

# curriculum vitae

## Dale Musser

Dale Musser has experience managing technological innovation, designing and developing products and services, and teaching generations of designers, software engineers, and computer scientists.

His interests and expertise include iOS application design and development, web services development, machine learning, computational intelligence, data analytics, software architecture, software engineering, programming languages, UI design, human factors engineering, applications of technology to journalism, performance support systems, learning theory, instructional design, digital media production, spacial audio, game design and development, amateur radio, robotics, multicopters, network-based information systems for the purposes of education, entertainment, social exchange, information dissemination, collaboration, and information technology management.

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twitter: <https://twitter.com/dalemusser>

## Education

June 1992

GPA: 3.96

### Doctor of Philosophy

Instructional Design and Technology  
Department of Educational Policy and Leadership  
The Ohio State University

- Education, instructional systems design and evaluation, digital media software systems, database management systems, software architecture, software engineering, networks, tools for education, educational simulations, artificial intelligence, research methodology, and electrical engineering.

December 1989

GPA: 3.92

### Master of Arts

Instructional Design and Technology  
Department of Educational Policy and Leadership  
The Ohio State University

- Education, instructional systems design and evaluation, tools for education, educational simulations, artificial intelligence, research methodology, and electrical engineering.

May 1986

GPA: 4.00

### Bachelor of Science in Education

Physics and Mathematics Education  
Department of Education  
Shippensburg University of Pennsylvania

- Education, physics, mathematics, and educational software.

1982 - 1984

GPA: 3.75

### Electrical Engineering

Department of Electrical Engineering  
Pennsylvania State University

- Digital and linear systems, physics, and mathematics.

## Experience

February 2008 - Present

### Associate Teaching Professor, Computer Science/Information Technology

Electrical Engineering Computer Science Department (EECS)  
College of Engineering, University of Missouri

- Courses taught: team-based iOS application design and development, software engineering, database systems, object-oriented programming and design, web application development, C#/.NET desktop application development, introduction to programming in Python, and senior capstone.
- Research areas: mobile applications, health informatics, learning systems, learning spaces, programming languages, web applications, Internet technologies, social computing, digital media, and spacial audio.
- Currently teaching online courses from San Francisco, CA.

May 2016 - May 2018

### Chief Technology Advisor

Reynolds Journalism Institute  
School of Journalism, University of Missouri

### Director of Information Technology Program

Computer Science Department  
College of Engineering, University of Missouri

February 2008 - December 2015

- Managed the undergraduate information technology degree program.
- Increased enrollment from 70 students to 320 students.
- Raised funding from \$200,000 to \$1.3 million annually.
- Responsible for improvements in curriculum and instructional delivery in CS and IT.

February 2007 - May 2009

### Adjunct Assistant Professor

Health Management and Informatics  
School of Medicine, University of Missouri

- Engaged in research and development involving information systems to support patient counseling and education.

August 2006 - January 2008

### Mathematics and Physics Teacher

Tarboro High School  
Edgecombe County Public Schools, North Carolina

- Taught calculus, pre-calculus, advanced functions, and physics.
- Implemented learning technologies for mathematics and science education.
- Founded and advised the robotics club.

June 2003 - July 2003

### Instructor

#### Developing Multimedia Mobile Applications

Växjöuniversitetet, Växjö, Sweden (now called Linnéuniversitetet)

- Taught project-based course in the design and development of multimedia mobile applications.

April 2003 - February 2008

### Owner of Eyebits Studios

Greensboro, NC/Tarboro, NC

- Web application design, development, and hosting, digital media production, graphic design, photography, audio/video production, animation production, CD/DVD production, networking, and wireless Internet installation.

June 2002 -  
July 2002

## **Instructor** **Digital Game and Learning Environment Development**

Växjöuniversitetet, Växjö, Sweden (now called Linnéuniversitetet)

- Taught project-based course in the design and development of digital games for learning environments.

April 2001 -  
May 2004

## **Assistant Professor, Network Learning Systems**

School of Information Science and Learning Technologies  
College of Education, University of Missouri

- Taught courses in the School of Information Science and Learning Technologies.
- Directed research and development projects in the Center for Technology Innovations in Education which I co-founded.
- Participated in the creation and operation of the technology infrastructure for the College of Education.
- Provided consultation to units outside of COE regarding computing, instructional technology, and software development.

January 2000 -  
May 2000

## **Director of Systems and Applications**

Information & Access Technology Services  
University of Missouri

- Managed the following teams: unix systems, Exchange e-mail, Netware, WebCT/online course management systems, security, and application development.

December 1999 -  
May 2000

## **Director of Advanced Computing Environments**

Information & Access Technology Services  
University of Missouri

- Managed the following groups: Advanced Technology Center, Emerging Technologies Group, and Research Support Computing.

September 1999 -  
May 2002

## **Instructor**

Department of Computer Engineering & Computer Science  
College of Engineering, University of Missouri

- Taught course in digital media and Internet software development.

1995 - 1999

## **Co-Founder and Co-Director**

Center for Technology Innovations in Education (CTIE)  
University of Missouri

- Directed day to day operation of CTIE: budgets, personnel, technology, facilities, and mission.
- Directed \$500,000 renovation of CTIE facilities.
- Directed research and development projects.
- Managed Internet/server services for the College of Education.
- Obtained funding for research and development projects and general operation of CTIE.

1994 - 2001

## **Research Assistant Professor**

School of Information Science and Learning Technologies  
College of Education, University of Missouri

- Taught courses in the School of Information Science and Learning Technologies.
- Participated in creation and operation of technology infrastructure for the College of Education.
- Provided consultation to units outside of COE regarding computing, instructional technology, and software development.

## Manager of Multimedia Educational Software Products

IBM K-12  
Atlanta, GA

1995

- Managed the design and development of multimedia educational software products.
- Managed creation of "look and feel" standards for IBM K-12 products.
- Reviewed third party products acquired for distribution by IBM K-12.

## Multimedia Software Title Director and Designer

IBM K-12  
Atlanta, GA

1994

- Designed and directed the development of "Magic Canvas!"
- Participated in development of the "Shadowboxes: A Story of the ABC's" CDROM for Windows.
- Created and managed the IBM Educational Software Summer Design Project.

## Software Developer

SEGA of America  
Redwood City, CA

1993

- While working for IBM I spent three months at SEGA developing an interpreted programming language and video player software for the SEGA CD game platform.

## Programming and Technology Services Team Leader

IBM EduQuest  
Atlanta, GA

1993 - 1994

- Programming and Technology Services team leader within multimedia titles development group.
- Created tools for DOS, Windows, and Macintosh multimedia development.
- Selected commercial tools for software development.
- Provided problem resolution expertise during multimedia title development.
- Acquired and managed hardware and software for development group.
- Established and managed network services.
- Designed multimedia title concepts and evaluated multimedia title designs.

## Education Instruction Specialist

IBM EduQuest  
Atlanta, GA

1990 - 1992

- Developed a network-based multimedia database management system.
- Developed a system for accessing analog video from videodiscs over a digital network.
- Developed a Novell based network voice mail system.
- Co-developed second generation of the Digital Video Interactive (DVI) Audio/ Video Kernal (AVK) for DOS.
- Developed prototype and demonstration multimedia technologies.

