

**Vita**  
**Ted Stephen Hasselbring**

Peabody College of Vanderbilt University, Department of Special Education

**Personal Information**

Home Address: 900 20<sup>th</sup> Avenue South #1614  
Nashville, TN 37212

Professional Address: Box 551 Peabody College  
Vanderbilt University  
230 Appleton Place  
Nashville, TN 37203-5721

Ph: 615.322.2190  
Fax: 615.343.7556  
e-mail: t.hasselbring@vanderbilt.edu

**Current Appointment**

Research Professor, Department of Special Education  
Peabody College of Vanderbilt University

**Areas of Specialization**

Special Education (Mild Disabilities); Learning Technology (Software Design and Evaluation); Technology-Based Intervention (Math, Science, and Reading); and Teacher Education

**Educational Background**

Ed.D., 1979 Indiana University, Bloomington, Indiana  
Major: Special Education (Mental Retardation)  
Minor: Educational Research

M.A.T., 1972 Indiana University, Bloomington, Indiana  
Major: Biology

B.S., 1971 Indiana University, Bloomington, Indiana  
Major: Secondary Education-Biology

**Professional Experience**

2000 – 2006 William T. Bryan Professor and Endowed Chair Special Education  
Technology  
Department of Special Education and Rehabilitation Counseling  
University of Kentucky

1995-1999	Professor of Special Education and Kennedy Center Scientist Peabody College of Vanderbilt University
1982-1995	Associate Professor of Special Education and Kennedy Center Scientist Peabody College of Vanderbilt University
1990-1999	Co-Director, Learning Technology Center Peabody College of Vanderbilt University
1984-1990	Associate Director, Learning Technology Center Peabody College of Vanderbilt University
1977-1982	Assistant Professor of Special Education Department of Curriculum and Instruction North Carolina State University
1974-1977	Special Education Teacher, Putnam/Westchester BOCES Yorktown Heights, New York

### **Awards and Honors**

2007-present	National Advisory Board The George Lucas Educational Foundation San Rafael, CA
2005	Committee Member Improving America's High Schools National Governor's Association
1998	Committee Member National Academy of Sciences Washington, DC
1997	Visiting Scholar National Institute of Special Education Tokyo, Japan
1994	Everett W. Hill Teaching Award Department of Special Education Peabody College of Vanderbilt University
1992	Award Winner The Johns Hopkins National Search for Technology to Assist Persons with Disabilities

1989	Visiting Scholar China Disabled People's Federation and the National Cristina Foundation Beijing, China
1989	Visiting Scholar United States Information Agency Minsk, USSR
1987	Honored Nominee in the Professor of the Year Program The Council for Advancement and Support of Education
1986	Visiting Research Scholar Hyogo University of Teacher Education Yashiro-cho, Japan
1984	National Software Competition Winner Division on Mental Retardation The Council for Exceptional Children
1984	Faculty Achievement Award Peabody College of Vanderbilt University

### **Grant Support**

Co-Principal Investigator, “*Center on the Use of Emerging Technologies to Improve Literacy Achievement for Students with Disabilities in Middle School.*” Funded by the U.S. Department of Education, Office of Special Education Programs. (2012-2017). \$10,000,000.

Investigator, “*Vanderbilt ECSE Doctoral Leadership Training Program.*” (2011-2016), Funded by the U.S. Department of Education. \$1,400,000.

Principal Investigator, “*Developing and Evaluating a Technology-Based Fractions Intervention Program for Low-Achieving and At-Risk Students.*” (2010-2013), Funded by the U.S. Department of Education, Institute of Education Sciences. \$1,000,000.

Co-Principal Investigator, “*Math Pursuits: Individualizing Math Instruction Based on Their Learning Needs.*” Funded by the U.S. Department of Education. \$400,000. 2006 to 2009.

Co-Principal Investigator, “*Curriculum Access through Reading Electronically (CARE).*” (2003-06), Funded by the U.S. Department of Education, Office of Special Education Programs. \$399,000.

Project Director, “*Post Doctoral Fellowship Program on the Integration of Instruction About Technology into Special Education Personnel Preparation Programs*” (2002-2006), Funded by the U.S. Department of Education, Office of Special Education Programs. \$516,000.

Investigator, “*Commonwealth Center for Instructional Technology and Learning.*” 2001-2002). Funded by the U.S. Department of Education, Office of Special Education Programs. \$1,000,000.

Subcontractor, “*National Center for Technology Innovation.*” (2001-2006), Funded by the U.S. Department of Education, Office of Special Education Programs. \$500,000.

Principal Investigator, “*University of Kentucky Assistive Technology Research Institute.*” (2000-2006). Funded by the U.S. Department of Education, Office of Special Education Programs. \$3,000,000.

Investigator, “*National Partnership for Excellence and Accountability in Teaching.*” Funded by OERI. (1998-2000). \$350,000.

Co-Principal Investigator, “*A proposal to Study the Diffusion Efforts of ‘Schools for Thought’ in the Context of a Large Urban School District.*” Funded by the Mellon Foundation. (1997-2000). \$1,220,000.

Co-Principal Investigator, “*Learning and Intelligent Systems: Center for Innovative Learning Technologies.*” Funded by the National Science Foundation. (1997-2002). \$860,000.

Principal Investigator, “*Developing Intelligent Software for Teaching Critical Math Concepts, Skills, and Knowledge to Young Disabled Children.*” Funded by the U.S. Department of Education, Office of Special Education Programs. (1997-99). \$400,000.

Co-Principal Investigator, “*The K-12 Learning Consortium: A Technology Supported Design for Exploring, Disseminating and Sustaining New Visions of Student Learning.*” Funded by an anonymous foundation. (1997-2001). \$3,250,000.

Co-Principal Investigator, “*American School Directory (ASD).*” Funded by Computers for Education. (1996-99). \$75,000.

Principal Investigator, “*Technology Enhanced Approach to Special Education Teacher Training.*” Funded by Department of Education, Office of Special Education Programs. (1996-97). \$345,000.

Principal Investigator, “*Training Teachers to Implement Multimedia Instruction with Students with Mild-Moderate Disabilities.*” Funded by Department of Education, Office of Special Education Programs. (1996-98). \$318,000.

Co-Principal Investigator, “*Studying Achievement for a Whole Day Whole Year (WDWY) Perspective.*” Funded by OERI. (1996-99). \$768,000.

Principal Investigator, “*Educating Teachers of At-Risk Children in the Effective Use of Technology for Enhancing: Learning A Planning Grant.*” Funded by the Charles S. Mott Foundation. (1996). \$50,000.

Principal Investigator, “*An Examination of Technologies for Use with Individuals having Dyslexia.*” Funded by the IBM Corporation. (1995-96). \$40,000.

Investigator, “*PRIME: Promoting the Restructuring of Instruction through Multimedia Education.*” Funded by the U.S. Department of Education, Office of Special Education Programs. (1994-97). \$735,000.

Co-Principal Investigator, “*Building on Strengths: Accelerated, Integrated Curriculum and Its Effects on Children, Teachers, and Parents.*” Funded by the James S. McDonnell Foundation. (1995-98). \$600,000.

Co-Principal Investigator, “*Developing Mathematical Literacy Through the Use of Contextualized Learning Environments.*” Funded by the U.S. Department of Education, Office of Special Education Programs. (1994-97). \$600,000.

Co-Principal Investigator, “*An Exploration of Generative Learning Units.*” Funded by the Mellon Foundation. (1994-97). \$1,185,000.

Co-Principal Investigator, “*MOST Environments for Accelerating Literacy Development in Young Children At-Risk of School Failure.*” Funded by the U.S. Department of Education, Office of Special Education Programs. (1992-95). \$639,000.

Co-Principal Investigator, “*Literacy for Life.*” Funded by the U.S. Department of Education, Office of Special Education Programs. (1992-95). \$738,000.

Principal Investigator, “*Training Education Personnel to Use and Develop Anchored Instruction MultiMedia Modules (AIMM) for Enhancing Teacher Education.*” Funded by the U.S. Department of Education, Office of Special Education Programs. (1992-96). \$345,000.

Investigator, “*SMART Assessments: Scientific Mathematical Arenas for Refining Thinking.*” Funded by the National Science Foundation.” (1992-1997). \$1,985,000.

Investigator - “*Extension of the Jasper Series: A Generative Approach to Improving Mathematical Thinking.*” Funded by the National Science Foundation. (1992-1995). \$600,000.

Co-Principal Investigator, “*Designing Invitations to Thinking II.*” Funded by the McDonnell Foundation. (1991-1994). \$630,000.

Co-Principal Investigator, “*IBM Advisory Board.*” Funded by IBM. (1991-93). \$375,000.

Co-Principal Investigator, “*Jasper Series: A Generative Approach to Improving Mathematical Thinking.*” Funded by the National Science Foundation. (1990-1992). \$500,000.

Co-Principal Investigator, “*An Examination of Cognitive Challenges and Pedagogical Opportunities for the Development of Multi-Media Information Systems.*” Funded by the U.S. Department of Education, Office of Special Education Programs. (1990-92). \$400,000.

Co-Principal Investigator, "*Multimedia and Adult Literacy*." Funded by Apple Computer. (1989-90). \$50,000.

Co-Principal Investigator, "*New Approaches for Teaching Mathematical Problem Solving to Learning Handicapped Students*." Funded by the U.S. Department of Education, Office of Special Education Programs. (1987-90). \$420,000.

Co-Principal Investigator, "*Designing Invitations to Thinking*". Funded by the McDonnell Foundation (1987-90). \$675,000.

Co-Principal Investigator, "*Tools for Enhancing Learning*". Funded by the U.S. Department of Education, Special Education Program. (1988-90). \$270,000.

Co-Principal Investigator, "*Linking Procedural and Conceptual Knowledge in Mathematics*". Funded by the Apple Education Foundation. (1988-89). \$10,000.

Co-Principal Investigator, "*An Evaluation of Instructional Videodisc Courseware*." Funded by the Tennessee Valley Authority. (1988-89). \$50,000.

Co-Principal Investigator, "*Enhancing Mathematical Abilities in Learning Handicapped Children: Applications of Cognitive and Computer Science*." Funded by the U.S. Department of Education, Office of Special Education Programs. (1986-89). \$375,000.

Co-Principal Investigator, "*Improving Data-Based Instruction through Computer Technology*." Funded by U.S. Department of Education, Office of Special Education Programs. (1985-88). \$390,000.

Co-Principal Investigator, "*Mainstream Assistance Teams: Accommodating Difficult-to-Teach Students in Regular Classrooms*." Funded by U. S. Department of Education, Office of Special Education Programs. (1985-88). \$405,000.

Co-Principal Investigator, "*Dynamic Assessment of Intellectually Handicapped Children: Evaluation of model for a Continuum of Assessment Services*." Funded by U. S. Department of Education, Office of Special Education Programs. (1983-86). \$750,000.

Principal Investigator, "*An Evaluation of the Use of Level-One Videodisc for Teaching Basic Math Skills*." Funded by the Tennessee Valley Authority. (1986). \$40,000.

Co-Principal Investigator, "*Microcomputer Technology Project*." Funded by Tennessee Department of Mental Health and Mental Retardation. (1985). \$10,000.

Director, "*Examining the Efficacy of a Microcomputer-Based System for Assisting Teachers in the Instructional Decision-Making Process*." Spencer Foundation Grant, Vanderbilt University. (1983). \$2,000.

Co-Director, "*Project IMPACT: Inservice Management Plan for Assisting Classroom Teachers*." Funded by Department of Education. (1979-82) \$330,000/yr.

Director, "An Examination of the use of Microcomputers for Determining Levels of Reading Comprehension in Learning Handicapped Students." North Carolina State University Faculty Research Award. (1980-81). \$2,500.

## **PUBLICATIONS**

### **Books**

Bausch, M. E., Ault, M. J. & Hasselbring, T. S. (2006). *Assistive technology planner: From IEP consideration to classroom implementation*. Lexington, KY: National Assistive Technology Research Institute.

Goldman, S.R., Williams, S.M., Sherwood, R.D., & Hasselbring, T.S. with the Cognition and Technology Group at Vanderbilt. (1999). *Technology for teaching and learning with understanding: A primer*. Boston: Houghton Mifflin Company.

