

Kenneth J. Luterbach

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Education

Doctor of Philosophy Department of Instructional Systems Technology
July 1997 Indiana University
Bloomington, Indiana

Specialization Instructional Systems Technology
Minor Field Computer Science
Dissertation title *Refining Instructional Design Theories: A Comparison of
Constructivist Instructional Strategies for Teaching Computer Mastery*

Master of Science Department of Computer Science
June 1992 University of Calgary
Calgary, Alberta, Canada

Specialization Program Visualization
Thesis title *An Experimental Program Animation System*

Master of Arts Department of Curriculum and Instruction
June 1988 University of Calgary

Specialization Educational Technology
Thesis title *A Comparison of Methods for Marking Straight
Copy Typing Exercises*

Bachelor of Science Department of Computer Science
June 1985 University of Calgary

Senior Project *Computer Rhythm Tools*

Bachelor of Education Faculty of Education
June 1982 University of Calgary

Specialization *Secondary Mathematics*

Employment

- Aug. 2009 – Present **Assistant Professor**
College of Education, East Carolina University
- Aug. 2006 – July 2009 **Visiting Assistant Professor**
College of Education, East Carolina University
- Aug. 2005 - May 2006 **Assistant Professor**
College of Education, Florida Atlantic University
- Jan. 2002 - May 2003 **Assistant Professor**
School of Education, Barry University
- Sept. 1996 - Dec. 2001 **Instructor; Systems Analyst, Computer Programmer**
School of Education, Indiana University
- Jan. 1994 - Aug. 1996 **Graduate Assistant**
School of Education, Indiana University
- Sept. 1989 - Aug. 1992 **Laboratory Instructor**
Department of Computer Science, University of Calgary
- Sept. 1988 - June 1989 **Teacher**
Bishop Grandin High School
Grades 11 & 12 Mathematics and Computing
- Sept. 1987 - June 1988 **Teacher**
Bishop Carroll High School
Grades 10, 11, & 12 Computing
- Sept. 1986 - Aug. 1987 **Laboratory Instructor**
Department of Curriculum and Instruction, University of Calgary
EDCI 561/563/565 Instructional Design and Development classes
- Apr. 1985 - June 1986 **Teacher**
Western Canada High School
Grades 10, 11, & 12 Computing
- Jan. 1983 - June 1983 **Teacher**
Sir John A. MacDonald Middle School
Grades 6, 7, & 8 Mathematics

Teaching

- East Carolina University: Department of Library Science and Instructional Technology
 - **EDTC 4001**: Technology in Education
 - **EDTC 5010**: Computers in Education
 - **EDTC 6010**: Introduction to Instructional Technology
 - **EDTC 6020**: Principles of Instructional Design
 - **EDTC 6025**: Analysis and Evaluation in Instructional Technology
 - **EDTC 6030**: Authoring Systems for Instructional Product Development
 - **EDTC 6035**: Integrating Technology into the English/Language Arts, Social Studies, and Information Skills Curriculum
 - **EDTC 6037**: Integrating Technology into the Math, Science, and Healthful Living Curricula
 - **EDTC 6125**: Performance Technology: Principles and Strategies
 - **EDTC 7125**: Training Systems Engineering

- Florida Atlantic University: Department of Educational Technology and Research
 - **EME 4810**: Applied Educational Technology
 - **EME 6051**: Theories and Models of Learning
 - **EME 6409**: Telecommunications: Applications in Education

- Florida International University: Department of Curriculum and Instruction
 - **ESE 4343/5344**: Secondary Classroom Management
 - **EME 2040**: Introduction to Educational Technology
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- Barry University: Department of Information Technology
 - **CS 340**: Java Programming for the Web

- Barry University: Department of Educational Computing and Technology
 - **ECT 505**: Introduction to Computers/Technology in Education
 - **ECT 607**: Design and Evaluation of Instructional Systems
 - **ECT 653**: Telecommunications in Education
 - **ECT 662**: Database Systems in Education
 - **ECT 757**: Educational Technology and Change

- Indiana University: Department of Instructional Systems Technology
 - **EDUC R521**: Instructional Design and Development
 - **EDUC R541**: Instructional Development and Production Processes
 - **EDUC R561**: Evaluation and Change in the Instructional Development Process
 - **EDUC R685**: Knowledge Management

