

Learning and Instructional Technologies for the 21st Century

Leslie Moller • Jason Bond Huett •
Douglas M. Harvey
Editors

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Visions of the Future

 Springer

Editors

Leslie Moller
University of South Dakota
Vermillion, SD, USA
lesmoller@usd.edu

Jason Bond Huett
University of West Georgia
Carrollton, GA, USA
jhuett@westga.edu

Douglas M. Harvey
The Richard Stockton College
Pomona, NJ, USA
harveyd@stockton.edu

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Preface

This volume of reading is the result of the first AECT Research Symposia. It represents some of the best thinking by leading scholars in our field. Before you begin to read the text, I would like to provide a bit of background that may help you, the reader, to better understand how this all came about and why the contributions in this text are important.

Starting in the summer of 2005 with the generous help of Phil Harris, Sharon Smaldino, Jim Klein, and Rob Foshay (among others), a plan was formulated to remedy common shortcomings that I felt were not being addressed at our typical conferences and gatherings. Specifically, at the large conferences, I observed scholars presenting their work while the audiences were often only passively involved and not engaging in any type of dialogue. While the reasons for this undoubtedly varied, the end result appeared to be a mode of discourse that actually discouraged real conversation from taking place. Yet, away from the sessions in more relaxed surroundings, fantastic conversations were happening.

Additionally, we have all heard the phrase that academics tend to be “an inch wide and a mile deep” – meaning that our academic training forces us to work in very small areas. Thus, we build new knowledge in isolated ways that is often disjointed or, at best, only tangentially connected to the work of our colleagues. These observations inspired those of us interested in the symposium to look for a new format to share information and ideas as well as foster dialogues and other relationships.

So, the idea for a research symposium was born. The organization was different from a typical conference. First, all presenters had to write on a singular topic, and papers had to be made available for sharing. Second, a deadline was established that allowed for sufficient time (prior to the symposium) for other participants to read and to consider each other’s contributions. Third, all proposed sessions were longer than usually allowed at conferences, and the presenter only had a few minutes to “present” thus retaining the overwhelming majority of session time for intimate conversation among all the attendees.

Initially, the goal of the first symposium was to explore current research and new ideas in order to develop a response to *U.S. Department of Education’s National Technology Plan*. The plan stated in part:

To enable such important and sweeping changes to take place will require not only a rethinking and realignment of the industrial age factory model of education, but a rethinking of the tools available to support such change. Increased access to technology alone, however, will not fundamentally transform education.

(<http://www.ed.gov/index.jhtml>)

While this is a noble goal, too often, in my experiences as an academic and a practitioner, I encounter the thinking that more or better technology is the solution to improving education and reform seems to stop there. There is no denying the importance of technology. However, many might argue that technology's main advantages lie in its ability to enable advanced learning designs and emerging paradigms as well as to evolve learning interactions. In short, without sufficient consideration to the *process* of learning and all that it involves, technology, by itself, is not going to make a real difference. If we accept the words of Secretary of Education Dr. Rod Paige, quoted here from his introduction to the 2004 *Visions 2020* report, (and also included in the DOE plan) that

... schools remain unchanged for the most part despite numerous reforms and increased investments in computers and networks. The way we organize schools and provide instruction is essentially the same as it was when our Founding Fathers went to school. Put another way, we still educate our students based on an agricultural timetable, in an industrial setting, but tell students they live in a digital age (US Department of Commerce, 2002)

In light of Dr. Paige's remarks the magnitude of what we are trying to accomplish becomes clear. We should not just be adding more or better technology to an existing system; we should be *starting over and creating an entirely new system*. The seeds of an educational Renaissance are finally being planted. In that vein, the first symposium's goal was to answer the DOE's call by identifying specific research-based learning and instructional technology ideas which could rethink learning, reorganize schools, redirect technology, and provide new forms of instruction as well as a vision for the future.

One of our initial hopes was to condense all these ideas into one specific response to the perceived weaknesses (particularly regarding instructional design and the learning sciences) found in the DOE's *National Technology Plan*. Our desire was to create a "white paper" that AECT would consider as a public statement or policy.

Unfortunately, even though the symposium was a tremendous success, breaking new ground in the way it was conducted, reaching impressive levels of participant interaction, and resulting in the outstanding papers contained in this volume, we failed to develop a consensus or formal white paper. As the organizer, I take full responsibility for this. In hindsight, it becomes apparent that I should have given greater attention to the consensus building aspect of the symposium. However, within these covers, you will find great essays and innovative ideas that begin to tackle the challenge laid-out by the DOE. This book presents the "best of the best" in the fields of technology and learning. To help breathe new energy into the concepts presented here, we asked Marcy

Driscoll and Rob Foshay to each add a chapter where they reflect on the thoughts and ideas contained in this volume. Marcy and Rob's contributions are not typical; they were given the freedom to reflect, to improvise, and to free-think about what they had read. Their important contributions invite the reader to reexamine what he or she learned in the previous chapters.

