

VITA
RICHARD H. HALL

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Information Science and Technology
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Educational History

1988 Ph.D., Experimental Psychology
 Texas Christian University, Fort Worth, Texas
1986 M.S., Experimental Psychology
 Texas Christian University, Fort Worth, Texas
1984 B.A., Psychology
 University of North Texas, Denton, Texas

Professional Experience

2007 – Program Director, Information Science and Technology, Missouri
present University of Science and Technology
2007 – Director, Center for Technology Enhanced Learning, Missouri
present University of Science and Technology
2004 - present Professor, Information Science and Technology, Missouri
 University of Science and Technology
2003 - 2007 Associate Dean for Research, School of Management and
 Information Systems, Missouri University of Science and
 Technology
2002 – 2004 Associate Professor, Information Science and Technology, Missouri
 University of Science and Technology
1994 – 2002 Associate Professor, Psychology, Missouri University of Science and
 Technology
1988 – 1994 Assistant Professor, Psychology, Missouri University of Science and
 Technology
1988 Instructor, General Psychology, Texas Christian University
1987 – 1988 Barnett Graduate Fellow, Texas Christian University
1984 – 1987 University Graduate Fellow, Texas Christian University

Academic Honors

1984-1987 Graduate Fellowship, Department of Psychology, Texas Christian

University
 1987-1988 Barnett Fellowship (for outstanding PhD candidate), Department of Psychology, Texas Christian University

Teaching and Research awards

- University of Missouri-Rolla Outstanding Teaching Awards (1990)
- American Psychological Association, Division 2, Office of Teaching Resources, National Instructional Research Award for the project, *Guided Exploration: Development and Assessment of a Physiological Psychology World Wide Web Interface (1999)*
- University of Missouri Rolla Faculty Excellence Award (1998 & 1999)
- E-Learn Outstanding Paper Award for “Training in Affectively Intense Virtual Environments”, 2004

Journal Board Memberships

1990-2001 Journal of Experimental Education, Consulting Editor
 1998-2000 Virtual University Journal, Editorial Advisory Board Member
 1997-present CyberPsychology and Behavior, Editorial Board
 (Guest Editor for special issue, *The Virtual University: Education, Hypermedia, and the World Wide Web*, 3(1), 2000)

Other Journals Reviewed for

- Journal of Experimental Education
- Journal of Reading Behavior
- Contemporary Educational Psychology
- Teaching of Psychology
- Learning and Individual Differences
- Journal of Educational Computing Research
- Behavior and Information Technology
- IEEE Software

Professional Organization Membership

- American Society for Information Science and Technology
 - SIG: Human-Computer Interaction
- Association for the Advancement of Computing in Education
- Association for Computing Machinery
 - SIGCHI: Computer-Human Interaction
- Association for Engineering Education
- Association for Information Systems
 - SIG: Human-Computer Interaction
- Usability Professionals' Association

Grants Funded by External Sources (overall: \$10,800,185; Hall %: \$1,378,571)

1. *Guided Exploration: Development and Assessment of a Physiological Psychology World Wide Web Interface*. American Psychological Association, Society for Teaching of Psychology, Office of Teaching Resources for Psychology, Instructional Research Awards (1998) (\$1,500) (Hall, PI, 100%).
2. *Advanced Materials for Civil Infrastructures: Multidisciplinary Curriculum Development*. National Science Foundation (1999 - 2001) (\$400,000). Hall (Co-PI, 20%) (Watkins, S., PI).
3. *Development of a Virtual and Augmented Reality System for Research in Intelligent Design and Manufacturing*. National Science Foundation (2000 – 2003) (\$431, 401). Hall (Co-PI, 5%) (Leu, M., PI).
4. *Taking the Next Step In Engineering Education: Integrating Educational Software and Active Learning*. United States Department of Education. (2001 - 2004) (\$423,785). Hall (Co-PI, 20%) (Philpot, T., PI).
5. *Doctoral training in civil infrastructure engineering*. United States Dept. of Education. (2001 – 2004) (\$327,600). Hall (Co-PI, 10%) (Belarbi, D.J., PI).
6. *Advanced virtual environments for first responders*. U.S. Army Tank-Automotive and Armaments Command (TACOM). (2002 – 2003). (\$1,050,000). Hall (Co-PI, 10%) (Leu, M., PI).
7. *University Transportation Center – Advanced Materials and Non-Destructive Testing Technologies*. United States Dept. of Transportation. (2002 – 2005). (\$916,300). Hall (Co-PI, 2%) (Nanni, T., PI).
8. *Learning System to Integrate GIS into Civil Engineering Curricula*. National Science Foundation (2004 – 2005). (\$74,935). Hall (Co-PI, 30%) (Luna, R., PI)
9. *Evaluation of Human in the Loop Performance for Airborne Mine and Minefield Detection*. U.S. Army Night Vision and Electronic Sensors Directorate (NVESD). (2004). (\$78,479). Hall (Co-PI, 30%) (Agarwal, S., PI)
10. *Western U.S. Mining Safety and Health Training and Translation Center*. National Institute for Occupational Safety and Health (NIOSH). (2004 – 2009). (\$3,241,573). Hall (Co-PI 16.4%) (Grayson, L. PI)
11. *Enhancing Engineering Mechanics Instruction with Interactive 3D Virtual Models*. National Science Foundation. (2005 - 2007). (\$398,135). Hall (Co-PI 25%) (Philpot, T. PI)
12. *International Research Experience for Students (IRES) in Emerging Construction Technologies*. National Science Foundation. (2006 – 2007) (\$149,999). Hall (Co-PI 4%) (Myers, J. PI)
13. *Introduction of GIS into Civil Engineering Curricula*. National Science Foundation (2007 – 2010) (\$499,794). Hall (Co-PI 15%) (Luna, R., PI)
14. *CCLI: Development and Evaluation of Simulation and Emulation Tools for Enhanced Manufacturing Automation Instruction*. National Science Foundation (2008-2010) (\$149,988). Hall (Co-PI 25%) (Landers, R., PI)
15. *Advanced Electric Drive Vehicles – A Comprehensive Education, Training, and Outreach Program*. United States Department of Energy (2010-2012) (\$2,657,481). Hall (Co-PI 9%) (Ferdowski, M., PI)

