

Computers and the Quality of Life Symposium. The Association for Computing Machinery's Special Interest Group on Computers and Society. Philadelphia, PA. February 14-15, 1996. **Program Co-Chair.**

Forum on the Telecommunications Reform Legislation. The Internet Society Washington, DC Chapter. Washington, DC. January 18, 1996.

Forum on Universal Design of Telecommunications and Information Systems. World Institute on Disability. Washington, DC. October 27, 1995.

Society and the Future of Computing: A Symposium on New Directions in Computer Science. Washington, DC. October 26, 1995. **Discussant.**

Computer Professionals for Social Responsibility Annual Meeting. Chicago, IL. October 7-8, 1995.
Board Member.

ETHICOMP95 Conference. De Montfort University. Leicester, UK. March 28-30, 1995. **Presenter.**

Computer Professionals for Social Responsibility Annual Meeting. San Diego, CA. October 8-9, 1994.
Board Member.

PACISE Fall Conference; East Stroudsburg University; East Stroudsburg, PA; October 7, 1994.

National Computer Ethics Conference. The Brookings Institution. April 28-29, 1994. Washington, DC.
Presenter.

PACISE Spring Conference; Slippery Rock University; Slippery Rock, PA; April 1-2, 1994.

PACISE Fall Conference; Kutztown University; Kutztown, PA; October 1993.

PACISE Spring Conference; Clarion University; Clarion, PA; April 1993.

AAAS Annual Conference; Teaching Ethics in Science and Engineering Seminar; Boston, MA; February 1993. **Presenter, poster session.**

PACISE Fall Conference; Bloomsburg University; Bloomsburg, PA; October 1992.

PACISE Spring Conference; Edinboro University; Edinboro, PA; April 1992.

PACISE Fall Conference; **Conference Chairman**; Millersville University; October 1991.

National Conference on Computing and Values; Southern Connecticut State University; August 1991; **participant in "Privacy and Confidentiality" working group.**

PACISE Spring Conference; California University; California, PA; April 1991.

PACISE Fall Conference; Mansfield University. Mansfield. PA; Oct. 1990; **discussant for "Faculty Development" and "Student Recruitment" panels.**

Computers and the Quality of Life Conference; The George Washington University; Washington. D.C.; September 1990; participant in "Computer Ethics" symposium.

Millersville University Perspectives Workshop; June 1990; participant.

Microcomputer Technology in Special Education and Rehabilitation Conference; Minneapolis. MN; October 1989; participant in "Access is One Thing: Funding is Something Else" and "Evaluation of Computer Input Methods for Persons with Physical Disabilities" workshops.

USENIX Conference; Baltimore, MD; June 1989; participant in "UNIX Internals" and "UNIX Device Drivers" workshops.

HyperAcademia; University of Pennsylvania; Philadelphia, PA; March 1989.

MacAdemia; Drexel University; Philadelphia, PA; March 1989.

Abilities Expo on Spinal Cord Injuries; Los Angeles, CA; June 1988.

CSC/SIGCSE Conference; Atlanta, GA; February 1988.

National Educational Computing Conference (NECC); Philadelphia, PA; June 1987; **Member of Publicity Committee.**

CSC/SIGCSE Conference; St. Louis, MO; February 1987.

CHI/GI Conference; Toronto, Canada; April 1987.

Artificial Intelligence and Education Conference; University of Pittsburgh; Pittsburgh, PA; May 1987.

Science Fiction/Fantasy Writers Conference; Harrisburg Area Community College; Harrisburg, PA; November 1986.

ACM Professional Seminar; "Object Oriented Programming"; University of Maryland; October 1986.

National Educational Computing Conference (NECC); San Diego, CA; June 1986.

Pennsylvania Association of Computer and Information Science Educators of the State System of Higher Education (PACISE-SSHE); Indiana University of Pennsylvania; Indiana, PA; May 1986.

1986 Writing Conference; Lancaster-Lebanon Writing Council; Franklin and Marshall College; Lancaster, PA; March 1986.

ACM Professional Seminar; "Effective User Interfacing"; University of Maryland; October 1985.