Publications

- Luterbach, K. J.** (in press). Elegant Instruction. *Journal of Educational Technology Systems*.
- Luterbach, K. J.** (in press). Building Software Development Capacity to Advance the State of Educational Technology. *Educational Technology*.
- Luterbach, K. J.** (2012). Instructional Technologists Discovering, Sharing, Preparing. *TechTrends* (56) 6, 3-5.
- Luterbach, K. J.,** Rodriguez, D., & Love, L. (2012). Toward Effective and Compelling Instruction for High School eCommerce Students: Results from a Small Field Study. *TechTrends* (56) 6, 59-63.
- Luterbach, K. J.** (2012). A Computer Tutor for Diagnosing Learner Errors in HTML Coding. *Proceedings of the Society for Information Technology & Teacher Education (SITE) Conference 2012*, Austin, Texas.
- Luterbach, K. J.** (2012). Universal Information and Communication Technology Skills for Contemporary Teachers. *Proceedings of the Society for Information Technology & Teacher Education (SITE) Conference 2012*, Austin, Texas.
- Luterbach, K. J.** (2011). Redesigning a Teacher Education Program by Critically Examining the Foundation of the Enterprise. *Proceedings of the Association of Educational Communications and Technology (AECT) Conference 2011*, Jacksonville, Florida.
- Luterbach, K. J. &** Brown, C. (2011). Education for the 21st Century. *International Journal of Applied Educational Studies*, 11(1) 14-32.
- Rodriguez, D. & **Luterbach, K. J.** (2010). Interpretations of mathematics word problems by English language learners with learning disabilities. *The Border Walking Journal*, 8 (1), 52-60.
- Sugar, W., Brown, A., & **Luterbach, K. J.** (2010). Examining the anatomy of a screencast: Uncovering common elements and instructional strategies. *The International Review of Research in Open and Distance Learning*, 11(3), 1-20.
- Rodriguez, D. & **Luterbach, K. J.** (2010). Doctoral Programs in Special Education: What Can We Do to Recruit Culturally and Linguistically Diverse Students? In *Higher education and human capital: Re/thinking the doctorate in America*. D. Callejo, S. Fain, & J. Slater (Editors). Sense Publishers, B.V.
- Luterbach, K. J.,** Rodriguez, D., & Milling, S. (2010). A Comparison of Two Methods for Completing Sudoku Puzzles. *Spreadsheets in Education*, 3(3), 1-10.

- Brown, A., Brown, C., Fine, B., **Luterbach, K. J.**, & Sugar, W. (2009). Instructional Uses of Podcasting in Online Learning Environments: A Cooperative Inquiry Study. *Journal of Educational Technology Systems*.
- Brown, A., **Luterbach, K. J.**, & Sugar, W. (2009). The Current State of Screencast Technology and What is Known About its Instructional Effectiveness. *Proceedings of the Society for Information Technology & Teacher Education (SITE) Conference 2009*. Charleston, SC.
- Rodriguez, D., Espinosa de Gaitán, R., & **Luterbach, K. J.** (2008). Understanding the complexities of special education in Guatemala. *Journal of International Special Needs Education*, 11, 31-38.
- Luterbach, K. J.** (2008). Investigating Conceptions of Computer Mastery and the Acquisition of Database Applications. *Proceedings of the North Carolina Association for Research in Education (NCARE) Conference*. New Bern, NC.
- Luterbach, K.** (2008). Can computers tutor students as effectively as teachers? Yes. *Learning and Leading with Technology*, 35(6), 8-9.
- Luterbach, K. J.** (2007). Creating and implementing conversational agents. *30th Annual Proceedings of the Association for Educational Communications and Technology*, 2, 259-264.
- Luterbach, K. J.** & Rodriguez, D. (2007). Practicing pronunciation: Will Voice XML do for language learners what HTML did for collaborators? *EuroCALL Review*, 11.
- Luterbach, K. J.** & Rodriguez, D. (March, 2006). Improving e-Learning Environments. *Proceedings of the 17th International Conference of the Society for Information Technology and Teacher Education*, 425-430, Orlando, Florida.
- Luterbach, K. J.** (2005). From two opposing perspectives on instructional media come two views on the inseparability of instructional media and methods. *Educational Technology*, 45(4), 53-56.
- Luterbach, K. J.** (2005). On media and learning: When learners need instant feedback, only a computer can implement the requisite instructional method. *Educational Technology*, 45(2), 50-55.
- Rodriguez, D., Perkins, S., Pelaez, G., & **Luterbach, K. J.** (2005). Linking Multiple Intelligences into the TESOL Curriculum through Technology. *Sunshine State TESOL Journal*, 4(1), 11-17.
- Luterbach, K. J.** & Reigeluth, C. M. (1994). Response to Perelman. *Educational Technology*, 34(6), 56-57.