Publications in Peer Reviewed Journals

1. Lambiotte, J. G., Dansereau, D. F., O'Donnell, A. M., Young, M. D., Skaggs, L. P., Hall, R. H., & Rocklin, T. R. (1987). Manipulating cooperative scripts for teaching and learning. *Journal of Educational Psychology, 79*, 424-430.
2. O'Donnell, A. M., Dansereau, D. F., Hall, R. H., & Rocklin, T. R. (1987). Cognitive, social/affective, and metacognitive outcomes of cooperative learning. *Journal of Educational Psychology, 79*, 431-437.
3. Hall, R. H., Rocklin, T. R., Dansereau, D. F., Skaggs, L. P., O'Donnell, A. M., Lambiotte, J. G., & Young, M. D. (1988). The role of individual differences in the cooperative learning of technical material. *Journal of Educational Psychology, 80*, 172-178.
4. Lambiotte, J. G., Dansereau, D. F., O'Donnell, A. M., Young, M. D., Skaggs, L. P., & Hall, R. H. (1988). Effects of cooperative script manipulations on initial learning and transfer. *Cognition and Instruction, 5*, 103-121.
5. O'Donnell, A. M., Dansereau, D. F., Hythecker, V. I., Hall, R. H., Skaggs, L. P., Lambiotte, J. G., & Young, M. D. (1988). Cooperative procedural learning: The effects of prompting and pre - versus distributed planning activities. *Journal of Educational Psychology, 80*, 161-171.
6. O'Donnell, A. M., Dansereau, D. F., Rocklin, T. R., Hythecker, V. I., Young, M. D., Hall, R. H., Skaggs, L. P., & Lambiotte, J. G. (1988). Promoting functional literacy through cooperative learning. *Journal of Reading Behavior, 20*, 339-356.
7. Hall, R. H., Dansereau, D. F., & O'Donnell, A. M. (1989). Subjective graphing of metacognitive, affective and social processing: A psychometric analysis. *Journal of Experimental Education, 57*, 271 - 284.
8. Hall, R. H., Dansereau, D. F., O'Donnell, A. M., & Skaggs, L. P. (1989). The effect of textual errors on dyadic and individual learning. *Journal of Reading Behavior, 21*, 127-140.
9. Rewey, K. L., Dansereau, D. F., Skaggs, L. P., Hall, R. H., & Pitre, U. (1989). Effects of scripted cooperation and knowledge maps on the recall of technical material. *Journal of Educational Psychology, 81*, 604-609.
10. Skaggs, L. P., Rocklin, T. R., Dansereau, D. F., Hall, R. H., O'Donnell, A. M., Lambiotte, J. G., & Young, M. D. (1990). Dyadic learning of technical material: Individual differences, social interaction, and recall. *Contemporary Educational Psychology, 15*, 47-63.
11. O'Donnell, A. M., Dansereau, D. F., Hall, R. H., Skaggs, L. P., Hythecker, V. I., Peel, J. L., & Rewey, K. L. (1990). Learning concrete procedures: Effects of processing strategies and cooperative learning. *Journal of Educational Psychology, 82*, 171-177.
12. Hall, R. H., Dansereau, D. F., & Skaggs, L. P. (1990). The cooperative learner. *Learning and Individual Differences, 2*, 327-336.
13. Hall, R.H., Dansereau, D. F., & Skaggs, L. P. (1992). Knowledge maps and the presentation of related information domains. *Journal of Experimental Education, 61*, 5 - 18.
14. Hall, R.H., & Blair, R. (1993). Knowledge maps and spatial/verbal processing: A temporal analysis. *Perceptual and Motor Skills, 77*, 611-621.
15. Hall, R. H. & Sidio-Hall, M.A. (1994). The effect of color enhancement on

- knowledge map processing. *Journal of Experimental Education*, 62, 209 - 217.
16. Hall, R. H. & Sidio-Hall, M.A. (1994). The effect of student color coding of knowledge maps and test anxiety on student learning. *Journal of Experimental Education*, 62, 291 - 302.
 17. Hall, R. H. & O'Donnell, A. M. (1996). Cognitive and affective outcomes of learning from knowledge maps. *Contemporary Educational Psychology*, 21, 94-101.
 18. Hall, R. H. & Mancini, B. M. (1997). "Real life" scripted collaborative discussion within the context of a general psychology class. *Cooperative Learning and College Teaching*, 8(1), 9-10.
 19. Mancini, B. M., Hall, R. H., Hall, M. A., & Stewart, B. (1998). The individual in the dyad: A qualitative analysis of scripted cooperative learning. *Journal of Classroom Interaction*, 33(1), 14-22.
 20. Hall, R.H. (1999) Instructional web site design principles: A literature review and synthesis. *Virtual University Journal*, 2(1) 1 - 13.
 21. Hall, R. H., Hall, M. A., & Saling, C. B. (1999). The effects of graphical postorganization strategies on learning from knowledge maps. *Journal of Experimental Education*, 67(2), 101 – 112.
 22. Hall, R.H. & Hickman, L.L. (1999). Imagic and textual components of web page design: The role of gender in subjective ratings. *Virtual University Journal*, 2(2), 50 - 53.
 23. Hall, R.H. (2000). Education, hypermedia, and the world wide web: Old realities and new visions. *CyberPsychology and Behavior*, 3(1), 1 – 7.
 24. Evans, R.M., Murray, S.L., Daily, M., & Hall, R.H. (2000). Effectiveness of an Internet-Based Graduate Engineering Management Course. *Journal of Engineering Education*, 89(1), 63 – 71.
 25. Keyvan, S., Rossow, R., & Hall, R.H. (2000). Meeting learner's need via computer-based instruction in engineering education. *Transactions of the American Nuclear Society, NPIC & HMIT, Human Factors Issues in Engineering Education*, 782 – 790.
 26. O'Donnell, A.M., Dansereau, D.F., & Hall, R.H. (2002). Knowledge maps as scaffolds for cognitive processing. *Educational Psychology Review*, 14(1) 71-86.
 27. Watkins, S.E., Eller, V.E., & Hall, R.H. (2003). WWW Instructional Documentation for the Development of a Smart Composite Bridge. *International Journal of Continuing Engineering Education and Lifelong Learning*, 13(1/2), 180-189.
 28. Philpot, T.A., Hall, R.H., Hubing, N., Flori, R., Oglesby, D.B., Yellamraju, V. (2003). Animated Instructional Media for Stress Transformations in a Mechanics of Materials Course. *Computer Applications in Engineering Education*, 11, 40 – 52.
 29. Philpot, T.A. & Hall, R.H. (2003). The amazing stress camera: An interactive discovery experience. *Interactive Multimedia Electronic Journal of Computer-Enhanced Learning*, 5(1), <http://imej.wfu.edu/articles/2003/1/04/>.
 30. Philpot, T.A., Hubing, N., Flori, R.E., Hall, R.H., Oglesby, D.B., & Yellamraju, V. (2003). Computer-Based Instructional Media for Mechanics of Materials. *International Journal of Engineering Education*, 19(6), 862-873.
 31. Hall, R.H., Wilfred, L.M., Hilgers, M.G., Leu, M.C., Walker, C.P., Hortenstine, J.M. (2004). Virtual Terrorist Attack on the Computer Science Building: A Research Methodology. *Presence-Connect*, 4(4), <http://www.presence-connect.com>.