Hasselbring, T.S. with the Cognition and Technology Group at Vanderbilt. (1997). *The Jasper Project: Lessons in Curriculum, Instruction, and Professional Development*. Mahwah, NJ: Lawrence Erlbaum & Associates.

Hasselbring, T.S. with the Committee on Goals 2000 and the Inclusion of Students with Disabilities. (1997). *Educating One and All: Students with Disabilities and Standards-Based Reform*. Washington, DC: National Academy Press.

### **Book Chapters**

Hasselbring, T. S. (2010). Reading Proficiency, the Struggling Reader, and the Role of Technology. In Baker (Ed.). *The new literacies: Multiple perspectives on research and practice*. New York: The Guilford Press.

Sharp, D. with Hasselbring, T. as part of the Cognition and Technology Group at Vanderbilt. (2008). Designing Kindergarten Classroom Computer Center Literacy Activities: A Theoretical Approach. In Kinzer, C. K., & Verhoeven, L. (Eds.). *Interactive literacy education: facilitating literacy environments through technology*. New York: Lawrence Erlbaum Associates, Taylor & Francis Group.

Hasselbring, T.S., Bottge, B.A. & Bausch, M.E. (2008). Planning and Implementing a Technology Program in Inclusive Settings. In J. Lindsley (Ed.) *Technology in Special Education*. Austin, TX: Pro.Ed.

Rose, D., Hasselbring, T.S., Stahl, S. & Zabala, J. (2005). Assistive technology and universal design for learning: Two sides of the same coin. In D. Edyburn, R. Boone & K. Higgins (Eds). *Handbook of Assistive Technology*. Whitefish Bay, WI: Knowledge by Design, Inc.

Hasselbring, T.S. & Bausch, M.E. (2003). Assistive technology. In J. Guthrie (Ed.), *Encyclopedia of Education, Second Edition*. New York, NY: Macmillian Reference.

- Goldman, S.R., Williams, S.M., Sherwood, R.D., Pellegrino, J.W., Plants, R., & Hasselbring, T.S. (2003). Technology for teaching and learning with understanding. In J. Cooper (Ed.), *Classroom Teaching Skills*. Boston: Houghton Mifflin Company.
- Hasselbring, T.S., Goin, L., Taylor, R. Bottge, B., & Daley, P. (2000). The computer doesn't embarrass me. In *The Jossey-Bass Reader on Technology and Learning*. San Francisco: Jossey-Bass
- Hasselbring, T.S. & Bottge, B.A. (2000). Planning and Implementing a Technology Program in Inclusive Settings. In J. Lindsley (Ed.) *Technology in Special Education*. Austin, TX: Pro.Ed.
- Goldman, S.R., Williams, S.M., Sherwood, R.D., & Hasselbring, T.S. with the Cognition and Technology Group at Vanderbilt. (1999). Technology for teaching and learning with understanding. In J. Cooper (Ed.), *Classroom Teaching Skills* (pp. 237-254). Boston: Houghton Mifflin Company.
- Goldman, S.R. & Hasselbring, T.S. with the Cognition and Technology Group at Vanderbilt. (1998). Achieving meaningful mathematics literacy for students with learning disabilities. In D. Rivera [Ed.], *Mathematics Education for Students with Disabilities*. (pp. 183-220). Austin, TX: Pro.Ed.
- Hasselbring, T.S. with the Cognition and Technology Group at Vanderbilt. (1997). The Jasper series: A design experiment in complex, mathematical problem solving. In J. Hawkins & A. Collins (Eds.), *Design Experiments: Integrating Technologies into Schools*. New York: Cambridge University Press.
- Hasselbring, T.S. (1997). The future of special education and the role of technology. In J. Paul, M. Churton, W. Morse, A. Duchnowski, B. Epanchin, P. Osnes & R. Smith (Eds.), *Special Education Practice: Applying the Knowledge, Affirming the Values, and Creating the Future*. (pp. 118-133). Pacific Grove, CA: Brooks/Cole Publishing Co.
- Hasselbring, T.S. with the Cognition and Technology Group at Vanderbilt. (1996). Anchored instruction and situated cognition revisited. In H. McLellan (Ed.), *Situated learning perspectives* (pp. 123-154). Englewood Cliffs, NJ: Educational Technology Publishers. Reprint: *Educational Technology*, 33(3), 52-70.
- Hasselbring, T.S. with Moore, J. L., Lin, X., Schwartz, D. L., Petrosino, A., Hickey, D.T., Campbell, J. O., & CTGV (1996). The relationship between situated cognition and anchored instruction: A response to Tripp. In H. McLellan (Ed.), *Situated learning perspectives* (pp. 213-221). Englewood Cliffs, NJ: Educational Technology Publishers. Reprint: *Educational Technology*, 34(8), 28-32.
- Hasselbring, T.S. with Bransford, J. D., Zech, L., Schwartz, D. Barron, B., Vye, N., with the Cognition and Technology Group at Vanderbilt. (1996). Fostering mathematical thinking in middle school students: Lessons from research. In Robert J. Sternberg & Talia Ben-Zeev (Eds.), *The nature of mathematical thinking* (pp. 203-250). Mahwah, NJ: Lawrence Erlbaum & Associates.



- Bransford, J. D., Sharp, D. M., Vye, N. J., Goldman, S. R., Hasselbring, T. S., Goin, L., O'Banion, K., Livernois, J., Saul, E., with the Cognition and Technology Group at Vanderbilt. (1996). MOST environments for accelerating literacy development. In S. Vosniadou, E. De Corte, R. Glaser, & H. Mandl (Eds.), *International perspectives on the design of technology-supported learning environments* (pp. 223-256). Mahwah, NJ: Lawrence Erlbaum & Associates.
- Hasselbring, T.S. with the Cognition and Technology Group at Vanderbilt. (1996). Looking at technology in context: A framework for understanding technology and education research. In D. C. Berliner & R. C. Calfee (Eds.), *The Handbook of Educational Psychology*, (pp. 807-840). NY: Simon & Schuster MacMillan.
- Hasselbring, T.S. with the Cognition and Technology Group at Vanderbilt. (1994). From visual word problems to learning communities: Changing conceptions of cognitive research. In McGilly, K. (Ed.), *Classroom lessons: Integrating cognitive theory and classroom practice* (pp. 157-200). Cambridge, MA: MIT Press/Bradford Books.
- Hasselbring, T.S. with the Cognition and Technology Group at Vanderbilt. (1994). Generative learning and anchored instruction: Design, research and implementation issues. In B. P. M. Creemers & G. J. Reezigt (Eds), *New directions in educational research: Contributions from an International Perspective* (pp. 33-62). Groningen: ICO.
- Hasselbring, T.S. with the Cognition and Technology Group at Vanderbilt. (1994). Multimedia environments for developing literacy in at-risk students. In B. Means (Ed.), *Technology and Educational Reform: The Reality Behind the Promise* (pp. 23-56). San Francisco: Jossey-Bass Inc.
- Hasselbring, T.S. with the Cognition and Technology Group at Vanderbilt. (1993). The Jasper series: Theoretical foundations and data on problem solving and transfer. In L. A. Penner, G. M. Batsche, H. M. Knoff, & D. L. Nelson (Eds.), *The challenge in mathematics and science education: Psychology's response* (pp. 113-152). Washington, DC: American Psychological Association.
- Hasselbring, T.S. with the Cognition and Technology Group at Vanderbilt. (1993). Toward integrated curricula: Possibilities from anchored instruction. In M. Rabinowitz (Ed.), *Cognitive Science: Foundations of Instruction* (pp. 33-55). Hillsdale, NJ: Erlbaum.
- Hasselbring, T.S., & Goin, L.I. (1993). Integrated Media and the Mildly Disabled Learner. In E.A. Polloway, J.S. Payne, J.R. Patton & R.A. Payne (Eds.), *Strategies for Teaching Learners with Special Needs* (5th Edition). Columbus, OH: Charles E. Merrill Publishing Company.
- Delclos, V.R., Vye, N.J., Burns, M.S., Bransford, J.D., & Hasselbring, T.S. (1992). Improving the quality of instruction: Roles for dynamic assessment. In H.C. Haywood & D. Tzuriel (Eds.), *Interactive assessment* (pp.317-331). NY: Springer-Verlag.
- Hasselbring, T.S. with the Cognition and Technology Group at Vanderbilt. (1992). Anchored instruction approach to cognitive skills acquisition and intelligent tutoring. In W. Regian &

V. J. Shute (Eds.), *Cognitive approaches to automated instruction* (pp. 135-170). Hillsdale, NJ: Lawrence Erlbaum Associates.

Hasselbring, T.S. with the Cognition and Technology Group at Vanderbilt. (1992). Designing learning environments that support thinking: The Jasper series as a case study. In T. A. Duffy, J. Lowyck, & D. H. Johassen, (Eds.), *Designing Environments for Constructive Learning* (pp. 1-28). Springer-Verlag.

Hasselbring, T.S. with the Cognition and Technology Group at Vanderbilt. (1992). Anchored instruction in science and mathematics: Theoretical basis, developmental projects, and initial research findings. In R. A. Duschl & R. J. Hamilton (Eds.), *Philosophy of science, cognitive psychology, and educational theory and practice* (pp. 244-273). NY: SUNY Press.

Hasselbring, T.S. with the Cognition and Technology Group at Vanderbilt. (1992). The Jasper series: A generative approach to mathematical thinking. In K. Sheingold, L. G. Roberts, & S. M. Malcolm (Eds.), *This Year in Science Series 1991: Technology for Teaching and Learning* (pp. 108-140). Washington, DC: American Association for the Advancement of Science.

Bransford, J.D., Sherwood, R.D., Hasselbring, T.S., Kinzer, C.K., & Williams, S.M. (1990). Anchored instruction: Why we need it a how technology can help. In D. Nix & R. Spiro (Eds.), *Cognition, education, and multimedia: Exploring ideas in high technology* (pp. 115-141). Hillsdale, NJ: Lawrence Erlbaum Associates.

Hasselbring, T.S., & Moore, P. (1990). Computer-based assessment and error analysis. In B. Gable & J.M. Hendrickson (Eds.), *Assessing Students with Special Needs*. New York: Longman Publishing Company.

Hasselbring, T.S., & Goin, L.I. (1989). Use of computers. In G. Robinson & E. Polloway (Eds.) *Best Practices in Mild Mental Retardation*. Reston, VA: Council for Exceptional Children, Division of Mental Retardation.

Bransford, J., Hasselbring, T., Barron, B., Kulewicz, S., Littlefield, J., & Goin, L. (1988). Uses of macro-contexts to facilitate mathematical thinking. In R. I. Charles & E. A. Silver (Eds.), *The teaching and assessing of mathematical problem solving* (pp. 125-147). Hillsdale, NJ: Lawrence Erlbaum Associates & National Council of Teachers of Mathematics.

Bransford, J.D., Sherwood, R.D., & Hasselbring, T.S. (1988). Effects of the video revolution on development: Some initial thoughts. In G. Foreman & P. Pufall (Eds.), *Constructivism in the computer age* (pp. 173-201). Hillsdale, NJ: Lawrence Erlbaum Associates.

Hasselbring, T.S., & Goin, L.I. (1988). Microcomputer applications to instruction. In E.A. Polloway, J.S. Payne, J.R. Patton & R.A. Payne (Eds.), *Strategies for Teaching Retarded Students* (4th Edition). Columbus, OH: Charles E. Merrill Publishing Company.

Hasselbring, T.S. & Goin, L.I. (1988). Best practices for computer use with mentally disabled learners. In G. Robinson & E. Polloway (Eds.), *Best Practices In Mental Disabilities - Volume II*. Des Moines, Iowa: Iowa Department of Education.

Bransford, J. D., Delclos, V., Vye, N., Burns, S., & Hasselbring, T. (1987). Approaches to dynamic assessment: Issues, data and future directions. In C. Lidz (Ed.), *Dynamic assessment: An international approach to evaluating learning potentials* (pp. 479-495). New York: Guilford Press.

Hasselbring, T.S., & Cavanaugh, K. J. (1986). Applications in special education: A focus on mild learning handicaps. In C. Kinzer, R. Sherwood, & J. Bransford (Eds.), *Computer Strategies for Education: Foundations and Content Area Applications* (pp. 289-312). Columbus, OH: Charles E. Merrill Publishing Company.