Luterbach, K. J. & Reigeluth, C. M. (1994). Schools Not Out, Yet. *Educational Technology*, 34(4), 47-54.

Luterbach, K. J. (1993). *Straight Copy Timing Tools*. Mississauga, Ontario: Copp-Clark-Pitman. (A drill-and-practice typing program for DOS machines).

Presentations

Luterbach, K. J. (accepted for 2013). Tools and Techniques for 21st Century Problem Solving that Challenge Conventional Conceptions of Information Literacy. *Society for Information Technology & Teacher Education (SITE) Conference 2012*, New Orleans, Louisiana.

Luterbach, K. J. (2012). *Creating Elegant Instruction*. Association for Educational Communications and Technology (AECT), Louisville, Kentucky.

Luterbach, K. J. (2012). A Call for Unification and Collaboration among Instructional Software Developers. Association for Educational Communications and Technology (AECT), Louisville, Kentucky.

Rodriguez, D., **Luterbach, K. J.**, Kea, K., Trent, S. C., and Campbell-Brown, G. (2012) *Investigating Educational Aspirations of Latino/Mexican Adolescents in Eastern North Carolina and Mexico*. American Educational Research Association. Vancouver, BC.

Luterbach, K. J. (2012). A Computer Tutor for Diagnosing Learner Errors in HTML Coding. *Society for Information Technology & Teacher Education (SITE) Conference 2012*, Austin, Texas.

Luterbach, K. J. (2012). Universal Information and Communication Technology Skills for Contemporary Teachers. *Society for Information Technology & Teacher Education (SITE) Conference 2012*, Austin, Texas.

Luterbach, K. J. (2011). *Redesigning a Teacher Education Program by Critically Examining the Foundation of the Enterprise*. Association for Educational Communications and Technology (AECT), Jacksonville, Florida.

Luterbach, K. J. & Rodriguez, D. (2011). *Improving Teacher Education Programs by Expanding Evaluation Efforts*. American Association for Colleges of Teacher Education (AACTE), San Diego, California.

Luterbach, K. J. & Rodriguez, D. (2010). *A Comparison of Two Methods for Solving Sudoku*

Puzzles. Association for Educational Communications and Technology (AECT), Anaheim, California.

Luterbach, K. J. & Rodriguez, D. (2010). *Information and Communication Technology Skills Necessary for Literacy*. Mary Lois Staton Reading/Language Arts Conference, Greenville, North Carolina.

Luterbach, K. J. & Rodriguez, D. (2009). *Crawling the Web in Search of Instructional Technology Programs*. Association for Educational Communications and Technology (AECT), Louisville, Kentucky.

Sugar, W., Brown, A., & **Luterbach, K. J.** (2009). *Examining the Instructional Effectiveness of Screencasting: Best Practices and Guidelines for Online Instructors*. Association for Educational Communications and Technology (AECT), Louisville, Kentucky.

Brown, A., **Luterbach, K. J.**, & Sugar, W. (2009). *Screencasting: How and Why*. Think-In 2009, Greenville, North Carolina.

Brown, A., **Luterbach, K. J.**, & Sugar, W. (2009). The Current State of Screencast Technology and What is Known About its Instructional Effectiveness. *Annual Conference of the Society for Information Technology and Teacher Education*. Charleston, SC.

Luterbach, K. J., Brown, A., & Sugar, W. (2009). Effective screencasts for maximum learning at a distance. *University of North Carolina Teaching and Learning with Technology Conference*.

Luterbach, K. J. & Brown, C. A. (2008). Capitalizing on the Shift Towards 21st Century Skills. *The Association for Educational Communication and Technology Annual International Convention*. Orlando, FL.

Brown, A., Sugar, W., Brown, C., **Luterbach, K. J.**, Blair, H., & Fine, B. (2008). Podcasting to Enhance Online Learning. *The Association for Educational Communication and Technology Annual International Convention*. Orlando, FL.

Brown, A., Sugar, W., & **Luterbach, K. J.** (2008). Screencasting Production and Delivery: Best (and Worst) Practices. *Annual Meeting of the North Carolina Distance Learning Association*, New Bern, NC.

