

## CURRICULUM VITAE

### **Dale S. Niederhauser**

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West Virginia University  
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#### **EDUCATION**

- 1994      Ph.D.      University of Utah      Foundations of Education  
Dissertation: The Role of Computer-assisted Instruction in Supporting Fifth-grade Mathematics Instruction: Cognitive and Attitudinal Outcomes.
- 1988      M.Ed.      University of Utah      Educational Technology
- 1982      B.S.      State University of New York-Fredonia      Elementary Education: Early Childhood

#### **PROFESSIONAL LICENSE**

- 1983-present      Permanent Public School Teaching License: Nursery, Kindergarten and Grades 1-6, New York State Department of Education.

#### **ACADEMIC POSITIONS**

- 2017-present **Associate Dean for Academic Affairs.** College of Education and Human Services, West Virginia University, Morgantown, WV.
- 2014 – 2017 **Professor and Chair.** Department of Curriculum & Instruction/ Literacy Studies, College of Education and Human Services, West Virginia University, Morgantown, WV.
- 2001-2014 **Assistant/Associate Professor.** Center for Technology in Learning and Teaching, Department of Curriculum and Instruction/School of Education, College of Human Sciences, Iowa State University, Ames, IA.  
- Director of Undergraduate Education (2011-2013)  
- Joint appointment in Human Computer Interaction (2006-2013)
- 1994-2001 **Assistant Professor.** Department of Educational Studies, Graduate School of Education, University of Utah, Salt Lake City, UT.
- 1990-1994 **Clinical Instructor, Statistics Consultant.** Department of Educational Studies, Graduate School of Education, University of Utah, Salt Lake City, UT.
- 1987-1990 **Associate Instructor.** Department of Educational Studies, Graduate School of Education, University of Utah, Salt Lake City, UT.
- 1986-1987 **Research Assistant.** Department of Educational Studies, Graduate School of Education, University of Utah, Salt Lake City, UT.
- 1982-1986 **Classroom Teacher.** Head Start Program, Board of Cooperative Educational Services, Fredonia, NY.

## PROFESSIONAL ORGANIZATION AND HONOR SOCIETY MEMBERSHIP

### Professional Organization and Honor Society Membership

American Educational Research Association  
 International Federation for Information Processing  
 Society for Information Technology and Teacher Education  
 Association for the Advancement of Computing in Education  
 International Society for Technology in Education  
 Iowa Association for Colleges of Teacher Education  
 Phi Kappa Phi Honor Society.  
 Kappa Delta Pi Honor Society.

## SCHOLARSHIP

### HONORS AND AWARDS

- 2007 **Engineering Economy Division Best Paper Award**, American Society of Engineering Education. *Student Selection of Information Relevant to Solving Ill-Structured Engineering Economic Decision Problems.*
- 2004 **Outstanding Early Outreach Commendation**, Iowa State University College of Education.
- 1998 **Best Preservice Paper Award**, Society for Information Technology and Teacher Education. *Learning About Learning in an Introductory Educational Computing Course.*
- 1996 **Technology and Teacher Education Award**, Society for Information Technology and Teacher Education. *Information Age Literacy: Preparing Educators for the 21st Century.*
- 1994 **Best Conceptual Research Paper Award**, Society for Information Technology and Teacher Education. *The Relationship Between Teachers' Beliefs About Computer-Assisted Instruction and Their Practice.*
- 1992 **Best Mathematics Teacher Support Project Award**, Society for Information Technology and Teacher Education. *Integrating Technology with Elementary Mathematics: Effects of Training and Support.*
- 1990 **Practical Applications Award**, National Association for Research in Science Teaching. *If I Were the Teacher . . . Students' Attitudes Toward the Science Curriculum.*

### FUNDED PROJECTS (Total \$4,660,639)

**External Grants (Total \$4,243,198)**

- Stallings, J., & Niederhauser, D. S. (2016-17). *Support and Development of West Virginia Professional Development Schools*. West Virginia Department of Education and the Arts Partnerships to Assure Student Success. (\$140,900).
- Stallings, J., & Niederhauser, D. S. (2015-16). *Support and Development of West Virginia Professional Development Schools*. West Virginia Department of Education and the Arts Partnerships to Assure Student Success. (\$177,995).
- Schrum, L., Stallings, J., & Niederhauser, D. S. (2014-15). *Support and Development of West Virginia Professional Development Schools*. West Virginia Department of Education and the Arts Partnerships to Assure Student Success. (\$199,995).
- Ogilvie, C., Bender, H., Danielson, J., & Niederhauser, D. S. (2010-2013). *Dissemination of ThinkSpace: An online delivery tool for authentic complex problem-solving*. National Science Foundation: Course, Curriculum, and Laboratory Improvement. (\$199,999).
- Schmidt, D. A., Niederhauser, D. S., & Hargrave, C. P. (2009-2010). *Turkish student teacher internship project*. U.S. Department of State. (\$399,982).
- Schmidt, D. A., Niederhauser, D. S., & Hargrave, C. P. (2008-2009). *Turkish student teacher internship project*. U.S. Department of State. (\$374,998).
- Schmidt, D. A., Niederhauser, D. S., & Hargrave, C. P. (2007-2008). *Turkish student teacher internship project*. U.S. Department of State. (\$348,779).
- Niederhauser, D. S., Hargrave, C. P., & McShay, J. (2006-2007). *Turkish student teacher internship project*. U.S. Department of State. (\$299,974).
- Davis, N. E., Schmidt, D., Kemis, M., Niederhauser, D. S., Clough, M., Harms, C., Rosenbusch, M., & Thompson, E. A. (2004-2006). *Teacher Education Goes Into Virtual Schooling*. U.S. Department of Education. (\$581,849).
- Niederhauser, D. S., Hargrave, C. P., & McShay, J. (2005-2006). *Turkish student teacher internship project*. U.S. Department of State. (\$299,861).
- Niederhauser, D. S. (2005). *ISU STEM equipment grant*. Subcontract of Cleveland State University National Science Foundation Development of STEM materials for High School Teachers project grant. (\$4,000).
- Niederhauser, D. S., Hargrave, C. P., & McShay, J. (2004-2005). *Turkish student teacher internship project*. U.S. Department of State. (\$199,751).
- Staker, J., & Niederhauser, D. S. (2004-2005). *ISU STEM Replication grant*. Subcontract of Cleveland State University National Science Foundation Development of STEM materials for High School Teachers grant. (\$5,000).
- Niederhauser, D. S. & Davis, N. E. (2001-2004). *Knowledge innovation for technology in education (KITE)*. ISU Subcontract for the University of Missouri's U.S. Department of Education Preparing Tomorrow's Teachers to use Technology (PT3) grant. (\$131,571).
- Pfitzenmaier, P., Davis, N., & Niederhauser, D. S. (2002-2005). *Proposal to support the development of quality distance education high school science courses for Iowa students*. Roy J. Carver Charitable Trust (\$400,000).
- Ares, N., Buendia, E., Gitlin, A., Hacker, D., Niederhauser, D., Smith, W. (1999-2002). *Proposal for evaluation of the Eccles/Annenberg challenge grant*. University of Utah subcontract for the Salt Lake City School District Annenberg Foundation grant. (\$318,544).

- Niederhauser, D. S. (1999). *Development of a preservice methods faculty handbook for the Marco Polo project*. MCI WorldCom Foundation grant. (\$50,000).
- Niederhauser, D. S. (1997). *Basic skills software grant*. Education for America program, American Education Corporation grant. (\$10,000).
- Niederhauser, D. S. (1996-1999). *University of Utah component of Integration of technology in the preservice teacher preparation curriculum. A multi-university proposal*. Utah Higher Education Technology Initiative Grant. (\$100,000).

### **Institutional Grants (Total \$417,441)**

- Estapa, A., & Niederhauser, D. S. (2013-2016). *What do they see? An inside look into what elementary preservice teachers notice in a mathematics classroom*. Iowa State University College of Human Sciences Seed Grant. (\$9,600).
- Roberts, S. & Niederhauser, D. S. (2012-2013). *Pre-service teachers' conceptions of equity in mathematics*. Iowa State University College of Human Sciences Seed Grant. (\$10,000)
- Ogilvie, C., Niederhauser, D. S., Jackman, J., Boysen, P. Danielson, J., & Bender, H. (2008-2009). *Dissemination of online problem-solving learning portal and diagnostic pathfinder to increase students' problem-solving skills*. Iowa State University Computation Advisory grant. (\$65,651).
- Jackman, J., Niederhauser, D. S., Ogilvie, C., & Ryan, S. (2007-2008). *Improving student problem formulation skills through scaffolding*. Miller Faculty Fellowship grant, Iowa State University. (\$34,780).
- Jackman, J., Niederhauser, D. S., Ogilvie, C., & Ryan, S. (2007-2008). *Dissemination of online case tool to increase students' problem-solving skills*. Iowa State University Computation Advisory grant. (\$65,802).
- Ryan, S., Jackman, J., Niederhauser, D. S., & Ogilvie, C. (2006-2007). *Assessing problem-solving skill development in science and engineering*. Miller Faculty Fellowship grant, Iowa State University. (\$24,995).
- Ogilvie, C., Ryan, S., Jackman, J., & Niederhauser, D. S. (2005-2006). *Online environment for multifaceted problem-solving development*. Iowa State University Computation Advisory grant. (\$62,073).
- Schmidt, D., Niederhauser, D. S., Clausen, J., Elsberry, J., Pease, L., Frizelle, T., Hehr, K. (2003-2004). *Expanding student access with portability: InTOW – Instructional technology on wheels*. Iowa State University Computation Advisory grant. (\$59,420).
- Thompson, E. A., & Niederhauser, D. S. (2002-2003). *Continuation of distance M.Ed. in technology and learning for Iowa teachers*. WOI Endowment Grant, Iowa State University. (\$42,500).
- Thompson, E. A., & Niederhauser, D. S. (2001-2002). *Distance M.Ed. in technology and learning for Iowa teachers*. WOI Endowment Grant, Iowa State University. (\$35,061).
- Niederhauser, D. S., & Schmidt, D. (2001-2002). *TrackStar activity development to enhance and support student learning*. Iowa State University Instructional Development Grant. (\$1,800).