Hasselbring, T.S. (1986). Specialized services and expert systems: An examination of the potential and reality. In D. Johnson, C. Maddux, & C. Candler (Eds.), *Computers in the Special Education Classroom*. New York: The Haworth Press.

Hasselbring, T.S. (1986). Toward the development of expert assessment systems. In R.E. Bennett & C.A. Maher (Eds.), *Emerging Perspectives on Assessment of Handicapped Children*. New York: The Haworth Press.

Hasselbring, T.S. (1986). History and status of computers in education. In C. Kinzer, R. Sherwood, & J. Bransford (Eds.), *Computer Strategies for Education: Foundations and Content Area Applications* (pp. 15-30). Columbus, OH: Charles E. Merrill Publishing Company.

Hasselbring, T.S. (1985). Microcomputer applications to instruction. In E.A. Polloway, J.S. Payne, J.R. Patton & R.A. Payne (Eds.), *Strategies for Teaching Retarded Students* (3rd Edition) (pp. 154-175). Columbus, OH: Charles E. Merrill Publishing Company.

Hasselbring, T.S. (1984). Computer-based assessment of special-needs students. In R.E. Bennett & C.A. Maher (Eds.), *Microcomputers and Exceptional Children* (pp. 7-19). New York: The Haworth Press.

### **Journal Articles**

Mendiburo, M., Hasselbring, T. (in press). Technology's impact on fractions learning: An experimental comparison of virtual and physical manipulatives. *Journal of Computers in Mathematics and Science Teaching*.

Mendiburo, M., Hasselbring, T., & Biswas, G. (in press). Teaching Fractions with Technology: What type of support do students need as they learn to build and interpret visual models of fractions ordering problems? *Journal of Cognitive Education and Psychology*.

Mendiburo, M., Sulcer, B., & Hasselbring, T. (in press) Designing effective virtual manipulatives for teaching fractions: A comparison of different methods of delivering formative feedback to students.

Zydney, J.M., & Hasselbring, T. S. (in press). Mini-anchors: A universal design for learning approach. *TechTrends*.

- Zydney, J.M., Bathke, A., & Hasselbring, T. (2013). Enhancing anchored instruction with direct instruction and other scaffolding tools. *Interactive Learning Environments*, doi: 10.1080/10494820.2012.745436.
- Bruhn, A. L., & Hasselbring, T. S. (2013). Increasing student accessibility to content area textbooks. *Intervention in School and Clinic*, 49, 30-38.
- Hasselbring, T.S. (2012). Five reasons readers need technology. *Educational Leadership*, 69, <http://www.ascd.org/publications/educational-leadership/mar12/vol69/num06/Five-Reasons-Readers-Need-Technology.aspx>
- Grincewicz, A., Zydney, J.M., Jones, P., & Hasselbring, T. (2011). The role of human-technology scaffolding in changing the dynamics of the classroom. *Journal of Computers in Mathematics and Science Teaching*, 30 (3), 229-249.
- Zydney J.M., Stegeman C., Bristol L., & Hasselbring T. (2010). Improving a multimedia learning environment to enhance students' learning, transfer, attitudes and engagement. *International Journal of Learning Technology*, 5(2), 147-165.
- Hasselbring, T. S., Bausch, M. E. (2005 – 2006). Assistive technologies for reading. *Educational Leadership*, 62(4), 72-75.
- Bausch, M.E., Mittler, J.E., Hasselbring, T.S., & Cross, D.P. (2005). The assistive technology act of 2004: What does it say and what does it mean? *Physical Disabilities: Education and Related Services* 23(2), 59-67.
- Hasselbring, T. S., Lewis, P., Bausch, M. E. (2005). Assessing students with disabilities: Moving assessment forward through universal design. *InSight*. 5, 1-15. (available online <http://www.iaete.org/insight>).
- Bausch, M.E. & Hasselbring, T.S. (2005). Using AT: Is it working? *Threshold* 2(4), 7-9.
- Bausch, M.E. & Hasselbring, T.S. (2004). Assistive technology: Are the necessary skills and knowledge being developed at the preservice and inservice levels? *Teacher Education and Special Education* 27(2), 97-104.
- Hasselbring, T.S. & Goin, L.I. (2004). Literacy instruction for older struggling readers: What is the role of technology? *Reading and Writing Quarterly*, 20(2), 123-144.
- Hasselbring, T.S. A possible future of special education technology. (2001). *Journal of Special Education Technology*. 16(4), 19-26.
- Taylor, R., Hasselbring, T.S., & Williams, R.D. (2001). Reading, writing, and misbehavior. *Principal Leadership*, 2(2), 33-38.
- Lahm, L.A., Bausch, M.E., Hasselbring, T.S., & Blackhurst, A.E. (2001). National Assistive Technology Research Institute. *Journal of Special Education Technology*, 16(3), 15-22.

- Christle, C.A., Hess, J.M., & Hasselbring, T.S. (2001). Technology research in practice: Taking a virtual trip to the mall to learn math. *Special Education Technology Practice*, 3(2), 23-31.
- Hasselbring, T.S. & Williams Glaser, C. (2000). Use of computer technology to help students with special needs. *The Future of Children*, 10(2), 1-21.
- Bottge, B. A., & Hasselbring, T.S., (1999). Teaching Mathematics to Adolescents with Disabilities in a Multimedia Environment. *Intervention in School, & Clinic*.35(2), 113-116.
- Hasselbring, T.S., Goin, L., Taylor, R. Bottge, B., & Daley, P. (1997). The computer doesn't embarrass me. *Educational Leadership*, 55(3), 30-33.
- Goldman, S. R., Hasselbring, T. S., and the Cognition and Technology Group at Vanderbilt. (1997). Achieving meaningful mathematics literacy for students with learning disabilities. *Journal of Learning Disabilities*, 30(2), 198-208.
- Hasselbring, T.S. with the Cognition and Technology Group at Vanderbilt. (1996, Aug.). A multimedia literacy series that celebrates authorship and books. *Communications of the Association for Computing Machinery (ACM)*, Vol. 39(8), 106-109.
- Hasselbring, T.S. & Moore, P.R. (1996). Developing mathematical literacy through the use of contextualized learning environments. *Journal of Computing in Childhood Education*, 7(3/4), 199-222.
- Hasselbring, T.S. with the Zech, L., Vye, N. J., Bransford, J. D., Swink, J., Mayfield-Stewart, Goldman, S. R., & Cognition and Technology Group at Vanderbilt. (1994). Bringing geometry into the classroom with videodisc technology. *Mathematics Teaching in the Middle School*, 1(3), 228-233.
- Bottge, B. A., & Hasselbring, T.S. (1993). Taking word problems off the page. *Educational Leadership*, 50(7), 36-38.
- Bottge, B. A., & Hasselbring, T.S. (1993). A comparison of two approaches for teaching complex, authentic mathematics problems to adolescents with learning difficulties. *Exceptional Children*, 59(6), 556-566.
- Hasselbring, T.S. with the Cognition and Technology Group at Vanderbilt. (1993). The Jasper experiment: Using video to furnish real-world problem-solving contexts. *Arithmetic Teacher*, 4, 474-478.
- Hasselbring, T.S. with Barron, B., Kantor, R., and Cognition and Technology Group at Vanderbilt. (1993). Tools to enhance math education: The Jasper series. *Communications of the ACM (Association of Computing Machines)*, 36, 52-54.
- Hasselbring, T.S. with the Cognition and Technology Group at Vanderbilt. (1993). Integrated media: Toward a theoretical framework for utilizing their potential. *Journal of Special Education Technology*, 12(2), 71-85.

- Hasselbring, T.S. with the Cognition and Technology Group at Vanderbilt. (1993). Examining the cognitive challenges and pedagogical opportunities of integrated media systems: Toward a research agenda. *Journal of Special Education Technology*, 12(2), 118-124.
- Hasselbring, T.S. with the Cognition and Technology Group at Vanderbilt. (1993). Anchored instruction and situated cognition revisited. *Educational Technology*, 33(3), 52-70.
- Hasselbring, T.S. with the Cognition and Technology Group at Vanderbilt. (1992). The Jasper Experiment: An exploration of issues in learning and instructional design. *Educational Technology Research and Development*, 40, 65-80.
- Hasselbring, T.S. with the Cognition and Technology Group at Vanderbilt. (1992). The Jasper series as an example of anchored instruction: Theory, program description and assessment data. *Educational Psychologist*, 27, 291-315.
- Hasselbring, T.S. (1991). Improving education through technology: Barriers and recommendations. *Preventing School Failure*, 35(3), 33-37.
- Hasselbring, T.S. with the Cognition and Technology Group at Vanderbilt. (1991). Technology and the design of generative learning environments. *Educational Technology*, 31(5), 34-40.
- Hasselbring, T.S., & Goin, L.I. (1991). Enhancing writing through integrated media. *The Writing Notebook*, 9(1), 27-29.
- Hasselbring, T.S. with the Cognition and Technology Group at Vanderbilt. (1990). Anchored instruction and its relationship to situated cognition, *Educational Researcher*, 19(6), 2-10.
- Hasselbring, T.S. with the Cognition and Technology Group at Vanderbilt. (1990). Enhancing learning in at-risk students: Applications of video technology. *Eric Digest*.
- Hasselbring, T.S., Goin, L.I., & Wissick, C. (1989). Making knowledge meaningful: Applications of hypermedia. *Journal of Special Education Technology*, 10(2), 61-72.
- Finkel, L., Talley, S., & Hasselbring, T.S. (1989). Information U.S.A in the U.S.S.R. *Update*, 1(7),1-3.
- Meltzer, L.J. & Hasselbring, T.S. (1989). The evolution of the laptop computer. *Journal of Special Education Technology*, 9(4), 178-182.
- Hasselbring, T.S., Goin, L.I., & Bransford, J.D. (1988). Developing math automaticity in learning handicapped children: The role of computerized drill and practice. *Focus on Exceptional Children*, 20(6), 1-7.
- Bransford, J.D., Goin, L.I., Hasselbring, T.S., Kinzer, C.K., Sherwood, R.D., & Williams, S.M. (1988). Learning with technology: Theoretical and empirical perspectives. *Peabody Journal of Education*, 64(1), 5-26.

- Hasselbring, T.S., Sherwood, R.D., Bransford, J.D., Fleenor, K., Griffith, D. & Goin, L. (1987-88). An evaluation of a level-one videodisc program. *Journal of Educational Technology Systems*, 16(2) 151-169.
- Hendrickson, J.M., Gable, R.A. & Hasselbring, T.S. (1988). Pleeze lit me pas splelin": Diagnosing and remediating errors in spelling. *Education & Treatment of Children*, 11(2), 166-178.
- Fuchs, L.S., Fuchs, D., Hamlett, C.L., & Hasselbring, T.S. (1987). Using computers with curriculum-based monitoring: Effects on teacher efficiency and satisfaction. *Journal of Special Education Technology*, 8(4), 14-27.
- Hasselbring, T.S., Goin, L.I., & Bransford, J.D. (1987). Effective mathematics instruction: Developing automaticity. *Teaching Exceptional Children*, 19(3), 30-33.
- Sherwood, R.D., Kinzer, C.K., Hasselbring, T.S., & Bransford, J.D. (1987). Macro-contexts for learning: Initial findings and issues. *Applied Cognitive Psychology*, 1, 93-108.
- Hasselbring, T.S. (1986). Specialized services and expert systems: An examination of the potential and reality. *Computers in the Schools*, 3(3/4), 173-183.
- Hasselbring, T.S. (1986). Research on the effectiveness of computer-based instruction: A review. *International Review of Education*, 32, 313-324.
- Hasselbring, T.S. (1986). Toward the development of expert assessment systems. *Special Services in the Schools*, 2(2/3), 43-56.
- DeMaster, V.K., Crossland, C.L., & Hasselbring, T.S. (1986). The consistency of spelling performance in learning disabled students. *Learning Disability Quarterly*, 9(1), 89-96.
- Sherwood, R.D., & Hasselbring, T.S. (1986). A comparison of student achievement across three methods of presentation of a computer based science simulation. *Computers in the Schools*, 2(4), 43-50.
- Crossland, C.L., & Hasselbring, T.S. (1985). Using microcomputers: Determining reading achievement levels and readability of materials for special needs vocational students. *The Journal for Vocational Special Needs Education*, 8(1), 7-10.
- Hooper, E.H., & Hasselbring, T.S. (1985). Electronic augmentative communication aids for the nonreading student: Selection criteria. *Journal of Special Education Technology*, 7(2), 39-49.
- Hawley, W.D., Rosenholtz, S.J., with Goodstein, H., & Hasselbring, T. (1984). Good schools: What research says about improving student achievement. *Peabody Journal of Education*, 61(4), 1-178.
- Hasselbring, T.S. (1984). Using a microcomputer for imitating student errors to improve spelling performance. *Computers. Reading and Language Arts*, 1(4), 12-14.