## Consultant and Multimedia Software Developer

BellSouth Mobility  
Atlanta, GA

1991

- Developed a touch-screen multimedia marketing application for cellular phone services and products.

## Graduate Research Associate

Department of Educational Policy and Leadership  
The Ohio State University

1990 - 1991

- Installed and managed the IBM-ICLAS/Novell LAN for the Instructional Design and Technology group.

1989 - 1990

### **Editor, PILOT SIG Newsletter**

Association for the Development of Computer-Based Instructional Systems (ADCIS)

- Edited the newsletter for the PILOT programming language special interest group in ADCIS.

1989

### **OSU Contingent Expedition Leader to Krakatua**

The Ohio State University and Oxford University, England  
Krakatau Islands, Indonesia

- Lead the Ohio State University contingent of the Oxford/OSU Expedition to the Krakatau Islands to study the recovery of the flora and fauna following the eruption of 1883.
- Collected plant specimens for AIDS and cancer research for NIH.

1988 - 1990

### **Graduate Teaching Associate, Mathematics**

Department of Mathematics  
The Ohio State University

- Recitation leader and instructor for undergraduate mathematics courses.

1986 - 1988

### **Physics and Electronics Teacher Boys Track Coach**

Hanover Public School District  
Hanover, PA

- Taught physics and electronics.
- Coached boys track team.
- Advised the photography club.
- Directed the "Student Life" multimedia production.

1985 - 1986

### **Physics Tutor**

Department of Physics  
Shippensburg University of Pennsylvania  
Shippensburg, PA

- Physics tutor for Department of Physics.

June 1984 -  
August 1984

### **Software and Hardware Developer**

Computer Based Undergraduate Physics Lab  
Temple University  
Philadelphia, PA

- Developed digital interface for experimental apparatus and wrote instructional computer software for the undergraduate physics lab experiments.

## **International Experience**

June 2003 -  
July 2003

### **Växjöuniversitetet, Växjö, Sweden (now called Linnéuniversitetet)**

Instructor for Developing Multimedia Mobile Applications.

July 2002

### **Berlin, Germany**

Demonstration of Shadow netWorkspace to faculty from Institut für die Pädagogik der Naturwissenschaften, Kiel, Deutschland.

June 2002 - July 2002	<b>Växjöuniversitetet, Växjö, Sweden (now called Linnéuniversitetet)</b> Instructor for Digital Game and Learning Environment Development.
June 2001 - July 2001	<b>Goethe Institute, Munich, Germany</b> German language learning.
June 1995	<b>Moscow, Russia</b> Received training in and flew L39 and MiG29 jet aircraft. 
June 1989 - August 1989	<b>Krakatau and Java, Indonesia</b> Oxford/OSU Expedition to the Krakatau Islands.

## Awards

Spring 2019	<b>Computer Science Department Faculty Award</b> Selected by graduating CS and IT seniors
Fall 2018	<b>Computer Science Department Faculty Award</b> Selected by graduating CS and IT seniors
Spring 2017	<b>Computer Science Department Faculty Award</b> Selected by graduating CS and IT seniors
Fall 2016	<b>Computer Science Department Faculty Award</b> Selected by graduating CS and IT seniors
Spring 2016	<b>Computer Science Department Faculty Award</b> Selected by graduating CS and IT seniors
Spring 2015	<b>Computer Science Department Faculty Award</b> Selected by graduating CS and IT seniors
Fall 2012	<b>Computer Science Department Faculty Award</b> Selected by graduating CS and IT seniors
Spring 2011	<b>Computer Science Department Faculty Award</b> Selected by graduating CS and IT seniors
Spring 2010	<b>College of Engineering Faculty Fellowship</b> Renewable/reviewable faculty fellowship awarded by the Dean of Engineering
Fall 2010	<b>Computer Science Department Faculty Award</b> Selected by graduating CS and IT seniors
Spring 2009	<b>CS/IT Program Outreach Award</b> Presented for the promotion of the computer science and information technology programs and the field of engineering to K-12 students
Fall 2009	<b>Excellence in Teaching with Technology Award,</b>

## Undergraduates

MU 2009 Faculty Recognition Awards

Fall 1998

### High Flyer Award

Excellence in the Scholarship of Teaching  
MU College of Education

Summer 1998

### High Flyer Award

Excellence in the Scholarship of Teaching  
MU College of Education

April 20, 1998

### Citation of Merit for Outstanding Achievement

Excellence in Education Awards, MU Division of Student Affairs

Academic Year  
1997 - 1998

### High Flyer Award

Excellence in the Scholarship of Teaching  
MU College of Education

Academic Year  
1994 - 1995

### High Flyer Award

Excellence in the Scholarship of Teaching  
MU College of Education

1987

### Sallie Mae Foundation First Year Teacher Award

Physics Teacher, Hanover High School, Hanover, PA

1982

### Eagle Scout

Boy Scouts of America, Troop 172, Terre Hill, PA

## Licenses

### FCC Amateur Radio License

Extra Class

Callsign: [W6NCA](#)

## Funding

(Submitted,  
Pending)  
September 2019 -  
August 2021

### Impact

\$50,000 State Farm Good Neighbor Citizenship Grant for Impact. Impact helps students develop an understanding of the world, society, and self through authentic data in open datasets while learning IT topics such as programming, databases, web services, and data analytics. Students engage with social sciences topics through authentic, real world, impactful data used in activities, challenges, projects, assessments, and learning materials in information technology topics. The datasets, APIs, and sample code provided by Impact are defined to meet the needs of learners at different learning stages from beginner through expert and to address a broad range of social science topics.

September 2018 -  
August 2020

### inITialize

\$10,000 State Farm Good Neighbor Citizenship Grant for the inITialize program that helps high school students get started in a career in Information Technology by developing an understanding of the field and career opportunities, learning about the educational pathways that can lead to IT careers, developing foundational skills in IT to prepare them to take introductory college courses in the field, and providing them with the opportunity to get an early start on a degree in IT by taking their first college courses online from the University of Missouri BSIT degree program while still in high school.

June 2010 -  
June 2014

## Healthy Living Exhibits Portable Kiosks Using iPad Tablets

\$60,000 from Missouri Extension to develop an exhibit on topics related to healthy living using iPad tablets. The project involves designing and writing the software, building kiosk stands, developing directional audio hardware, and building a mechanism for securing, transporting, and charging the kiosks.

*Project leader and principal designer and developer.*

May 2010 -  
August 2012

## Research Experiences for Undergraduates (NSF REU)

National Science Foundation award of \$340,000 for 3 years of summer REU experiences for undergraduate students. Undergraduate students come to MU for a period in the summer where they engage with mentors on CS-related research projects.

*Co-Principal Investigator with Wejun Zeng (PI).*

September 2007 -  
June 2009

## OAHelp

Awarded \$20,000 for the development, hosting, and management of a web-based system and the creation of interactive digital media to provide education, counseling and support for people with Osteoarthritis (OA) as well as to collect research data to evaluate the system, methodologies, and materials.

*Principal designer and developer.*

July 2005 -  
June 2009

## InSite

Awarded \$18,000 for the design and development of a web content management system that allows users to edit rich digital media content directly in a web browser.