Brown, A., Sugar, W., Vinciguerra, D., White, L., **Luterbach, K. J.**, Valentine, P., Blair, H., Marson, B., Jones, J., Fine, B., Cherry, K., & Brown, C. (2008). The Podcasting Research Group at East Carolina University: Adding Voice and Video to Distance Education. *UNC Teaching and Learning with Technology Conference*, Raleigh, NC.

- Luterbach, K. J.** (2008). Investigating Conceptions of Computer Mastery and the Acquisition of Database Skills. *Annual Meeting of the North Carolina Association for Research in Education*. New Bern, NC.
- Luterbach, K. J.** (2007). Instructional Technologies for the Information Era. *Invited speaker at the Instituto Técnico de Capacitación y Productividad*. Guatemala City, Guatemala.
- Luterbach, K. J.** (2007). Creating and Implementing Conversational Agents. *The Association for Educational Communication and Technology Annual International Convention*. Anaheim, CA.
- Brown, A., **Luterbach, K. J.**, and Blair, H. (2007). Reading in the 21st Century: The Challenges of Modern Media. *Presented at the National Educational Computing Conference (NECC)*, Atlanta, GA.
- Brown, A., **Luterbach, K. J.**, & Blair, H. (2007). Reading in the 21st Century: Literacy in the Information Age. *Invited speakers at the School of Education, Barton College*. Wilson, NC.
- Brown, A., Blair, H., & **Luterbach, K. J.** (2007). Reading in the 21st Century: Literacy in the Information Age. *Mary Lois Staton Reading/Language Arts Conference*. Greenville, NC.
- Brown, C., Sugar, W., **Luterbach, K. J.**, & Eash, R. (2006). What Do Pre-service Teachers Know About 21st Century Information and Communication Technology (ICT) Skills? *The Association for Educational Communication and Technology Annual International Convention*. Dallas, TX.
- Luterbach, K. J.** & Rodriguez, D. (September, 2006). Applications of Voice XML. *The European Association for Computer Assisted Language Learning*. Granada, Spain.
- Luterbach, K. J.** & Rodriguez, D. (March, 2006). Improving e-Learning Environments. *The 17th International Conference of the Society for Information Technology and Teacher Education*. Orlando, Florida.
- Luterbach, K. J.** (April, 2005). A Comparison of Three Instructional Strategies for Teaching Computer Mastery. *American Educational Research Association*. Montreal, Quebec, Canada.
- Luterbach, K. J.** (November, 2003). Creating High Quality Human-Computer Interfaces. *The Association for the Teaching of English to Speakers of Other Languages*. San Juan, Puerto Rico.
- Schreiber, J. & **Luterbach, K. J.** (April, 2002). Doctoral Milestone Attainment and the Graduate Record Exam. *American Educational Research Association*. New Orleans, LA.
- Luterbach, K. J.** (November, 2000). Toward Digital Bliss: Integrating Centralized and Decentralized Systems. *WebDevShare, sponsored by Indiana University*. Bloomington, Indiana.

Luterbach, K. J. & Evans, M. (October, 2000). Merging Theories and Negotiating Changes. *The Association of Educational Communications and Technology*. Denver, Colorado.

Luterbach, K. J. (May, 1997). Sybase and Cyberspace. *The National Association of Graduate Admissions Professionals*. Orlando, Florida.

Luterbach, K. J. (February, 1994). Electronic Classrooms for Cooperative Learning. *The Association of Educational Communications and Technology*. Nashville, Tennessee.

Luterbach, K. J. (February, 1991). Marking Straight Copy Typing Exercises. *The South-Western Alberta Teachers' Convention*. Lethbridge, Alberta.

Luterbach, K. J. (November, 1990). Marking Straight Copy Typing Exercises. *The Southern Alberta Business Education Association*. Calgary, Alberta.

Grant Writing

- 2009. U.S. DOE Teacher Quality Partnership. Funded: \$9,000,000
- 2006. National Science Foundation. Learning Technology. Not funded.
- 2005. Florida Atlantic University Seed Grant: Funded for \$10,000.

Service

- Responsible Assessment Person for program accreditation
- Chair, Department Website Committee
- Member of M.S. and MAEd Portfolio Committees in the MSITE Department
- Member of the University Committee on Distance Education and Learning Technologies
- Reviewer for *Tech Trends, Computers in the Schools*

Accolades

- Excellence in Distance Learning Teaching Award from the North Carolina Distance Learning Association (2008).
- Curling official at the Fifteenth Olympic Winter Games (1988, Calgary)