As this book goes to the publisher, the second symposium is taking place. It is my deepest hope that AECT will continue to host this biannual event and that we will continue to improve upon its effectiveness and spirit of collaboration. I firmly believe improving education requires a collaborative effort. We cannot move forward like the proverbial three blind men trying to describe an elephant: each of us fixated only on our tiny piece. After all, how can we reach an understanding of the whole if we never investigate the total of the parts?

Transforming education is no small task, but it is a necessary one. As you read through the pages of this book, it might serve to remember The Roman Rule: "The one who says it cannot be done should never interrupt the one who is doing it."

In closing, I want to thank some individuals and groups of people who made this book possible. First, I am very grateful to Jason Huett and Douglas Harvey for helping to edit and to organize this book. Without their significant work and help, you would not be reading this.

Elizabeth Boling and the faculty, staff, and students of the University of Indiana deserve acknowledgement and praise for welcoming the symposium to their campus and for their help running the numerous day-to-day activities that go on behind the scene.

I would like to make a special point of acknowledging the contributions of Tom Duffy and David Jonassen. Tom and David served as inspirations, motivators, and problem solvers in the best traditions of academia. The symposia and the resulting book would not have happened without their guidance and attention.

I hope you enjoy the book!

Peace,

Vermillion, South Dakota

Leslie Moller

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Contributors

Brian Beabout is an Assistant Professor of Educational Leadership at the University of New Orleans. A former teacher in the New Orleans Public Schools, he is now involved in researching the massive structural changes that have occurred in the district since Hurricane Katrina in 2005. He teaches courses in school leadership and educational change. His main areas of scholarly inquiry are the applications of chaos and complexity theories to educational change, the phenomenology of school reform, and leadership for social justice. His work has appeared in *Multicultural Education*, *the British Journal of Educational Technology*, and in upcoming issues of *The Journal of Thought and Educational Horizons*. He recently guest-edited a special issue of *The Journal of Education for Students Placed at Risk* focusing on the educational implications of Hurricane Katrina, e-mail: bbeabout@uno.edu

Alison A. Carr-Chellman, Ph.D. earned her doctorate at Indiana University under the direction of Dr. Charles M. Reigeluth focusing on educational systems design. She has worked as a teacher, a tutor, a corporate instructional designer, and a professor. Her interests mainly focus on systems theory and systemic change, diffusion of innovations, and e-learning. She is the author of more than 100 articles, book chapters, conference proceedings, and 2 books. She teaches courses in qualitative research, instructional design, global impacts of e-learning, and research at Penn State in the College of Education, Department of Learning and Performance Systems, e-mail: aac3@psu.edu

Jody Clarke is an advanced doctoral student in Learning and Teaching at the Harvard Graduate School of Education. She is the project director for Chris Dede's IERI funded grant, "Studying Robust-Design Strategies for Developing Innovations Effective and Scalable in Challenging Classroom Settings," a middle school science curriculum that is working with over 100 teachers across the country. She was research director for Chris Dede's NSF funded grant, "Studying Situated Learning and Knowledge Transfer in a Multi-User Virtual Environment." Her research interests focus on how emerging technologies shape learning, cognition, pedagogy, social interaction, and offer new possibilities

for research. She has a master's degree in Technology in Education from HGSE, e-mail: jody_clarke@gse.harvard.edu

Chris Dede is the Timothy E. Wirth Professor in Learning Technologies at Harvard's Graduate School of Education. His fields of scholarship include emerging technologies, policy, and leadership. Chris has served on the National Academy of Sciences Committee on Foundations of Educational and Psychological Assessment, the U.S. Department of Education's Expert Panel on Technology, and the Steering Committee for the Second International Technology in Education Study. In 2007, he was honored by Harvard University as an outstanding teacher, e-mail: Chris_Dede@Harvard.edu

Chaoyan Dong is a Postdoctoral Scholar in the Electronic Media Patient Education Institute (EMPEI) at New York University's School of Medicine. Her research focuses primarily on examining how digital media affects learning in both formal and informal settings, and on how to establish rich technology integrated learning environments, that support understanding of content. Her dissertation research examines whether aesthetically pleasing multimedia design induces positive emotions in learners and how the induced positive emotions affect learning. She holds an M.S. in Educational Technology from Purdue University, and a Ph.D. from the Educational Communication and Technology Program at New York University, e-mail: chaoyan@nyu.edu