International Joint Conference on Artificial Intelligence; UCLA; Participant in "AI in Education" and "Machine Learning" workshops. August 1985.

National Computer Conference; Las Vegas, NV; July 1984.

CSC/SIGCSE Conference; Philadelphia, PA; January 1984; member of Conference Publicity Committee.

ACM Special Interest Group for University and College Computer Services Annual Conference (SIGUCCS); New Orleans, LA; October 1983.

West Coast Computer Faire; San Francisco, CA; March 1983; **Presenter**.

American Association for Artificial Intelligence Annual Conference; Stanford University; Palo Alto, CA; August 1980.

HONORS THESIS SUPERVISION

"A Browser Extension for Providing Visually Impaired Users Access to the Content of Bar Charts on the Web". Ed Schwartz. Spring 2007. Committee member.

"Comparing Machine Learning Methods for Affect Recognition in Instant Messages". Dan Blanchard. Summer 2005. Committee member.

"Calculating Entry Rates for AAC Access Methods". John McCaw. Spring 2005. Thesis Advisor.

"The Internet as an Agent of Change for Organizations"; Jonathan Bupp; Spring 1995. Committee member.

INDEPENDENT STUDY SUPERVISION

"Enhancements to the Portable Personal Profile System." Mike McLaughlin. Spring 2007.

"The Portable Personal Profile Project." Shane Shearer. Spring 2006.

"Interfacing AAC Devices to Mac OS X." Dan Yocom and Josh Huber. Spring 2005.

"Augmentative Communication." John McCaw and Mark Gormley. Fall 2004.

"User-Centered Website Design." Justin Golihew and Ryan Meier. Summer 2004.

"Augmentative Communications Devices." Christine Via and Katie Lutz. Summer 2003.

"Windows Access Controls." Christian Hendriksen. Spring 2003.

"E-Commerce Store Builder." David DeSanto. Spring 2003.

"Women in Computer Science." Heather Godfrey. Fall 2002.

"ViKI Project, Phase II". Christopher Medalis. Summer 2002.

"A Further Study of the HCI Merits of Surveillance Software". Laura Yohe, Spring 2001. Presented at the Spring Student Research Conference, Millersville University. April 20, 2001.

"Analysis of Adavi's Silent Watch Software for Use in Usability Testing". Laura Yohe, Fall 2000.

"A Virtual Keyboard Interface for the Handicapped". Robert Schneider. Fall 1998.

"A Computerized Home Control System". Todd Echterling. Fall 1997.

"Web Site Development". Aaron Holcomb. Fall 1997.

"Remote Order Entry (ROE) - A Brief Introduction". Michael Simaska. Summer 1993.

“Advanced Object-Oriented Programming on the Macintosh”. Alanna Yohe. Spring 1990.

“A Circuit Board CAD/CAM System”. Matthew Parr. Summer 1986.

“An Algorithmic Approach to Intelligent Robot Mobility”. Scott Kauffman. Spring 1983. Published in *Robot Experimentor Magazine*; Summer 1983.

“Microcomputer Networks”. Michael Bauer. Spring 1982.

“Operating Systems Experimentation”. Tony-Paul Puglese. Spring 1982.

“Ethical Dilemmas in Computing”; James Zeigler and David Bender; Spring 1998.

“A School Grading System”; Carol Kotzman and Jeffrey Slagel; Summer 1990.

“An Analysis of Computer Instruction in South Eastern School District”; Jeffrey Slagel; Summer 1990.

“Programming as a Problem-Solving Process”; Carol Kotzman; Summer 1990.

“Using General Computer Tools in the Classroom”; Kathleen Hay; Summer 1990.