*Principal designer and developer.*

September 2004 -  
Present

## RAHelp

Awarded \$22,500 for the development, hosting, and management of a web-based system and the creation of interactive digital media to provide education, counseling and support for people with Rheumatoid Arthritis (RA) as well as to collect research data to evaluate the system, methodologies, and materials.

*Principal designer and developer.*

September 2003 -  
August 2004

## Web-based Platform for Learning: Webmentoring

Awarded €21,240 (approx \$20,000) to create a web-based platform to support mentoring for the EU Consortium on Webmentoring.

*Project leader, principal designer, and developer. Project in collaboration with VäxjöVäxjöuniversitetet, Växjö, Sweden (now called Linnéuniversitetet).*

September 2001 -  
September 2002

## Verizon Children's Literacy netWorkspace Verizon Kids Read!

Awarded \$90,000 by Verizon for building an Internet-based environment using the Shadow netWorkspace system to support literacy development for children.

*Collaboration with James Laffey.*

April 2001 -  
September 2002

## Shadow netWorkspace eMints Project

Awarded \$250,000 by Morenet, UM System, and MU School of Information Science & Learning Technologies to develop the Shadow netWorkspace system and deploy it for use by eMints schools in Missouri.

*Collaboration with James Laffey.*

September 1999 -  
Ongoing

## Networked Learning Systems

A collaborative proposal of the Colleges of Engineering and Education to the MOGAIA Institute.

Award: \$380,000 year 1, \$320,000 year 2, \$260,000 year 3 and beyond.

*Contributing author.*

April 1999 -  
June 2000

## Information Environment for School Leadership Preparation

Awarded \$78,100 by the Educational Leadership & Policy Analysis Department from funding for the Cooperative EdD program.

*Principal investigator.*

January 1998 -  
December 1999

## **A Very High-speed Backbone Network Service (VBNS) Connection for the University of Missouri.**

Awarded \$350,000 by the National Science Foundation.  
*Contributing author. Gordon Springer was principal investigator.*

October 1998 -  
April 1999

## **Information Environment for School Leadership Preparation**

Awarded \$20,000 plus benefits by Goals 2000 grant.  
*Contributing author to Goals 2000 proposal with Jerry Valentine, principal investigator, IESLP.*

November 1997 -  
August 2000

## **Technology Infrastructure in Teacher Education**

Study of technology infrastructure in MU College of Education. Awarded \$800,200 from the National Science Foundation, REPP.  
*Collaboration with Jim Laffey, Peter Hall, and Peggy Placier.*

October 1997 -  
June 2000

## **Supporting Educational Reform at the Jefferson School**

Awarded \$77,300 from the SBC Foundation.  
*Co-principal investigator and co-author with Jim Laffey.*

September 1997 -  
August 2001

## **Program Support for the Center for Technology Innovations in Education**

Awarded \$500,000 from the SBC Foundation in a competitive submission.  
*Co-principal investigator and co-author with Jim Laffey.*

September 1997 -  
September 1999

## **Information Environment for School Leadership Preparation**

Awarded \$150,000 by Educational Leadership and Policy Analysis Department from funding for Cooperative Ed.D. program.  
*Principal investigator.*

July 1997 -  
June 1998

## **Information Environment for School Leadership Preparation**

Awarded \$45,000 from the University Council of Educational Administrators.  
*Principal investigator.*

October 1996 -  
September 2001

## **Challenge Grant for Project Whistlestop Systemic reform effort**

Awarded \$1,900,000 from the U.S. Department of Education to a School/University/ Library consortium in a competitive submission. This grant was to develop digital versions of materials in the Harry S. Truman Presidential Library.  
*Contributing author.*

October 1995 -  
September 1998

## **Implementation Grant for the NIE MOST (Missouri Supporting Teachers)**

Electronic support system to promote problem-based learning using a computational science model.  
Awarded \$863,865 from NSF in a competitive submission.  
*Co-principal investigator and co-author with Jim Laffey.*

June 1995 -  
May 1996

## **Performance Support of Field-Based Learning Interactive Shared Journal System**

Awarded \$100,000 from Institute for Instructional Development in a competitive submission.  
*Co-principal investigator and co-author with Jim Laffey.*

May 1995 -  
May 1996

## **Investigation of Internet Applications and Protocols and Using the Internet to Support Collaboration**

Research Experiences for Undergraduates (REU) Program. Awarded \$10,000 from National Science Foundation as supplement to MORENET grant for NSF Connections to NSF Net.  
*Principal author, co-investigator, and manager of REU program. Bill Mitchell from MORENET served as principal investigator.*

### Refereed Journal Articles

- Shigaki, C., Smarr, K., Chokkalingham, S., Ge, B., Musser, D., Johnson, R. (Oct 2013). "RAHelp.org: An Online Intervention for Individuals with Rheumatoid Arthritis." Arthritis Care & Research. [[Pub link.](#)]
- Karen L. Smarr, Dale R. Musser, Cheryl L. Shigaki, Rebecca Johnson, Kathleen Donovan Hanson, Chokkalingam Siva. "Online Self-Management in Rheumatoid Arthritis: A Patient-Centered Model Application." Telemedicine and e-Health. March 2011, 17(2): 104-110. [[Pub link.](#)] [[Download PDF.](#)]
- Shigaki C.L., Smarr K.L., Yang Gong, Donovan-Hanson K., Siva C., Johnson R.A., Ge B., and Musser D.R. (Dec 2008). "Social interactions in an online self-management program for rheumatoid arthritis." Chronic Illness. 4 (4), 239-46. [[Pub link.](#)] [[NIH.](#)] [[Download PDF.](#)]
- Laffey, J., Musser, D. (2006). "Shadow netWorkspace: an open source intranet for learning communities." Canadian Journal of Learning Technology. 32 (1), 163-176. [[Pub link.](#)] [[Download PDF.](#)]
- Laffey, J., Musser, D., Remidez, H. & Gottdenker, J. (2003). "Networked systems for schools that learn." Communications of the Association of Computer Machinery. 46 (9), 192-200. [[Pub link.](#)] [[Download PDF.](#)]
- Mayer, C., Musser, D. & Remidez, H. (2001). "Description of a Web-Driven, Problem-Based Learning Environment and Study of the Efficacy of Implementation in Educational Leader Preparation." Computers in the Schools: the interdisciplinary journal of practice, theory, and applied research. 18, (1), 249-265. [[Pub link.](#)] [[ERIC.](#)]
- Remidez, H., Laffey, J. & Musser, D. (2001). "Open Source and the Diffusion of Teacher Education Software." Technology and Teacher Education Annual. 3, 2774-2778.
- Laffey, J. & Musser, D. (1998). "Attitudes of Preservice Teachers about Using Technology in Teaching." Journal of Technology and Teacher Education. 6, (4), 223-242. [[Pub link.](#)]
- Laffey, J. & Musser, D. (1998). "Software and Learning Systems Design for Field-Based Experience." Journal of Technology and Teacher Education. 6, (2/3), 193-204. [[ERIC.](#)]
- Laffey, J., Musser, D. & Tupper T. (1998). "An Internet-based Journal System for Enabling Learning Communities." Learning Technology Review. 2, Winter. 4-13. [[ERIC.](#)] [[National Library of Australia.](#)]
- Laffey, J. Musser, D. & Tupper T. (1998). "A Computer-Mediated Support System for Project Based Learning." Educational Technology Research and Development. 46, (1), 73-86. [[Pub link.](#)] [[Download PDF.](#)]