32. Hall, R.H. & Hanna, P. (2004). The Impact of Web Page Text-Background Color Combinations on Readability, Retention, Aesthetics, and Behavioral Intention. *Behavior and Information Technology*, 23(3), 183 – 195.
33. Sullivan, J.M., Hall, R.H., Luna, R., Hilgers, M.G., Taylor, A.J., & Buechler, M.R. (2004). Degree of scaffolding as learning object metadata: A prototype learning system design for integrating GIS into a civil engineering curriculum. *Learning Technology*, 6(2), 60 – 64.
34. Watkins, S.E., Hall, R.H., Chandrashekhara, K., Baker, J. (2004). Interdisciplinary Learning Through a Connected Classroom. *International Journal of Engineering Education*, 20(2), 176-187.
35. Philpot T.A. & Hall, R.H. (2005). The Role of MDSolids in International Mechanics of Materials Education. *International Journal of Engineering Education*, 21(2), 350 - 360.
36. Philpot, T.A., Hall, R.H., Hubing, N., Flori, R.E., & Yellamraju, V. (2005). Using Games to Teach Statics Calculation Procedures: Application and Assessment. *Computer Applications in Engineering Education*, 13(3), 222 – 232.
37. Philpot, T.A. & Hall, R.H. (2006). Animated Instructional Software for Mechanics of Materials: Implementation and Assessment. *Computer Applications in Engineering Education*, 14(1), 31-43.
38. Hall, R.H., Philpot, T., Hubing, N. (2006). Comprehensive Assessment of a Software Development Project for Engineering Instruction. *Journal of Learning, Technology, and Assessment*, 15(5), 4 – 42, <http://escholarship.bc.edu/jtla/vol5/5/>.
39. Truemper, J.M., Sheng, H., Hilgers, M., Hall, R., Kalliny, M., Tandon, B. (2008) Usability in Multiple Monitor Displays, *ACM SIGMIS Database*, 39, 74-89.

Publications in Peer Reviewed Journals Under Review

Luna, R., Hall, R., Hilgers, M., & Ge, L. (2009). A GIS Learning Tool for Civil Engineers. *International Journal of Engineering Education*, accepted pending revisions.

Publications in Peer Reviewed Proceedings

1. Hall, R.H. (1997). Guided Surfing: Development of a World Wide Web Interface for Teaching Undergraduate Psychology. *Proceedings of the third annual international North American Web Conference*, Fredericton, New Brunswick, Canada, 61-74.
2. Hall, R.H. & Stocks, E.L. (1998) Guided surfing: A multimethod assessment of a layered hypermap WWW interface. *Proceedings of WebNet98: World Conference on the WWW and Internet*, Orlando, Fl. paper #428.
3. Leu, M.C., Liou, F., McAdams, D.A., Allada, V., Ghahramani, B., Agarwal, S., & Hall, R. H. (2000). Planning of a multi-disciplinary rapid product realization program. *Proceedings of International Conference on Engineering Education*, Tapei, TAIWAN.
4. Eller, V.M., Watkins, S.E., Hall, R.H., Balestra, J., & Rao, A.S. (2001). Multimedia Web-based resources for Engineering Education: The Media Design and Assessment Laboratory at UMR. *Proceedings of the American Society of Engineering Education Conference*, Albuquerque, NM, paper # 713.