**EDUCATION
GRADUATE
STUDENT
SUPERVISION**

**CURRICULUM
DEVELOPMENT**

CS 101 - Introduction to Problem Solving with Computers (Summer 1991)
CS 161 - Introduction to Computing I (Fall 1983)
CS 162 - Introduction to Computing II (Fall 1983)
CS 350 - Cognitive Science (Spring 1995).
CS 362 - Data Structures (Fall 1996).
CS 380 - Operating Systems (Fall 1983)
CS 406 - Topics in CS: Object-Oriented Programming (Fall 1989)
CS 406 - Topics in CS: Expert Systems (Summer 1987)
CS 406 - Topics in CS: Adaptive Technologies (Fall 2004)
CS 410 - Social Consequences of Computing ("W" designation, Fall 1992)
CS 425 - Human-Computer Interaction (Fall 1996)
CS 426 - Adaptive Technologies (Spring 2006)
CS 479 - Advanced Operating Systems (Spring 1986)
CS 610 - Introduction to Educational Computing (Summer 1983)
CS 625 - Introduction to Software Development (Summer 1984)
CS 631 - PILOT and Logo Programming (Summer 1983)
CS 640 - Pascal Programming for Teachers (Summer 1983)
CS 697 - Teaching High School Computing (Summer 1990)
EDW 511 - HyperCard for Educators (Summer 1990)
EDW 533 - Advanced HyperCard for Educators (Summer 1991)
EDW 602 - Macintosh Software, Intermediate Level (Summer 1993)
EDW 607 - Ethical Dilemmas in Computing (Fall 1992)
EDW 748 - Assistive Technology for Students with Disabilities (Spring 2005)

**UNIVERSITY
SUPPORT**

University Tenure and Promotion Committee (Fall 2006 – Spring 2008).

Americans with Disabilities Task Force (July 1993 – present).

Faculty Advisor, Student ADA Organization (Fall 2002 – Spring 2004).

Assistive Technology Resource Center Task Force (March 2002 – Spring 2004).

Commencement Marshall (2003).

School of Science and Math Dean’s Search Committee (Fall 1998 - Spring 1999).

Computer Law and Policy Task Force (Jan 1997 - April 1999).

Technology Vision Task Force (Sept 1996 - August 1997).

Academic Policies Committee (Sept 1994 - Sept 1995).

Media Center Development Committee (Fall 1993 - Fall 1998).

Visual Impairment Workstation Committee (Spring 1991).

Computer Policy Committee (Sept 1983 - Aug 1985).

Instructional Users Committee (Sept 1983 - Aug 1985).

University Celebration Week Planning Committee (June 1985).

Ben Franklin Partnership Coordinator (Fall 1983 - Spring 1984).

Academic Computing RFP Evaluation Committee (Sept 1982 - Aug 1983). **Chair.**

Administrative Computing RFP Evaluation Committee (Sept 1982 - Aug 1983).

Chair, Accreditation Committee (Spring 2002 – Fall 2006).

Faculty Search Committee (1994 – 2006; Chair 1994-1995, 2005-2006).

Roddy Renovation Committee (Fall 1999 – Fall 2001).

Departmental Social Issues in Computing Day Coordinator (Fall 1999 – Spring 2000).

Lab Development Committee. Spring 1994. **Co-Chair.**

Alternate Faculty Senator. Spring 1994.

Departmental Administrator, Major Field Achievement Test.

Editor of Department Newsletter. (2001-2002).

Departmental Faculty Evaluation Committee (**Co-Chair** 2000/2001; 2003/2004; **Chair** 2004 - present).

Annually departmental host for University Open House.

Department representative to Pennsylvania Association of Computer and Information Science Educators, Executive Board member (Fall 1990 - Spring 1995.).

Department representative to School of Science and Mathematics Curriculum Committee (Fall 1990 - Spring 1992, Fall 1983 - Spring 1984, **Chair** 83/84).

Computer Science Education Graduate Coordinator (Sept 1990 - present).

Faculty Search Committee (1982-1987, 1989, Chair 1985; **Chair** 1994-1995; 2000-present).

Department Facilities Committee (Sept 1982 - Aug 1986).

Department of Mathematics and Computer Science **Assistant Chair** (Sept 1982 - Aug 1984).

Faculty Advisor, MUAllies student organization. Millersville University. March 2007 – present.

Webmaster, Silent Witnesses of Central PA. January 2007 – present.

Member, Website Development Task Force. Unitarian Church of Harrisburg. January 2006 – present.