- Hasselbring, T.S., & Gray, J.T. (1984). Using the microcomputer for assisting in teacher decision-making. *Peabody Journal of Education*, 62(1), 87-102.
- Hasselbring, T.S. & Hamlett, C. L. (1984). Planning and managing instruction: Computer-based decision-making. *Teaching Exceptional Children*, 16(4), 248-252.
- Rousseau, M., Shores, R. E., Hasselbring, T.S., & Cunningham, J. (1984). Training researchers in special education. *Teacher Education and Special Education*, 7(2), 75-81
- Siedow, M.D., & Hasselbring, T.S. (1984). Altering text readability to increase comprehension of reading disabled students. *Reading Improvement*, 21(4), 276-279.
- Hasselbring, T.S. & Hamlett, C. L. (1983). Voice recognition aids student data collection. *School Microcomputing Bulletin*, 3(4), 175-176.
- Hasselbring, T.S. & Hamlett, C. L. (1983). AIMSTAR: A microcomputer-based program for assisting teachers in instructional decision-making. *School Microcomputing Bulletin*.
- Hasselbring, T.S. & Owens, S.D. (1983). A microcomputer-based system for the analysis of student spelling errors. *Computers. Reading and Language Arts*, 1, 26-31.
- Owens, S. D., Fox, B. J. & Hasselbring, T.S. (1983). The microcomputer: An investigation of its effectiveness for diagnosing spelling errors. *Diagnostique*, 8, 170-178.
- Crossland, C. L., Hasselbring, T.S., & O'Brien, J. K. (1982). Project IMPACT: Using technology to improve inservice education. *Teacher Education and Special Education*, 5, 53-58.
- Hasselbring, T.S. (1982). Remediating spelling problems in learning-handicapped students through the use of microcomputers. *Educational Technology*, 22, 31-32.
- Hasselbring, T.S., & Crossland, C. L. (1982). Application of microcomputer technology to spelling assessment of learning disabled students. *Learning Disability Quarterly*, 5, 80-82.
- Greene, J. C., & Hasselbring, T.S. (1981). Acquisition of language concepts by hearing impaired children through selected aspects of an experimental core art curriculum. *Studies in Art Education*, 22, 32-37.
- Hasselbring, T.S., & Crossland, C. L. (1981). Using microcomputers for diagnosing spelling problems in learning-handicapped children. *Educational Technology*, 21, 37-39.
- Hasselbring, T.S. (1981). Examining the efficacy of a computer-assisted teacher training system for rural school systems. *Carolina Journal of Education Research*, 2, 1-13.
- Hasselbring, T.S., & Duffus, N. A. (1981). Using microcomputer technology in music therapy for analyzing therapist and client behavior. *Journal of Music Therapy*, 28, 156-165.
- Crossland, C. L., & Hasselbring, T.S. (1979). One community responds. *Education Unlimited*, 1, 35-36.



## **Proceedings and Technical Reports**

Mendiburo, M., Williams, L., Segedy, J., Wright, M., Biswas, G., Hasselbring, T. (in press). An investigation of the effect of competition on the way students engage in game-based deliberate practice. *The 13th IEEE International Conference on Advanced Learning Technologies*. ICALT 2013: Beijing, China.

Mendiburo, M., Sulcer, B., Biswas, G., and Hasselbring, T. (in press). "Virtual manipulatives, formative feedback, and fractions." In S. Cerri, W. Clancey, G. Papadourakis, and K. Panourgia (Eds.), *Intelligent Tutoring Systems: 11<sup>th</sup> International Conference*.

Mendiburo, M., Biswas, G., and Hasselbring, T. (2012). Design-based research in practice: A technology-based classroom experiment that explores how students use virtual manipulatives to order groups of fractions. In van Aalst, J., Thompson, K., Jacobson, M. J., & Reimann, P. (Eds.), *The Future of Learning: Proceedings of the 10th International Conference of the Learning Sciences (ICLS 2012) – Volume 2, Short Papers, Symposia, and Abstracts* (pp. 573-574). International Society of the Learning Sciences: Sydney, NSW, Australia.

Mannheimer Zydney, J., Todd, A. and Hasselbring, T. (2007). Involving Students in the Software Design Process: A Design-Based Research Study on Students' Motivation. In C. Montgomerie & J. Seale (Eds.), *Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2007* (pp. 3666-3675). Chesapeake, VA: AACE.

Hasselbring, T.S., Lott, A.L., Zydney, J.M. (2005). Technology-supported math instruction for students with disabilities: Two decades of research and development. Paper presented at the Center for Implementing Technology in Education Summer Institute. Bedford, NH.

Frost, S. & Hasselbring, T.S. (2004). High school reality check: Too few readers, too many dropouts. *School Board News*. 24(14), 2&6.

Hasselbring, T.S. with the National Governor's Association Study Panel. (1999). Transforming learning through technology: Policy roadmaps for the nation's governors. National Governor's Association Center for Best Practices, Washington, DC.

Hasselbring, T.S. with the Cognition and Technology Group at Vanderbilt. (1996). *Generative learning and anchored instruction: Design, research and implementation issues*. Paper presented at the ICO Symposium at the University of Twente, Netherlands.

Hasselbring, T.S. with Biswas, G., Goldman, S., Crews, T., & the Cognition and Technology Group at Vanderbilt. (1993). *Development of an adventuremaker for trip planning*. (Tech. Rep. 93-1). Nashville: Vanderbilt University, Learning Technology Center.

Hasselbring, T.S. with Cognition and Technology Group at Vanderbilt. (1992, March). *Problem solving environments that enhance student learning in mathematics and science*. Paper presented at the AIAA Space Programs and Technologies Conference, Huntsville, AL.

- Bransford, J.D., Goin, L.I., Goldman, S.R., Hasselbring, T.S., Pellegrino, J.W., Sharp, D., & Vye, N.J. (1991). *Integrated media: Toward a theoretical framework for utilizing their potential*. In Proceedings of Multimedia Technology Seminar sponsored by the Center for Special Education Technology, Washington, D.C.
- Hasselbring, T.S., Goin, L.I., & Bransford, J.D. (1991). *Examining the Cognitive Challenges and Pedagogical Opportunities of Integrated Media Systems: Toward a research agenda*. In Proceedings of Multimedia Technology Seminar sponsored by the Center for Special Education Technology, Washington, D.C.
- Hasselbring, T., with the Cognition and Technology Group at Vanderbilt. (1991, April). *Video environments for connecting mathematics, science, and other disciplines*. Paper presented at the Wingspread Conference on Integrated Science and Mathematics Teaching and Learning. Racine, WI.
- Hasselbring, T.S., with the Cognition and Technology Group at Vanderbilt. (1991). The use of microcomputer based videodisc technology to enhance student learning. In *Proceedings of the IEEE Southeast Conference, 1991*, Williamsburg, VA.
- Hasselbring, T.S., Sherwood, R.D., Bransford, J.D., Mertz, J., Estes, B., Marsh, J., & Van Haneghan, J. (1991). *An evaluation of specific videodisc courseware on student learning in a rural school environment*. (Technical Report) Nashville, TN: Vanderbilt University, Learning Technology Center.
- Hasselbring, T.S. with Pellegrino, J. W., Hickey, D., Heath, A., Rewey, K., Vye, N. J., & Cognition and Technology Group at Vanderbilt. (1991). *Assessing the outcomes of an innovative instructional program: The 1990-1991 implementation of the "Adventures of Jasper Woodbury"* (Tech. Rep. No. 91-1). Nashville, TN: Vanderbilt University Learning Technology Center.
- Hasselbring, T.S., Okey, J., Brittain, D., & Uhlig, G. (1990). *Education Issues in the South for the 90's: Uses of Technology in Education*. Prepared for the Bell South Foundation, Atlanta, GA.
- Hasselbring, T.S. with the Cognition and Technology Group at Vanderbilt. (1990). *Designing invitations to thinking*. A Final Report to the James S. McDonnell Foundation, St. Louis, MO.
- Hasselbring, T.S. with the Cognition and Technology Group at Vanderbilt. (1989). *Anchored instruction and its relationship to situated cognition*. (Technical Report) Nashville, TN: Vanderbilt University, Learning Technology Center.
- Hasselbring, T.S., Hendrickson, J.M., & Gable, R.A. (1989). *Helping the persistently poor speller through diagnostic assessment*. (Technical Report) Gainesville, FL: University of Florida Multidisciplinary Diagnostic and Training Program.

- Hasselbring, T.S., Moore, P., & Hendrickson, J.M. (1989). *Computer-based assessment and error analysis*. (Technical Report) Gainesville, FL: University of Florida Multidisciplinary Diagnostic and Training Program.
- Hasselbring, T.S. (1987). Effective microcomputer training and implementation. *Proceedings of the Third Annual Conference of the Special Education Software Center*.
- Sherwood, R.D., Kinzer, C.K., Hasselbring, T.S., & Bransford, J.D., Williams, S., & Goin, L.I. (1987). New directions for videodiscs. *The Computing Teacher*, 14(6), 10-13.
- Bransford, J.D., Delclos, V.R., Vye, N.J. Burns, M.S., & Hasselbring, T.S. (1986). *Improving the quality of assessment and instruction: Roles for dynamic assessment*. (Technical Report) Nashville, TN: Vanderbilt University, Learning Technology Center.
- Bransford, J.D., Sherwood, R.D., & Hasselbring, T.S. (1986). *Computers, videodiscs, and the teaching of thinking*. (Technical Report) Nashville, TN: Vanderbilt University, Learning Technology Center.
- Hasselbring, T.S., Sherwood, R.D., Bransford, J.D., Fleenor, K., & Griffith, D. (1986). *An evaluation of the Mastering Fractions level-one instructional videodisc program*. (Technical Report) Nashville, TN: Vanderbilt University, Learning Technology Center.
- Bransford, J.D., Sherwood, R.D., Kinzer, C.K., & Hasselbring, T.S. (1985). *Havens for learning: Toward a framework for developing effective uses of technology*. (Technical Report) Nashville, TN: Vanderbilt University, Learning Technology Center.
- Hasselbring, T.S. (1984). *Research on the effectiveness of computer-based instruction: A review*. (Technical Report) Nashville, TN: Vanderbilt University, Learning Technology Center.
- Hasselbring, T.S. (1984). Decision theory, interaction analysis, and microcomputers: Training teachers in empirical decision-making. *Proceedings of the Sixth National Education Computing Conference*.
- Hasselbring, T.S. & Hamlett, C. L. (1982). Using the microcomputer to apply data-based decision rules for assisting in the selection of instructional strategies for the handicapped. *Proceedings of the Twentieth Annual Association for Educational Data Systems Conference*.
- Hasselbring, T.S., & Crossland, C. L. (1981). A study of the effectiveness of computer-assisted feedback for modifying teacher behavior in an inservice setting. *Proceedings of the Third National Educational Computing Conference*, 3, 99-104.
- Hasselbring, T.S. (1978). *Reducing the inappropriate social behavior of moderately retarded students as a function of modifying teacher interactive behavior using the Computer Assisted Teacher Training System [CATTs]*. Bloomington, Indiana: Center for Innovation in Teaching the Handicapped, Indiana University, 245 pp.
- Semmel, M., Sitko, M., Semmel, D., Frick, T. & Hasselbring, T.S. (1976). *The effects of Computer Assisted Teacher Training System feedback in a preservice special education*

*teacher training program*. Bloomington, Indiana: Center for Innovation in Teaching the Handicapped, Indiana University, 120 pp.

### **Software**

Hasselbring, T.S., & Goin, L.I. (2011). *Read 180 - Next Generation* [Computer Software]. New York, NY: Scholastic, Inc.

Hasselbring, T.S. & Adams, M.J. (2008) *System 44* [Computer Software]. New York, NY: Scholastic, Inc.