Niederhauser, D. S., & Gess-Newsome, J. (1997-1998). *Using laserdiscs and CD ROMs in science methods courses for teachers*. University of Utah Faculty Assistance Subcommittee Instructional Technology Starter/Mentor Grant. (\$5,759).

## PUBLICATIONS

### Peer-reviewed Journal Articles

- Law, N., Niederhauser, D. S., Christensen, R., & Shear, L. (2016). A Multilevel system of quality technology-enhanced learning and teaching indicators. *Journal of Educational Technology and Society*, 19(3), 72-83. ISSN: 1436-4522 (online) and 1176-3647 (print)
- Lindstrom, D. L., and Niederhauser, D. S. (2016). Digital literacies go to school: A cross-case analysis of the literacy practices used in a classroom-based social network site. *Computers in the Schools*, 33(2), 103-119. DOI: 10.1080/07380569.2016.1179025
- Reichert, C., Cervato, C., Niederhauser, D. S., & Larsen, M. (2015). Understanding atmospheric carbon budgets: Teaching conservation of mass. *Journal of Geoscience Education*, 63(3), 222-232. ISSN: 1089-9995
- Reichert, C., Cervato, C., Larsen, M., & Niederhauser, D. S. (2014). Conceptions of atmospheric carbon budgets: Undergraduate students' perceptions of mass balance. *Journal of Geoscience Education*, 62, 460-468. DOI: 10.5408/13-052.1
- Cox, M. J., Niederhauser, D. S., Castillo, N., McDougall, A. B., Sakamoto, T., & Roesvik, S. (2013). Researching IT in education. *Journal of Computer Assisted Learning*, 29(5), 474-486. DOI: 10.1111/jcal.12035
- Mokhtari, K. & Niederhauser, D. S. (2013). Vocabulary and syntactic knowledge factors in 5<sup>th</sup> grade students' reading comprehension. *International Electronic Journal of Elementary Education*, 5(2), 157-170. ISSN: 1307-9298
- Antonenko, P. D., Toy, S., & Niederhauser, D. S. (2012). Using cluster analysis for data mining in educational technology research. *Educational Technology Research and Development*, 60, 383-398. DOI: 10.1007/s11423-012-9235-8
- Antonenko, P. D., Ogilvie, C. A., Niederhauser, D. S., Jackman, J. Kumsaikaew, P., Marathe, R. R., & Ryan, S. M. (2011). Understanding student pathways in context-rich problems. *Education and Information Technologies*, 16(4), 323-342. DOI 10.1007/s10639-010-9132-x
- Mokhtari, K., Niederhauser, D. S., Beschorner, E. A., & Edwards P. A. (2011). FAD: Filtering, analyzing, and diagnosing reading difficulties. *The Reading Teacher*, 64(8), 631-635. DOI: 10.1598/RT.64.8.12
- Antonenko, P. D., & Niederhauser, D. S. (2010). The influence of leads on cognitive load and learning in a hypertext environment. *Computers in Human Behavior*, 26(2), 140-150. DOI: 10.1016/j.chb.2009.10.014
- Niederhauser, D. S., & Perkmen, S. (2010). Beyond self-efficacy: Measuring pre-service teachers' instructional technology outcome expectations. *Computers in Human Behavior*, 26(4), 436-442. DOI: 10.1016/j.chb.2009.10.014
- Niederhauser, D. S., & Perkmen, S. (2008). Validation of the intrapersonal technology integration scale: Assessing the influence of intrapersonal factors that influence

technology integration. *Computers in the Schools*, 25(1-2), 98-111. DOI: 10.1080/07380560802157956

- Niederhauser, D. S., Lindstrom, D. L., & Strobel, J. (2007). Evidence of the NETS\*S in K-12 classrooms: Implications for teacher education. *Journal of Technology and Teacher Education*, 15(4), 483-512. ISSN-1059-7069
- Davis, N., & Niederhauser, D. S. (2007). Virtual schooling. *Learning and Leading with Technology*, 34(7), 10-15. ISSN-1082-5754
- Harms, C. M., Niederhauser, D. S., Davis, N. E., Roblyer, M. D., & Gilbert, S. B. (2006). Educating educators for virtual schooling: Communicating roles and responsibilities. *The Electronic Journal of Communication/La Revue Electronique de Communication*, 16(1-2), 1-16.
- Niederhauser, D. S., & Lindstrom, D. L. (2006). Addressing the NETS for students through constructivist technology use in K-12 classrooms. *Journal of Educational Computing Research*, 34(1), 91-128. ISSN-0735-6331
- Davis, N., & Niederhauser, D. S. (2005). Socio-cultural analysis of two cases of distance learning in secondary education. *Education and Information Technologies*, 10(3), 249-262.
- Davis, N., Niederhauser, D., Compton, L., & Johnson, N. (2005). Az iskolavai kapcsolatos új fogalmak a 21 században: A virtualis iskola mint szociokulturális tevékenység [New notions of schooling in the 21<sup>st</sup> century: Virtual architectures for Virtual Schooling]. *Uj Pedagogiai Szemle*, 7-8, 95-105. [Hungarian translation of IFIP WG. 3.5 paper]
- Niederhauser, D. S., Wetzel, K., & Lindstrom, D. L. (2005). From manuscript to article: Publishing educational technology research. *Journal of Technology and Teacher Education*, 13(4), 655-692. ISSN-1059-7069
- Also appeared as:*
- Niederhauser, D. S., Wetzel, K., & Lindstrom, D. L. (2004). From manuscript to article: Publishing educational technology research. *Contemporary Issues in Technology and Teacher Education*, 4(2), 89-136.
- Niederhauser, D. S., & Stoddart, T. (2001). Teachers' instructional perspectives and use of educational software. *Teaching and Teacher Education*, 17(1), 15-31. DOI: 10.1016/S0742-051X(00)00036-6
- Wade, S., Niederhauser, D. S., Cannon, M., & Long, T. (2001). Electronic discussions in an issues course: Expanding the boundaries of the classroom. *Journal of Computing in Teacher Education*, 17(3), 4-9. [Feature Article]
- Niederhauser, D. S., Reynolds, R. E., Salmen, D. J., & Skolmoski, P. (2000). The influence of cognitive load on learning from hypertext. *Journal of Educational Computing Research*, 23(3), 237-255. ISSN-0735-6331
- Niederhauser, D. S., Salem, D. J., & Fields, M. (1999). Exploring teaching, learning, and instructional reform in an introductory technology course. *Journal of Technology and Teacher Education*, 7(2), 153-172.
- Niederhauser, D. S. (1996). Using computers in an information age classroom: What teachers need to know. *National Association of Secondary School Principals Bulletin*, 80(582), 71-80. ISSN-0192-6365

Niederhauser, D. S., & Stoddart, T. (1993). Integrating technology with elementary mathematics: Effects of training and support. *Journal of Technology and Teacher Education*, 1(1), 25-32.

Stoddart, T., & Niederhauser, D. S. (1993). Technology and educational change. *Computers in the Schools*, 9(2/3), 5-22. [Feature Article]

### **Edited Scholarly Book**

Clough, M. P., Olson, J. K., & Niederhauser, D. S. (Eds.). (2013). *The nature of technology: Implications for learning and teaching*. Rotterdam: Sense Publishing.

### **Scholarly Book Chapters**

Schrum, L., Niederhauser, D. S., & Strudler, N. (2016). Competencies, challenges, and changes: A U.S. perspective on preparing 21<sup>st</sup> century teachers and leaders. In J. M. Spector, D. Ifenthaler, D. G. Sampson, & P. Isaías (Eds.) *Competencies in teaching, learning and educational leadership in the digital age* (pp. 17-32). New York: Springer. DOI: 10.1007/978-3-319-30295-9

Niederhauser, D. S. (2013). Learning *from* technology or learning *with* technology: Theoretical perspectives on the nature of using technology in the classroom. In M. Clough, J. Olson, & D. Niederhauser (Eds.) *The nature of technology: Implications for learning and teaching* (pp. 249-267). Rotterdam: Sense Publishing.

Clough, M. P., Olson, J. K., & Niederhauser, D. S. (2013). Introduction. In M. Clough, J. Olson, & D. Niederhauser (Eds.) *The nature of technology: Implications for learning and teaching* (pp. 1-4). Rotterdam: Sense Publishing.

Harms, C., Niederhauser, D. S., Davis, N. E., Roblyer, M. D., & Gilbert, S. B. (2010). Educating educators for virtual schooling. In C. Stewart, C. Schifter & M. Selverian (Eds.) *Teaching and learning with technology: Beyond constructivism*. (pp. 70-86). New York: Routledge.

*Also listed as a peer-reviewed article in The Electronic Journal of Communication.*

Karabulut, A., Braet, D., Lindstrom, D., & Niederhauser, D. S. (2009). Student level of commitment and engagement with Ning as a learning management system. In C. Maddux (Ed.) *Research highlights in information technology and teacher education 2009* (pp. 125-132). Chesapeake, VA: Society for Information Technology and Teacher Education.

Niederhauser, D. S. (2008). Educational hypertext. In J. M. Spector, M. D. Merrill, J. van Merriënboer, & M. P. Driscoll (Eds.), *Handbook of research on educational communications and technology* (3<sup>rd</sup> Ed.) (pp. 199-210). New York: Routledge.

Shapiro, A., & Niederhauser, D. (2004). Learning from hypertext: Research issues and findings. In D. H. Jonassen (Ed.), *Handbook of research on educational communications and technology* (2<sup>nd</sup> Ed.) (pp. 605-620). Mahwah, NJ: Lawrence Erlbaum Associates.

Hacker, D. J., & Niederhauser, D. S. (2000). Promoting deep and durable learning in the online classroom. In R. E. Weiss, D. S. Knowlton, & B. W. Speck (Eds.), *New directions for teaching and learning: Principles of effective teaching in the online classroom* (pp. 53-63). San Francisco: Jossey-Bass.