**DEPARTMENTAL
SUPPORT**

**COMMUNITY
SERVICE**

President, Board of Trustees. Unitarian Church of Harrisburg. July 2005 - present (Board member July 2003 - present).

Consultant, Margeret E. Moul Home. York, PA. Fall 2003 - present.

Consultant on Assistive Technology. Fall 2004 - present.

Faculty mentor. Oliver LaGrone Scholarship recipient Tony Dickey (a blind student at MU), Unitarian Church of Harrisburg, Fall 1999 – Spring 2004.

Judge, Patriot-News Science and Engineering Fair. Dickinson University. March 19, 2001.

Technology Committee, Unitarian Church of Harrisburg, Fall 1994 - Fall 1995. **Chair.**

Participant, Lancaster Partnership Mentoring Program, Fall 1993 - Spring 1994.

Continuing Education Course, "An Introduction to DOS", Fall 1990.

Nominated as Presidential Delegate to the SSHE Academic Computer Users Council (Summer 1990).

Judge, Lancaster Science and Engineering Fair, Franklin and Marshall College, March 21-23, 1990.

Official Scorekeeper, Hershey Invitational Gymnastics Meet, Hershey Gymnastics Center, Hershey, PA, November 1989.

Departmental Representative, Lancaster County Business Expo, Lancaster Host Convention Center, June 1989.

Career Day Participant. Penn Manor Jr. High School. April 1989.

Judge, York County Science and Engineering Fair, Penn State University at York, February 29, 1988.

Consultant, Boy Scouts of America In-School Career Awareness Exploring Program, Elizabethtown High School, April 1987.

Faculty Advisor, MU Science Fiction and Fantasy Society. Fall 1982 - Spring 1985.

Judge, Millersville University History Day. April 1984

Career Day Participant. Hempfield High School. April 1984.

Judge, Lancaster School District Programming Contest, March 1983.

Career Day Participant. Hempfield High School. April 1983.

Career Day Participant. Hempfield High School. April 1982.

Addenda

Leadership or Policy Making Responsibilities

Department Coordinator for ABET Accreditation (Spring 2002 – present).

ABET Accreditation Reviewer (Spring 2002 - present).

Chair, Departmental Evaluation Committee (Fall 2000 – Spring 2001; Fall 2004 – Spring 2005).

Departmental Social Issues in Computing Day Coordinator (Fall 1999 – Spring 2000).

Member of School of Science and Math Dean's Search Committee (Fall 1998 - Spring 1999).

Member of Millersville University Computer Law and Policy Task Force (January 1997 - April 1999).

Member of Millersville University Technology Vision Task Force (September 1996 - August 1997).

Member of Millersville University Americans with Disabilities Committee (January 1993 - present).

Member of Program Committee, ACM Computing Policy '98 Conference. Washington, DC. May 10-12, 1998.

Program Co-Chair, Computers and the Quality of Life Symposium. Association for Computing Machinery's Special Interest Group for Computers and Society. Philadelphia, PA. February 14-15, 1996.

Appointed as member of the U.S. Public Policy Committee of the Association for Computing, October 1995.

Reviewer for the Association for Computing Machinery's Special Interest Group for Computer Science Education 1995 Conference.

Director of the Mid-Atlantic Region, Computer Professionals for Social Responsibility (Fall 1994-1997).

Member of Steering Committee, Project ImpactCS, NSF Grant (June 1994-June 1997).

Member of Association for Computing Machinery's Special Interest Group for Computers and Society Curriculum Task Force (Summer 1994 - Fall 1996).

Chair of the CS Department Faculty Search Committee. Spring 1995.

President, PA Association of Computer and Information Science Educators (1992-1994).

Executive Board Member, PA Association of Computer and Information Science Educators (1990-1994).

Conference Chairman, PACISE Fall Conference, Millersville University, October 1991.

Chairman, School Curriculum Committee, 1983/84.

Chairman, Academic Computing RFP Evaluation Committee, Fall 1982 to Fall 1983.

Assistant Chairman for Computer Science, Department of Mathematics and Computer Science, Fall 1982 to Fall 1984.

Assistant Director of Computer Services for Academic Computing, Fall 1983 to Fall 1984.