

Ronald Aust
 Associate Professor, Teaching and Leadership
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Education:	Institution	Major	Degree
1979-85	University of Washington	Education (Ed. Communications)	Ph. D. Outstanding Dissertation Gordon Lee Award
1975-79	Western Washington University	Education (Ed. Technology)	M. Ed.
1970-75	Western Washington University	Education	B. S.

Employment:

- 8/85 - Present Associate Professor, Curriculum and Instruction, University of Kansas.
- Teach courses in instructional design and educational technology.
 - Advise graduate students including masters theses and doctoral dissertations.
 - Secure and coordinate funded research and development on educational technology.
- 1985 Adjunct Professor, University of North Florida
- Taught graduate level instructional methods course.
- 1975-79 Secondary School Teacher, Vancouver, British Columbia Schools.
- Courses in communications and mathematics.

Publications:

- Quesada A.G. P., Aust R.J. 2010. International elearning: A case report of the university of Costa Rica and the university of Kansas. *Proceedings International Conference of Modern Languages*.
- Ni, S. & Aust, R. 2009 . Examining teacher verbal immediacy and sense of classroom community in online classes. *International Journal on E-Learning*. 7(3), pp. 477-498. Chesapeake, VA: AACE.
- Aust, R., Quesada, A.G. P. 2009. International collaborative elearning to advance social awareness. *Proceedings of the Eight IASTED International Conference on Web-Based Education*.
- Aust, R., Quesada, A.G. P. 2008. Open-Source Collaborative eLearning. *Proceedings of World ACS .LRN conference 2008*. Guatemala City, Guatemala.
- Aust, R., Quesada, A.G. P., Furman, R. (2008). Transnational Educational Technology. *Proceedings of World ACS .LRN conference 2008*. Guatemala City, Guatemala.
- Ben Salem E., Aust R.J. 2007. The influence of feature-rich computerized glosses on reading comprehension and vocabulary acquisition. *Proceedings of the Sixth IASTED International Conference on Web-Based Education*. ISBN 978-0-889896-650-8 / CD: 978-0-889896-651-5.
- Quesada A.G. P., Aust R.J. 2006. CyberL@b: Technology enriched english language learning in costa rica. *Proceedings of the Ninth International Conference on Computers and Advanced Technologies in Education*. ISBN 0-889896-626-0 / CD: 0-889896-6287. IASTED 117 - 122.
- Seok S., Meyen E., Aust R.J. 2006. Three dimensions of the online course evaluation instrument in postsecondary education. *Proceedings of the Ninth International Conference on Computers and Advanced Technologies in Education*. ISBN 0-889896-626-0 / CD: 0-889896-6287. IASTED 363 - 369.
- Meyen E., Aust R.J. 2006. The development and validation of a modular e-book authoring system. *Proceedings of the Ninth International Conference on Computers and Advanced Technologies in Education*. ISBN 0-889896-626-0 / CD: 0-889896-628-7. IASTED 94 - 99.
- Aust, R., Isaacson, R. (2005). Designing and Evaluating User Interfaces for eLearning. In G. Richards (Ed.), *Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2005* (pp. 1195-1202). Chesapeake, VA: AACE.
- Aust, R.J., Newberry B.W. O'Brien, J, 2005. Learning generation: fostering innovation with tomorrow's teachers and technology. *Journal of Technology and Teacher Education*. (13 (2), 167 - 195).
- Aust, R.J., Meyen, E.L, 2005. The Design and Development of a Scaleable e-Learning Authoring System. *Proceedings of the 2005 Web Based Education Conference, IASTED*. 225-229.
- Meyen, E.L, Aust, R.J., & Yang, C. 2004. Beta Testing Online Staff Development for Implementation at Scale. *International Association of Science and Technology for Development*. September, Vol. 1. No.9.