### Refereed Abstracts

- Smarr, K. L., Musser, D. R., Donovan Hanson, K., Laffey, J. M., Johnson, R. A., Siva, C. & Parker, J. C. (2005). "Development of an online self-management intervention for persons with rheumatoid arthritis: The RAHelp.org project [Abstract]". Arthritis and Rheumatism. 52, (9), S718.
- Musser, D., Laffey, J. & Espinosa, L. (2004). "Shadow netWorkspace: A Project Report on an Open Source, Intranet for Learning Communities." In L. Cantoni & C. McLoughlin (Eds.), Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2004. (pp. 1206-1213). Chesapeake, VA: AACE.
- Remidez, H., Gottdenker, J., Laffey, J., Musser, D., Hong, R., Espinosa, L. & Amelung, C. (2002). "Networked learning Systems." Proceedings of the Computer Support for Collaborative Learning. (pp. 550-551). Boulder, CO. Lawrence Erlbaum Associates. Hillsdale NJ.
- Remidez, H., Gottdenker, J., Laffey, J., Musser, D., Hong, R., Espinosa, L. & Amelung, C. (2002). "Developing a Shared language for Discussing Networked Learning Systems." Proceedings of the Computer Support for Collaborative Learning. (pp. 697-698). Boulder, CO. Lawrence Erlbaum Associates. Hillsdale NJ.
- Laffey, J., Musser, D., Espinosa, L., Remidez, H., Gottdenker, J., Hong, R. & Amelung, C. (2002). "CSCL for Schools that Learn." Proceedings of the Computer Support for Collaborative Learning. (pp. 111-118). Boulder, CO. Lawrence Erlbaum Associates. Hillsdale NJ.

- Gottdenker, J., Remidez, H., Hong, R., Yoon, S-Y, Amelung, C., Musser, D. & Laffey, J. M.,. (2002). "Introduction to the Shadow netWorkspace." Proceedings of the Computer Support for Collaborative Learning. (pp. 527-528). Boulder, CO. Lawrence Erlbaum Associates. Hillsdale NJ.
- Musser, D. & Laffey, J. (2001). "The Shadow netWorkspace." In C. Montgomerie & J. Viteli (Eds.), Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2001. (pp. 1376-1377). Chesapeake, VA: AACE.
- Laffey, J., Musser, D. & Espinosa, L. (2000). "Shadow netWorkspace Learning Systems Project." Proceedings of the International Workshop on Advanced Learning Technologies. (Palmerston North, New Zealand), IEEE Computer Society. 188-189.
- Laffey, J., Musser, D. & Tupper T. (1998). "An Internet-based Journal for Professional Development." Proceedings of AACE World Conference of the Society for Information Technology & Teacher Education.
- Laffey, J., Musser, D. & Wedman, J. (1998). "A Technology Infrastructure for Teacher Education." Proceedings of AACE World Conference of the Society for Information Technology & Teacher Education.
- Laffey, J. & Musser, D. (1996). "Building Internet-based electronic performance support for teaching and learning." Proceedings of AACE World Conference of the Web Society.
- Laffey, J. & Musser, D. (1996). "Supporting Learning from Field Experience in Teacher Education." Proceedings of AACE World Conference on Education Multimedia and Hypermedia.
- Hall, K., Musser, D., Lear, G. (1989). "Tools for Developing CBI Research Treatments and Gathering Data." Proceedings of the 31st International ADCIS Conference. 261-266.

## Book Chapters

- Musser, D., Laffey, J. & Lawrence B. (2000). "Center for Technology Innovations in Education University of Missouri-Columbia." In R. M. Branch & M. A. Fitzgerald (Eds.), Educational Media and Technology Yearbook 2000 Volume 25. (pp. 89-95). ERIC Clearinghouse on Information & Technology and the Association for Educational Communications and Technology. Libraries Unlimited, Inc., Englewood, CO.

## Monographs

- Musser, D. & Bush, M. (1990). "Plant Sampling for AIDS and Cancer Research." In R. J. Whittaker, N. M. Asquith, M. B. Bush, & T. Patomihardjo (Eds.), Krakatau Research Project: 1989 expedition report. (p. 56). Krakatau Research Project, School of Geography, University of Oxford. [\[SIRIS.\]](#)

## Other Professional Publications

- Wedman, J., Laffey, J., Andrews, R., Musser, D., Diggs, L. & Diel, L. (Sept/Oct 1998). "Building Technology Infrastructure and Enterprises: Increasing Performance Capacity." Educational Technology Magazine.

## Refereed Papers and Presentations

- Smarr, K. L., Johnson, R. A., Laffey, J. M., Musser, D. R., Siva, C., Donovan Hanson, K. & Parker, J. C. (2006, April). "Chronic disease management: an online patient-centered collaborative care approach." Presented at the Second Annual Bridging the Quality Gap in Mid-America: Measuring and Promoting Excellence Across the Continuum of Care Conference, Columbia, MO.
- Smarr, K. L., Musser, D. R., Donovan Hanson, K., Laffey, J. M., Johnson, R. A., Siva, C. & Parker, J. C. (2005, November). "Development of an online self-management intervention for persons with rheumatoid arthritis: the RAHelp.org project." Presented at the Fortieth Annual Meeting of the Association of Rheumatology Health Professionals, San Diego, CA.
- Laffey, J. M., Smarr, K. L., Donovan Hanson K., Musser, D. R., Johnson, R. A., Burks, K., Hong, R-Y., Kidd, J. K. & Yang, C-C. (2005, June). "RAHelp.Org: An online self-management program for adults with rheumatoid arthritis." Paper

presented at the Critical Issues in eHealth Research Conference, Bethesda, MD.

Donovan Hanson, K., Smarr, K. L., Musser, D. R., Laffey, J. M., Johnson, R., Burks, K., Hong, R-Y., Kidd, J. L. & Yang, C-C. (2005, April). "RAHelp.org: Development of an innovative self-management program." Paper presented at the Bridging the Quality Gap in Mid-America: Innovation and Improvement in Health Care Delivery conference, Columbia, MO.

Musser, D. (2003, July). "Social Computing and Collaborative Learning Environments." ICALT. Athens, Greece.

Musser, D. (2002, November). "Shadow netWorkspace." ASCEND Network Conference. Växjö, Sweden.

Musser, D. (2002, October). "Internet2 Shadow netWorkspace Demonstration." Internet2 Fall Members Meeting. Los Angeles, CA.

Musser, D., Laffey, J., Remidez, H., Amelung, C. & Gottdenker J. (2002, April). "Shadow netWorkspace: Technology for Learning Community Implementation and Research." Presented at the Annual Conference of the American Education Research Association, New Orleans, LA.

Musser, D., Peace. L. (2000, April). "Internet Schools." Presented at the Annual Conference of the American Education Research Association, New Orleans, LA.