Dole, J. A., & Niederhauser, D. S. (1990). Students' level of commitment to their naive conceptions and their conceptual change learning from texts. In J. Zutell and S. McCormick (Eds.), *Literacy theory and research: Analyses from multiple paradigms* (pp. 303-310). Chicago: National Reading Conference.

### **Technical Reports**

Law, N., Niederhauser, D., Shear, L., & Christensen, R. (2015). *Indicators of Quality Technology-Enhanced Learning and Teaching*. In K-W Lai (Ed.) EDUsumMIT 2015 Summary Report. Bangkok: UNESCO.

Cox, M., Sakamoto, T., McDougall, A., Castillo, N., Røsvik S., & Niederhauser, D. (2011). *Researching IT in education*, EDUsumMIT 2011 International Summit on ICT in Education, Technical Working Group 8 Report. Paris: UNESCO.

Bull, G. L., Garafalo, J., Berg, L. B., Berson, M., Cooper, J. M., Imig, D., Flick, L. B., Glenn, A. D., Mergendoller, J. R., Miller, L., Moursund, D., Niederhauser, D., Rose, R., Sprague, D. R., & Thompson, A. (2002). *Report on the proposed school technology settlement and independent National Educational Technology Foundation*. In re: Microsoft Corp. Antitrust Litigation MDL No. 1332 (Dist MD).

Fawson, C. E., Niederhauser, D. S., Groomer, W., Morgan, D., & Kendall, R. (1995). *A blueprint for technology based schools*. Technology Enhanced Schools Project, Utah Educational Consortium, Salt Lake City, UT.

Mergendoller, J. R., Stoddart, T., Niederhauser, D. S., & Horan, C. (1993). *The Utah technology initiative year two evaluation: Program implementation, computer acquisition and placement, and computer use*. Beryl Buck Institute for Education, Novato, CA.

Mergendoller, J. R., Stoddart, T., Horan, C., Niederhauser, D. S., & Bradshaw, D. (1992). *Instructional utilization, teacher training and implementation of Utah's Educational Technology Initiative in school districts and colleges*. Beryl Buck Institute for Education, Novato, CA.

Mergendoller, J. R., Stoddart, T., Bradshaw, D., & Niederhauser, D. S. (1992). *A portfolio-based evaluation of Utah's Educational Technology Initiative, 1990-1991 school year*. Beryl Buck Institute for Education, Novato, CA.

### **Invited Journal Articles (Not Peer-reviewed)**

Niederhauser, D. S., & Wessling, S. (2011). Professional development: Catalyst for change? *Learning & Leading With Technology*, 38(8), 38-39.

Niederhauser, D. S., & Knezek, G. (2011). Collaboration makes the ed tech world go round. *Learning & Leading With Technology*, 38(6), 36-37.

Niederhauser, D. S. (2010). Looking forward: The role of technology in tomorrow's schools. *Learning & Leading With Technology*, 38(4), 28-29.

Niederhauser, D. S. (2010). A Shift in Focus: The New NETS for Students. *Learning & Leading With Technology*, 38(2), 24-25.

Niederhauser, D. S. (2002). Transitions in technology and teacher education. *Journal of Computing in Teacher Education*, 18(4), 111.



- Niederhauser, D. S. (2002). ISTE and NECA move forward together. *Journal of Computing in Teacher Education*, 18(3), 75.
- Niederhauser, D. S. (2002). Computing in teacher education: A maturing field of research. *Journal of Computing in Teacher Education*, 18(2), 41.
- Niederhauser, D. S. (2002). Education for the 21<sup>st</sup> century? *Journal of Computing in Teacher Education*, 18(1), 3-4.
- Niederhauser, D. S. (2001). Strong SIGTE presence at NECC 2001. *Journal of Computing in Teacher Education*, 17, (4), 3.
- Niederhauser, D. S. (2001). NECC 2001 preview. *Journal of Computing in Teacher Education*, 17, (3), 2.
- Niederhauser, D. S. (2001). Technology and teacher education: Beyond preparing preservice teachers. *Journal of Computing in Teacher Education*, 17, (2), 3.
- Niederhauser, D. S. (2001). SIGTE: The future of technology and teacher education. *Journal of Computing in Teacher Education*, 17, (1), 3.

### **Conference Proceedings Chapters (Peer-reviewed proposal)**

- Niederhauser, D. S. & Schrum, L. (In Press). Enacting Stem Education for Digital Age Learners: The Maker Movement Goes to School. In P. Isaias, D. Sampson, J. Spector & D. Ifenthaler (Eds.) *Proceedings of the IADIS International Conference on Cognition & Exploratory Learning in the Digital Age-2016* (pp. xx-xx). Mannheim, Germany: IADIS Press.
- Christensen, R., Niederhauser, D. S. & Knezek, G. (2016). Teacher Indicators for Technology Enhanced Teaching and Learning: Expanding Outcomes from EDUSumMIT 2015. In G. Chamblee and L. Langub (Eds.) *Proceedings of Society for Information Technology & Teacher Education International Conference 2016* (pp. 1028-1035). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).
- Schrum, L., Dolan, R., Ifenthaler, D., Huang, R., Niederhauser, D. S., & Strudler, N. (2014). Competencies, challenges, and changes: A global conversation about 21st century teachers and leaders. In P. Isaias, D. Sampson, J. Spector & D. Ifenthaler (Eds.) *Proceedings of the IADIS International Conference on Cognition & Exploratory Learning in the Digital Age-2014* (pp. 3-6). Porto, Portugal: IADIS Press.
- Wang, W., Crawford, D. & Niederhauser, D. (2013). An Investigation of How Preservice Teachers Develop TPACK After Content Methodology Courses. In R. McBride & M. Searson (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2013* (pp. 5104-5111). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).
- Voogt, J., Mishra, P., Thompson, A., Crawford, D., Wang, W., Niederhauser, D., Fisser, P., Tondeur, J., van Braak, J., Kafyulilo, A. & Agyei, D. (2013). Measuring TPACK: Part 2. In R. McBride & M. Searson (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2013* (pp. 2484-2487). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).
- Niederhauser, D., Perkmen, S. & Toy, S. (2012). Valuing technology integration: The role of outcome expectations in promoting preservice teachers' acceptance of technology. In P. Resta (Ed.), *Proceedings of Society for Information Technology & Teacher Education*

*International Conference 2012* (pp. 2015-2020). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).

- Karabulut, A., Braet, D., Lindstrom, D. & Niederhauser, D. (2009). Student Level of Commitment and Engagement with Ning as a Learning Management System. In I. Gibson, R. Weber, K. McFerrin, R. Carlsen & D. Willis (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2009* (pp. 2564-2569). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).
- Davis, N. & Niederhauser, D. S. (2006). Preparing teachers for k-12 distance learning: Roles and strategies. In *Proceedings of the 22<sup>nd</sup> Annual Conference on Distance Teaching and Learning*. Madison, WI: University of Wisconsin Board of Regents.
- Davis, N. E., Niederhauser, D. S., Compton, L., Lindstrom, D., & Schoeny, Z. (2005). Virtual schooling lab practice: Case studies for teacher preparation. In C. Crawford, D. Willis, R. Carlsen, I. Gibson, K. McFerrin, J. Price, & R. Weber (Eds.), *Society for Information Technology & Teacher Education International Conference Annual* (pp. 342-345). Chesapeake, VA: Association for the Advancement of Computing in Education.
- Antonenko, P., Toy, S., & Niederhauser, D. S. (2004). Modular object-oriented dynamic learning environment: What open source has to offer. In M. R. Simonson & M. Anderson (Eds.) *Proceedings of the Annual meeting of the Association for Educational Communications and Technology* (pp. 140-141), Anaheim, CA: AECT.
- Davis, N., Niederhauser, D. S., Compton, L., & Sahin, S. (2004). Case studies to lead good practice for K-12 distance education. In R. Ferdig, and C. Crawford (Eds.), *Society for Information Technology & Teacher Education International Conference Annual* (pp. 404-406). Norfolk, VA: Association for the Advancement of Computing in Education.
- Shapiro, A. & Niederhauser, D. (2003). How studies of hypertext-assisted learning inform educational system design. In R. Alterman & D. Kirsh (Eds.), *Proceedings of the 25<sup>th</sup> Annual Meeting of the Cognitive Science Society* (p. 57). Boston, MA: Cognitive Science Society. [Abstract]
- Lindstrom, D., & Niederhauser, D. S. (2003). Teaching elementary students with technology: Integration with classroom activities. In C. Crawford, N. Davis, J. Price, R. Weber & D. Willis (Eds.), *Society for Information Technology & Teacher Education International Conference Annual* (pp. 3660-3665). Norfolk, VA: Association for the Advancement of Computing in Education.
- Garrety, C. M., & Niederhauser, D. S. (2003). Computers in the early childhood classroom: Promises, problems and practices. In C. Crawford, N. Davis, J. Price, R. Weber & D. Willis (Eds.), *Society for Information Technology & Teacher Education International Conference Annual* (pp. 3269-3276). Norfolk, VA: Association for the Advancement of Computing in Education.
- Kamb, R., & Niederhauser, D. (2001). Peer-status and self-efficacy: Effects on technology-based small group interactions. In J. Price, D. Willis, N. Davis & J. Willis (Eds.), *Proceedings of SITE 2001* (pp. 2345-2350). Norfolk, VA: Association for the Advancement of Computing in Education.
- Niederhauser, D. S., Salmen, D. J., & Fields, M. (1998). Learning about learning in an introductory educational computing course. In S. McNeil, J. Price, S. Boger-Mehall, B. Robin, & J. Willis (Eds.), *Proceedings of SITE 98* (pp. 232-235). Charlottesville, VA: Association for the Advancement of Computing in Education. [Award Paper]