- Aust, R.J., Newberry B.W., 2003. Learning generation final report. *US Department of Education Preparing Tomorrow's Teachers to Use Technology*.
- Meyen, E.L., Aust, R.J., Newberry B.W., Ramp, E. Bui, Y.N. 2003, The online academy: An extranet approach to virtual implementation. *Journal of Interactive Learning Research*.
- Meyen, Edward L., Aust, Ronald J., Ramp, Eugene, Smith, Sean, Bui, Yvonne N., (2002) The Online Academy: Formative Evaluation Approach to Evaluating Online Instruction: The Internet and Higher Education. (5) 89-108.
- Meyen, Edward L., Aust, Ronald J., Isaacson, Robert E. 2002 Assessing and Monitoring Student Progress in e-Learning Personnel Preparation Environments: Teacher Education and Special Education. 25 (2) 187-198.. (Invited for a special edition.)
- Meyen, Edward L., Aust, Ronald J., Gauch, John, Hinton, H. Scott, Isaacson, Robert I., Smith, Scan, Tee, Meng Y. 2002. E-Learning: A Programmatic Research Construct for the Future: *Journal of Special Education and Technology*. 17 (3), 37-46.
- Aust, R.; Newberry, B. & Resta, P. (1996). Internet strategies for empowering indigenous communities in teaching and learning. *Proceedings of 1996 Internet Society Conference*. (www.isoc.org/isoc/whatis/conferences/inet/96/proceedings/h4/index.htm) Internet Society. Reston, Virginia.
- Deniau, C.C.; Swink, M.T.; Aust, R.; Evans, J.B.; Gauch, S.; Miller, J.; Niehaus, D. (1995). The UNITE system: Distributed delivery and contribution of multimedia objects over the Internet. *Proceedings of the 1995 Internet Society Conference*. (www.isoc.org/HMP/PAPER/248/). Internet Society. Reston, Virginia.
- Aust, R. (1994). Designing network information services for educators. *Journal of Machine-Mediated Learning*. 4(2&3), 251-267.
- Gauch, S.; Aust, R.; Evans, J.; Minden, G.; Niehaus, D.; Roberts, J. (1994). The digital video library system: Vision and design, *Proceedings of Digital Libraries '94*, (June) 47-52. College Station, TX.
- Broholm J. R. & Aust, R. (1994). Teachers and electronic mail: Networking on the network. *Journal of Technology and Teacher Education*, 2(2), 167-182.
- Aust, R. & Padmanabhan, S. (1994). Empowering teachers with technology: An agenda for research and development. In M. R. Simonson (Eds.), *16th Annual Proceedings of Selected Research Papers: AECT*, (15-29). Ames, IA: Iowa State University IRC.
- Aust, R.; Kelly, M. J. & Roby, W. (1993). The use of hyper-reference and conventional dictionaries. *Educational Technology Research and Development*, 41(4), 63-73.
- Aust, R. (1993). Wide-area network resources for teacher education. In M. R. Simonson & K.L. Abu-Omar (Eds.), *15th Annual Proceedings of Selected Research Papers: AECT*, 115 - 123. Ames, IA: Iowa State University IRC.
- Aust, R. (1992) *Computer networking strategies for building collaboration among science educators*. ERIC Clearinghouse for Mathematics and Environmental Education: ED 347 058, SE 052 040.
- Aust, R. & Klayder, J. (1991). Global navigation in the year 2001. In M. R. Simonson & C. Hargrave (Eds.), *13th Annual Proceedings of Selected Research Papers: AECT*, (69 - 81). Ames, IA: Iowa State University IRC.
- Aust, R.; Allen, G. & Bichelmeyer, B. (1989). Integrating instructional technology in educational institutions: The proper role for teachers. In M. R. Simonson & D. Frey (Eds.), *11th Annual Proceedings of Selected Research Papers: AECT*, (41 - 56). Ames, IA: Iowa State University IRC.
- Aust, R. (1988). Constructing mental representations of complex three-dimensional objects. In M. R. Simonson & J. Fredrick (Eds.), *11th Annual Proceedings of Selected Research Papers: AECT*, (25 - 43). Ames, IA: Iowa State University IRC.
- Aust, R. & Harrington, G. (1987). Training For Visual Intelligence. *Paper presented at the 19th Annual Conference of the International Visual Literacy Association*.
- Aust, R. (1987). Introverted approaches to instructional media research. In M. R. Simonson & S. M. Zvacek (Eds.), *10th Annual Research Papers Proceedings: AECT*, (63 - 81). Ames, IA: Iowa State IRC.
- Aust, R. (1984) *Mental Processes Involved in Anorthoscopic Perception*. Dissertation - Winner of the Gordon C. Lee outstanding dissertation award. University of Washington 1984-85.