Mayer, C., Howland, J. & Musser, D. (1999, Oct). "Information Environment for School Leadership Preparation: Web-Based Software for Preparing Reflective Educational Leaders." Presented at the WebNet 99 World Conference on the WWW and Internet, Honolulu, HI.

Musser, D., Laffey, J., Huyler D., Laffey, M. & Trujillo, J. (1999, Oct). "A Web-Based Homework Notification System." Presented at the WebNet 99 World Conference on the WWW and Internet, Honolulu, HI.

Musser, D., Laffey, J. & Tupper T. (1999, Oct). "A Web-Based Interactive Shared Journal System." Presented at the WebNet 99 World Conference on the WWW and Internet, Honolulu, HI.

Laffey, J., Espinosa, L. & Musser D. (1999, June). "Technology and Urban, Elementary School Reform." Presented at the ED-MEDIA 1999 World Conference on Educational Multimedia, Hypermedia & Telecommunications, Seattle, WA.

Laffey, J., Musser, D. & Tupper T. (1998, June). "A Technology Infrastructure for Enabling a Learning Community." Presented at the AACE World Conference on Educational Multimedia and Hypermedia and on Educational Telecommunications.

Laffey, J., Musser, D. & Tupper, T. (1998, June). "An Internet-Based Journal System for Learning." Presented at the AACE World Conference on Educational Multimedia and Hypermedia and on Educational Telecommunications.

Laffey, J. & Musser, D. (1998, February). "Building Internet-Based Electronic Performance Support for Teaching and Learning." Presented at the Annual Conference of the AECT, St. Louis, MO.

Laffey, J., Tupper T. & Musser D. (1998, February). "Performance Support for Learners in a Project- Based Curriculum." Presented at the Annual Conference of the AECT, St. Louis, MO.

Tsikalas, K., McMillan, K., Schlager, M., Musser, D., Hewitt & J., Schank, P. (1997, November 14). "Online Collaboration: Tools for Teaching and Learning." Presented at TelEd 97, Austin, TX.

Laffey, J., Tupper T. & Musser D. (1997, August). "Performance Support for Learners in a Project- Based Curriculum." Poster session presented at the Annual Conference of the International Conference of Human-Computer Interaction, San Francisco, CA.

Laffey, J. & Musser, D. (1996, March). "Designing a Journal System for Learning from Field Experiences in Teacher Education." Paper presented at the Society for Information Technology in Teacher Education Annual Conference. **Was awarded best of conference paper in instructional design category.**

Laffey, J. & Musser, D. (1996). "A Journal System for Field Experience in Teacher Education." Demonstration presented at the Second International Conference on the Learning Sciences, Chicago.

Musser, D. (1995, February 10). "A Multimedia Database Management System for Educators, Students, and Developers." AECT '95 National Convention, Information Technology: Expanding Frontiers, Anaheim, California.

Hall, K., Musser, D. & Lear, G. (1989). "Tools for Developing CBI Research Treatments and Gathering Data." 31st International ADCIS Conference.

## Invited Presentations and Workshops

- Musser, D. (2010, April). "Producing and Disseminating Digital Video Learning Materials." 2010 Technology! Conference, University of Missouri, Columbia, MO.
- Musser, D. (2009, December). "New Media, Collaboration, Entrepreneurship and Knocking Down Silos." Economic Gardening & New Media, Reynolds Journalism Institute, University of Missouri, Columbia, MO.
- Musser, D. (2009, November). "The IT Program, Collaboration and Entrepreneurship." Mizzou Corporate Roundtable, St Louis, MO.
- Musser, D. & McKean, M. (2009, November). "The IT Program, Journalism, and Collaboration." MU Research & Development Summit, Columbia, MO.
- Musser, D. (2009, November). "The IT Program , Collaboration, and Entrepreneurship." MU College of Engineering Dean's Advisory Council, Columbia, MO.
- Musser, D. (2009, August). "Producing Digital Video Learning Materials." PTAC Directors Meeting, Lake of the Ozarks, MO.
- Musser, D. & Thompson, J. (2008, June). "The MU Information Technology Program." Saint Louis IT Coalition Presentation Series, University of Missouri-Saint Louis, Saint Louis, MO.
- Musser, D. (2002, July). "Shadow netWorkspace." Institut für die Pädagogik der Naturwissenschaften, Kiel, Deutschland.
- Musser, D. (2002, July). "Shadow netWorkspace." Växjöuniversitetet, Växjö, Sweden (now called Linnéuniversitetet).
- Musser, D. (2000, April 7). "Innovative Internet Learning Environments and the Open Source Movement (Keynote)." Converging Technologies: Reaching Learners in the Digital Age. MOREnet Consortium Conference and Educational Technologies at Missouri TeleLearning Conference, Tan Tara, Missouri.
- Musser, D., Jenkins, Y. & Niguidula, D. (1992, October 31). "Digital Multimedia Portfolios and Student Assessment: Tools and Examples." The Fall Forum, Coalition of Essential Schools, Philadelphia, Pennsylvania.
- Musser, D. & Stanton, B. (1992, October, 28). "Multimedia Databases: The Electronic Library and Electronic Books." Databases in Schools '92, Chicago, Illinois.

## State Presentations and Workshops

- Musser, D. (2002, Sept 26). "Shadow netWorkspace." Ed.D. Missouri Statewide Coordinating Committee. University of Missouri, Columbia, MO.
- Musser, D. (1999, March 19). "Course Delivery Via the Web: Lessons Learned." Teaching and Learning at a Distance. MOREnet Consortium Conference & DLDC TeleLearning Conference, Tan Tara, Missouri.
- Musser, D. & Guthrie, D. (1995, April 3). "Developing Multimedia Software (workshop)." Highways to Learning...Enjoy the Journey. Missouri Association of School Librarians (MASL), Tan Tara, Missouri.
- Musser, D. (1994, October 24). "Technology Update for 'Low Tech'ers'." Trendicators for Administrators. Missouri Council of Vocational Administrators (MCVA), Tan Tara, Missouri.
- Musser, D. (1994, October 3). "A Multimedia Database Management System for Use in K-12 Education." SUPERHIGHWAYS: The Educational Technology Journey. Missouri ED-TECH Fifth Annual Technology Conference, Tan Tara, Missouri.
- Musser, D. (1994, October 3). "A System for Creating and Managing Digital Multimedia Student Portfolios." SUPERHIGHWAYS: The Educational Technology Journey. Missouri ED-TECH Fifth Annual Technology Conference, Tan Tara, Missouri.

## Local Presentations

- Musser, D. (2009, Mar 17). "Developing Windows Desktop Applications, XBAPs, and Silverlight RIAs Using WPF, XAML, .NET and C#." Computer Science Department 2008-2009 Seminar Series, University of Missouri, Columbia, MO.
- Musser, D. (2009, Jan 8). "HD Film Production Using the Canon 5D Mark II." Columbia Media Resource Association (CMRA), Ragtag Film, Columbia, MO.
- Musser, D. (1996, July 29). "The Interactive Shared Journal System." UMC Medical Infomatics Group, Columbia, MO.
- Musser, D. (1995, April 5). "Multimedia Database Management Systems." UMC Medical Infomatics Group, Columbia, MO.
- Laffey, J., Musser D. & Wedman J. (1995, March 3). "Performance Support for Teaching and Learning." UMC Fifth Annual Teaching Renewal, Columbia, MO.