5. Watkins, S.E., Belarbi, A., Chandrashekhara, K., Corra, J., Eller, V., Hall, R.H., Konz, B., Molander, M.J., (2002). Interdisciplinary graduate experience: Lessons learned. *Proceedings of the American Society of Engineering Education Conference*, Montreal, Canada, http://www.asee.org/conferences/caps/document2/2002-1073_Paper.pdf.
6. Eckhoff, E., Eller, V., Hall, R.H., Watkins, S.E. (2002). Interactive Virtual Laboratory for Experience with a Smart Bridge Test. *Proceedings of the American Society of Engineering Education Conference*, Montreal, Canada, http://www.asee.org/conferences/caps/document2/2002-1471_Paper.pdf.
7. Hubing, N., Flori, R., Hall, R.H., Oglesby, D., Philpot, T., Yellamraju, V. (2002). Interactive learning tools: Animating Statics. *Proceedings of the American Society of Engineering Education Conference*, Montreal, Canada, http://www.asee.org/conferences/caps/document2/2002-1533_Paper.pdf.
8. Philpot, T., Flori, R., Hall, R.H., Hubing, N., Oglesby, D., Yellamraju, V. (2002). Interactive learning tools: Animating mechanics of materials. *Proceedings of the American Society of Engineering Education Conference*, Montreal, Canada, http://www.asee.org/conferences/caps/document2/2002-1527_Paper.pdf.
9. Flori, R.E., Oglesby, D.B., Philpot, T.A., Hubing, N., Hall, R.H., & Yellamraju, V. (2002). Incorporating Web-Based Homework Problems in Engineering Dynamics. *Proceedings of the American Society of Engineering Education Conference*, Montreal, Canada, http://www.asee.org/conferences/caps/document2/2002-2076_Paper.pdf.
10. Hall, R.H., Flori, R., Hubing, N., Oglesby, D., Philpot, T., Watkins, S., Yellamraju, V. (2002). A model for the evaluation of innovative engineering courseware: Engineering an assessment program. *Proceedings of the American Society of Engineering Education Conference*, Montreal, Canada, http://www.asee.org/acPapers/2002-1697_Final.pdf.
11. Hall, R. H., Digennaro, A., Ward, J., Havens, N., & Ricca, J. (2002). Development of a Web-based Learning System for Teaching Web Design and Development: A Problem-Based Progressive-Scaffolding Approach. *Proceedings of the AACE E-Learning Conference*, Montreal, CA, 1562-1565, <http://dl.aace.org/9618>.
12. Hall, R.H., Philpot, T.A., Flori, R.E., Yellamraju, V., & Subramanian, P. (2003). A Comparison of Different Formats for Presenting Example Problems in Basic Engineering Web-Based Learning Modules. *Proceedings of the World Conference on Educational Multimedia, Hypermedia, and Telecommunications*, 1011-1014, <http://dl.aace.org/12930>.
13. Tichon, J., Hall, R.H., Hilgers, M.G., Leu, M., Agarwal, S. (2003). Education and Training in Virtual Environments for Disaster Management. *Proceedings of the World Conference on Educational Multimedia, Hypermedia, and Telecommunications*, Honolulu, Hawaii, 1191 -1194, <http://dl.aace.org/12972>.
14. Philpot, T.A., Hubing, N., Hall, R.H., Flori, R.E., Oglesby, D.B., & Yellamraju, V. (2003). Games as Teaching Tools in Engineering Mechanics Courses. *Proceedings of the American Society of Engineering Education Conference*, Nashville, TN, http://www.asee.org/conferences/caps/document2/2003-1947_Paper.pdf.
15. Philpot, T.A., Hall, R.H., Flori, R.E., Hubing, N., Oglesby, D.B., & Yellamraju, V. (2003). Is There a Better Way to Present an Example Problem? *Proceedings of*

- the American Society of Engineering Education Conference*, Nashville, TN, http://www.asee.org/conferences/caps/document2/2003-1939_Paper.pdf.
16. Eller, V.M., Watkins, S.E., & Hall, R.H. (2003). Viewing the Learning Process: Assessment Via Usability Testing. *Proceedings of the American Society of Engineering Education Conference*, Nashville, TN, http://www.asee.org/conferences/caps/document2/2003-1879_Paper.pdf.
 17. Hall, R.H. & Hanna, P. (2003). The effect of web page text-background color combinations on retention and perceived readability, aesthetics, and behavioral intention. *Proceedings of The Americas Conference on Information Systems (AMCIS)*, Tampa, FL., 2149-2156.
 18. Leu, M.C., Hilgers, M.G., Agarwal, S., Hall, R.H., Lambert, T., Albright, R., & Nebel, K. (2003). Training in virtual environments for first responders. *Proceedings of the ASEE Midwest Meeting*, Rolla, MO, CD.
 19. Hall, R. H., Philpot, T.A., Hubing, N., Flori, R.E., & Yellamraju, V. (2004). A Model-Driven Multi-Year Assessment of a Software Development Project for Engineering Instruction, *Proceedings of the American Society of Engineering Education*. http://www.asee.org/acPapers/2004-1651_Final.pdf.
 20. Hall, R.H., Hubing, N., Philpot, T.A., Flori, R.E., & Yellamraju, V. (2004). Assessment of Engineering Mechanics Instructional Software in a Variety of Instructional Settings, *Proceedings of the American Society of Engineering Education*. http://www.asee.org/acPapers/2004-1663_Final.pdf.
 21. Philpot, T.A., Hall, R.H., Flori, R.E., Hubing, N., & Yellamraju, V. (2004). Teaching the Superposition Method with Internet-Based Instructional Software, *Proceedings of the American Society of Engineering Education*. http://www.asee.org/acPapers/2004-1514_Final.pdf.
 22. Philpot, T.A. & Hall, R.H. (2004). Comprehensive evaluation of animated instructional software for mechanics of materials, *Proceedings of the Frontiers in Education Conference*. <http://fie.engrng.pitt.edu/fie2004/papers/1369.pdf>.
 23. Hall, R.H., Stark, S., Hilgers, M., & Chang, P. (2004). A Comparison of Scaffolding Media in a Learning System for Teaching Web Development, *Proceedings of the AACE E-Learn Conference*, pp. 1906-1913, <http://dl.aace.org/16707>.
 24. Wilfred, L.M., Hall, R.H., Hilgers, M.G., Leu, M.C., Hortenstine, J.M., Walker, C.P., & Reddy, M. (2004). Training in Affectively Intense Learning Environments, *Proceedings of the AACE E-Learn Conference*, 2233 – 2240, <http://dl.aace.org/16761>. *Outstanding Paper Award*
 25. Hilgers, M.G., Leu, M.C., Hall, R.H., Agarwal, S., Lambert, T., Albright, R., Nebel, K. (2004). Virtual environments for training first responders, *Proceedings of the Interservice/Industry Training, Simulation and Education Conference (I/ITSEC)*. Paper # 1766.
 26. Luna, R., Lawrence, W.T., Sullivan, J.M., Hall, R.H., Hilger, M.G., & Buechler, M.R. (2005). Development of a Learning System to Introduce GIS to Civil Engineers. *Proceedings of the ACM Symposium on Applied Computing*, 1737-1738.
 27. Agarwal, S., Reddy, M., Hall, R.H., Brown, J., Woodard, T., & Trang, A. (2005). Evaluating Operator Performance in Aided Airborne Mine Detection. *Proceedings of the Defense and Security Symposium*, Vol. 5794, 102 - 112.
 28. Reddy, M., Agarwal, S., Hall, R.H., Brown, J., Woodard, T., & Trang, Anh (2005).