- Niederhauser, D. S. (1996). Information age literacy: Preparing educators for the 21st century. In B. Robin, J. Price, J. Willis, & D. Willis (Eds.), *Technology and Teacher Education annual, 1996* (pp. 415-418). Charlottesville, VA: Association for the Advancement of Computing in Education. [Award Paper]
- Niederhauser, D. S., & Stoddart, T. (1994). The relationship between teachers' beliefs about computer-assisted instruction and their practice. In J. Willis, B. Robin, & D. Willis (Eds.), *Technology and Teacher Education Annual* (pp. 52-56). Charlottesville, VA: Association for the Advancement of Computing in Education. [Award Paper]
- Stoddart, T., Niederhauser, D. S., & Mergendoller, J. (1993). Technology and educational reform: One state's experience. In D. Carey, R. Carey, D. Willis, & J. Willis (Eds.), *Technology and Teacher Education Annual* (pp. 542-549), Charlottesville, VA: Association for the Advancement of Computing in Education.
- Niederhauser, D. S., & Stoddart, T. (1992). Integrating technology with elementary mathematics: Effects of training and support. In D. Carey, R. Carey, D. Willis, & J. Willis (Eds.), *Technology and Teacher Education Annual* (pp. 430-434), Charlottesville, VA: Association for the Advancement of Computing in Education. [Award Paper]

### **Technology Design and Development**

- Bender, H., Boysen, P., Danielson, J., Niederhauser, D. S., Ogilvie, C. A., & Vanderzanden, A. (2010). *ThinkSpace*. [Online Computer application: Shell for authoring and presenting instructional problems (ill-structured multi-faceted, diagnosis and remediation, case-based reasoning, etc.) while tracking reading time and navigation patterns].
- Antonenko, P. D., Jackman, J., Kumsaikaew, P., Marathe, R. R., Niederhauser, D. S., Ogilvie, C. A., & Ryan, S. M. (2007). *Problem-Solving Learning Portal*. [Computer software: Shell for authoring and presenting problems while tracking reading time and navigation patterns].
- Davis, N.E., Niederhauser, D. S., Compton, L. & Lindstrom, D. (2005). *Good practice to inform Iowa Learning Online: Considerations for developing online instruction and virtual laboratory activities*. [Webpage: suggestions for good practices for virtual science laboratory instruction] <http://projects.educ.iastate.edu:16080/%7Evhs/consider.htm>.
- Davis, N., Niederhauser, D. S., Compton, L., Lindstrom, D., and Michelini, C. (2004). *Iowa learning online*. Roy J. Carver Charitable Trust Grant in cooperation with Iowa Public Television [Webpage: Case Studies of Virtual Schooling Science Practices] <http://projects.educ.iastate.edu:16080/%7Evhs/index.htm>.
- Niederhauser, D. S., & Kramer, R. (1999). *Construction advisor: Preventing fatalities*. Occupational Safety and Health Administration (OSHA), U.S. Department of Labor, Washington, DC. [Webpage: Safety practices for construction workers (initial instructional design)] <http://www.osha.gov/SLTC/etools/construction/>.
- Skolmoski, P., & Niederhauser, D. S. (1997). *Hypertext presentation shell*. Department of Educational Studies, Graduate School of Education, University of Utah. [Computer software: Shell for presenting and tracking reading time and screen-access sequence in a hypertext-based learning environment].

Harris, W., & Niederhauser, D. S. (1988). *Timed text-presentation program*. Department of Educational Studies, Graduate School of Education, University of Utah. [Computer software: Shell for presenting text and tracking reading time].

### INVITED SCHOLARLY ADDRESSES

- 2014        **Keynote Symposium**, Cognition and Exploratory Learning in a Digital Age 2014, Porto, Portugal.
- 2013        **Invited Address**, Symposium on Problem-Solving, King's College London, United Kingdom.
- 2003        **Keynote Address**, Modeling Instruction with Modern Information and Communication Technologies Conference, Cleveland State University, Cleveland, OH.
- 2002        **Invited Address**, Symposium on distance education at National Linguistic University, Kiev, Ukraine.
- 2002        **Invited Address**, Symposium on technology integration at Gogol Pedagogical University, Nyzhin, Ukraine.

### SCHOLARLY PRESENTATIONS AT PROFESSIONAL MEETINGS (Peer-reviewed proposal)

#### National and International

- Niederhauser, D. (2017, April). *Semantic processing and cognitive flexibility in hypertext environments*. Paper accepted for symposium at the annual meeting of the American Educational Research Association, San Antonio, TX.
- Niederhauser, D. S. & Schrum, L. (2016, October). *Enacting STEM Education for Digital Age Learners: The Maker Movement Goes to School*. Paper presented at the Cognition and Exploratory Learning in the Digital Age conference, Mannheim, Germany.
- Law, N., Christensen, R., & Niederhauser, D. (2016, April). *Indicators of quality technology-enhanced teaching and learning*. Paper presented at the annual meeting of the World Educational Research Association, Washington, DC.
- Christensen, R., Niederhauser, D. S., & Knezek, G. (2016, March). *Teacher indicators for technology enhanced teaching and learning: Expanding outcomes from EDUSummIT 2015*. Paper presented at the annual meeting of the Society for Information Technology and Teacher Education, Savannah, GA.
- Voogt, J., Kwok W-L, Albion, P., Tondeur, J., Forkosh-Baruch, A., Schönfield, M., Laferrière, T., Spector, M., Mishra, P., Fisser, P., Henriksen, D., Christensen, R., Niederhauser, D., Resta, P., Searson, M., & Angeli, C. (2016, March). *Technology enhanced quality learning for all: The EDUSummIT 2015 call to action*. Symposium at the annual meeting of the Society for Information Technology and Teacher Education, Savannah, GA.
- Schrum, L., Dolan, R., Ifenthaler, D., Huang, R., Niederhauser, D. S., & Strudler, N. (2014, October). *Competencies, challenges, and changes: A global conversation about 21st century teachers and leaders*. Paper presented at the Cognition and Exploratory Learning in Digital Age International Conference, Porto, Portugal.

- Cox, M. J., & Niederhauser, D. S. (2014, April). *Researching instructional technology in education: Toward improved research-informed policy and practice*. Paper presented at the meeting of the American Educational Research Association, Philadelphia, PA.
- Niederhauser, D. S. (2013, July). *Solving Ill-structured Problems: Student Behaviour in an Online Problem-solving Environment*. Paper presented at the meeting of the World Conference on Computers in Education, Torun, Poland.
- Cox, M. J., & Niederhauser, D. S. (2013, July). *Researching IT in education: Towards improved research-informed practice*. Paper presented at the meeting of the World Conference on Computers in Education, Torun, Poland.
- Niederhauser, D. S., & Crawford, D. A. (2013, April). *Affects of an elementary school one-to-one initiative on teachers' pedagogical beliefs and practices*. Paper presented at the meeting of the American Educational Research Association, San Francisco, CA.
- Lindstrom, D. L., & Niederhauser, D. S. (2013, April). *An examination of the development of digital literacies in a classroom-based social network site*. Paper presented at the meeting of the American Educational Research Association, San Francisco, CA.
- Schmidt, D. A., Niederhauser, D. S., & Wang, W. (2013, March). *Measuring TPACK*. Paper presented at the meeting of the Society for Information Technology and Teacher Education, New Orleans, LA.
- Wang, W., Schmidt, D. A., & Niederhauser, D. S. (2013, March). *An investigation of how preservice teachers develop TPACK after content methodology courses*. Paper presented at the meeting of the Society for Information Technology and Teacher Education, New Orleans, LA.
- Niederhauser, D. S., Perkmen, S., & Toy, S. (2012, March). *Valuing technology integration: The role of outcome expectations in promoting preservice teachers' acceptance of technology*. Paper presented at the meeting of the Society for Information Technology and Teacher Education, Austin, TX.
- Lindstrom, D. L., & Niederhauser, D. S. (2011, April). *OurSpace: An Examination of Social Network Sites for Learning in School*. Paper presented at the meeting of the American Educational Research Association, New Orleans, LA.
- Mokhtari, K., & Niederhauser, D. S. (2010, December) *Contributions of Vocabulary Knowledge and Syntactic Awareness to 5<sup>th</sup> Grade Students' Reading Fluency and Comprehension*. Paper presented at the meeting of the National Reading Conference, Fort Worth, TX.
- Antonenko, P. D., Niederhauser, D. S., & Geske, J. (2010, April). *Differentiating Cognitive Load in Hypertext-assisted Learning Environments*. Paper presented at the meeting of the American Educational Research Association, Denver, CO.
- Cevik, D. B., Perkmen, S., & Niederhauser, D. S. (2010, April). *Personality Self-Perceptions of Pre-service Music Teachers in Relation to Satisfaction and Motivation for Technology Use*. Poster presented at the meeting of the American Educational Research Association, Denver, CO.
- Niederhauser, D. S., Toy, S., Ogilvie, C., Karabulut, A., & Jackman, J. (2009, April). *Scaffolding problem formulation in an online problem-based learning environment*. Paper presented at the meeting of the American Educational Research Association, San Diego, CA.
- Karabulut, A., Lindstrom, D. L., Braet, D., & Niederhauser, D. S. (2009, March). *Student level of commitment and engagement using Ning as a learning management system*. Paper

presented at the meeting of the Society for Information Technology and Teacher Education, Charleston, SC.