## Creative Works

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- Musser, D. (2016). "Debate Analyzer." [Java Application and Web Site]. Columbia, MO: University of Missouri. [[debateanalyzer.com](http://debateanalyzer.com).]
- Musser, D. (2016). "14ymedio iOS Mobile App." [iOS app and web services]. Columbia, MO: University of Missouri. [[fnd.io:14ymedio](http://fnd.io:14ymedio).]
- Musser, D. (2012). "Seasonal and simple." [iOS and Android Applications and Web Site]. Columbia, MO: University of Missouri.
- Musser, D. (2012). "The Community Exhibit." [Web Application]. Columbia, MO: University of Missouri.
- Musser, D. (2006-2010). "InSite." [Web Application]. Greensboro, NC: Eyebits Studios.
- Musser, D. (2005). "Good Moves for EveryBody." [Video DVD]. Columbia, MO: University of Missouri.
- Musser, D. (2004-present). "RAHelp." [Web Application]. Columbia, MO: University of Missouri. [[ClinicalTrials.gov](http://ClinicalTrials.gov).]
- Musser, D. (2004-2007). "Robot Haven: a refuge for robots." [Web Site]. Greensboro, NC: Eyebits Studios.
- Musser, D. (2003-present). "OSXPASS." [Computer Program]. Greensboro, NC: Eyebits Studios.
- Musser, D. (2003-2004). "Webmentor." [Web Application]. Greensboro, NC: Eyebits Studios.
- Musser, D. (2002-2003). "Verizon Children's Literacy netWorkspace: Verizon Kids Read!" [Web Application]. Columbia, MO: University of Missouri.
- Musser, D., Laffey, J. & CTIE Development Team (1999-2003). "The Shadow netWorkspace (Internet Schools Project)." [Web Application]. Columbia, MO: University of Missouri.
- Musser, D. (1998-2001). "Homework Notifier." [Web Application]. Columbia, MO: University of Missouri.
- Musser, D. & CTIE Development Team (1997-2000). "Information Environment for School Leadership Preparation (IESLP)." [Web Application]. Columbia, MO: University of Missouri.
- Musser, D. & Guthrie D. (1995). "Downlinks for Learning Session IV: Multimedia." [Video]. Columbia, MO: University of Missouri.
- Musser, D., Laffey, J. & CTIE Development Team (1995-1998). "The Interactive Shared Journal System (ISJS)." [Computer Program]. Columbia, MO: University of Missouri.
- Musser, D., Laffey J. & CTIE Development Team (1995). "The Guide to Project-Based Learning in Math and Science." [Multimedia Software]. Columbia, MO: University of Missouri.
- Musser, D., Perry L. & Perry T. (1994). "The Trek: An Interactive Literature Adventure." [Computer Program Design]. Atlanta, GA: IBM EduQuest.
- Musser, D. (Director and Designer) & IBM Corp. (1994). "Magic Canvas!" [Computer Program]. Atlanta, GA: IBM EduQuest.

- Musser, D. (Programming and Technology Development) & IBM Corp. (1994). "Shadowboxes: A Story of the ABC's (for Windows)." [Computer Program]. Atlanta, GA: IBM Multimedia Publishing Studio.
- Musser, D. (Programming and Technology Development) & IBM Corp. (1994). "Shadowboxes: A Story of the ABC's (for Macintosh)." [Computer Program]. Atlanta, GA: IBM Multimedia Publishing Studio.
- Musser, D. (Programming and Technology Development), IBM Corp. & Warner New Media (1993). "Seven Days in August (for DOS)." [Computer Program]. Atlanta, GA: IBM Multimedia Publishing Studio.
- Musser, D. Causey J. & Duke B. (1993). "SEGA Digital Video and Animation System." [Computer Program]. Atlanta, GA: IBM EduQuest.
- Musser, D., Kheriaty, L. & Causey J. (1993). "SEGALink." [Computer Language]. Atlanta, GA: IBM EduQuest.
- Westwater, R. & Musser, D. (1992). "Digital Video Interactive Audio/Video Kernal (AVK) for DOS/LinkWay Live! - release 2." [Computer Program]. Atlanta, GA: IBM EduQuest.
- Musser, D. (1992). "Multimedia Archive Explorer (MAX)." [Computer Software System]. Atlanta, GA: IBM EduQuest.
- Musser, D. (1992). "Automatic Folder Creator (AFC)." [Computer Program]. Atlanta, GA: IBM EduQuest.
- Musser, D. (1991). "Network Voice Mail System for K-12 Schools." [Computer Software System]. Atlanta, GA: IBM EduQuest.
- Musser, D. (1991). "BellSouth Mobility Cellular Phone Multimedia Kiosk." [Computer Program]. Atlanta, GA: BellSouth Mobility.
- Musser, D. (1990). "National Educational Multimedia Archive (NEMA)." [Computer Software System]. Atlanta, GA: IBM Educational Systems Division.
- Musser, D. (1989). "Textcad." [Computer Program]. Columbus, OH: The Ohio State University.

## Service

2018 - 2019

- Member of Information Technology Program committee.
- Worked with MU and Engineering Development to support campus funding and development efforts.
- Maintain the [Computer Science](#) and [Information Technology](#) programs Facebook pages.
- Maintain the [Mizzou Amateur Radio Club's](#) Facebook page.
- Trustee for Mizzou Amateur Radio Club station ([WOZOU](#)).

2017 - 2018

- Organizer for Mizzou Swift Developer meetings.
- Organizer for Mizzou Java Developer meetings.
- CS/IT mentor and organizer for Reynold Journalism Institute competition.
- Member of Computer Science Department curriculum committee.
- Chair of Computer Science Department equipment committee.
- Member of Computer Science Department Information Technology Program committee.
- Produced materials for CS and IT for "Let Your Major Be Your Guide" published by Tigertech.
- Worked with Columbia, MO economic development organizations.
- Worked with MU and Engineering Development to support campus funding and development efforts.
- Maintain the [Computer Science](#) and [Information Technology](#) programs Facebook pages.
- Maintain the [Mizzou Amateur Radio Club's](#) Facebook page.
- Trustee for Mizzou Amateur Radio Club station ([WOZOU](#)).

2016 - 2017

- Organizer for Mizzou Swift Developer meetings.
- Organizer for Mizzou Java Developer meetings.
- CS/IT mentor and organizer for [Reynold Journalism Institute Mobile Intelligence for Journalism competition](#).
- Member of Computer Science Department curriculum committee.
- Chair of Computer Science Department equipment committee.
- Member of Computer Science Department Information Technology Program committee.