Computer and Media Productions:

- 1999-08 Coordinator of Technical Applications Group, eLearning Design Lab. Designed and coordinated the development of comprehensive learning module structures for Teach Special Education, Learning Generations, and Special Education Professional Development. This development includes over 40 eLearning modules with more than 150 hours of mediated instruction. Current development (<http://elearndesign.org/ladis/> | <http://learnngen.org>)
- 1994-03 Direct or co-direct WWW sites serving over 15,000 pages daily (10 Million + since 1994). *eLearning Design Lab* (elearndesing.org). *Four Directions Challenge* (4Directions.org). *The Explorer/UNITE system* (<http://unite.ku.edu/>).
- 1989-92 The UNITE system (project coordinator). Integrated computer networking software including: *Electronic Mail, Navigator* and resource catalogs of *Lesson Plans, Field Trips, Computer Courseware* and *Research Abstracts*..

Grants Funded : Notes: * indicates project completed

- 09/01/04 *Leadership in Analyzing Data to Improve Schools (LADIS)*.
Co Investigator: U.S. Department of Education Fund for the Improvement of Post Secondary Education FIPSE (\$105,000) 09/01/2008 - 03/31/2010. (<http://elearndesign.org/ladis/>)
- 01/29/07 *Research and Innovation in Collaborative Online Education (RICOE)*.
The University of Costa Rica / KU Collaboration Fund. (\$10,000) 01/01/2007 - 01/01/2008.
- 01/01/05 *The Implementation of a Reusable Learning Objects (RLO) Model for Online Education*.
Alabama State Department of Ed.. (Award: STE39110). (\$57,481) 01/01/2005 - 09/30/2005.
- 09/01/04 *Advanced Technologies for Using Assessment Data to Improve Student Achievement*.
Co Investigator: U.S. Department of Education Fund for the Improvement of Post Secondary Education FIPSE (Award: P116B041156). (\$552,322) 09/01/2004 - 08/31/2007..
- 07/01/02 *The Design and Evaluation of Data Driven Decision Making Online Modules.**
Principal Investigator: The U.S. Department of Interior - Bureau of Indian Affairs RMK0E020135. (\$87,735) 07/01/2002 - 06/30/2003.
- 04/25/01 *Intelligent Knowledge Management Environments **
Co Investigator: US Army Education FED26120. (\$300,000) 4/25/2001 - 4/24/2003.
- 10/1/99 *Learning Generation**
Principal Investigator: Preparing Tomorrow's Teachers to Use Technology. US Department of Education (OERI) P342A990271. (\$1,403,003) 11/01/1999 - 10/30/2002.
- 12/1/97 *Online Academy**
Coordinator, Academic Support Systems. Principal Investigator: Ed Meyen. US Department of Education. H029K73002-97. (\$3,000,000) 12/1/1997 - 11/30/2000.
(<http://onlineacademy.org>)
- 10/1/97 *Kansas Collaborative Research Network, KanCRN**
Principal Investigator (\$680,727) with the Kansas City Kansas Public Schools - five year (\$4,107,490) US Department of Education. R303A70518 10/1/1997 - 9/30/2002.
(<http://kancrn.org>)
- 06/01/97 *Wayfinding Agents for locating Distributed Objects (WALDO)**
Principal Investigator (\$130,000). US Department of Education. 6/01/1997 - 5/31/1998.
(<http://rtec.org/waldo>)
- 10/30/95 *An Astronomical Theme Throughout the Junior High Science and Math Curriculum .**
Co-Investigator. Principal Investigator: Steven Shawl (\$18,817) NASA.
- 07/02/95 *South Central Regional Technology Center. **
Co-Investigator with Jerry Chaffin (\$7,221,325) US Department of Education R302A50008. October 1, 1995 - September 30, 2000. (<http://scrtec.org>)
- 06/29/95 *Distributed Information Service for Contributing and Delivering Educational Resources.**
Principal Investigator with Jerry Chaffin (\$1,180,187). As a partner with the Laguna Department of Education's Four Directions Challenge project R303A50083 (\$5,651,910). US Department of Education. October 1, 1995 - September 30, 2000. (<http://4directions.org>)