Hasselbring, T.S., & Goin, L.I. (2005). *FASTT Math* [Computer Software]. Boston, MA: Tom Snyder Productions.

Goin, L.I., & Hasselbring, T.S. (2003). *Simon SIO – Stage 1* [Computer Software]. Wauconda, IL: Don Johnston, Inc.

Hasselbring, T.S., & Goin, L.I. (1999). *Read 180* [Computer Software]. New York, NY: Scholastic, Inc.

Goin, L.I., & Hasselbring, T.S. (1997). *Simon Sounds It Out* [Computer Software]. Wauconda, IL: Don Johnston, Inc.

Goin, L.I., & Hasselbring, T.S. (1997). *Simon Spells* [Computer Software]. Wauconda, IL: Don Johnston, Inc.

Goin, L.I., & Hasselbring, T.S. (1997). *MP Express* [Computer Software]. Toronto, Canada: Bytes of Learning, Inc.

Hasselbring with the Cognition and Technology Group. (1997) *The Adventures of Jasper Woodbury: A Mathematical Problem Solving Series* [Videodisc]. Mahwah, NJ: Lawrence Erlbaum & Associates.

Hasselbring, T.S., & Goin, L.I. (1989). *DLM Math Fluency* [Computer Software].

Hasselbring, T.S., & Hamlett, C.L. (1983). *Aimstar* [Computer Software]. Portland, OR: ASIEP Education Co.

### **Editorial Consulting**

Editorial Board, *Journal of Cognitive Education and Psychology*

Editorial Board, *Educational Technology Research and Development*

Editorial Board, *Educational Technology*

Editorial Board, *Peabody Journal of Education*

Editorial Board, *Educational Multimedia and Hypermedia*

Editorial Board, *Computers in Human Services*

Editorial Board, *Journal of Special Education Technology*

Consulting Editor, *Journal of Educational Research*  
Consulting Editor, *Teaching Exceptional Children*  
Guest Reviewer, *Journal of Learning Disabilities*  
Guest Reviewer, *American Education Research Journal*  
Guest Reviewer, *Teacher Education and Special Education*  
Guest Reviewer, *Exceptional Children*  
Guest Reviewer, *Special Services in the Schools*  
Manuscript Reviewer, Wadsworth Publishing Co.  
Manuscript Reviewer, Merrill Publishing Co.

### **Addresses and Papers at Professional Meetings**

- “Emerging Technologies to Improve Middle School Literacy: The Role of Data Analytics Within a New Universal Literacy Network (ULN). 2013 OSEP Project Directors’ Conference. Washington, DC. July, 2013.
- “Using Technology to Drive Data-Based Decisions for Struggling Students.” 21<sup>st</sup> Annual Model Schools Conference. Washington, DC. July, 2013.
- “The Power of Adaptive Technology in Reading Intervention Programs.” ASCD Annual. Chicago, IL. March, 2013.
- “Developing and Validating a Computer-Based Assessment of Foundational Fractions: A Pilot Analysis. AERA Annual Meeting. Vancouver, BC. April, 2012.
- “Using Technology to Build Fluency in Literacy and Mathematics.” 20<sup>st</sup> Annual Model Schools Conference. Orlando, FL. June, 2012.
- “Using Technology to Unleash Potential for Gifted and Talented Students.” International Reading Association 57<sup>th</sup> Annual Convention. Chicago, IL. April, 2012.
- “A Roadmap to Improve Literacy with Secondary Students: Helping Struggling Readers Make Dramatic Gains with System 44 and READ 180. International Reading Association 57<sup>th</sup> Annual Convention. Chicago, IL. April, 2012.
- “Differentiating Literacy Instruction for Special Populations.” International Reading Association 56<sup>th</sup> Annual Convention. Orlando, FL. May, 2011.
- “The Interaction between Content, Vocabulary, and Comprehension Instruction: Research to Practice. International Reading Association 56<sup>th</sup> Annual Convention. Orlando, FL. May, 2011.
- “Brain-Based Learning: Reading Research to practical Application.” Council of New York Education Administrators Spring Conference. Albany, NY. March, 2011.
- “The Power of Adaptive Technology in Reading Intervention Programs.” ASCD Annual Conference. San Francisco, CA. March, 2011.

“Using Adaptive Technology to Turn Struggling Readers into Competent Readers.” National Title I Conference. Seattle, WA. January, 2011.

“Effective Strategies for Building Successful Readers.” 9<sup>th</sup> Annual Tennessee Educational LEADership Conference. Nashville, TN. September 2010.

“Enabling Learners to Make Informed Decisions within a Learning Environment.” 2010 Eastern Educational Research Association. Savannah, GA. February, 2010.

“Rethinking How We Teach Mathematics with Technology to Struggling Learners.” 2010 Florida Educational Technology Conference. Orlando, FL. January, 2010.

“Developing Automatic Recall of Math Facts for All Students.” 17th Annual Model Schools Conference. Atlanta, GA. June, 2009.

“Using Technology to Differentiate Reading Instruction.” Council for Exceptional Children Annual Convention, Seattle, WA. April, 2009.

“Technology: A Multiplier on Productivity in Supporting the Older Struggling Reader.” Council for Exceptional Children Annual Convention, Seattle, WA. April, 2009.

“Trends and Issues in Special Education Technology: What They Mean to You.” Council for Exceptional Children Annual Convention, Seattle, WA. April, 2009.

“Using Technology to Build Background Knowledge for Enhancing Vocabulary and Comprehension.” . International Reading Association 54<sup>th</sup> Annual Convention West. Phoenix, AZ. February, 2009.

“The ‘Reading’ Brain and the Role of Technology.” Florida Educational Technology Conference. Orlando, FL. January, 2009.

“Beyond Drill and Practice: Developing Automatic Recall of Math Facts for All Students.” Florida Educational Technology Conference. Orlando, FL. January, 2009.

“Breaking the Literacy Failure Cycle with Technology.” 16th Annual Model Schools Conference. Orlando, FL. June, 2008.

“Making Math Meaningful: Can a Learning Game Improve Students’ Achievement and Attitudes about Math. AERA Annual Meeting. New York, NY. March, 2008

Featured Speaker: “Computer-Based Assessment of Decoding Proficiency.” Technology, Reading and Learning Diversity Conference. San Francisco, CA. January, 2008.

Featured Speaker: “Technology, Reading, and the Science of Learning.” Technology, Reading and Learning Diversity Conference. San Francisco, CA. January, 2008.

Featured Speaker: “Developing Decoding Proficiency with Technology.” Technology, Reading and Learning Diversity Conference. San Francisco, CA. January, 2008.

“Maximizing Learning for Special Needs Students using Instructional Software.” READ 180 National Summer Institute. San Francisco. July, 2007.

Featured Speaker: “Literacy: The Key to Success.” 15<sup>th</sup> Annual Model Schools Conference. Washington, DC. July, 2007.

Keynote: “Comprehension and Vocabulary Instruction for Struggling Learners.” Louisiana Literacy Conference. Baton Rouge, LA. June, 2007

“READ 180 and Struggling Readers: Perfect Together.” Newark Public Schools Superintendent’s Annual Curriculum Conference. Newark, NJ. May, 2007.

“Learning to Read with Technology.” Council for Exceptional Children Convention and Expo. Louisville, KY. April, 2007.

“The National Assistive Technology Research Institute’s Top Ten List of Findings.” Council for Exceptional Children Convention and Expo. Louisville, KY. April, 2007.

“Teaching Reading with Technology.” Texas Computer Education Association Conference. Austin, TX. February, 2007.

“Using Anchored Instruction in Literacy.” Technology, Reading & Learning Diversity Annual Conference. San Francisco, CA. January, 2007.

“Computer-based Assessment of Decoding Proficiency.” Technology, Reading & Learning Diversity Annual Conference. San Francisco, CA. January, 2007.

“Learning to Read with Technology.” Florida Educational Technology Conference. Orlando, FL. January, 2007.

“Using Technology to Build Literacy in the Older Struggling Reader.” West Virginia Reading Conference, Greenbrier, WV. December, 2006.

Featured Speaker: “The Research Foundation and Evidence of Effectiveness of Technology to Support Struggling Students.” 39<sup>th</sup> Annual Keystone State Reading Conference, Champion, PA. October, 2006.

Keynote: “eLearning +eTools = eXcellence for All Students” 39<sup>th</sup> Annual North Carolina ASCD Conference, Greensboro, NC. October, 2006.

Keynote: “Increasing Math Achievement of Marginal and Special Education Students.” New Jersey Special Education Benchmarking Consortium, Tenafly, NJ. October, 2006.

“What We Know About Adolescent Reading.” 14<sup>th</sup> Annual Model Schools Conference, Kissimmee, FL., June, 2006.

- “Using Technology for Phonics and Word Study.” Technology, Reading & Learning Difficulties Annual Conference. San Francisco, CA. January, 2006.
- “Understanding the Science of Learning, Technology and Literacy.” Technology, Reading & Learning Difficulties Annual Conference. San Francisco, CA. January, 2006.
- “Using Assistive Technology Implementation Plans.” Annual meeting of the Assistive Technology Industry Association Conference, Orlando, FL. January, 2006.
- “AT service providers: What do they do? How are they trained?” Annual meeting of the Teacher Education Division of the Council for Exceptional Children, Portland, ME. November, 2005.
- “Technology and Intervention for Students with Disabilities.” New York State Federation of the Council for Exceptional Children Annual Conference, Melville, NY, October, 2005.
- “Fluency and Automaticity through Systematic Teaching with Technology (FASTT) Math: Helping Struggling Students Develop Computational Fluency.” 37<sup>th</sup> Annual National Council of Supervisors of Mathematics Conference, Anaheim, CA., April 2005.
- “Helping the Adolescent Struggling Reader Break the Literacy Failure Cycle.” 65<sup>th</sup> Annual National School Board Association Conference, San Diego, CA. April, 2005.
- “Fact Fluency: The Phonics of Mathematics.” Florida Educational Technology Conference, Orlando, FL. January, 2005.
- “A National Assistive Technology Research Institute update: The prevalence of assistive technology.” Annual meeting of the Assistive Technology Industries Association, Orlando, FL. January, 2005.
- “Enhancing Comprehension Through the Development of Accurate Mental Models. 49<sup>th</sup> Annual International Reading Association Convention, Reno, NV. May, 2004.
- “Debunking Universal Design – Assistive Technology Myths: Complementary Sides of the Coin.” 2004 Council for Exceptional Children Annual Convention, New Orleans, LA. April, 2004.
- “Findings of the National Assistive Technology Research Institute.” Council for Exceptional Children Annual Convention, New Orleans, LA. April, 2004.
- “Computer Based Assessment of Reading and Math Fluency: New Tools for an Old Problem.” Florida Educational Technology Conference, Orlando, FL. January, 2004.
- “Helping the Older Struggling Reader Through the Use of Technology.” High School Leadership Summit, Washington, DC. October, 2003.
- “Power to Learn.” National Educational Computing Conference, Seattle, WA. June, 2003.



- “Anchored Instruction as Effective Reading Intervention.” 48<sup>th</sup> Annual International Reading Association Convention, Orlando, FL. May, 2003.
- “Simon SIO – It’s What’s Up with Word Study. 48<sup>th</sup> Annual International Reading Association Convention, Orlando, FL. May, 2003.
- “Findings of the National Assistive Technology Research Institute.” Council for Exceptional Children Annual Convention, Seattle, WA. April, 2003.
- “An Increasing Emphasis on Fluency: Is Technology Our Best Hope? Florida Educational Technology Conference, Orlando, FL. February, 2003.
- “The National Assistive Technology Research Institute (NATRI).” Hawaii International Conference on Education, Honolulu, HI. January, 2003.
- “Technology and the Science of Learning.” Computer Using Educators Conference, Sacramento, CA. October, 2002.
- “Applying the Science of Learning to Technology for Students with Disabilities.” OSEP Fifth Project Director’s Meeting, Washington, D.C. September, 2002.
- “Assistive Technology: Covering the Bases.” Office of Special Education Programs, Project Directors Meeting, Washington, DC. July, 2002.
- “An Overview of the National Assistive Technology Research Institute.” Council for Exceptional Children Annual Convention and Expo. New York, NY, April, 2002.
- “Breaking the Literacy Failure Cycle.” Florida Educational Technology Conference. Orlando, FL. March, 2002.
- “The National Assistive Technology Research Institute.” Closing the Gap, Minneapolis, MN. October, 2001.
- “Breaking Through Existing Mindsets Using Technology Tools.” The Business and Education 2001 Conference. Washington, DC, May, 2001.
- “An Overview of the National Assistive Technology Research Institute.” Council for Exceptional Children Annual Convention and Expo. Kansas City, MO, April, 2001.
- Featured Speaker – “Software for the Special-Needs Learner.” Kentucky Teaching and Learning Conference 2001. Louisville, KY. March, 2001.
- Keynote – “New Learning Tools: Web-based Solutions for Middle School Literacy and Mathematics.” Consortium for School Networking 6<sup>th</sup> Annual Conference. Washington, D.C. February, 2001.