- Warfighter in the Loop: Mental Models in Minefield Detection. *Proceedings of the Defense and Security Symposium*, Vol. 5794, 1050 - 1059.
29. Philpot, T., A., Hall, R.H., Hubing, N., & Ross, C. (2005). Assessment of Interactive Courseware for Shear Force and Bending Moment Diagrams, *Proceedings of the American Association for Engineering Education, session 3568*, http://www.asee.org/acPapers/2005-2030_Final.pdf.
 30. Hall, R.H., Luna, R., Hilgers, M.G., Sullivan, J.M., Lawrence, W.T., & Buechler, M.R. (2005). Evaluation of a Prototype GIS Learning System to Teach Civil Engineering Concepts. *Proceedings of the World Conference on Educational Multimedia, Hypermedia, & Telecommunications*, 3569-3574.
 31. Sullivan, J.M., Hall, R.H., Hilgers, M.G., Luna, R., Lawrence, W.T., & Buechler, M.R. (2005). Iterative Usability Evaluation Methods Applied to Learning Technology Development. *Proceedings of the World Conference on Educational Multimedia, Hypermedia, & Telecommunications*, 1188 - 1193.
 32. Hilgers, M.G & Hall, R.H. (2005). Establishing Learning Objectives via Use Case Analysis for a Homeland Security Training System. *Proceedings of the World Conference on Educational Multimedia, Hypermedia, & Telecommunications*, 1380 - 1385.
 33. Spence, P.R., Reddy, M.C., & Hall, R.H. (2005). A Survey of Collaborative Information Seeking Practices of Academic Researchers. *Proceedings of the International ACM SIGGROUP Conference on Supporting Group Work*, 85 – 88.
 34. Hall, R.H., Collier, H., L., Thomas, M.L., & Hilgers, M.G. (2005). A Student Response System for Increasing Engagement, Motivation, and Learning in High Enrollment Chemistry Lectures. *Proceedings of the Americas Conference on Information Systems (AMCIS)*, 621 - 626.
 35. Hilgers, M.G., Hall, R.H., Buechler, M.R. (2005). Design and Development Considerations of a Learning Object Repository, *Proceedings of the Americas Conference on Information Systems (AMCIS)*, 635 - 640.
 36. Schwartz, E., Philpot, T., & Hall, R.H. (2006). An Exploration of Engineering Students 3D Visualization Processing, *Proceedings of the American Society for Engineering Education*, <http://www.asee.org/acPapers/code/getPaper.cfm?paperID=10593>
 37. Maib, J., Hall, R.H., Collier, H., & Thomas, M. (2006). A Multi-Method Evaluation of the Implementation of a Student Response System, *Proceedings of the Americas Conference on Information Systems (AMCIS)*.
 38. Truemper, J., Hall, R.H., Hilgers, M., Kalliny, M., & Sheng, H. (2007). Usability in Multi-Monitor Displays, *Proceedings of the Americas Conference on Information Systems (AMCIS)*.
 39. Boese, M., Sheng, H., & Hall, R. (2007). Collaborative Learning in Engineering Education: A Grounded Theory Analysis, *Proceedings of the Sixth Annual workshop on HCI Research in MIS*.
 40. Nutakor, D., Apel, D.A., Grayson, R.L., Hall, R., Hilgers, M., and Warmbrodt, J. (2007). Virtual Reality Simulator for Training Miners to Install Rock Bolts Using a Jackleg Drill, *Proceedings of the Annual Conference of the Society for Mining Engineers*. Preprint No. 06-039.
 41. Warmbrodt, J., Sheng, H., & Hall, R. (2008). Social Network Analysis of Video

- Bloggers' Community, *Proceedings of the Forty-First Hawaii International Conference on Systems Science*, <http://tinyurl.com/ys9uda>.
42. Nutakor, D., Apel, D.A., Grayson, R.L., Hall, R., Hilgers, M., and Buechler, M. (2008). Evaluation of a Virtual Reality Simulator Developed for Training Miners to Install Rock Bolts Using a Jackleg Drill, *Proceedings of the Annual Conference of the Society for Mining Engineers*. Preprint No. 08-054.
 43. Hall, R.H. (2008). A Brief History of the Video Blog. *Proceedings of Association of Internet Researchers*. (Creative Presentation, <http://vloghistory.org>)
 44. Boese, M., Sheng, H., & Hall, R. (2008). Developing a Grounded Theory Model on Collaboration in Learning. *Proceedings of the Americas Conference on Information Systems*.
 45. Tandon, B.B, Hall, R.H., Luna, R., Sheng, H., Boese, M. (2008). Integration of a GIS Learning Management Systems into Civil Engineering Curricula: An Evaluation. *Proceedings of the World Conference on E-Learning in Corporate, Government, Healthcare, & Higher Education*, 487-505.
 46. Tandon, B., Hall, R.H., Sheng, H., Hilgers, M., Boese, M. (2009). Evaluation of a Learning System to Teach GIS for Civil Engineering. *Proceedings of the Americas Conference on Information Systems (AMCIS)*, Paper 5.
 47. Hilgers, M., Sheng, H., Hall, R.H. (2009). Design-Oriented User-Controlled Aesthetics and User Preference. *Proceedings of the Americas Conference on Information Systems (AMCIS)*, Paper 21.
 48. Jain, V., Sheng, H., Hall, R.H., & Hilgers, M. (2009). Developing an Assessment Model for Evaluating Software Tools in Education. *Proceedings of the Americas Conference on Information Systems (AMCIS)*, Paper 258.
 49. Warmbrodt, J., Sheng, H., Hall, R., & Jinwei, C. (in press). An Exploratory Study On the Video Bloggers' Community. *Proceedings of the Pre-ICIS HCI workshop*.

Other Publications

1. Hall, R.H. (2001). Web-based training site design principles. A literature review and synthesis. In B. Khan's (Ed.) *Web-based training* (pp. 165 – 172). Englewood Cliffs, NJ: Educational Technology Publications.
2. Hall, R.H., Watkins, S.E., Davis, R., Belarbi, A., & Chandrashekhara, K. (2001). Design and assessment of web-based learning environments: The smart engineering project and the instructional software development center at U.M.R. in L.R. Vandervert, L.V. Shavinina, & R.A. Cornell (Eds.) *Cybereducation: The future of long distance learning*. (pp. 137 – 156). New York: Mary Ann Liebert, Inc. Publishers.
3. Hall, R.H., Watkins, S.E., & Eller, V.E. (2003). A model of web based design for learning, in M. Moore and B. Anderson (Eds.) *The Handbook of Distance Education*. (pp. 367 – 376). Mahwah, NJ: Erlbaum.
4. Watkins, S.E. & Hall, R.H. (2003). Complex problem-solving using structured collaboration, in Aung, Hoffman, King, Sanchez, & Ruiz (Eds.) *Engineering Education and Research – 2002: A Chronicle of Worldwide Innovations*, Arlington, VA: iNEER.