- 06/09/95 *Educational Resource Design and Indexing.* *
Principal Investigator (\$5,273). US Department of Agriculture as a partner with Great Lakes Telecommunications Collaborative on Project Earthlink.
- 05/1/93 *The Design and Evaluation of Wide-Area Network Navigators for Education.* *
94 cont. Principal Investigator (\$369,341). Great Lakes St. Lawrence Seaway Telecommunications Collaborative. US Department of Education, OERI Star Schools (R203A20020).
- 03/16/90 *Integrative Network for Science Teaching, Exploration and Practice.* *
Principal Investigator (\$72,816). Dwight D. Eisenhower Mathematics and Science Education Act, Title II.
- 02/9/89 *The Influence of Layered and Hypermedia Navigation Mechanisms on Usage and Estimated Value of Multimedia Information Resources.* *
Principal Investigator (\$5862) The University of Kansas General Research Fund.
- 11/7/88 *Unified Network for Informatics in Teacher Education.* *
Project Coordinator (\$180,000 in equipment). Apple Computer Inc.
- 6/24/88 *HyperText Resources for Evaluating Interns.* *
Principal Investigator (\$2000). Kansas Department of Education.
- 1/1/88 *School of Education Computer Laboratory.* *
Co-Coordinator w/Jerry Chaffin (\$27,500 in equipment). University of Kansas.
- 7/1/86 *Mental Travel Through Three-Dimensional Objects: Eliciting Constructive Imagery.* *
Principal Investigator (\$4945). University of Kansas General Research Fund.

Grants Submitted: (but not funded) Notes: * indicates proposal pending

- 05/01/04 *Advancing Young Learner's Reasoning Abilities with Visual Programming.*
National Science Foundation Educational Research Initiative. NSF proposal # 0437828.
- 11/01/03 *Development of Academic Policies Governing Online Instruction in Post-Secondary Institutions.* *
with Sean Smith, Ed Meyen, and John Poggio. Fund for Improvement of Post-Secondary Education, U.S. Department of Education. Approved for final competition.
- 08/21/03 *Online High School Computer Science Curriculum.* with PI Jim Miller. National Science Foundation Instructional Materials Development NSF03-524.
- 06/20/03 *Advanced Technologies for Integrating Achievement in Teacher Education.* with Ed Meyen. US Department of Education Preparing Tomorrow's Teachers to Use Technology (PT3).
- 03/01/03 *Rapid Iterative Design and Evaluation of eLearning Resources.* Kansas University Graduate Research Fund.
- 02/12/03 *Modeling and Visualization of Computational Climatology Models for Research and Education.* with PI Jim Miller. National Science Foundation ITR 02-168
- 10/15/01 *Collaborative eLearning for Technology Integration (CETI)*
Principal Investigator. Eisenhower Professional Development. (\$70,686) 01/01/02.
- 05/09/01 *Adaptable Learning Laboratory (ALL)*
Principal Investigator: National Science Foundation. (\$4,692,596) 02/01/02 to 01/31/07.
- 01/17/00 *Open and Accessible Scholarship for an Information Society (OASIS)*
Co-Investigator, a principal author with PI Scott Hinton (EECS chair)
National Science Foundation. (\$13,988,298 over 5 years)
- 12/10/99 *National Virtual Research Lab: A Programmatic Approach To Studying The Pedagogy of Online Instruction.* Co-Investigator, Principal Investigator Edward Meyen
Field Initiated Research. U.S. Department of Education CFDA.324C (\$900,000) 7/01/0
- 09/22/99 *Sky Wisdom: An Integrated Astronomy Curriculum.*
National Science Foundation. Principal Investigator KU (\$1,200,000 KU) with University of Texas (\$5,500,000 over 5 years) This proposal was not funded during the initial period however, NSF has invited us to resubmit with revisions.
- 06/17/96 *Network Services to Actively Involve Students in Creating and Using Distributed Information.*
Principal Investigator (\$1,476,881) Great Lakes Telecommunications Collaborative.
- 06/26/95 *A Distributed Service for Systemic Professional Development of Educational Technology.*