- Toy, S., & Niederhauser D. S. (2008, July) *Online ill-structured problem-solving strategies*. Poster presented at the annual meeting of the Cognitive Science Society, Washington, D.C.
- Toy, S., Niederhauser, D. S., Jackman, J., Ogilvie, C., Ryan, S., & Karabulut, A. (2008, July). *Effects of Scaffolding Problem Formulation Phase During Multifaceted Physics Problem-Solving*. Poster presented at the annual meeting of the Cognitive Science Society, Washington, DC.
- Jackman, J., Ryan, S., Ogilvie, C., & Niederhauser, D. S. (2008, June). *Scaffolding to improve reasoning skills in problem formulation*. Paper presented at the annual meeting of the American Society for Engineering Education Conference, Pittsburgh, PA.
- Saritas, M. T., & Niederhauser, D. S. (2008, March). *An exploration of knowledge construction via computer conferencing systems*. Paper presented at the annual meeting of the American Educational Research Association, New York, NY.
- Antonenko, P. D., Niederhauser, D. S., & Thompson, E. A. (2007, August). *Optimization of cognitive load in conceptually rich hypertext: Effect of leads*. Paper presented at the annual meeting of the Cognitive Science Society, Atlanta, GA.
- Ryan, S. M., Antonenko, P. D., Jackman, J., Kumsaikaew, P., Marathe, R. R., Niederhauser, D. S., & Ogilvie, C. A. (2007, June). *Student selection of information relevant to solving ill-structured engineering economic decision problems*. Paper presented at the annual meeting of the American Society for Engineering Education, Honolulu, HI.
- Niederhauser, D. S., Antonenko, P., Ryan, S., Jackman, J., Ogilvie, C., Marathe, R., & Kumsaikaew, P. (2007, April). *Solution strategies of more and less successful problem solvers in an online problem-based learning environment*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Lindstrom, D. L., & Niederhauser, D. S. (2007, April). *The effects of computer-mediated communication on upper elementary students' motivation to read*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Perkmen, S., & Niederhauser, D. S., and Shelley, M. C. (2007, April). *Development of the instructional technology outcome expectations scale*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL
- Niederhauser, D. S., Perkmen, S., & Toy, S. (2006, April). *Academic performance in an introductory instructional technology course*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
- Perkmen, S., Niederhauser, D. S., & Charania, A. (2006, April). *Factors that influence pre-service teachers' career goals in instructional technology*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
- Niederhauser, D. S., & Thompson, E. A. (Co-chairs) (2006, April). *Preparing teachers for the distance learning classroom: Evaluation of the teacher training goes into virtual schooling (TEGIVS) project*. Panel discussion at the annual meeting of the American Educational Research Association, San Francisco, CA.
- Niederhauser, D. S., Thompson, A. E., Davis, N. E., Knezek, G., & Roblyer, M. D. (2005, June). *Evaluating technology professional development: Principles and practices for scientific research*. Panel discussion at the annual meeting of the National Educational Computing Conference, Philadelphia, PA.
- Niederhauser, D. S., Lindstrom, D. L., & Strobel, H. (2005, April). *Narratives from the front line: Changes in teachers' use of technology*. Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.

- Clausen, J. M. & Niederhauser, D. S. (2005, April). *Competing demands on the first-year teacher: Change agent or survivor?* Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.
- Davis, N., Niederhauser, D. S., & Compton, L. (2005, March). *Virtual schooling lab practice: Case studies for teacher preparation.* Paper presented at the annual meeting of the Society for Information Technology and Teacher Education, Phoenix, AZ.
- Antonenko, P., Toy, S., & Niederhauser, D. S. (2004, October). *Modular object-oriented dynamic learning environment: What open source has to offer.* Paper presented at the meeting of the Association for Educational Communications and Technology, Chicago, IL.
- Davis, N. E., Niederhauser, D. S., Compton, L., & Lindstrom, D. L. (2004, June). *New notions of schooling in the 21<sup>st</sup> century: Virtual architectures for virtual schooling.* Paper presented at the meeting of the International Federation for Information Processing, Budapest, Hungary.
- Niederhauser, D. S. & Clausen, J. (2004, April). *First-year technology teacher as change agent: Breaking the cycle.* Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- Lindstrom, D. & Niederhauser, D. S. (2004, February). *Using the KITE database to explore technology integration.* Paper presented at the annual meeting of the Society for Information Technology and Teacher Education, Atlanta, GA.
- Davis, N., Niederhauser, D. S., Compton, L., & Sahin, S. (2004, February). *Case studies to lead good practice for K-12 distance education.* Paper presented at the annual meeting of the Society for Information Technology and Teacher Education, Atlanta, GA.
- Cunningham, A. C., Pierson, M. E., & Niederhauser, D. S. (2004, February). *The role of SIGTE and NTLIC in sustaining the PT3 community.* Panel discussion at the US Department of Education Preparing Tomorrow's Teachers to Use Technology Grantees' Meeting, Atlanta, GA.
- Shapiro, A. & Niederhauser, D. (2003, July). *How studies of hypertext-assisted learning inform educational system design.* Paper presented at the annual meeting of the Cognitive Science Society, Boston, MA.
- Niederhauser, D. S., & Lindstrom, D. (2003, June). *Classroom technology integration: Secondary teachers' stories.* Paper presented at the annual meeting of the National Educational Computing Conference, Seattle, WA.
- Niederhauser, D. S. & Wang, F.K. (2003, May). *Building community with technology: Case-based reasoning for innovation diffusion.* Paper presented at the International Conference on Higher Education Innovation, Kiev, Ukraine.
- Niederhauser, D. S., & Shapiro, A. (2003, April). *Learner variables associated with reading and learning in a hypertext environment.* Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Clausen, J., Niederhauser, D. S., & Swift, J. (2003, March). *Technology teacher as change agent: First semester expectations and developments of a first-year technology teacher.* Paper presented at the annual meeting of the Society for Information Technology and Teacher Education, Albuquerque, NM.
- Lindstrom, D., & Niederhauser, D. S. (2003, March). *Teaching elementary students with technology: Integration with classroom activities.* Paper presented at the annual meeting of the Society for Information Technology and Teacher Education, Albuquerque, NM.
- Garrety, C. M., & Niederhauser, D. S. (2003, March). *Computers in the early childhood classroom: Promises, problems and practices.* Paper presented at the annual meeting of the Society for Information Technology and Teacher Education, Albuquerque, NM.

- Kamb, R. & Niederhauser, D. S. (2001, March). *Peer-status and self-efficacy: Effects on technology-based small group interactions*. Paper presented at the annual meeting of the Society for Information Technology and Teacher Education, Orlando, FL.
- Niederhauser, D. S., & Strudler, N. (2001, March). *Teachers' computer use in U.S. public schools: Discussing the issues*. Interactive panel discussion session at the annual meeting of the Society for Information Technology and Teacher Education, Orlando, FL.
- Bobbitt, C., Borthwick, A., Woldman, E., Dahlby, G., Niederhauser, D., & Bernard, W. (2000, June). *Preparing digital age teachers: Connecting university training and staff development*. Panel discussion at the annual meeting of the National Educational Computing Conference, Atlanta, GA.
- Reynolds, R. E., Brown, K. J., & Niederhauser, D. S. (2000, April). *Differential allocation of attentional resources: An aspect of intentional learning*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
- Niederhauser, D. S., & Serdiukov, P. (2000, March). *On-line education: A framework for learning with technology*. Paper presented at the annual meeting of the Society for Information Technology and Teacher Education, San Diego, CA.
- Serdiukov, P., Niederhauser, D. S., & Reynolds, R. E. (2000, March). *Teachers' distance professional development and support model*. Paper presented at the annual meeting of the Society for Information Technology and Teacher Education, San Diego, CA.
- Bitner, N., DeWert, M., Handler, M., Niederhauser, D. S., & Robb, J. K. (1999, June). *Technology-related requirements for teacher licensure and certification*. Panel discussion at the annual meeting of the National Educational Computing Conference, Atlantic City, NJ.
- Niederhauser, D. S., Fields, M., & Reynolds, R. E. (1999, April). *Navigational strategies and learning from hypertext*. Paper presented at the annual meeting of the Society for the Scientific Study of Reading, Montreal, Canada.
- Herbert, D., Bruett, T., Niederhauser, D. S., & Reynolds, R. E. (1999, April). *Readers' perceptions about learning from hypertext*. Paper presented at the annual meeting of the Society for the Scientific Study of Reading, Montreal, Canada.
- Niederhauser, D. S., & Long, T. (1999, March). *Changes in students' views of teaching and learning in an introductory educational technology course*. Paper presented at the annual meeting of the Society for Information Technology and Teacher Education, San Antonio, TX.
- Smith, S., Fields, M., & Niederhauser, D. S. (1999, March). *The influence of using technology in math methods courses on prospective teachers' thinking about its use in elementary classrooms*. Paper presented at the annual meeting of the Society for Information Technology and Teacher Education, San Antonio, TX.
- Niederhauser, D. S. (1998, April). *Learning and computer use in traditional and reform oriented mathematics classrooms*. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- Niederhauser, D. S., Reynolds, R. E., Salmen, D., & Skolmoski, P. (1998, April). *The influence of navigational style on learning from hypertext*. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.



- Niederhauser, D. S., Salmen, D., & Fields, M. (1998, March). *Learning about learning in an introductory educational computing course*. Paper presented at the annual meeting of the Society for Information Technology and Teacher Education, Washington, DC.
- Niederhauser, D. S., Salmen, D., Long, T., Camperell, K., Stoddard, P., Smith, M., & Wong, R. (1998, March). *Infusing technology into methods classes: Success and tribulation*. Panel discussion at the annual meeting of the Society for Information Technology and Teacher Education, Washington, DC.
- Bittner, V., Schmidt, D., Niederhauser, D. S., & Topp, N. (1997, June). *Infusing technology into education methods classes*. Panel discussion at the annual meeting of the National Educational Computing Conference, Seattle, WA.
- Wolf, R., Rice, J., Parent, S., Jonassen, D., Tessmer, M., Secada, W., Zhao, Y., & Niederhauser, D. S. (1997, March). *AERA's e-mail submission process: Problems and prospects*. Invited panel discussion at the annual meeting of the American Educational Research Association, Chicago, IL.
- Niederhauser, D. S. (1996, March). *Information age literacy: Education for the 21st century*. Paper presented at the annual meeting of the Society for Information Technology and Teacher Education, Mesa, AZ.
- Handler, M., Espinoza, S., Niederhauser, D. S., Thurber, B., & Jongejan, T. (1995, March). *Portfolios and technology: How do they work together?* Invited panel discussion at the annual meeting of the Society for Information Technology and Teacher Education, San Antonio, TX.
- Niederhauser, D. S., & Stoddard, T. (1994, April). *Teachers' perspectives on computer-assisted instruction: Transmission versus construction of knowledge*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
- Niederhauser, D. S., & Stoddard, T., (1994, March). *The influence of teachers' beliefs about computer-assisted instruction on their practice*. Paper presented at the annual meeting of the Society for Technology and Teacher Education, Washington, DC.
- Statler, D., Stoddard, T. & Niederhauser, D. S. (1994, March). *Beginning teachers' perspectives on didactic and conceptual approaches to science teaching*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Anaheim, CA.
- Stoddard, T., Niederhauser, D. S., & Mergendoller, J. (1993, April). *Hardware alone won't do it: Findings from the evaluation of the Utah Technology Initiative regarding classroom computer utilization*. Paper presented at the annual meeting of the American Educational Research Association, Atlanta, GA.
- Stoddard, T., Niederhauser, D. S., & Mergendoller, J. (1993, March). *School restructuring through an educational technology initiative: One state's experience*. Paper presented at the annual meeting of the Society for Technology and Teacher Education, San Diego, CA.
- Niederhauser, D. S., & Stoddard, T. (1992, April). *The development of teacher perspectives on using microcomputers to teach mathematics*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.