Peer Reviewed Paper Presentations (without published proceedings)

- Hall, R. H., Rocklin, T. R., Dansereau, D. F., Skaggs, L. P., O'Donnell, A. M., Lambiotte, J. G., & Young, M. D. (1986, April). *Individual differences in cooperative learning*. Presentation at the Annual Meeting of the Southwestern Psychological Association, Fort Worth, TX.
- Rottman, T., Hall, R. H., Nemni, S., & Rocklin, T. R. (1986, April). *Personality scale construction: Does strategy really matter?* Presentation at the Annual Meeting of the Southwestern Psychological Association, Fort Worth, TX.
- Young, M. D., Dansereau, D. F., O'Donnell, A. M., Hythecker, V. I., Lambiotte, J. G., Skaggs, L. P., Hall, R. H., & Rocklin, T. R. (1986, April). *Cooperative integration and review of technical procedures*. Presentation at the Annual Meeting of the Southwestern Psychological Association, Fort Worth, TX.
- Hall, R. H., Rocklin, T. R., Dansereau, D. F., Skaggs, L. P., O'Donnell, A. M., Lambiotte, J. G., & Young, M. D. (1986, August). *Comparison of individual and dyadic learning: The role of induction*. Presentation at the annual meeting of the American Psychological Association, Washington, DC.
- Hall, R. H., Dansereau, D. F., & O'Donnell, A. M. (1987, April). *Subjective graphing of metacognitive, affective, and social processing*. Presentation at the annual meeting of the Southwestern Psychological Association, New Orleans, LA.
- Hall, R. H., Rocklin, T. R., Dansereau, D. F., Skaggs, L. P., O'Donnell, A. M., Lambiotte, J. G., & Young, M. D. (1987, April). *Individual differences in the learning of structural/functional and procedural material*. Presentation at the annual meeting of the American Educational Research Association, Washington, DC.
- Lambiotte, J. G., Dansereau, D. F., O'Donnell, A. M., Young, M. D., Skaggs, L. P., & Hall, R. H. (1987, April). *Manipulating cooperative scripts for teaching and learning*. Presentation at the annual meeting of the American Educational Research Association, Washington, DC.
- O'Donnell, A. M., Dansereau, D. F., Rocklin, T. R., Hythecker, V. I., Hall, R. H., Young, M. D., Skaggs, L. P., & Lambiotte, J. G. (1987, April). *The role of individual differences in procedure/skill acquisition*. Presentation at the annual meeting of the American Educational Research Association, Special Interest Group on Text Design and Learner Strategies, Washington, DC.
- O'Donnell, A. M., Dansereau, D. F., Rocklin, T. R., Hythecker, V. I., Hall, R. H., Young, M. D., Skaggs, L. P., & Lambiotte, J. G. (1987, April). *Procedure/skill acquisition in cooperative dyads*. Presentation at the annual meeting of the American Educational Research Association, Washington, DC.
- O'Donnell, A. M., Dansereau, D. F., Hall, R. H., & Rocklin, T. R. (1987, April). *Cognitive, social/affective, and metacognitive outcomes of scripted cooperative learning*. Presentation at the annual meeting of the American Educational Research Association, Washington, DC.
- Skaggs, L. P., Rocklin, T. R., Dansereau, D. F., Hall, R. H., O'Donnell, A. M., Lambiotte, J. G., & Young, M. D. (1987, April). *Dyadic learning of technical material: Individual differences, social interaction, and recall*. Presentation at the annual meeting of the American Educational Research Association, Washington, DC.
- Hall, R. H., Dansereau, D. F., O'Donnell, A. M., & Skaggs, L. P. (1987, August). *The*

- effect of textual errors on dyadic and individual learning.* Presentation at the annual meeting of the American Psychological Association, New York.
- Hall, R. H. & Dansereau, D. F. (1988, April). *Individual differences and the procedural learner.* Presentation at the annual meeting of the American Educational Research Association, Symposium on Reading, Writing, and Using Procedural Instructions, New Orleans, LA.
 - Hall, R. H., Dansereau, D. F., Lambiotte, J. G., O'Donnell, A. M., Skaggs, L. P., & Pitre, U. (1988, April). *Individual differences in the use of scripted cooperation and concept maps.* Presentation at the annual meeting of the American Educational Research Association. New Orleans, LA.
 - Lambiotte, J. G., Dansereau, D. F., O'Donnell, A. M., Skaggs, L. P., Hall, R. H., & Young, M. D. (1988, April). *Effects of cooperative script manipulations on initial learning and transfer.* Presentation at the annual meeting of the American Educational Research Association. New Orleans, LA.
 - Skaggs, L. P., Dansereau, D. F., O'Donnell, A. M., Lambiotte, J. G., Hall, R. H., Pitre, U., Rewey, K. L., & Peel, J. (1988, April). *Using cooperative learning in an academic setting as a vehicle for influencing recall, attitudes, and beliefs about alcohol-related information.* Presentation at the annual meeting of the American Educational Research Association. New Orleans, LA.
 - Hall, R. H., Dansereau, D. F., & Skaggs, L. P. (1988, April). *Individual differences in affective and cognitive responses to anomalous text.* Presentation at the annual meeting of the Southwestern Psychological Association, Tulsa, OK.
 - Skaggs, L. P., Dansereau, D. F., & Hall, R. H. (1988, April). *The effects of learning scripts on initial learning and transfer.* Presentation at the annual meeting of the Southwestern Psychological Association, Tulsa, OK.
 - Hall, R. H., Dansereau, D. F., Lambiotte, J. G., O'Donnell, A. M., Skaggs, L. P., & Pitre, U. (1988, August). *Individual differences in the processing of knowledge maps: Differential roles of spatial/visual and verbal abilities.* Presentation at the annual meeting of the American Psychological Association, Atlanta, GA
 - Hall, R. H., Dansereau, D. F., & Skaggs, L. P. (1988, August). *The cooperative learner.* Presentation at the annual meeting of the American Psychological Association, Atlanta, GA.
 - O'Donnell, A. M., Dansereau, D. F., Lambiotte, J. G., Hall, R. H., Skaggs, L. P., Rewey, L., & Peel, J. L. (1988, August). *Concept mapping: Impact on text recall and procedure performance.* Presentation at the annual meeting of the American Psychological Association, Atlanta, GA.
 - Hall, R.H., Dansereau, D. F., & Skaggs, L. P. (1989, March). *Knowledge maps and the presentation of related information domains.* Presentation at the annual meeting of the American Educational Research Association, San Francisco, CA.
 - Rewey, K. L., Dansereau, D. F., Skaggs, L. P., Hall, R. H., & Pitre, U. (1989, March). *Effects of scripted cooperation and knowledge maps on the recall of technical material.* Presentation at the annual meeting of the American Educational Research Association, San Francisco, CA.
 - Skaggs, L. P., Dansereau, D. F., & Hall, R. H. (1989, March). *The effects of knowledge maps and pictures on the acquisition of scientific information.* Presentation at the annual meeting of the American Educational Research