- Principal Investigator (\$925,592) US Department of Education as a partner with the Southwest Educational Development Labs.
- 06/02/95 *Automated Indexing for Distributed Information Services that Support Language Learning.* Principal Investigator (\$60,275) Japanese Ministry of Education as a partner with the University of Aizu. This proposal resulted in a license arrangement instead of a grant.
- 04/11/94 *Network Research for the National Information Infrastructure.* Co-Investigator (\$849,979) Joe Evans, Principal Investigator. National Science Foundation.
- 04/26/94 *Network Information Services for Education.* Principal Investigator (\$526,370). Great Lakes St. Lawrence Seaway Telecommunications Collaborative. US Department of Education, OERI Star Schools.
- 02/4/94 *Digital Video Library System.* Co-Investigator (\$3,874,455). Susan Gauch, Principal Investigator. National Science Foundation "Digital Libraries" (NSF 93-141).
- 05/4/90 *Collaborative Health Oriented Options and Strategies in Education.* Principal Investigator (\$273,689). National Program for Comprehensive School Health Education CFDA 84.215B.
- 07/3/89 *Unified Network for the Integration of Technology in Education.* Principal Investigator (\$212,823). US Dept. of Education's Fund for Innovation in Education.

Selected Professional Presentations & Activities:

- 04/18/10 Social Networks to Enhance Collaborative International Learning. University of Costa Rica Modern languages. San Jose Costa Rica.
- 03/17/09 International collaborative elearning to advance social awareness. Eighth IASTED International Conference on Web-Based Education.
- 12/05/08 International elearning: A case report of the university of costa rica and the university of kansas. (w/A. Quesada) *International Conference of Modern Languages*, San Jose, Costa Rica.
- 02/13/08 *Open-Source Collaborative eLearning.* World ACS .LRN conference 2008. Guatemala City, Guatemala.
- 02/14/08 *Transnational Educational Technology.* (w/A. Quesada) World ACS .LRN conference 2008. Guatemala City, Guatemala.
- 03/15/07 *The influence of feature-rich computerized glosses on reading comprehension and vocabulary acquisition.* (w/ E.B. Salem). Sixth IASTED International Conference on Web-Based Education. Le Majestic Centre De Congres, Chamonix, France.
- 10/13/06 *Validation of items by rating the proximity between similarity and dissimilarity among items in pairs for online course evaluation instrument at the post-secondary educational level.* (w/ Seok, S., Ed Meyen). Annual Convention of the Association for Educational Communications and Technology. (AECT 2006) Dallas, Texas.
- 10/06/06 *Three dimensions of the online course evaluation instrument in postsecondary education.* (w/ Seok S E. Meyen). International Conference on Computers and Advanced Technology in Education (CATE 2006) Lima, Peru.
- 10/05/06 *CyberL@b: Technology enriched english language learning in costa rica.* (w/ Allen Quesada). International Conference on Computers and Advanced Technology in Education (CATE 2006) Lima, Peru.
- 10/04/06 *The development and validation of a modular e-book authoring system.* (w/ Ed Meyen). International Conference on Computers and Advanced Technology in Education (CATE 2006) Lima, Peru.
- 10/24/05 *Designing and Evaluating User Interfaces for eLearning* Aust, R.J. World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education (ELEARN) 2005 Vancouver, Canada.
- 09/26/05 *eLearning Design for Language Learning* Aust, R.J. University of Costa Rica. 2005 San Jose, Costa Rica.
- 02/21/05 *The eLearning Resource Authoring System.* Ron Aust & Ed Meyen. Web Based Education IASTED. Grindelwald, Switzerland.
- 02/21/05 *The Design and Development of a Scaleable e-Learning Authoring System.* with Ed Meyen. Web Based Education IASTED. Grindelwald, Switzerland.