- Niederhauser, D. S., & Stoddart, T. (1992, March). *Integrating technology with elementary mathematics: Effects of training and support*. Paper presented at the annual meeting of the Society for Technology and Teacher Education, Houston, TX.
- Niederhauser, D. S., & Reynolds, R. E. (1991, April). *The influence of metaphors on prose learning: Reconstructive versus processing explanations*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Dole, J. A., Niederhauser, D. S., & Hayes, M. T. (1991, April). *The use of reading in conceptual change in science*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Dole, J. A., Niederhauser, D. S., & Hayes, M. T. (1991, April). *Comprehension and conceptual change: Learning from science text*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Hayes, M. T., Niederhauser, D. S., & Dole, J. A. (1991, April). *Learning from science instructional texts in domains of interest and non-interest*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Brown, K., Reynolds, R. E., Trathen, W., & Niederhauser, D. (1990, April). *Successful and less successful readers commitment to a strategy*. Paper presented at the annual meeting of the American Educational Research Association, Boston, MA
- Dole, J. A., Hayes, M. T., & Niederhauser, D. S. (1990, April). *Good readers' text processing strategies and their conceptual change learning from science text*. Paper presented at the annual meeting of the American Educational Research Association, Boston, MA.
- Baker, D. R., Piburn M. D., & Niederhauser, D. S. (1990, April). *If I were the teacher . . . students attitudes toward the science curriculum*. Practical applications award paper presented at the annual meeting of the National Association for Research in Science Teaching, Atlanta, GA.
- Dole, J. A., & Niederhauser, D. S. (1989, November). *The effects of refutation and considerate texts on learning conceptually easy and difficult science concepts*. Paper presented at the annual meeting of the National Reading Conference, Austin, TX.
- Dole, J. A., & Niederhauser, D. S. (1989, November). *Progress reports on teacher education reform projects: A reading education perspective, University of Utah project*. Panel discussion at the annual meeting of the National Reading Conference, Austin, TX.
- Niederhauser, D. S., & Reynolds, R. E. (1989, March). *Metaphors in texts: Effects of unusualness and figurativeness*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
- Niederhauser, D. S. & Baker, D. R. (1989, March). *What did you do in science class today? Children's perceptions of what they do in the classroom*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, San Francisco, CA.

### **State and Local**

- Niederhauser, D. S. (2007, October). *Classroom technology use and NETS\*S: Are we meeting students' needs?* Paper presented at the annual meeting of the Iowa Technology and Education Connection conference, Des Moines, IA.

- Davis, N., Niederhauser, D., & Compton, L. (2004, October). *Good practice for K-12 distance education using exemplary case studies*. Paper presented at the annual meeting of the Iowa Technology and Education Connection conference, Des Moines, IA.
- Niederhauser, D. S., Davis, N., & Compton, L. (2003, October). *Teaching at a distance: Case studies in Iowa*. Paper presented at the annual meeting of the Iowa Technology and Education Connection conference, Des Moines, IA.
- Niederhauser, D. S. & Lindstrom, D. (2003, October). *Classroom technology integration: Teachers' stories about successful activities*. Paper presented at the annual meeting of the Iowa Technology and Education Connection conference, Des Moines, IA.
- Niederhauser, D. S., & Wetzel, K. (2003, April). *Publishing in technology and teacher education: Outlets and strategies*. Paper presented at the meeting of the Modeling Instruction with Modern Information and Communication Technologies conference, Cleveland, OH.
- Niederhauser, D. S., & Lindstrom, D. L. (2002, October). *Classroom technology use: Teacher's stories about what works*. Paper presented at the annual meeting of the Iowa Technology and Education Connection conference, Des Moines, IA.
- Wade, S. E., & Niederhauser, D. S. (1997, November) *Using case studies and Internet newsgroups to examine issues of diversity in a teacher education course*. Paper presented at the annual meeting of the Utah ASCD, Park City, Utah.

## OTHER SCHOLARLY ACTIVITY

### Editorial and Review Boards

- 2016-Present **Editorial Review Board**, Journal of Research on Technology in Education, International Society for Technology in Education.
- 2015-Present **Board of Consulting Editors**, Educational Technology Research and Development, Association for Educational Communications and Technology.
- 1997-Present **Editorial Review Board**, Journal of Technology and Teacher Education, Association for the Advancement of Computing in Education.
- 2014-2015 **Editorial Advisory Board**, for: Niess, M. L., & Gillow-Wiles, H. (2015). Handbook of Research on Teacher Education in the Digital Age (2 Volumes) (pp. 1-811). Hershey, PA: IGI Global. doi:10.4018/978-1-4666-8403-4
- 1995-2015 **Editorial Review Board**, Journal of Digital Learning in Teacher Education (prior to 2010 Journal of Computing in Teacher Education), International
- 1996-2000 **Editorial Review Board**, Reading On-Line Electronic Journal, National Reading Conference.

### Ad Hoc Journal Review

- 2007-2009 **Reviewer**, Educational Psychologist.
- 2011-2013 **Reviewer**, Computers & Education.
- 2003 **Reviewer**, Educational Psychology Review.
- 1993-1997 **Reviewer**, Journal of Technology and Teacher Education, Society for Information Technology and Teacher Education.

### Conference Proposal Review

- 2005-Present **Proposal Reviewer**, Technology as an Agent of Change in Teaching and Learning Special Interest Group, American Educational Research Association.
- 1997-Present **Proposal Reviewer**, Concurrent Paper Sessions, National Educational Computing Conference.
- 2008 **Proposal Reviewer**, Computer and Internet Applications in Education Special Interest Group, American Educational Research Association.
- 2011, 2008, 1991-2003 **Proposal Reviewer**, Division C, American Educational Research Association.
- 2001-2006 **Proposal Reviewer**, Society for Information Technology and Teacher Education Annual Conference.
- 1992-2003 **Proposal Reviewer**, Division K Program Committee, American Educational Research Association.
- 2003 **Proposal Reviewer**, American Psychological Association Annual Conference.
- 1998-2000 **Proposal Reviewer**, Special Interest Group for Teacher Educators, International Society for Technology in Education Research Award.

#### **Grant Review**

- 2011 **Proposal Reviewer**, Directorates for Computer & Information Science and Engineering, Social Behavioral & Economics Sciences, Education and Human Resources; National Science Foundation.
- 1997 **Proposal Reviewer**, United States Department of Education OERI Challenge Grants Program.

#### **Faculty Promotion External Review**

- 2014 Candidate for Promotion to Professor, School of Family Studies and Human Services, College of Human Ecology, Kansas State University.

### **TEACHING**

#### **WEST VIRGINIA UNIVERSITY**

##### **Major Professor for Doctor of Education Students**

- 2015 Gregg Busch C&I/LS Dean of Liberal Arts, North Central State College (Ohio).

Dissertation: Improving Community College Student Success through Investment of a Community Capitals Framework: A Multi-case Study

##### **Major Professor for Doctor of Philosophy Students**

- In Progress Ashley Murphy C&I/LS

#### **IOWA STATE UNIVERSITY**

##### **Graduate Courses**

CI 501	Foundations of Learning Technologies
CI 503	Theories of Designing Effective Teaching and Learning Environments
CI 511	Technology Diffusion, Leadership & Change
CI 601	Foundations of Educational Inquiry
CI 602	Educational Inquiry in Practice
CI 615b	Seminar in Curriculum & Instructional Technology

### **Undergraduate Courses**

CI 201	Introduction to Instructional Technology
CI 202	Learning Technologies in the 7-12 Classroom
CI 280B	Field Experience: Learning Technologies
CI 302	Principles and Practices of Using Learning Technologies
CI 454X	Emerging Topics in Learning Technologies: Writing a Grant for Technology in the Classroom
CI 416/417	International Student Teaching: Rome, Italy

### **Awards received by Graduate Students**

2010	Vanessa Preast	Teaching Excellence Award C&I, Iowa State University
2007	Pavlo Antonenko	Research Excellence Award C&I, Iowa State University
2007	Denise Lindstrom	Teaching Excellence Award C&I, Iowa State University
2007	Serkan Perkmen	Teaching Excellence Award C&I, Iowa State University

### **Major Professor for Doctor of Philosophy Students**

2012	Denise Lindstrom	C&IT	Asst. Professor, West Virginia University. Dissertation: Schoolgirls in cyberspace: A cross-case analysis of the literacy practices of three fifth-grade girls in a social network site.
2012	Vanessa Preast	C&IT	Digital Accessibility and Instructional Specialist, Des Moines University. Dissertation: Team trust and performance over time when using Team-Based Learning. [Co-major Professor with Jared Danielson]
2008	Serkan Perkmen	C&IT	Assoc. Professor, Balikesir University. Dissertation: Factors that influence pre-service teachers' technology integration performance.
2007	Pavlo D. Antonenko	C&IT/HCI	Assoc. Professor, University of Florida. Dissertation: The effect of leads on cognitive load and learning in a conceptually rich hypertext environment.
2007	Serkan Toy	C&IT	Research Asst. Professor, University of Kansas-School of Medicine. Wichita. Dissertation: Online ill-structured problem-solving strategies and their influence on problem-solving performance.
2006	M. Tuncay Saritas	C&IT	Asst. Professor, Balikesir University.