- Association, San Francisco, CA.
- Hall, R. H., Dansereau, D. F., & Skaggs, L. P. (1989, April). *Processing of spatial text displays: A theoretical and empirical analysis*. Presentation at the annual meeting of the Southwestern Psychological Association, Houston, TX.
 - Hall, R.H., Dansereau, D. F., & Blair, R. (1990, April). *Knowledge maps and spatial/verbal processing: A temporal analysis*. Presentation at the annual meeting of the Southwestern Psychological Association, Dallas, TX.
 - Hall, R. H., Dansereau, D. F., & Blair, R. (1990, April) *Student- versus expert-generated knowledge maps: Postorganization, initial acquisition, and transfer*. Presentation at the annual meeting of the American Educational Research Association, Boston, MA.
 - Hall, R. H. (1990, July). *Individual differences in Scripted Cooperative Learning*. In the symposium, *Uses of Cooperative Pedagogy in Post Secondary Higher Education*. Presentation at the annual International Convention on Cooperative Learning, Baltimore, MD.
 - Hall, R. H., Blair, R. (1991, April). *Knowledge Maps: An Analysis of Spatial Channel Activation*. Presentation at the annual meeting of the Southwestern Psychological Association, New Orleans, LA.
 - Hall, R. H., Sidio, M. A. (1992, April). *The Effect of Spatial Skills on the Acquisition of Text Material Presented via a Knowledge Map*. Presentation at the annual meeting of the Southwestern Psychological Association, Austin, TX.
 - Sidio, M. A., Hall, R. H. (1992, April). *The Effect of Color Enhancement on Knowledge Map Processing*. Presentation at the annual meeting of the Southwestern Psychological Association, Austin, TX.
 - Hall, R. H. (1993, April). *The Role of Affective Variables in Knowledge Map Processing*. Presentation at the annual meeting of the Southwestern Psychological Association, Corpus Christi, TX.
 - Hall, R.H. (1994, April). *Spatially directed post organization in learning from knowledge maps*. Presentation at the annual meeting of the American Educational Research Association. New Orleans, LA.
 - Hall, R.H. & O'Donnell, A. (1994, April). *Alternative materials for learning: Cognitive and affective outcomes of learning from knowledge maps*. Presentation at the annual meeting of the American Educational Research Association. New Orleans, LA.
 - Hall, R.H. & Sidio-Hall, M.A. (1994, April). *The effects of congruent/noncongruent color enhancement and verbal ability on knowledge map processing*. Presentation at the annual meeting of the American Educational Research Association. New Orleans, LA.
 - Sidio-Hall, M.A. & Hall, R.H. (1994, April). *Pre and student color-coded knowledge maps: The mediational role of test anxiety*. Presentation at the annual meeting of the American Educational Research Association. New Orleans, LA.
 - Hall, R.H., Sidio-Hall, M.A., & Saling, C.B. (1995, April). *Knowledge Maps as Post Organizers*. Presentation at the annual meeting of the Southwestern Psychological Association, San Antonio, TX.
 - Hall, R.H., Sidio-Hall, M.A., & Saling, C.B. (1995, April). *A comparison of knowledge maps and scripted cooperative learning within the context of a*

- postsecondary class*. Presentation at the annual meeting of the American Educational Research Association, San Francisco, CA.
- Hall, R.H. (1996, April). *Scripted cooperative learning: Variations on a theme*. Paper presented as part of the workshop, *Constructivist Strategies for Teaching Educational Psychology* at the annual meeting of the American Educational Research Association, New York, NY.
 - Hall, R.H., Sidio-Hall, M.A., & Saling, C.B. (1996, April). *A comparison of learning strategies within the context of a post-secondary class: Effects on initial learning and transfer*. Presentation at the annual meeting of the American Educational Research Association, New York, NY.
 - Hall, R.H., Mancini, B.M., & Hall, J.L. (1996, August). *Scripted Cooperative Learning and Testing in a Post-Secondary Class*. Presentation at the annual meeting of the American Psychological Association, Toronto, Canada.
 - Hall, R.H. & Hickman, L.L. (1997, March). *The effect of contiguity and complexity of web page displays on subjective ratings: The role of gender*. Presentation at the annual meeting of the American Educational Research Association, Chicago, Ill.
 - Hall, R. H. & Mancini, B. M. (1997, August). *"Real Life" Scripted Collaborative Discussion within the context of a General Psychology Class*. Presentation at the annual meeting of the American Psychological Association, Chicago, Ill.
 - Hall, R.H. (1998, April). *A Theory-driven model for the web-enhanced educational psychology class*. Presentation at the annual meeting of the American Educational Research Association, San Diego, CA.
 - Hall, R.H. (1999, April). *Web-based conferencing as a component of a collaborative-learning based educational psychology class*. Presentation at the annual meeting of the American Educational Research Association, Montreal, Canada.
 - Hall, R.H., Watkins, S.E., & Ercal, F. (2000, April). *The horse and the cart in web-based instruction: Prevalence and efficacy*. Presentation at the annual meeting of the American Educational Research Association, New Orleans, LA.
 - Hall, R.H., Balestra, J., & Davis, M. (2000, April). *A navigational analysis of linear and non-linear hypermap interfaces*. Presentation at the annual meeting of the American Educational Research Association, New Orleans, LA.
 - Hall, R.H., Watkins, S., Chandrashekhara, K., Belarbi, A., & Nanni, A. (October, 2000). *Smart materials and sensors: Instructional design and assessment*. Invited Presentation at the National Science Foundation CRCRD/Action Agenda Meeting, Washington D.C.
 - Hall, R.H. & Watkins, S. (October, 2000). *Web Design for learning: UMR's instructional software development center (ISDC) and Media Design and Assessment Laboratory (MDAL)*. Presentation at the National Science Foundation CRCRD/Action Agenda Meeting, Washington, D.C.
 - Hall, R.H., Feltrop, E.J., & Davis, R.L. (2001, March). *The Web-Based Multimedia Courseware Development Process at UMR's Instructional Software Development Center*. Paper presented at the Annual Meeting of the Missouri Research and Education Network (MoreNet) Helix Conference, Cambdeton, MO.
 - Digenarro, A., Havens, N., Ward, J., Grimes, H., & Hall, R.H. (2002, March). *Usability Testing of Web-Based Instructional Media*. Paper presented at the Annual Meeting of the Missouri Research and Educational Network (MoreNet) Helix