- 07/1/03 *Designing Online Professional Development Resources for Teaching Diverse Students.* with Isaacson, R.E. and Newberry, B.W. National Educational Computing Conference (NECC 2003). Seattle, WA
- 06/30/03 *Learning Generation: Fostering Innovation in Teacher Education with Technology.* with Newberry, B.W. O'Brien, Joe, Smith, Steve, Smith, Sean. National Educational Computing Conference (NECC 2003). Seattle, WA
- 03/29/03 *Online Teacher Education and Professional Development for Rural Schools.* Society for Information Technology and Teacher Education (SITE). Albuquerque, NM.
- 03/28/03 *Supporting Faculty and Students in Collaborative Technology Integration Activities: Learning Generation Innovation Cohorts* with Newberry B.W.. Society for Information Technology and Teacher Education (SITE). Albuquerque, NM.
- 03/27/03 *Creating Streaming Media for e-Learning.* Society for Information Technology and Teacher Education (SITE) with Isaacson, R.E. Albuquerque, NM.
- 10/19/02 *Cohort Collaboration for Integrating Technology in Education.* The Technology Leadership Academy's Conference. Austin Texas.
- 01/18/00 *Student Guided Technology Innovation in Teacher Education.* The Technology Leadership Academy's Conference on Creating a Collaborative Community for Technology Leadership. Austin.
- 02/14/00 An International OASIS: Open and Accessible Scholarship for an Information Society. Universidad de Costa Rica. San Jose, Costa Rica.
- 12/14/99 *A Systemic Cohort Model for Applying Information Technologies to Teacher Education Reform.* Technology, Teaching and Learning Conference. San Antonio
- 04/16/99 *The Online Academy: Navigation and Technical Infrastructure.* Council for Exceptional Children Annual Convention (CEC) 99. Charlotte, NC (with Edward Meyen and Donald Deshler).
- 02/27/99 *An Online Approach to Disseminating Research to Practice Instructional Modules in Teacher Education.* American Association of Colleges of Teacher Education (AACTE) '99 Shaping the Future. Washington D.C. (with Edward Meyen and Donald Deshler)
- 12/03/98 *The Native American Virtual Museum.* National Museum of the American Indian. New York (with Paul Resta).
- 10/31/98 *Educational Resource Metataging and Information Retrieval* 1998 Annual Telecommunications in Education Conference (TELED). New Orleans.
- 11/14/97 *Sharing Teaching and Learning Resources on the Internet.* 1997 Annual Telecommunications in Education Conference (TELED). Austin. (w /Cornel Pewewardy)
- 07/3/97 *Enriching Native American Education with Culture, Community, and Technology.* 1997 Educational Computing Conference (NECC). Seattle. (w /Brian Newberry & Chia Chee Chu)
- 07/2/97 *Regional Collaborations for Advancing Educational Telecommunications.* 1997 Educational Computing Conference (NECC). Seattle.
- 05/19/97 *Wayfinding Agents for Locating Distributed Objects (WALDO)* U.S. Department of Education OERI. Washington D.C.
- 1995-01 *The Four Directions Challenge: A Systemic Strategy for Network Community Publishing.* Presentations to the Four Directions partners, schools and communities. Presented at several locations: Ahfachkee, Florida; Albuquerque, New Mexico; Cloquet, Minnesota; Dilcon, Arizona; Howes, South Dakota; Laguna, New Mexico; Old Town, Maine; Quileute, Washington; Washington, DC.
- 11/29/96 *Regional Collaborations for Advancing Educational Telecommunications.* 1996 Annual Telecommunications in Education Conference (TELED). Tampa.
- 10/03/96 *Extending the Information Revolution to All Learners: Distributed Network Services for Community Publishing.* 1996 Annual Conference of the Japan Educational Technology Society (JET). Kanazawa.
- 09/24/96 *Educational Resource Libraries on the Internet.* 1996 Improving America's Schools Conference. St. Louis.