- “Integration of Technology for Assessment and Instruction for Children and Youth with Challenging Behaviors.” Council for Children with Behavior Disorders Forum. Las Vegas, NV. February, 2001.
- “Future Trends in Technology and Education.” U.S. Office of Special Education Programs Fourth Project Director’s Meeting. Washington, D.C. February, 2001.
- “Literacy and Learning.” Technology and Media Conference. Albuquerque, NM. January, 2001.
- “University of Kentucky Assistive Technology Research Institute.” Technology and Media Conference. Albuquerque, NM. January, 2001.
- “Are Computers Changing the Way that Children Learn?” Workshop on Children and Computer Technology. National Academy of Sciences. Washington, D.C. January, 2001.
- “What Research Says About the Future of Technology and Learning.” Grantmakers for Education Fourth Annual Conference. Boston, MA. November, 2000.
- Keynote – “Merging the Science of Learning with Technology: The Next Great Challenge in Education.” The Joint Iowa ASCD-ITEC Conference. Des Moines, IA, October 2000.
- “Technology and the Science of Learning: Creating a Synergy for Teaching and Learning.” Kentucky Conference on the Scholarship of Teaching and Learning: Effective Practices. Hebron, KY. May, 2000.
- Keynote -- “Merging Technology with the Science of Learning.” Northwest Council for Computer Education Conference 2000. Portland, OR. April, 2000.
- “Perspectives on educational Technology in Teacher Education.” American Educational Research Association 2000 Annual Meeting. New Orleans, LA, April, 2000.
- “Helping Students with Learning Disabilities Access the Higher Order Curriculum.” Council for Exceptional Children Annual Convention and Expo. Vancouver, British Columbia. April, 2000.
- “Embedding Best Teaching Practices with Technology: The Technology Literacy Connection.” Texas State Reading Association 27<sup>th</sup> Annual Conference. Corpus Christi, TX. March, 2000.
- Highlighted Speaker -- “The Challenge for the New Millennium: Merging the Science of Learning with Technology.” Florida Educational Technology Conference. Orlando, FL. March, 2000.
- “Teaching the Special –Needs Student with Technology.” The Kentucky Teaching and Learning Conference 2000. Louisville, KY. March, 2000
- “Can Technology Really Help Students Learn to Read?” Learning Disabilities Association International Conference. Reno, NV. February, 2000.

Keynote – “Technology Integration for Exceptional Students.” Williamson Co. Conference on Technology Integration. Franklin, TN, February, 2000.

Highlighted Speaker -- “Technology’s Impact on Learning: Can We Do Better in the Next Millennium?” Florida Educational Technology Conference. Orlando, FL. March, 1999.

Keynote -- “Is Technology Effective? Why We Shouldn’t Ask That Question.” Maryland Instructional Computer Coordinators Association Conference. Baltimore, MD. March, 1999.

“Policy and Practice Implications for Technology.” Iowa’s National Forum on Education - Educational Technology Visions. Des Moines, IA. November, 1998.

“The Peabody Literacy Program.” Office of Special Education Programs Technology Projects Meeting. Washington, DC. November, 1998.

“The Computer Doesn’t Embarrass Me.” National Middle School Association Annual Conference. Denver, CO. November, 1998.

Keynote -- “Using Technology to Help Struggling Readers.” Rowan University Conference on Literacy and Technology for At-Risk Readers. Glasboro, NJ. October, 1998.

“High Standards for All -- Is Technology the Answer? Council for Exceptional Children Annual Convention. Minneapolis, MN. April, 1998.

Invited Address -- “Asking If Technology is Effective Is the Wrong Question.” Florida Educational Technology Conference. Orlando, FL. March, 1998.

“A Computer Literacy Program for Reluctant Readers.” 43rd Annual Convention, International Reading Association. Orlando, FL. March 1998.

“Enhancing Literacy Instruction for Students with Learning Disabilities.” Learning Disabilities Association International Conference. Washington, DC. March, 1998.

“Breaking the Failure Cycle in Middle School: A Focus on Literacy.” 15th Annual International TAM Conference on Special Education and Technology. Atlanta, GA. January, 1998

“Enhancing Student Learning Through the Use of Intelligent Software.” 15th Annual International TAM Conference on Special Education and Technology. Atlanta, GA. January, 1998

Invited Address -- “Technology for Students with Learning Disabilities.” Conference on the Development and Validation of Instructional Methods and Support Systems for Students with Learning Difficulties. Yokosuka-shi, Japan. November, 1997.

“Bringing Teacher Education into the New Millennium” 1997 Teacher Education Division Conference, Council for Exceptional Children. Savannah, GA. November, 1997.

Invited Address -- "Research and Development at Peabody's Learning Technology Center for People with Disabilities." The Alliance for Technology Institute ' 97. Nashville, TN. July, 1997.

"Realities of Conducting Field-Based Research." OSEP Research Project Directors' Conference. Washington, DC. July, 1997.

"The Utilization of Technology in Instruction." OSEP Research Project Directors' Conference. Washington, DC. July, 1997.

"Report on NAS Committee on Goals 2000 and the Inclusion of Students with Disabilities." OSEP Research Project Directors' Conference. Washington, DC. July, 1997.

Invited Address -- "The American School Directory." The 6th Annual Gore Family Reunion. Nashville, TN. June 1997.

Invited Address -- "Literacy Instruction for the Middle School." Videoconference on Technology in the Classroom: Multimedia for Literacy. University of Georgia, Athens, GA. March, 1997.

Invited Address -- "Taking Technology into the Schools." U.S. And Japan Common Agenda for Persons with Disabilities. Honolulu, HI. February, 1997.

Invited Address -- "Using Video as a Learning Anchor in K-12 and Higher Education." Information Technology Colloquium Series. University of Texas. Austin, TX. January, 1997.

Keynote Address -- "Individualized Instruction and the Use of Multimedia." The National Special Education Seminar. Ministry of Education, Akita Prefecture, Japan. January, 1997.

"Making All Students Literate: What is the Role of Technology?" Fifteenth Annual Conference - Technology and Information Education Services. Minneapolis, MN. December, 1996.

Invited Address -- "Learning Tomorrow with Today's Technology: Applications for Students with Learning Disabilities." Eighteenth International Conference on Learning Disabilities. Nashville, TN. October, 1996.

Chairperson -- "Critical Issues in the Effective Use of Technology for Students with Learning Disabilities." Eighteenth International Conference on Learning Disabilities. Nashville, TN. October, 1996.

Invited Address -- "What Research Tells Us About Effective Mathematics Instruction for Normal and Learning Disabled Students." Texas Scottish Rite Hospital for Children. Dallas, TX. April, 1996.

Invited Address -- "Professional Development in Schools: The Key to Successful Integration of Media." Fifth German-American Dialogue on Media Competency as Challenge for School and Education. Tarrytown, NY. April, 1996.

“Foundations for Lifelong Learning: How Can Technology Help Address Math, Science, Literacy and Parental Support Needs of Young At-Risk Children?” American Association of Educational Research Annual Meeting. New York, NY. April, 1996

Keynote Address -- “Making Learning Meaningful: Can Technology Help?” 33rd Annual Conference of the Learning Disabilities Association of America. Dallas, TX. March, 1996.

“Effective Tools for Improving Student Learning.” 51st Association for Supervision and Curriculum Development Annual Conference. New Orleans, LA. March, 1996.

Keynote Address -- “Technology and Innovations for Rural Special Education.” 16th Annual Conference of the American Council on Rural Special Education.” Baltimore, MD. March, 1996.

Invited Address -- “Literacy and the Role of Technology.” Orange County Public Schools Teleconference. Orlando, FL. March, 1996.

Invited Address -- “Making All Students Literate: What is the Role of Technology?” Florida Educational Technology Conference. Orlando, FL. February, 1996.

Invited Address -- “Accelerating Literacy Development with Multimedia Environments.” Technology, Reading, and Learning Difficulties National Conference. San Francisco, CA. January, 1996.

Invited Address -- “What Research Tells Us About Effective Mathematics Instruction for Normal and Learning Disabled Students.” Texas Scottish Rite Hospital for Children. Dallas, TX. April, 1996

Keynote Address -- “Making Learning Meaningful: Can Technology Help?” 33rd Annual Conference of the Learning Disabilities Association of America. Dallas, TX. March, 1996.

“Effective Tools for Improving Student Learning.” 51st Association for Supervision and Curriculum Development Annual Conference. New Orleans, LA. March, 1996.

Keynote Address -- “Technology and Innovations for Rural Special Education.” 16th Annual Conference of the American Council on Rural Special Education.” Baltimore, MD. March, 1996.

Invited Address -- “Making All Students Literate: What is the Role of Technology?” Florida Educational Technology Conference. Orlando, FL. February, 1996.

Invited Address -- “Accelerating Literacy Development with Multimedia Environments.” Technology, Reading, and Learning Difficulties National Conference. San Francisco, CA. January, 1996.

Keynote Address -- “Mathematics, Problem-Solving, and Technology. Texas Education Agency, Region VI Fourth Annual Technology Conference, College Station, TX. November, 1995.

Invited Address -- "Literacy, Technology, and At-Risk Students." Peabody College Alumni Board, Nashville, TN. October, 1995.

Invited Address -- "Learning Tomorrow with Today's Technology." National Foundation for the Improvement of Education - Learning Tomorrow Conference, Washington, DC. October, 1995.

Invited Address -- "Using Technology in a Constructivist Environment. National Foundation for the Improvement of Education." The Road Ahead Conference, Washington, DC. September, 1995.

Invited Address -- "Accelerating Early Literacy Through Technology." Texas Education Agency, Region VI Professional Development Workshop, College Station, TX. June, 1995.

"Using Multi-Media to Help At-Risk Students Develop Reading and Math Skills." The Learning Exchange. Kansas City, Mo. March 1995.

Invited Address -- "How Does Technology Improve the Academic Performance in Children with Disabilities?" U.S. Department of Education's Second Annual Conference on Educational Technology. Washington, D.C. March, 1995.

Invited Address -- "Integrating Math, Science, and Literacy Through the Use of Technology." 15th Annual Florida Educational Technology Conference. Orlando, FL. March, 1995.

"Multimedia Support for Accelerating the Literacy of Young Children with Learning Disabilities and Behavior Disorders." 4th Annual Florida Assistive Technology Conference. Orlando, FL. March, 1995.

"Beyond Mathematical Literacy: Instruction in Contextualized Learning Environments." 4th Annual Florida Assistive Technology Conference. Orlando, FL. March, 1995.

Keynote Address -- "What Should Good Teaching with Technology Look Like?" Cobb County Science and Technology Conference. Atlanta, GA. March, 1995.

Invited Address -- "Students and Producers of Knowledge." 12th Annual Tennessee Educational Technology Conference. Nashville, TN. March, 1995

"Technology and Anchored Instruction." Edutech Institute 1994 Winter Symposium, Georgia Institute of Technology. Atlanta, GA. December, 1994.

"Technology and Learning." Lecture Series on Technology and Teaching. Georgia State University, Atlanta, GA. November, 1994.

"Do Our Children Literally See the World Differently?" Council of Michigan Foundations' 22nd Annual Conference. Dearborn, MI. November, 1994.

"A Vision for Special Education Technology in the Year 2000." Conference on the Future of Special Education in Florida. Tampa, FL, September, 1994.