- Conference, Cambdeton, MO.
- Hall, R. H. (2002, March). *An integrative approach for teaching web design*. Workshop on Interaction Design at the Annual Meeting of the Association for Computing Machinery, SIGCHI: Computer-Human Interaction, Minneapolis, MN.
 - Hall, R.H., Petrikovitsch, J., Eller, V., & Nolley, J. (2003, April). *UMR's Instructional Software Development Center*. Paper presented at the Annual Meeting of the Missouri Research and Educational Network (MoreNet) Helix Conference, Cambdenton, MO.
 - Wilfred, L.M., Hall, R.H., Hilgers, M.G., Leu, M.C., Sanjeev, A., Hortenstine, J.M., Walker, C.P., & Kissane, Z. (2003, August). *An Analysis of Psychological Processes in an Affectively Intense Virtual Environment for Training First Responders*. Poster presented at the Science and Technology Conference 2003 – Protection and Security at Home and Deployed, Fort Leonard Wood, MO.
 - Hall, R.H. & Philpot, T. (2003, December). *Dynamic 3D Media for Engineering Education: Animating the Learning Process*. Paper presented at the U.S. Dept. of Education Fund for Improvement of Post Secondary Education (FIPSE) Project Directors' Meeting, Denver, CO.
 - Schwendeman, C., Righi, C., Hall, R.H., Weinberg, J.B. (2005, June). *Bridging the Gap Between Academia and Practice*. Panel at the Usability Professionals Association Meeting, Montreal, CA.
 - Hall, R.H., Brown, J., Spence, P., Schwartz, E. (2005, September). *User Experience Education: The HCI Program at the University of Missouri – Rolla*. Session Chair and Presentation at the St. Louis User Experience Conference, St. Louis, MO.

Theses Students Advised*

1. Wilfred, Lawrence, MS, IST, 2004
Thesis: “Learning in Affectively Intense Virtual Environments”
2. Sullivan, John, MS, IST 2004
Thesis: “Iterative Usability Testing in the Development of a Learning Technology System for Teaching Geographic Information Systems within a Civil Engineering Curriculum”
3. John Brown, MS, IST 2005 (co-advisor with Madhu Reddy)
Thesis: “Mental Models in Airborne Landmine Detection”
4. Erik Schwartz, MS, IST 2006
Thesis: “An Exploration of Collaborative 3D Visualization Processing in Engineering Education and Supporting Tools”
5. Jake Truemper, MS, IST 2006 (co-advisor with Michael Hilgers)
“A Usability and Performance Analysis of Multiple Monitor Displays and Multitasking”
6. John Warmbrodt, MS, IST 2007 (co-advisor Hong Sheng) “An Exploratory Study of the Video Blogger’s Community”
7. Basanta Tandon, MS, IST 2009 (co-advisor Hong Sheng) “Integration of a GIS Learning System into Civil Engineering Curricula: An Evaluation”

**Richard Hall was not in a department with a masters program until joining IST in 2002, which does not have a PhD program.*

Grants Funded (Internal/UM System)

1. Hall, R.H. (1988). *Generation and Observation of Knowledge Maps in Comparative Learning: A Processing Analysis*. Humanities and Social Sciences Research Fund. (\$ 1,200).
2. Hall, R.H. (PI) & Mueller, J. (1990). *The Role of Individual Difference and Affective Variables in the Processing of Spatial Text Displays*. Weldon Springs Foundation (\$10,791).
3. Hall, R.H. (1996). *Guided Surfing: Development and Assessment of an Interactive World Wide Web Pedagogical Tool for Teaching General Psychology*. University of Missouri-Rolla, College of Arts and Sciences, Education and Training Funds (\$5,265).
4. Hall, R.H. (1998). *Development of Web-Based, Interactive, Neuroscience, and Sensation/Perception Modules for General Psychology at the University of Missouri – Rolla*. University of Missouri – Rolla, College of Arts and Sciences, Education and Training Funds (\$9,432)
5. Hall, R.H. (1999). *Instructional Web Development Training Workshops, Presentations, and Support for faculty at the University of Missouri – Rolla*. University of Missouri - Rolla, College of Arts and Science, Education and Training Funds (\$2,000)
6. Hall, R.H. (2000). *Assessment of Wireless Lap Top Enhanced Classes in Engineering Statics*. U.M.R. Dept. of Basic Engineering. (\$3,200).
7. Hall, R.H. (PI) & Kellogg, R. (2001). *Creating a Student-Centered Active Learning Environment in General Psychology Classes*. University of Missouri System program for Designing Learner Centered Environments, through the use of technology, in large enrollment classes. (\$25,000).