Marcy P. Driscoll is Leslie J. Briggs Professor of Educational Research and Dean of the College of Education at Florida State University. She is Past-president of the Association for Educational Communications and Technology (AECT) and author or co-author of eight textbooks and numerous articles on learning and instruction and research methods. She has recently focused her effort on issues related to education policy and teacher education because of her role as dean. She is co-PI on a grant from the Florida Department of Education to establish the Florida Center for Research in Science, Technology, Engineering, and Mathematics (FCR-STEM) and co-PI on FSU-Teach, which establishes an innovative program in math and science education, e-mail: mldriscoll@fsu.edu

Thomas Duffy is the Barbara Jacobs Chair of Education Technology at Indiana University (Bloomington). He is a professor in Learning and Developmental Sciences and in Cognitive Science. Tom's work focuses on design research related to inquiry learning environments. The work focuses on defining design principles for technology supported learning environments that have most directly been realized in the work on the online professional development environment, LTTS. In evaluating the designs, there is a particular focus on understanding the effective use of technology to scaffold learning and in the variables in collaborative and mentoring activities that facilitate learning. Tom's funded work involves two primary projects, in addition to LTTS. Through support from the State Department, he is working with post-secondary institutions in Azerbaijan to develop their distance education

capabilities. Through funding from Cisco Systems, he is evaluating the Cisco Networking Academy educational model which involves a mixture of centralized curriculum and assessment with local teaching. His most recent book is co-edited with Sig Tobias, *Constructivism and the Design of Instruction: Success or Failure*, e-mail: duffy@indiana.edu

Wellesley R. (“Rob”) Foshay is Director of Educational Research for the Education Technology Group of Texas Instruments, where he manages a large program of independent research on math and science education using TI’s graphing calculator and classroom network technologies, and supporting systemic interventions and professional services. Prior to joining TI, Rob consulted independently through The Foshay Group (www.foshay.org) and was for 15 years the chief instructional architect of the PLATO Learning System, one of the oldest and largest e-learning systems. His background includes over 25 years of e-learning industry experience, as well as faculty positions at the University and high school levels. His doctorate is in instructional design from Indiana University. He may be reached at rfoshay@foshay.org

Dr. Andy Gibbons, faculty member and Chair of Instructional Psychology and Technology at Brigham Young University, also a faculty member at Utah State University in Instructional Psychology. He led instructional design projects in industry for 18 years at Wicat Systems, Inc. and for 5 years at Courseware Incorporated. Dr. Gibbons’ work included large-scale training development and design of simulations and innovative computer-based instruction. Dr. Gibbons’ current research focuses on the architecture of instructional designs. He has published a design theory of Model-Centered Instruction, proposed a general Layering Theory of instructional designs, and is currently studying the use of design languages in relation to design layers as a means of creating instructional systems that are adaptive, generative, and scalable, e-mail: andy_gibbons@byu.edu

Ricki Goldman, Associate Professor at NYU Steinhardt, is the founder of digital video ethnographic research methods in education and the inventor of several digital video analysis tools (*Learning Constellations*, 1988-1989, MIT Media Lab). Her edited volumes include *Video Research in the Learning Sciences* (Goldman, Pea, Barron, & Derry, 2007) and *Learning Together Online: Research in Asynchronous Learning Networks* (Hiltz & Goldman, LEA, 2004). Seymour Papert once wrote that her book, *Points of Viewing Children’s Thinking: A Digital Ethnographer’s Journey* (LEA, 1998), “has created a new method of making manifest to others the richness and excitement of the minds of children.” E-mail: ricki@nyu.edu

Douglas M. Harvey, Associate Professor at the Richard Stockton College of New Jersey, has been teaching in the Master of Arts in Instructional Technology program since 1999. His scholarly work has involved, among other things,

examining the impact of technologies on the formation of community and discourse in distributed education settings, e-mail: harveyd@stockton.edu

Jason Bond Huett, Ph.D. is an Assistant Professor with the University of West Georgia. He serves on the editorial boards for *Quarterly Review of Distance Education*, *The Journal of Applied Educational Technology*, and *Information Systems Education Journal*. Dr. Huett chaired AECT's Distance Education Standards Committee and works as an online course curriculum consultant for several universities and virtual high schools. He was a featured researcher at the 2006 AECT International Convention in Dallas, Texas and has published numerous articles and book chapters on distance education, including two award winning publications. He is interested in all things dealing with online learning. He currently lives with his wife and three children in Carrollton, Georgia, e-mail: jhuett@gmail.com