Dissertation: Computer-mediated communication in higher education: An exploration of knowledge construction.

2005	Jon Clausen	C&IT	Assoc. Professor, Ball State University.
			Dissertation: Integration of technology into the instructional practice of new teachers: Case studies of beginning teachers' use of technology. [Co-major Professor with Ann Thompson]

#### **Committee Member for Doctoral Students**

2016	Joshua Mitchell		Higher Education
2010	Jerrid Kruse		PhD in Curriculum & Instruction
2009	Lori Brunner		PhD in Curriculum & Instructional Technology
2009	John O'Connell		PhD in Curriculum & Instructional Technology
2007	Lara Hagenson		PhD in Curriculum & Instructional Technology
2007	Ellis Ott		PhD in Curriculum & Instructional Tech/Statistics
2006	Julio Rodriguez		PhD in Curriculum & Instructional Technology
2004	Pam Ewell		PhD in Curriculum & Instructional Technology
In Progress	Sam Van Gillern		Curriculum & Instruction

#### **Major Professor for Master's Degree Students**

2009	David Braet	MS	C&IT	
				Thesis: Principles for designing online self-paced corporate training.
2003	Denise Lindstrom	MS	C&IT	
				Thesis: Connected schools: Student reading motivation and computer mediated communication.
2013	Crystal Wolfer	MEd	C&IT	
2011	Lindsay Erickson	MEd	C&IT	
2011	Daniel Mourlam	MEd	C&IT	
2009	Brandon Morton	MEd	C&IT	
2009	Diana Mandernach	MEd	C&IT	
2007	Jamie Swift	MEd	C&IT	
2005	Rozana Labineh	MEd	C&IT	
In Progress	Jessie Christensen	MS	C&IT	

#### **Committee Member for Master's Degree Students**

2014	Rachel Finken	MEd	C&IT
2013	Lisa Gestrine	MEd	C&IT
2013	Kegeng Liu	MFA	ARTGR
2013	Marissa Dahl	MEd	C&IT
2013	Katie Weber	MEd	C&IT
2011	Kim Topp	MFA	ARTGR
2011	Collin Reichert	MS	MTEOR
2011	Aaron Hamann	MEd	C&IT

2011	Robert Munson	MEd	C&IT
2011	Marian Raum	MEd	C&IT
2010	Dai-Trang Le	MS	STAT
2010	Ahmad Al Kofhai	MEd	C&IT
2009	Tigon Woline	MS	AGRON
2009	Julie Weeda	MEd	C&IT
2009	Wendy Quam	MEd	C&IT
2007	Caroline Seward	MEd	FCEDS
2004	Kristi Edwards	MS	AG ED
2004	Gail Wortmann	MEd	ELPS

### **Mentoring**

2014-	Mentor for Keri Valentine, Flexible Education Resource Network New-faculty Mentor. West Virginia University.
2010-2013	Mentor for Isaac Gottesman, New-faculty Mentor Program. Iowa State University.
2007-2008	Postdoctoral Fellow Mentor for Serkan Toy, Iowa State University.
2004	External Mentor for Dan Cernusca ,Preparing Future Faculty Program for University of Missouri doctoral student.

### **Workshops/Seminars**

2011	<i>Using ThinkSpace to Present Contextualized Problems.</i> Workshop conducted for the Iowa State University Center for Excellence in Learning and Teaching.
2010	<i>Using Problem-based Learning in the University Classroom.</i> Workshop conducted for the Iowa State University Center for Excellence in Learning and Teaching.
2009	<i>Using PollEverywhere as an Alternative to Clickers in the University Classroom.</i> Workshop conducted for the Iowa State University Center for Excellence in Learning and Teaching.
2007	<i>Information Literacy Workshop.</i> Gilbert Central School District, Gilbert, IA.
2007	<i>New Faculty Orientation: Using the Problem-Solving Learning Portal to Promote Real-world Problem-solving.</i> Workshop conducted for the Iowa State University new faculty orientation.
2002	<i>Assess technology-using teachers: Using NETS for teachers, performance standards, and portfolios.</i> Workshop conducted at the annual meeting of the National Educational Computing Conference, San Antonio, TX.
2002	<i>Publishing in technology and teacher education: Outlets and strategies.</i> Workshop conducted at the Preparing Tomorrow's Teachers to use Technology sponsored Modeling Instruction with Modern Information and Communication Technologies conference, Cleveland, OH.

## **UNIVERSITY OF UTAH**

### **Graduate Courses**

EdSt 6740	Issues in the Design of Instructional Courseware
EdSt 6700	Learning and Instruction

EdSt 680-3 Technology and Learning  
 EdSt 680-1 Technology in the Mathematics Classroom

### **Undergraduate Courses**

EdSt 5140 Educational Applications of Technology  
 EdSt 449 Science Methods  
 EdSt 201 Introduction to Teaching

### **Major Professor for Master's Degree Students**

2001	Rachel Kamb	MS	C&I	
				Thesis: The influence of self-efficacy and peer status on technology-based small group interactions.
2000	Brian Ferguson	MEd	C&I	
1998	Patricia Perkins	MEd	C&I	
1997	Jeanette Raymer	MEd	C&I	
1996	Dan Kauwell	MEd	C&I	

### **Committee Member for Master's Degree Students**

2001	Julie Kittleson	MS	C&I	
2000	Matt Fields	MS	C&I	
1999	James Baumgarten	MEd	C&I	
1999	Craig Barlow	MEd	C&I	
1998	Judy Tateyama	MEd	C&I	
1997	Teresa Hislop	MEd	C&I	
1997	Teresa Curley	MEd	C&I	
1997	Heather Hansen	MEd	C&I	
1997	Rebecca Brady	MEd	C&I	
1997	Mark Ethridge	MEd	C&I	
1996	Marcia Rogers	MEd	C&I	
1996	Norma Boyce	MEd	C&I	
1996	Judith Burbank	MEd	C&I	
1996	Monica Armitage	MEd	C&I	
1996	Carolyn Whicher	MEd	C&I	
1996	Wynde Klauer	MEd	C&I	
1995	Lawerence Madden	MEd	C&I	
1995	Nancy Hanson	MEd	C&I	

## **SERVICE**

### **SERVICE TO PROFESSION**

#### **National and International Leadership**



- 2016-Present **Working Group Leader**, *EDUsummIT 2017*, International Summit on ICT in Education, Thematic Working Group 9: Sustainability and scalability in research approaches, Borovets, Bulgaria.
- 2014-2016 **Secretary/Treasurer**, Technology, Instruction, Cognition & Learning Special Interest Group, American Educational Research Association.
- 2014-2015 **Working Group Leader**, *EDUsummIT 2015*, International Summit on ICT in Education, Working Group 7: Indicators of Quality Technology-Enhanced Learning and Teaching, Bangkok, Thailand.
- 2014-2015 **Program Committee Member**, *EDUsummIT 2015*, International Summit on ICT in Education, Bangkok, Thailand.
- 2014 **Standard-setting Committee Member**, Early Childhood Education Praxis Examination, Educational Testing Service, Princeton, NJ.
- 2013 **Working Group Leader**, *EDUsummIT 2013*, International Summit on ICT in Education, Working Group 7: Observatories for ICT research in education, Washington, DC.
- 2013 **Program Committee Member**, *EDUsummIT 2013*, International Summit on ICT in Education, Washington, DC.
- 2013 **ISTE SIGTE Representative**, National Technology Leadership Summit, Washington, DC.
- 2011 **US Delegation Representative**, *EDUsummIT 2011*, International Summit on ICT in Education, Working Group 8: Researching IT in Education, UNESCO Headquarters, Paris, France.
- 2010-2011 **Program Chair**, Division C: Learning and Instruction, Section 7: Technology Research, American Educational Research Association.
- 2010-2011 **Past-Chair**, Technology as an Agent of Change in Teaching and Learning Special Interest Group, American Educational Research Association.
- 2010 **ISTE SIGTE Representative**, National Technology Leadership Summit, Honolulu, HI.
- 2009-2010 **Chair**, Technology as an Agent of Change in Teaching and Learning Special Interest Group, American Educational Research Association.
- 2008-2009 **Vice-chair**, Technology as an Agent of Change in Teaching and Learning Special Interest Group, American Educational Research Association.
- 2007-2008 **Program Chair**, Technology as an Agent of Change in Teaching and Learning Special Interest Group, American Educational Research Association.
- 2004-2006 **Research Chair**, Special Interest Group for Teacher Educators, International Society for Technology in Education.
- 2000-2003 **Special Interest Group for Teacher Educators Representative**, Special Interest Group Council, National Educational Computing Conference.
- 2000-2002 **President**, Special Interest Group for Teacher Educators, International Society for Technology in Education.

### **Community and State Leadership**

- 2014-present **Member**, West Virginia High Quality Educator Stakeholder Committee, West Virginia Department of Education, Charleston, WV.