- 06/27/96 *Internet Strategies for Empowering Indigenous Communities*. 1996 Annual Conference of the Internet Society. Montreal.
- 03/07/96 *Teacher Empowerment Through Internet Collaboration*. The 1996 Mid-America Association for Computers in Education. Salina, Kansas.
- 02/17/96 *Factors Influencing the Use of Educational Services on the Internet*. 1996 Annual Convention of the Association of Educational Communications and Technology. Indianapolis.
- 12/03/95 *Network Dissemination for the Regional Technology Centers*. Improving America's School Act -IASA Conference, Washington DC.
- 11/16/95 *South Central Regional Technology Center* (w/Jerry Chaffin). The Nation-Wide Regional Technology Centers. Washington, D.C.
- 11/02/95 *Designing Distributed Educational Database for The World Wide Web*. The 1995 EDUCOM Conference. Portland Oregon.
- 06/28/95 *Distributed Delivery and Contribution of Multimedia Objects over the Internet*. (w/Douglas Niehaus), 1995 Annual Internet Society -INET Conference. Honolulu, Hawaii.
- 02/10/95 *Explorer: An Internet Information Service for Educators*. 1995 Annual Convention of the Association for Educational Communications and Technology. Anaheim, California.
- 1993-94 *Network Information Services for Education: The Explorer Project*. Numerous presentations to local educators and national organizations in: Albuquerque, Ann Arbor, Austin, Detroit, Kansas City, Phoenix and Washington, DC.
- 02/18/94 *Global Environmental Analysis through Network Informatics and Education*. Presented to the Global Learning and Observation to Benefit the Environment task force. White House Conference Center. Washington, DC.
- 02/18/94 *Empowering Teachers with Technology: An Agenda for Research and Development*. 1994 Annual convention of the Association of Educational Communications and Technology, Nashville (with Sandra Padmanabhan).
- 01/15/93 *Wide-Area Network Resources for Teacher Education*. 1993 Annual convention of the Association of Educational Communications and Technology, New Orleans.
- 12/17/92 *The Design and Evaluation of Wide-Area Network Navigators for Education*. Inaugural meeting of the Great Lakes Saint Lawrence Seaway Telecommunications Collaborative, Detroit.
- 02/8/92 *Computer-Based Reference Aids for Reading*. 1992 Annual convention of the Association of Educational Communications and Technology, Washington, D.C.
- 04/09/91 *Computer Networking Strategies for Building Collaboration Among Science Educators*. 1991 Annual convention of the National Association for Research in Science Teaching, Lake Geneva, Wisconsin.
- 02/10/91 *The Design and Formative Evaluation of a Hypertext Bilingual Dictionary*. 1991 Annual convention of the Association of Educational Communications and Technology, Orlando.
- 02/11/91 *Learning Machines as Models for Instruction*. 1991 Annual convention of the Association of Educational Communications and Technology, Orlando.
- 10/16/90 *Community Published Dynamic Resources: Electronic Network Tools for Cultivating the Renaissance*. 1990 Annual National Educational Computing Conference, Atlanta.
- 02/03/90 *Global Navigation in the Year 2001*. 1991 Annual Convention of the Association for Educational Communications and Technology, Anaheim.
- 02/02/90 *What Role for Instructional Technology within Teacher Education?* (with Steve Kerr) Annual convention of the Association for Educational Communications and Technology.
- 07/03/89 *Opening Avenues to Instructional Technology: A Computer Networking Solution*.