Dr. David Jonassen is Distinguished Professor of Education at the University of Missouri where he teaches in the areas of Learning Technologies and Educational Psychology. Since earning his doctorate in educational media and experimental educational psychology from Temple University, Dr. Jonassen has taught at the Pennsylvania State University, University of Colorado, the University of Twente in the Netherlands, the University of North Carolina at Greensboro, and Syracuse University. He has published 30 books and numerous articles, papers, and reports on text design, task analysis, instructional design, computer-based learning, hypermedia, constructivist learning, cognitive tools, and technology in learning. He has consulted with businesses, universities, public schools, and other institutions around the world. His current research focuses on the nature of problem solving and methods for learning to solve complex problems, e-mail: jonassend@missouri.edu

Jamie R. Kirkley, Ph.D. in Instructional Technology and Language Education from Indiana University (2006). She is a Research Scientist and Senior Instructional Designer for Information In Place, Inc. (1998–Present) and is an adjunct professor with the School of Education at Indiana University Bloomington. She has been published in the areas of serious games, embedded scaffolds, and problem based learning, e-mail: jamie@infoinplace.net

Deborah L. Lowther serves as the Senior Educational Technology Researcher for the Center for Research in Educational Policy (CREP) at The University of Memphis. In this role, and independently she serves or has served as the Lead Researcher for multiple high-profile research studies investigating technology integration policies and practices across the nation. Most notable are the Michigan's Freedom to Learn Laptop initiative, the Tennessee EdTech Launch, and working collaboratively with University of South Florida to conduct classroom observations for Florida Department of Education's Leveraging Laptop initiative. Collectively, Dr. Lowther's research has involved over 600 K-12 schools, 12,000 students, 5,000 teachers, and data from over 7,000 classroom observations in research initiatives supported with over \$4 million in

federal, state, and local funds. She is co-author of two textbooks: Smaldino, Lowther, and Russell (2007) *Instructional Technology and Media for Learning* (9th Ed.) and Morrison and Lowther (2005) *Integrating Technology into the Curriculum* (3rd Ed.), e-mail: dlowther@memphis.edu

Leslie Moller Ph.D. is an Associate Professor and former Chair of the Technology for Education and Training Division at the University of South Dakota. He is a graduate of Purdue University's Instructional Research and Development program. Leslie was the Chair of the AECT Research Symposium and editor of this volume. He also serves on the editorial boards of the *Quarterly Review of Distance Education*, *International Journal of Educational Technology and Performance Improvement Quarterly*. Dr. Moller is also the former Chair of the Instructional Technology Special Interest Group within the American Educational Research Association as well as the Distance Education and Curriculum committees for AECT. Leslie has authored over three-dozen articles and book chapters related to Distance Education and Instructional Systems Design. He and his wife Mary Ann and a houseful of critters, live in Yankton, South Dakota. He can be easily reached at lesmoller@aol.com

Gary R. Morrison received his doctorate in Instructional Systems Technology from Indiana University and is a professor and graduate program director in the instructional design and technology program at Old Dominion University. His research focuses on cognitive load theory, instructional strategies, K-12 technology integration, and distance education. He is author of two books: Morrison, Ross, & Kemp's *Designing Effective Instruction* (5th Edition) and Morrison & Lowther's *Integrating Computer Technology into the Classroom* (3rd Edition). He has written over 25 book chapters and over 35 articles on instructional design and educational technology. Gary is the editor of the *Journal of Computing in Higher Education* and is on the editorial boards of *Computers in Human Behavior*, *Quarterly Review of Distance Education*, and Libraries Unlimited's *Instructional Technology Series*. He has worked as instructional designer for three Fortune 500 companies and the University of Mid-America. Two of the distance education courses he designed were accepted for broadcast on PBS and NPR. Gary is a past president of Association for Educational Communication and Technology's (AECT) Research and Theory Division and Design, Development Division, and Distance Learning Division, e-mail: GMorriso@odu.edu

Chandra Hawley Orrill is a Research Scientist in the Learning and Performance Support Laboratory at the University of Georgia. Her research is focused on teacher professional development and teacher understanding. She is particularly interested in teacher learning of mathematics (grades 3–8) and the impact professional development can have on classroom practices, e-mail: corrill@uga.edu