- “Technology and Adult Literacy.” Atlanta, GA, September, 1994.
- “Connecting Literacy, Technology, and At-Risk Learners.” The 1994 Southern Regional Education Board Annual Meeting, Naples, FL, June, 1994.
- “Making Learning Meaningful Through the Use of MultiMedia.” The 1994 NEA National Conference Series: The New Learning Environment, Albuquerque, NM, April, 1994.
- “Multimedia Support for Accelerating the Development of Literacy in Young Children.” AERA Annual Meeting, New Orleans, LA, April, 1994.
- “Technology Tools for Learning.” AERA Annual Meeting, New Orleans, LA, April, 1994.
- “The Young Children’s Literacy Project.” 11th Annual Tennessee Educational Technology Conference, Nashville, TN, March, 1994.
- “Learning to Read and Reading to Learn: Integrated Media for Developing Literacy Skills.” 14th Annual Florida Educational Technology Conference, Tampa, FL, February, 1994.
- “Integrated Media for Enhancing Reading Skills in High School Special Education Students.” 5th Annual Winter Text Conference, Jackson, WY, January, 1994.
- “Enhancing Learning Through the Use of Integrated Media Systems: From Research to the Classroom.” The Eighth Annual Bluegrass Special Education Conference, Lexington, Ky., September, 1993
- “A Look at Changing Education Through the Use of Multimedia Technology.” National Association of State Information Resource Executives Annual Meeting, Nashville, TN, August, 1993.
- “Multimedia for Special Needs Students.” Florida Summer Technology Institute, St. Augustine, FL, July, 1993.
- “Using Research to Develop and Sustain Learning Communities.” AERA Annual Meeting, Atlanta, GA, April, 1993.
- Strategic Approaches to Narrative Structures with Integrated Media Environments for Young At-Risk Children.” AERA Annual Meeting, Atlanta, GA, April, 1993.
- “Integrated Media: Examining Effects on Learning.” 71st Annual Convention of the Council for Exceptional Children, San Antonio, TX., April, 1993.
- Keynote Address -- “The Role of Integrated Media in Education of All Children.” Eighth Annual Conference on Children with Special Needs, University of South Carolina, Columbia, SC, March, 1993.

- “Integrated Media: From Research to the Classroom.” 13th Annual Florida Education Technology Conference, Tampa, Florida, February, 1993.
- “Multimedia and Mathematics.” 13th Annual Florida Education Technology Conference, Tampa, Florida, February, 1993.
- “Using Technology to Address the Needs of all Students.” Christa McAuliffe Institute, National Foundation for the Improvement of Education, Washington, D.C., January, 1993
- “Enhancing Learning Through the Use of Integrated Media Systems” 10th Annual International TAM Conference, Hartford, Connecticut, January, 1993
- “Taking Multimedia from Research to the Classroom.” Six Annual LRE Leadership Conference, Nashville, Tennessee, January, 1993
- “Developing Mathematical Fluency in Students with Learning Disabilities.” 10th Annual Closing the Gap International Conference on Microcomputer Technology in Special Education and Rehabilitation, Minneapolis, MN, October, 1992.
- “Developing Mathematical Fluency in At-Risk Learners Through Computer Technology: From Research to the Classroom.” 22nd Annual North Carolina Mathematics Conference, Raleigh, N.C., October, 1992.
- “Teaching Strategies, Technology, and Student Outcomes.” Region VI Education Service Center Workshop, College Station, TX, October, 1992.
- “How Can We Be Sure We’re Getting a Good Product at a Good Price?” Telecommunications in the Schools: Connecting Hope to Reality, The University of Mississippi, Jackson, MS., September, 1992.
- “Enhancing Mathematical Problem Solving for All Students.” Bell South TechKNOWLEDGEy Conference, Atlanta, GA, July, 1992.
- “Multimedia Applications in Special Education.” Symposium sponsored by the University of Minnesota, Minneapolis, June, 1992.
- “Using Integrated Media to Accelerate the Development of Mental Models in At-Risk Students.” SRI Conference on Technology and Educational Reform, Dallas, TX, June, 1992
- “Interactive Multimedia Applications for Special Education.” National Educational Computing Conference, Dallas, TX, June, 1992.
- “Utilizing Media for Developing Mental Models and Anchoring Instruction.” National Symposium: Educational Applications of Technology for Deaf Students, National Technical Institute for the Deaf (NTID), Rochester, NY, May, 1992.
- “Enhancing Student Achievement with Integrated Media.” Region IV Technology Conference: Tomorrow’s Vision Today, College Station, TX, May, 1992.



“Linking Procedural and Conceptual Knowledge to Improve Mathematical Thinking in At-Risk Students.” 70th Annual Convention of the Council for Exceptional Children, Baltimore, MD., April, 1992.

“An Examination of Cognitive Challenges and Pedagogical Opportunities of Integrated Media.” 6th Annual International TAM Conference on Special Education and Technology, Albuquerque, NM, January, 1992.

“Developing and Repurposing Videodiscs for Teacher Training.” Project RETOOL, University of South Alabama, Mobile, AL, February, 1992

Keynote Address “Enhancing Critical Thinking Skills in Children Using Integrated Media.” The Third Annual Phi Delta Kappa Research Conference, Tokyo, Japan, March, 1992.

“Linking Procedural and Conceptual Knowledge in Mathematics Through the Use of Contextualized Learning Environments.” Technology in Education: Visions for Classrooms of the Future, Louisiana State University, Baton Rouge, LA, April, 1992.

“Macrocontexts for Learning to Read and Reading to Learn.” Invited address at the University of Delaware, Newark, DE, December, 1991.

“Macrocontexts for Enhancing Mathematical and Scientific Thinking.” Invited address at the University of Delaware, Newark, DE, December, 1991.

“Using Interactive Videodisc for Enhancing Learning in Special Education Students.” Technology: Touching the Future. A collaborative Conference presented by Region IV Education Service Center, Houston, Texas, July, 1991.

“Research Topics in Educational MultiMedia.” 1991 OSEP Research Project Directors’ Conference. Washington, D.C., July, 1991.

“Providing 21st Century Instruction Now: Incorporating Multimedia into Today’s Classroom.” Intermediate Grades Conference Sponsored by the Tennessee Department of Education, Murfreesboro, TN, July, 1991.

“Interactive Videodisc for Teacher Training.” Project RETOOL Conference on Technology and Teacher Training. Teacher’s College of Columbia University, NY, NY, May, 1991.

“Examining the Cognitive Challenges and Pedagogical Opportunities of Integrated Media Systems: Toward a Research Agenda.” Center for Special Education Technology Multimedia Seminar, Washington, D.C., May, 1991.

“Making Learning Meaningful in Math and Science.” Office of Special Education Programs State Directors Leadership Conference, Washington, D.C., April, 1991.

- “Enhancing Adult Literacy Training Through Anchored Instruction, Hypermedia and Voice Recognition.” International Reading Association Second North American Conference on Adult Literacy and Adolescent Literacy, Banff, Alberta, Canada, March, 1991.
- “Nearly Intelligent Tutors.” Apple K-12 Solutions Forum, Tampa, FL, February, 1991.
- “Using Videodiscs to Create Contextualized Learning Environments.” CEC/TAM Conference on Special Education and Technology. Kansas City, MO., January, 1991.
- "Multimedia in Special Education." Project RETOOL Summer Workshop, Milwaukee, WI., August, 1990.
- "Applications of Hypermedia and Voice Recognition Technology in Adult Literacy Training." Adult Literacy and Technology Conference, St. Paul, MN., July, 1990
- "Using Videodisc Based Instruction to Develop Computational and Conceptual Understanding in Elementary School Math." Eleventh National Educational Computing Conference, Nashville, TN, June, 1990.
- "Effects of Multimedia on Enhancing Writing Ability." Eleventh National Educational Computing Conference, Nashville, TN, June, 1990.
- "Effects of Hypermedia and Voice Recognition in Adult Literacy Training." American Educational Research Association Annual Meeting, Boston, MA., April, 1990.
- " Meaningful Learning Environments: Applications of HyperMedia." Iowa State Conference on Innovative Practices in Special Education, Cedar Rapids, IA, March, 1990.
- "Promising Federally Funded Computer Applications." Learning Disabilities Association of America International Conference, Anaheim, CA, February, 1990.
- "HyperMedia in Special Education." Closing the Gap 1989 Conference, Minneapolis, MN., October, 1989.
- "Developing Mathematical Fluency in Learning Disabled Children: From Research to the Classroom." Closing the Gap 1989 Conference, Minneapolis, MN., October, 1989.
- "Using Computers with Students having Mild Mental Retardation." The Second International Conference on Mental Retardation, Davenport, IA, October, 1989.
- "The Use of Technology in Education." National Education Forum on New Approaches to Educating the Next Generation. Sponsored by Americans for Generational Equity, Carnegie Foundation for the Advancement of Teaching, Washington, D.C., June, 1989.
- "HyperMedia: Today, Tomorrow." A demonstration of multimedia environments presented to the staff of the Division of Innovation and Development of the Office of Special Education Programs of the Department of Education, Washington, D.C., June, 1989.

Keynote Address: "Interactive Video: An Anchor for Meaningful Learning." Instructional Applications of Emerging Technologies. Sponsored by the Western Pennsylvania Special Education Regional Resource Center, Pittsburgh, PA, May, 1989.

"Developing Instructional Software for Disabled Students." Symposium on Computer Technology for Disabled Persons. Sponsored by the China Disabled People's Federation and the National Cristina Foundation, Beijing, China, May, 1989.

"Hypermedia and Learning" Educators as Developers Symposium." Sponsored by Apple Computer, Cupertino, CA, Jan., 1989.

"Computer-based Technology for Disabled Students." Symposium on Computer Technology in Primary and Secondary School Education. Sponsored by the United States Information Agency, Minsk, USSR, Dec., 1988.

"Developing Mathematical Fluency in Learning Disabled Students: From Theory to Practice." /TAM Conference on Special Education and Technology. Reno, NV, December, 1988.

Keynote Address: "Anchoring Instruction Through Technology for At-Risk Learners." Pennsylvania Learning Resources Association Annual Convention, Lancaster, PA, Nov., 1988.

Keynote Address: "Hypermedia in Special Education." The Third Annual Special Education Conference, Lexington, KY, The University of Kentucky, Sept., 1988.

Keynote Address: "Technology and At-Risk Students." The Third National Education Technology Conference, Charlotte, NC, The Council of Chief State School Officers, Sept., 1988.

"Using Videodisc Environments for Developing Mathematical Thinking and Problem Solving." Institute on Interdisciplinary Approaches to Technology for Special Education and Rehabilitation, Baltimore, The Johns Hopkins University, July, 1988.

"Developing Mathematical Fluency: The Role of Computer Technology." Institute on Interdisciplinary Approaches to Technology for Special Education and Rehabilitation, Baltimore, The Johns Hopkins University, July, 1988.

"Developing Mathematical Fluency in Learning Disabled Students Through the Use of Microcomputer Technology." First Annual Conference on Research and Theory in Learning Disabilities. University Park, PA., The Pennsylvania State University, May, 1988.

Keynote Address: "Technology for Effective Learning." Thirty-first Annual Joint Conference co-sponsored by the West Virginia Association of School Administrators and the West Virginia School Boards Association, Wheeling, WV, May, 1988.

"Uses of Macrocontexts for Facilitating Mathematical Thinking." American Educational Research Association, New Orleans, April, 1988.

- "Effective Use of Drill and Practice Software" Academy for Effective Computer Use with Mildly Handicapped Students, 66th Annual Convention of the Council for Exceptional Children, Washington, DC, 1988.
- "Enhancing Mathematical Abilities in Learning Handicapped Children: Applications of Cognitive and Computer Science." 66th Annual Convention of the Council for Exceptional Children, Washington, DC, March, 1988.
- "Critical Variables in Computerized Math Programs" Keynote Address - Conference on the Implementation of Computer Technology in Mathematics and Reading: Exemplary Programs in Basic Skills K-12, Glassboro State College, Glassboro, NJ, March, 1988.
- "Technology for Effective Learning." Opening General Session - Florida Instructional Computing Conference VIII, Orlando, FL., January, 1988.
- "Developing Mathematical Fluency: From Research to Practice." Third Annual Conference of the Technology and Media Division of the Council for Exceptional Children, Baltimore, January, 1988.
- "Technology for Students At Risk of School Failure." Presidential Session: 1988 AECT Convention, New Orleans, January, 1988.
- "Setting a Research Agenda in Special Education Technology." National Conference on the Future of Special Education, Orlando, FL., November, 1987
- "Developing Mathematical Fluency in Learning Disabled Children: From Research to the Classroom." Tennessee Federation of the Council for Exceptional Children, Nashville, TN., November, 1987.
- Keynote Address: "Technology Can Help Students." Seventh Annual Mississippi Education Conference, Jackson, MS., September, 1987.
- "Effective Computer Use in Special Education: What Does the Research Tell Us?" Effectiveness of Microcomputers in Education Funder Forum -- Apple Computer Inc., VA. September, 1987.
- "Technology Can Help Children Who Are At Risk of School Failure." A Conference on Technology and Students at Risk of School Failure, St. Charles, IL. June, 1987.
- "Effective Use of Microcomputers with Mildly Handicapped Students." Council for Exceptional Children, Academy on Effective Instruction, Boston, MA., July, 1987.
- "Computer Programs for Persons with Mental Retardation." 35th Annual Association for Retarded Citizens State Convention, Nashville, TN., June, 1987.
- "Research in a Content Area: Mathematics." Invitational Research Symposium on Special Education Technology, Washington, D.C., May, 1987.