2015 - 2016

- Member of Lafferre Hall renovation committee.
  - Member of Lafferre Hall digital media infrastructure committee.
  - Member of Lafferre Hall furniture committee.
  - Member of Lafferre Hall space assignment committee.
  - Produced materials for CS and IT for "Let Your Major Be Your Guide" published by Tigertech.
  - Worked with Columbia, MO economic development organizations.
  - Worked with MU and Engineering Development to support campus funding and development efforts.
  - Maintain the [Computer Science](#) and [Information Technology](#) programs Facebook pages.
  - Maintain the [Mizzou Amateur Radio Club's](#) Facebook page.
  - Trustee for Mizzou Amateur Radio Club station ([WOZOU](#)).
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- Organizer for Mizzou Swift Developer meetings.
  - Organizer for Mizzou Java Developer meetings.
  - CS/IT mentor and organizer for [Reynold Journalism Institute Apple Watch competition](#).
  - Director of Information Technology degree program (until December 31).
  - Member of Computer Science Department curriculum committee.
  - Chair of Computer Science Department equipment committee.
  - Member of Computer Science Department Information Technology Program committee.
  - Member of Lafferre Hall renovation committee.
  - Member of Lafferre Hall digital media infrastructure committee.
  - Member of Lafferre Hall furniture committee.
  - Member of Lafferre Hall space assignment committee.
  - Produced materials for CS and IT for "Let Your Major Be Your Guide" published by Tigertech.
  - Worked with Columbia, MO economic development organizations.
  - Worked with MU and Engineering Development to support campus funding and development efforts.
  - Maintain the [Computer Science](#) and [Information Technology](#) programs Facebook pages.
  - Maintain the [Mizzou Amateur Radio Club's](#) Facebook page.
  - Trustee for Mizzou Amateur Radio Club station ([WOZOU](#)).

2014 - 2015

- Organizer for Mizzou Swift Developer meetings.
- Organizer for Mizzou Java Developer meetings.
- CS/IT mentor and organizer for Reynold Journalism Institute [Public Media Platform \(PMP\)](#) competition.
- Director of Information Technology degree program.
- Member of Computer Science Department curriculum committee.
- Chair of Computer Science Department equipment committee.
- Chair of Computer Science Department Information Technology Program committee.
- Member of Lafferre Hall renovation committee.
- Produced materials for CS and IT for "Let Your Major Be Your Guide" published by the Mizzou Store.
- Worked with Columbia, MO economic development organizations.
- Worked with MU and Engineering Development to support campus funding and development efforts.
- Maintain the [Computer Science](#) and [Information Technology](#) programs Facebook pages.
- Maintain the [Mizzou Amateur Radio Club's](#) Facebook page.
- Trustee for Mizzou Amateur Radio Club station ([WOZOU](#)).

2013 - 2014

- CS/IT mentor and organizer for Reynold Journalism Institute [Public Media Platform \(PMP\)](#) competition.
- Director of Information Technology degree program.
- Manager of IT infrastructure for CS department.
- Involved in College of Engineering technology infrastructure.
- Member of Computer Science Department curriculum committee.
- Chair of Computer Science Department Equipment committee.
- Chair of Computer Science Department Information Technology Program committee.
- Member of committee to enhance use of undergraduate lab space.
- Maintained CS/IT Macintosh lab in C1212 Engineering Building East.
- Maintained AT&T Media Lab in Engineering Building West.
- Produced Materials for CS and IT for "Let Your Major Be Your Guide" published by the Mizzou Store.
- Arranged and attended marketing events for IT and CS programs at MU and around state of MO.
- Managed CS/IT presence at College of Engineering Mizzou Engineering Awareness Night (MEAN) Event in St Louis.

2012 - 2013

- Worked with Columbia, MO economic development organizations.
- Worked with MU and Engineering Development to support campus funding and development efforts.
- Director of Information Technology degree program.
- Manager of IT infrastructure for CS department.
- Involved in College of Engineering technology infrastructure.
- Chair of Computer Science Department Equipment Committee.
- Chair of Computer Science Department Information Technology Program Committee.
- Member of committee to enhance use of undergraduate lab space.
- Member of computer science curriculum committee.
- Maintained CS/IT Macintosh lab in C1212 Engineering Building East.
- Maintained AT&T Media Lab in Engineering Building West.
- Produced Materials for CS and IT for "Let Your Major Be Your Guide" published by Tigertech (now the Mizzou Store).
- Arranged and attended marketing events for IT and CS programs at MU and around state of MO.
- Managed CS/IT presence at College of Engineering Mizzou Engineering Awareness Night (MEAN) Event in St Louis.
- Worked with Columbia, MO economic development organizations.
- Worked with MU and Engineering Development to support campus funding and development efforts.

2011 - 2012

- Director of Information Technology degree program.
- Manager of IT infrastructure for CS department.
- Involved in College of Engineering technology infrastructure.
- Chair of Computer Science Department Equipment committee.
- Chair of Computer Science Department Information Technology Program committee.
- Maintained CS/IT Macintosh lab in C1212 Engineering Building East.
- Maintained AT&T Media Lab in Engineering Building West.
- Produced Materials for CS and IT for "Let Your Major Be Your Guide" published by Tigertech (now the Mizzou Store).
- Arranged and attended marketing events for IT and CS programs at MU and around state of MO.
- Managed CS/IT presence at College of Engineering Mizzou Engineering Awareness Night (MEAN) Event in St Louis.
- Worked with Columbia, MO economic development organizations.
- Worked with MU and Engineering Development to support campus funding and development efforts.
- Created and managed Engineering Week exhibit.

2010 - 2011

- Director of Information Technology degree program.
- Manager of IT infrastructure for CS department.
- Involved in College of Engineering technology infrastructure.
- Working with College of Engineering on the creation of an Engineering Technology program.
- Chair of Computer Science Department Equipment committee.
- Chair of Computer Science Department Information Technology Program committee.
- Built digital video production and distribution studio in 105 EBW.
- Maintained CS/IT Macintosh lab in C1212 Engineering Building East.
- Maintained AT&T Media Lab in Engineering Building West.
- Implemented a collaborative project management system for select CS and IT courses.
- Produced Materials for CS and IT for "Let Your Major Be Your Guide" published by Tigertech (now the Mizzou Store).
- Arranged and attended marketing events for IT and CS programs at MU and around state of MO.
- Managed CS/IT presence at College of Engineering Mizzou Engineering Awareness Night (MEAN) Event in St Louis.
- Worked with Tim Hausman and JR Swanegan on implementing the KCIT program.
- Working with Cerner and KC Metropolitan Community College to develop a pipeline for preparing workers in the areas of information technology and computer science.
- Extended Cerner and MCC partnership to two year colleges across the state of Missouri.
- Working with College of Engineering to develop distance learning programs and materials.
- Developed and maintained web application for running the MU iLife competition; participated in iLife planning meetings.
- Served as a mentor for an MU iiFund project.