- Leadership Conference of the Association for Educational Communications and Technology, Council Grove, KS.
- 06/20/89 *Involving Teachers and Teacher Educators in Collaborative Network Activities.*
Annual National Educational Computing Conference, Boston.
- 03/16/89 *Iconic Interfaces for Electronic Network.*
Missouri Conference on Technology in Higher Education, St. Louis.
- 02/3/89 *Integrating Instructional Technology in Educational Institutions: The Proper Role of Teachers.* 1989
Annual Convention of the Association of Educational Communications and Technology,
Dallas.
- 01/17/88 *Constructing Mental Representations of Complex Three-Dimensional Objects.*
Annual convention of the Association of Educational Communications and Technology, New
Orleans.
- 01/18/88 *Emulating Classroom Interactions in Distance Learning.* (with Kenneth Heitland)
1988 Annual convention of the Association of Educational Communications and Technology,
New Orleans.
- 01/16/88 *Selection of Instructional Television by Educators (SITE).*
Annual convention of the Association of Educational Communications and Technology,
New Orleans (with Rosemary Meyers-Hagg and Barbara Bichelmeyer).
- 11/7/87 *Computer Graphics Techniques for Enhancing Anticipatory Imagery.*
1987 Annual Meeting of the Kansas Association for Psychological and Educational.
- 10/31/87 *Training for Visual Intelligence.* (with Robert G. Harrington)
19th Annual Conference of the International Visual Literacy Association .
- 2/28/87 *Introverted Approaches to Instructional Media Research: Eliciting Perceptual Processes which
Contribute to Learning.* Annual convention of the Association of Educational
Communications and Technology, Atlanta.
- 11/22/86 *Instructional Videodiscs: What is the Teacher's Role?*
1986 annual conference of the Kansas Association of Educational Communications and
Technology. Kansas City.

Service and Professional Associations:

- Technology Leadership Academy Steering Committee (chair 2000 - 2004).
- University Senate Committee on *Academic Computing and Computing Facilities* (1990-91, 98-2000).
- University ad hoc *Faculty Instructional Support Committee* (1993-94).
- University KUCR Director's review committee (2002-03).
- E-Learning Design Lab Research Council (2001-07).
- Information & Telecommunication Technology Center. *Council of Investigators* (2001-07).
- School of Education *Technology Committee* chair (2006-08) Member (2009-11).
- School of Education *Undergraduate Committee* (2006-08).
- School of Education *Awards Committee* (2005-06).
- School of Education *Grievance Committee* (1996-98).
- School of Education *Instructional Technology Committee* (1995-97).
- School of Education *Building and JRP Planning Committee* (1990-94).
- School of Education *Computing Committee* (1989-91).
- ELPS, Educational Technology Program Development (coordinator 2006-10).
- ELPS, Ed Technology *Search Committee* (chair 2006-07).
- Teaching and Leadership *Personnel Committee* (2003-05).
- Curriculum & Instruction *Personnel Committee* (chair 1995-96, member 1990-91; 94-98; 02-).
- Curriculum & Instruction *Graduate Committee* (chair 1991-92, member 1993-94).
- Curriculum & Instruction ad hoc *Regents Review Committee* (1992-93).
- Curriculum & Instruction ad hoc *Ed. Comm. Search Committee* (chair, 1988, 98-99).
- Preparing Tomorrow's Teachers to Use Technology Academy Steering Committee (1999-2001)
- Steering Committee 1997 Annual Telecommunications in Education Conference (1997).
- Research representative for local *Phi Delta Kappa* chapter (1989-90).
- Reviewer for *Association for Educational Communications and Technology* (1987-88; 93-94).