- "Effective Use of Computerized Drill and Practice with Mildly Handicapped Learners." 65th Annual Convention of the Council for Exceptional Children, Chicago, April, 1987.
- "Enhancing Computer-Assisted Instruction Through the Use of Voice Recognition and Feedback." 65th Annual Convention of the Council for Exceptional Children, Chicago, April, 1987.
- "Assessing and Developing Automaticity in Math-Disabled Students Using Computer Technology." American Educational Research Association Annual Meeting, Washington, D.C., April, 1987.
- "Using the Computer to Give LD Students New Hope in Mathematics." Fourth Annual Tennessee Educational Computing Conference, Nashville, Tennessee, March, 1987.
- "Developing Automaticity in Math-Disabled Students Using Computer Technology." Annual Conference of the Technology and Media Division, Council for Exceptional Children, Washington, D.C., January, 1987.
- "Using Technology to Manage Student Progress Data." Workshop presented to teachers of Albany County School District, Laramie, Wyoming, December, 1986.
- "Developing Automaticity in Handicapped Learners." Presentation to the Putnam and Northern Westchester Board of Cooperative Educational Services, October, 1986.
- "Enhancing Teacher Decision Making Through the Use of Technology: Utilizing AIMSTAR, the Radio Shack Model 100, and the Apple II." Illinois Special Education Technology Conference, Springfield, Illinois, August, 1986.
- "Effects of Math Drill and Practice on the Cognitive Strategies of Learning Handicapped Children." Tennessee Council for Exceptional Children Annual Conference, Nashville, July, 1986.
- "Why Invest in Special Education Technology." Invitational Research Symposium on Special Education Technology, Washington, D.C., June, 1986.
- "Software for Assessment and Evaluation." 2nd Annual Special Education Software Center Conference, Washington, D.C., May, 1986.
- "Use of Technology for Assessment and Intervention in Mathematical Thinking." Annual Meeting of the American Educational Research Association, San Francisco, CA., April, 1986.
- "Computer-Mediated Learning: Applications in Keyboarding and Basic Math." 64th Annual Convention of the Council for Exceptional Children, New Orleans, LA., April, 1986.
- "Development of a Microcomputer Video Game for Training Severely Handicapped Children in Scanning and Selection Skills." 12th Annual Conference of The Association for Persons with Severe Handicaps, Boston, MA., December, 1985.

"Enhancing Data-Based Instruction Through the Use of Technology." Distinguished Lecturer Series, University of Kentucky, Lexington, KY., November, 1985.

"Peabody Research Symposium: A Report on Three Research Studies Examining Technology Applications with Handicapped Learners." Computer Technology for the Handicapped Conference, Minneapolis, MN., November, 1985.

"How to Use Math CAI and CMI Software Effectively: From Research to Classroom Applications." Computer Technology for the Handicapped Conference, Minneapolis, MN., November, 1985.

"Computer-Based Assessment in the Schools: Expert Systems Applications." 93rd Annual Convention of the American Psychological Association, Los Angeles, CA., August, 1985.

"How to Collect and Use Computer-Based Classroom Assessment Data". Special Education Software Center Conference, Alexandria, VA., June 1985.

"How to Design a Useful System for Capturing Computerized Data on Very Young Children with Special Needs". Special Education Software Conference, Alexandria, VA., June 1985.

"A Chronometric Analysis of the Effects of Computer-Based Drill and Practice in Addition and Subtraction". Center for Special Education Technology Invitational Research Symposium. Washington, D.C., June 1985.

"Computer Applications: Quality Educational Programming". American Association on Mental Deficiency 109th Annual Meeting, Philadelphia, PA., May 1985.

"Assessment and Prescriptive Teaching with Elementary Grade Children". American Association on Mental Deficiency 109th Annual Meeting, Philadelphia, PA., May, 1985.

"Integrated CAI and CMI Software for the Special Education Classroom." Computers for the Handicapped Conference. Baltimore, MD., March, 1985.

"Using Microcomputer Technology with Handicapped Children." The Role of Computers in Education. Chicago, IL., February, 1985.

"Data Collection Techniques for Enhancing Student Performance." The Role of Computers in Education. Chicago, IL., February, 1985.

Keynote Address: "Overview of Current Developments in Technology for Special Educators." North Dakota Council for Exceptional Children Annual Conference, Dickinson, ND., February, 1985.

"Graphing Individualized Student Data." Wyoming Technology Conference and Exposition for Special Education, Casper, WY. January, 1985.

"Microcomputer Applications for Infants and Toddlers". Symposium on Early Childhood Handicaps and Technology, Macomb, IL. November, 1984.

"An Integration of Intelligent CAI and CMI Software". Third Annual Conference on Computer Technology for the Handicapped, Minneapolis, MN. September, 1984.

"An Examination of the Speed of CAI Arcade Games on the Math Performance of Learning Disabled Students". Third Annual Conference on Computer Technology for the Handicapped, Minneapolis, MN. September, 1984.

"Computer-Based Instructional Decision-Making". American Psychological Association 92nd Annual Convention. Toronto, Canada. August, 1984.

Keynote Address: "Future Directions in Special Education Technology." Rocky Mountain Technology Conference. Mountain Plains Regional Resource Center, Salt Lake City, UT. June, 1984.

"Decision Theory, Interaction Analysis, and Microcomputers: Training Teachers in Empirical Decision Making." Sixth Annual National Educational Computing Conference, Dayton, OH. June, 1984.

"Long-Term Potential Applications and Advanced Technologies in Special Education." Special Education Technology Research and Development Symposium. U. S. Department of Education, Special Education Programs, Washington, D. C. June, 1984.

"Results on Microcomputer Research for Teaching Reading, Spelling, and Social Skills in the Special Education Classroom." The Council for Exceptional Children 62nd Annual Convention, Washington, D. C. April, 1984.

"Microcomputers in Special Education: An Overview". Tennessee Association of Educational Data Systems Annual Conference, Nashville, TN. April, 1984.

"The Use of Microcomputers for Assessment and Remediation." The Council for Exceptional Children Technology and Special Education Conference, Reno, NV. 1984.

"AIMSTAR: A Data Management and Decision-Making System for Teachers of the Severely Handicapped." The Council for Exceptional Children Technology and Special Conference, Reno, NV. 1984.

"Using the Microcomputer to Apply Data-Based Decision Rules for Assisting in the Selection of Instructional Strategies." The Council for Exceptional Children Microcomputer Conference, Hartford, CT. 1983.

"Teaching Moderately, Severely, and Profoundly Retarded Students Using a Microcomputer." 107th Annual Meeting, American Association on Mental Deficiency, Dallas, TX. 1983.

"Using Microcomputer Technology in Social Skills Research and Training." ABA Conference, Milwaukee, WI. 1983.

"Technology and Education." Thirtieth Anniversary ICET World Assembly, Washington, D. C. 1983.

"Using the Microcomputer to Apply Data-Based Decision Rules for Assisting in the Selection of Instructional Strategies." Ninth Annual Conference, The Association of Severely Handicapped, Denver, CO. 1982.

"The Special Educator's Newest Resource--The Computer." New York State Teachers of Mentally Handicapped Convention, New York State Teachers of Mentally Handicapped Convention, Kerhonkson, NY. 1975.

"Inservice Training Model for Teachers of the Severely Mentally Retarded." Northeast Region X, American Association of Mentally Deficiency Conference, Portland, ME. 1975.

"Building a Comprehensive Performance-Based Program for Trainable Mentally Retarded Students." 53rd Annual Convention, Council for Exceptional Children, Los Angeles, CA. 1975.

"Use of Observational Systems in Teacher Training and the Special Education Classroom." 52nd Annual Convention, Council for Exceptional Children, New York, NY. 1974.

### **Advisory Boards and Consultancies**

2007 – present	George Lucas Education Foundation
2007 – present	Florida Educational Technology Conference Tallahassee, FL
1996 - present	Scholastic, Inc. New York, NY
1996 – present	Don Johnston, Inc. Wauconga, IL
2000 - 2003	Ignite! Austin, TX
1998-2000	Online Academy University of Kansas Lawrence, KS
1998	Computer Curriculum Corporation Sunnyvale, CA
1998	Texas International Education Consortium (TIEC) Austin, TX



1997 - 2000	IntelliTools, Inc. Novato, CA
1996 - 1998	Staff Development Resources Torrance, CA
1995 - 1998	Jazz Interactive, Inc. Tiburon, CA
1994 - 1995	Addison-Wesley Publishing Co. Menlo Park, CA
1994 - 1995	Mindscape Software Novato, CA
1994	North Carolina Department of Public Instruction Raleigh, NC
1993	National Foundation for the Improvement of Education Washington, D.C.
1992	Dowling College Computer Program Oakdale, Long Island, NY
1992	OSEP Technology, Media, and Materials Agenda Building Project COSMOS Corporation Washington, DC
1992	National Advisory Panel Dade County Florida Department of Education Computer Curriculum Corporation Project for At-Risk Adolescents
1992	National Advisory Board Schoolyear 2000 Florida Department of Education Center for Educational Technology - Florida State University Tallahassee, Florida
1991	21st Century Classroom Project Ernst & Young Atlanta, Georgia
1989 - 1991	Technology Transfer Project Stanford Research Institute Menlo Park, California

1987 - 1992 Apple Computer, Inc.  
Special Education Programs  
Cupertino, California

1988 - 1989 Strategic Planning Group  
Agency for Instructional Technology  
Bloomington, Indiana

1987 - 1990 CAI Training Project  
University of Kentucky  
Lexington, Kentucky

1987 - 1990 Project RETOOL  
Council for Exceptional Children  
Reston, Virginia

1987 - 1990 Information Center for Special Education Media and Materials  
LINC Resources Inc.  
Columbus, Ohio

1985 - 1988 Data-Based Management Project  
University of Virginia, Charlottesville, Virginia

1984 - 1987 Special Education Information Center  
Council for Exceptional Children  
Reston, Virginia

1984 - 1990 Westminster School  
Board of Directors  
Nashville, Tennessee

1984 - 1985 Fordham University, New York, NY

1984 - 1985 Southern Westchester County, Board of Cooperative  
Educational Services, Dobbs Ferry, NY

1983 Central Susquehanna Intermediate Unit,  
Lewisburg, PA

1983 Shield Institute for the Mentally Retarded and  
Developmentally Disabled, Flushing, NY

1983 University of Lethbridge, Lethbridge, Alberta, Canada

1982 - 1984 IBM, Education Industry Marketing, Atlanta, GA

1979 - 1982 Frankie Lemmon Preschool for the Mentally  
Retarded, Raleigh, NC

1977 - 1982 Wake County School System, Wake County, NC

1980 - 1981 Reidsville Public Schools, Reidsville, NC

1981 - 1982 Governor's Advocacy Council on Persons with Disabilities, Raleigh, NC

1979 - 1982 Specialized Services for Children, Raleigh, NC

1977 - 1991 Westchester/Northern Putnam Counties  
Board of Cooperative Educational Services (BOCES).  
Yorktown Heights, NY

### **Memberships in Professional Organizations**

American Education Research Association  
Association for Special Education Technology  
Council for Exceptional Children

Divisions:

Learning Disabilities  
Teacher Education  
Technology and Media -- President (1989-90) (2002-04)  
Research

International Council for Exceptional Children  
International Reading Association  
International Society for Technology in Education