2009 - 2010

- Continued working with Columbia, MO economic development organizations; Project Tiger/IBM in Columbia.
- Worked with MU and Engineering Development to support campus funding and development efforts.
- Created and managed Engineering Week exhibit.
- Setup a social networking site for the IT program.
- Director of Information Technology degree program.
- Secured proportional funding for Information Technology Program.
- Manager of IT infrastructure for CS department.
- Involved in College of Engineering technology infrastructure.
- Built CS/IT Macintosh lab in C1212 Engineering Building East.
- Built Digital Materials Development Lab in side room of C1212.
- Performed complete replacement of technology in the EBW Media Lab.
- Updated and added to technology in the CS conference room.
- Implemented a collaborative project management system for select CS and IT courses.
- Managed creation of high-speed network between EBW Media Lab and Data Center.
- Managed creation of a multi-terabyte data store for CS/IT infrastructure.
- Produced Materials for CS and IT for "Let Your Major Be Your Guide" published by Tigertech (now the Mizzou Store).
- Arranged and attended marketing events for IT and CS programs at MU and around state of MO.
- Participated on MU High School Weekend Professor Panel, October 16, 2009.
- Set up CS/IT booth at College of Engineering MEAN Events in St Louis and Kansas City.
- Working with Cerner, KC Metropolitan Community College, and High Schools in Kansas City to develop a pipeline for preparing workers in the areas of information technology and computer science.
- Working with College of Engineering to develop distance learning programs and materials.
- Developed and maintained web application for running the MU iLife competition; participated in iLife planning meetings.
- GoMizzou Project: leading the development of applications for the iPhone and other mobile applications to support the MU campus community.
- Developed and maintained web site for MU iiFund project.
- Working with Columbia, MO economic development organizations; Project Tiger proposal (Spring 2010).
- Worked with Chris Kelly and Jeremy Diener in MU Development to support campus funding and development efforts.
- Worked with Tim Hausman and Greg Cecil on College of Engineering development efforts.
- Worked with Tim Hausman and JR Swanegan on implementing the KCIT program.
- Made presentation at MU Technology conference.
- Voting member of MU Information Technology committee.
- Member of ITC Technology Evaluation subcommittee.
- Member of College of Engineering undergraduate student lab committee.
- Chair of Computer Science Department equipment committee.
- Chair of Computer Science Department Information Technology Program committee.
- Voting member of iiFund Committee.
- Hearst/Adobe Contest, collaboration with Journalism, CS/IT leader.
- Hearst/Adobe Contest, mentor to iTV team.
- FilmTech Project (Technical Director).
- Working with Bill Densmore and Rhonda Wilson (MO PTAC) on production of learning materials.
- Working with College of Education (John Wedman and Gary Westergren) on remote site educational opportunities.

2008 - 2009

- Director of Information Technology degree program.
- Secured proportional funding for Information Technology Program.
- Arranged presentations by CNN and Turner Broadcasting Fall 2008.
- Arranged and attended marketing events for IT and CS programs at MU and around state of MO.
- Attended Cerner Summit, Cerner in Kansas City, MO (Aug 7-8, 2008).
- Attended Monsanto Multi-school Event, St. Louis, MO (Sep, 26, 2008).
- Gateway to Innovation Conference, IT Program awards (April 2008 and April 2009).
- Developed and maintained web application for running the MU iLife competition.
- Developing web site and web applications for MO Film Commission.
- Developed web site for MU IIFund project.
- Participated in IT Focus Group to define IT worker knowledge and skills for MO Department of Economic Development, UMSL (Oct 16, 2008).

	<ul style="list-style-type: none"> <li>• Working with Columbia, MO Economic Development, IBM proposal (Fall 2008), Data Center proposal (Spring 2009).</li> <li>• Presentation to Columbia Media Resource Alliance (CMRA) about HD film production using the Canon 5D Mark II (Jan 8, 2009).</li> <li>• C#, .NET, WPF CS department seminar presentation (Mar 17, 2009).</li> <li>• Mizzou Scholars Interviewer (Mar 7, 2009).</li> <li>• MU Information Technology Committee (voting member).</li> <li>• College of Engineering Undergraduate Student Lab Committee (member).</li> <li>• Computer Science Department Equipment Committee (chair).</li> <li>• Computer Science Department Information Technology Program Committee (co-chair with Jeff Uhlmann).</li> <li>• iiFund Committee (voting member).</li> <li>• iPhone Contest, collaboration with Journalism, CS/IT leader.</li> <li>• FilmTech Project (Technical Director).</li> <li>• International Program (China Program) financial planning.</li> </ul>
2006 - 2008	<ul style="list-style-type: none"> <li>• Tarboro High School (THS) technology infrastructure support.</li> <li>• System administrator for PLATO at THS.</li> <li>• Advisor for THS Robotics Club.</li> <li>• Member of THS school improvement team.</li> </ul>
2002 - 2003	<ul style="list-style-type: none"> <li>• Program committee member for Second IEEE International Workshop on Wireless and Mobile Technologies in Education (WMTE 2003) - December 8-10, 2003 National Central University, JungLi, Taiwan.</li> <li>• College of Education Shadow netWorkspace implementation.</li> <li>• Shadow netWorkspace training sessions at University of Missouri.</li> <li>• Development of ZONE and digital media courses.</li> <li>• Lead for Network Learning Systems masters in educational technology.</li> <li>• Support for MU campus climate survey – data collection and analysis.</li> <li>• Chair of faculty search committee for Digital Media faculty position.</li> </ul>
2001 - 2002	<ul style="list-style-type: none"> <li>• Development of web survey technology and implementation of phases 1-4 of the MU campus climate survey.</li> <li>• Re-implementation of Planet Innovation Tools.</li> <li>• CTIE space renovations.</li> <li>• COE technology infrastructure development and management.</li> </ul>
2000 - 2001	<ul style="list-style-type: none"> <li>• COE technology infrastructure development and management.</li> <li>• CTIE space renovations.</li> </ul>
1999 - 2000	<ul style="list-style-type: none"> <li>• 2000 CTIE Teacher Technology Innovation Award selection committee member.</li> <li>• International program cCommittee for IASTED conferences.</li> </ul>
1998 - 1999	<ul style="list-style-type: none"> <li>• International program committee for the IASTED International Conference on Computers and Advanced Technology in Education (CATE'99) to be held May 5-8, 1999 in Philadelphia, Pennsylvania.</li> <li>• Co-Director, Center for Technology Innovations in Education.</li> <li>• 1999 CTIE Teacher Technology Innovation Award selection committee member.</li> <li>• Non-committee participation in selection of IR/IT faculty candidates.</li> </ul>
1997 - 1998	<ul style="list-style-type: none"> <li>• Co-Director, Center for Technology Innovations in Education.</li> <li>• Managed operations of Center for Technology Innovations in Education.</li> <li>• Committee member of the MU computer policy and strategy committee.</li> <li>• Participated in the development of the MU College of Education technology infrastructure.</li> <li>• Managed Internet and server services for MU College of Education.</li> <li>• Building coordinator for London Hall.</li> <li>• Worked with reporters on the writing of newspaper and magazine articles on COE technology infrastructure and CTIE.</li> <li>• Developed multimedia/video presentation for MU COE alumni awards banquet.</li> </ul>

1996 - 1997

- Co-Director, Center for Technology Innovations in Education.
- Managed operations of Center for Technology Innovations in Education.
- Managed and designed renovation of CTIE space in London Hall.
- Developed, implemented, and managed COE mobile laptop computer laboratory.
- Participated in deployment of Interactive Shared Journal System in MU COE.
- Managed Internet and server services for MU COE.
- Wrote and co-wrote position and vision statements for COE Dean's office.
- Presented technology use in education position paper (authored by Jim Laffey) to State Representative Stephen Stoll.
- Represented CTIE and COE technology infrastructure at ASUM Lobby Day in Missouri State Capital.
- Worked with reporters on the writing of newspaper and magazine articles on the use and development of technology in the COE.
- Member of human subjects review committee for the Department of Curriculum and Instruction.