- 2014-present **Member**, West Virginia Teacher Education Advisory Committee, West Virginia Department of Education, Charleston, WV.
- 2014-2016 **Member**, Teacher Performance Assessment Test Project, West Virginia Department of Education, Charleston, WV.
- 2015-2016 **Member**, Clinical Partnerships Committee, West Virginia Center for Professional Development, Charleston, WV.
- 2012-2013 **Board Member**, Iowa Association of Colleges of Teacher Education (IACTE).
- 2005-2013 **Advisory Board Member**, Technology Committee, Gilbert Central School District, Gilbert, IA.
- 1995-2001 **Member**, Technology Coordinating Council, Utah State Office of Education.
- 1995-2001 **Member**, Educational Technology Initiative Technical Review Committee, Utah State Office of Education.
- 1999-2001 **Higher Education Representative**, Instructional Technology Core Revision Executive Committee—Technology, Utah State Office of Education.
- 1999-2001 **Reviewer**, Technology Literacy Challenge Fund Professional Development Grants, Utah State Office of Education.
- 1996 **Member**, Computer Literacy Instructional Materials Advisory Board, Utah State Office of Education.
- 1995 **Reviewer**, Higher Education Educational Technology Initiative Grants Program, Utah State Office of Education.
- 1993 **Member**, Teacher Technology Competencies Committee, Utah State Office of Education.
- 1991-93 **Member**, Board of Directors, Community Cooperative Nursery School, Salt Lake City, UT.

### **Local, National, and International Conference Activity**

- 2016 **Session Chair**, *Learning Communities and Web Service Technologies*. At the Cognition and Exploratory Learning in Digital Age International Conference, Mannheim, Germany.
- 2016 **Session Chair**, *Exploratory Technologies*. At the Cognition and Exploratory Learning in Digital Age International Conference, Mannheim, Germany.
- 2016 **Session Chair**, *Learning and Engagement in Online Educational Settings*. At the annual meeting of the American Educational Research Association, Washington, DC.
- 2014 **Panel Moderator**, *Student Voices*. At the West Virginia Statewide Technology Conference, Morgantown, WV.
- 2013 **Session Chair**, *Internet and Communication Technologies (ICT) Research Methodologies*. At the World Conference for Computers in Education, Torun, Poland.
- 2013 **Session Chair**, *Digital Literacies*. At the annual meeting of the American Educational Research Association, San Francisco, CA.
- 2013 **Conference Organizer**, *Iowa Association of Colleges of Teacher Education Spring Conference*. Primary responsibility to host and organize the Spring conference

with over 130 participants from 32 Iowa universities that prepare preservice teachers.

- 2011 **Session Chair**, *Wikis and Technology Use in Writing and Language Learning*. At the annual meeting of the American Educational Research Association, New Orleans, LA.
- 2009 **Discussant**, *Perceptions About Technology: Attitudes, Concerns, and Efficacy*. At the annual meeting of the American Educational Research Association, San Diego, CA.
- 2008 **Session Chair**, *Examining the relationship between teaching and students' problem-solving skills and Examining how teachers implement a multimedia-enriched problem-based learning environment*. At the annual meeting of the National Educational Computing Conference, San Antonio, TX.
- 2007 **Discussant**, *Ubiquitous Computing Research: Explicating the Current Considerations*. At the annual meeting of the American Educational Research Association, Chicago, IL.
- 2007 **Session Chair**, *Technology in K-12 Schools and Classrooms*. At the annual meeting of the American Educational Research Association, Chicago, IL.
- 2006 **Conference Organizer**, *Turkish Student Internship Project Alumni Conference*. Primary responsibility to plan and conduct a US Department of State sponsored conference in Ankara, Turkey for over 100 participants including US Ambassador to Turkey Ross Wilson and Bilkent University Rector Ali Dogramaci.
- 2006 **Symposium Organizer**, *Preparing teachers for the distance learning classroom: Evaluation of the TEGIVS project*. At the annual meeting of the American Educational Research Association, San Francisco, CA.
- 2005 **Symposium Organizer**, *Evaluating technology professional development: Principles and practices for scientific research*. At the annual meeting of the National Educational Computing Conference, Philadelphia, PA.
- 2004 **Discussant & Session Chair**, *Computer Applications in Education*. At the annual meeting of the American Educational Research Association, San Diego, CA.
- 2003 **Conference Organizer**, *International Conference on Higher Education Innovation*. Assisted in planning and conducting a US Department of State sponsored conference in Kiev, Ukraine for over 300 participants including representatives from the United States, Eastern and Western Europe, and Asia.
- 2001 **Symposium Organizer**, *ISTE Technology & Teacher Education preconference symposium*. At the annual meeting of the National Educational Computing Conference, Chicago, IL.
- 1999 **Symposium Organizer**, *Reading comprehension with hypertext: The effect of strategic sophistication and metacognitive awareness on navigational profile*. At the annual meeting of the Society for the Scientific Study of Reading, Montreal, Canada.
- 1998 **Session Chair**, *Use of telecommunications in preservice teacher education*. At the annual meeting of the American Educational Research Association, San Diego, CA.

1997            **Session Chair**, *Supporting learning in constructivist learning environments*. At the annual meeting of the American Educational Research Association, Chicago, IL.

## SERVICE TO INSTITUTIONS

### West Virginia University

2016-present    **Member**, Assistant and Associate Deans' Council.  
 2016-present    **Member**, International Affairs Council.  
 2016-present    **Chair**, Educational Personnel Preparation Advisory Committee.  
 2014-present    **Member**, Professional Education Coordinating Council.  
 2014-present    **Member**, College of Education and Human Services Leadership Team/Deans and Chairs Advisory Committee.  
 2014-2016       **Member**, Educational Personnel Preparation Advisory Committee.  
 2015              **Member**, College of Education and Human Services Search Committee: Assistant Dean for Advising and Student Records.  
 2015              **Member**, College of Education and Human Services Search Committee: Department Chair for Learning Science Human Development.  
 2015-present    **Member**, College of Education and Human Services Ad hoc Committee to Revise College Doctoral Programs.  
 2015-present    **Chair**, Department of Curriculum & Instruction/Literacy Studies Leadership Council  
 2015-present    **Member**, Department of Curriculum & Instruction/Literacy Studies Ad hoc Teacher Education Program Revisioning committee.

### Iowa State University

2007-2013      **Member**, Problem Solving Outcome Group.  
 2008-2011      **Member**, Graduate Council [elected].  
 2009-2010      **Member**, Graduate Council Ad Hoc Committee on Program of Study Committees.  
 2008-2009      **Member**, Graduate Council Ad Hoc Committee on Graduate Assistant Issues.  
 2008-2009      **Member**, Human-Computer Interaction Search Committee.  
 2002,            **Faculty Representative**, Curriculum and Instruction, Iowa State University  
 2004-2013      Spring Convocation.

### Iowa State University College of Human Sciences

2011-2013      **Member**, Educator Preparation Coordinating Council.  
 2012-2013      **Member**, Educator Preparation Coordinating Council Selection and Retention Committee.  
 2011-2013      **Member**, Early Childhood Education Coordinating committee.

- 2008-2013 **Member**, College of Human Sciences Technology Committee.  
 2011-2012 **Member**, School of Education Director Search Committee.  
 2011-2012 **Lead Faculty Marshall**, College of Human Sciences Convocation.  
 2004-2011 **Faculty Marshall**, College of Education/College of Human Sciences Convocation.  
 2007-2011 **Member**, College of Human Sciences Computation Advisory Committee.  
 2001-2002 **Member**, Early Childhood Education Coordinating Committee.

### Iowa State University Curriculum & Instruction Department/School of Education

- 2011-2013 **Chair**, Undergraduate Studies Committee.  
 2012-2013 **Member**, School of Education Executive Team.  
 2012-2013 **Chair**, STEM Education Search Committee.  
 2013 **Member**, Governance Document Committee.  
 2013 **Member**, Director of Teacher Education Advisory Council.  
 2012 **Member**, Task Force on Committees.  
 2011-2012 **Chair**, Mathematics Education Search Committee.  
 2007-2011 **Team Leader**, Curriculum and Instructional Technology.  
 2007-2011 **Chair**, Computation Advisory Committee.  
 2008-2011 **Member**, Department Advisory Committee [elected].  
 2010-2011 **Chair**, Literacy Education Search Committee.  
 2010-2011 **Member**, Educational Technology Search Committee.  
 2009-2010 **Chair**, Foundations (History, Philosophy and Comparative Studies in Education) search committee.  
 2008-2009 **Member**, Director of Center for Technology in Learning and Teaching Search Committee.  
 2005-2008 **Member**, Curriculum and Instruction Graduate Committee.  
 2002-2005 **Member**, Curriculum and Instruction Advisory Committee [elected].  
 2001-2005 **Member**, Center for Technology in Learning and Teaching Advisory Board.  
 2004-2005 **Member**, Educational Technology Search Committee.  
 2004, 2006 **Symposium Organizer**, Arranged ISU CIT special symposium featuring speaker Dr. David Jonassen.  
 2003-2004 **Member**, Educational Technology Search Committee.  
 2002-2003 **Member**, Mathematics Search Committee.

### University of Utah

- 1998-1999 **Chair**, Jon M. Huntsman Center Committee.  
 1996-1998 **Member**, Jon M. Huntsman Center Committee.  
 1997 **Reviewer**, Faculty Research Grant Program.

1991-93 **Member**, Academic Senate Executive Committee.

1989-93 **Member**, Academic Senate.

#### **University of Utah College of Education**

1998-2001 **Department Representative**, Faculty Advisory Committee on Technology.

1995-1998 **Department Representative**, Technology Working Group.

1996 **Member**, Scholarship Awards Committee.

1995 **University of Utah Delegate**, Technology Enhanced Schools Committee, Utah State Office of Education, Salt Lake City, UT.

1993-95 **Department Representative**, Technology Advisory Committee.

#### **University of Utah Teaching and Learning Department**

1995-1999 **Member**, Graduate Committee.

1999 **Chair**, Ad hoc committee to examine Merit Review Process.

1999 **Acting Chair**, Learning and Instruction specialty area.

1999 **Chair**, Teacher Education and Technology Search Committee.

1999 **Member**, Teacher Education Search Committee.

1995, 1999 **Member**, Merit Committee.

1998 **Evaluator**, Department Course Evaluation Pilot.

1998 **Member**, Technology Search Committee.

1996, 97, 98 **Member**, Mathematics Search Committee.

1997-1998 **Member**, Course Evaluation Committee.

1996-1998 **Member**, Curriculum Library Task Force.

1997,1998 **Member**, Elementary Admissions Committee.

1997 **Member**, Computer Science Teaching Minor Development Committee.