Charles M. Reigeluth received a B.A. in economics from Harvard University. He was a high school teacher for 3 years before earning his doctorate in instructional psychology at Brigham Young University. He has been a Professor in the Instructional Systems Technology Department at Indiana University's School of Education in Bloomington since 1988, and served as chairman of the department from 1990 to 1992. His major area for service, teaching, and research is the process for facilitating district-wide paradigm change in public school systems. His major research goal is to advance knowledge to help school districts successfully navigate transformation to the learner-centered paradigm of education. He has published 9 books and over 120 journal articles and chapters. Two of his books received an "outstanding book of the year" award from AECT (Association for Educational Communications and Technology). He also received AECT's Distinguished Service Award and Brigham Young University's Distinguished Alumnus Award, e-mail: reigelut@indiana.edu

P. Clint Rogers completed his Ph.D. in Instructional Psychology and Technology at Brigham Young University, with specific research interests that include the cultural customization of online learning, the philosophical roots of education and science, and the impact of media and technological diffusion on business, international development, and social change, e-mail: Clint.rogers2008@gmail.com

Steven M. Ross received his doctorate in educational psychology from Pennsylvania State University. He is currently a Faudree Professor and Executive Director of the Center for Research in Educational Policy at the University of Memphis. He is the author of six textbooks and over 125 journal articles in the areas of educational technology and instructional design, at-risk learners, educational reform, computer-based instruction, and individualized instruction. He is the editor of the research section of the *Educational Technology Research and Development* journal. In 1993, he was the first faculty recipient of the University of Memphis Eminent Faculty Award for teaching, research, and service. He has testified on school restructuring research before the U.S. House of Representatives Subcommittee on Early Childhood, Youth, and Families, and on No Child Left Behind before the U.S. Senate Health, Education, Labor, and Pensions Committee. He is a technical advisor and researcher on current national initiatives regarding the evaluation of technology usage, supplemental educational services, charter schools, and school reform, e-mail: smross@memphis.edu

Sharon E. Smaldino holds the LD & Ruth G. Morgridge Endowed Chair for Teacher Education and serves as the Director of the College of Education School-University Partnership Office at Northern Illinois University. She has co-authored several textbooks on technology in teaching and distance education. Sharon has presented at national/international conferences and has published articles in numerous journals. She has served as the AECT president

and is currently one of the ECT Foundation trustees. She can be reached by e-mail at: ssmaldino@niu.edu

J. Michael Spector is Associate Director of the Learning Systems Institute, Professor of Instructional Systems, and Principal Investigator for the International Center for Learning, Education, and Performance Systems at Florida State University. He is a distinguished graduate of the U.S. Air Force Academy and earned a Ph.D. in Philosophy from The University of Texas at Austin. His recent research is in the areas of intelligent support for instructional design, system dynamics based learning environments, assessing learning in complex domains, and technology integration in education. Dr. Spector served on the International Board of Standards for Training, Performance and Instruction (*ibstpi*) as Executive Vice President; he is on the Executive Committee of the IEEE Learning Technology Task Force and is President-elect designee of the Association for Educational and Communications Technology (AECT). He is the editor of the Development Section of *ETR&D* and serves on numerous other editorial boards. He co-edited the third edition of the *Handbook of Research on Educational Communications and Technology* and has more than 100 journal articles, book chapters, and books to his credit, e-mail: mspector@lsi.fsu.edu

Johannes Strobel is Assistant Professor in Engineering Education & Educational Technology at Purdue University. He received his M.Ed. and Ph.D. in Learning Technologies from the University of Missouri-Columbia, USA. His research and teaching focuses on the intersection between learning, engineering and technology, particularly designing open-ended learning environments, virtual organizations and communities, problem solving in ill-structured/complex domains, and historical reasoning in engineering. He is drawing from theories of conceptual development and change, domain-specific reasoning, and employs qualitative, participatory, and design-based research methodologies, e-mail: jstrobel@purdue.edu

Rodrigo del Valle obtained his Ph.D. in education at Indiana University where he worked at the Center for Research on Learning and Technology. Currently Faculty Development Director at the Catholic University of Temuco in Chile, he has been head of Educational Resources for “Red Enlaces” the Chilean nationwide educational technology network, and also National Coordinator for the World Links for Development program. His research interests include online learning, teacher professional development, and technology integration, e-mail: rvalle@uctemuco.cl

William Watson is an Assistant Professor of Curriculum and Instruction in the Purdue University College of Education and Director of the Purdue Center for Serious Games and Learning in Virtual Environments. He has a Ph.D. in Education from Indiana University. His research interests focuses on the design of learner-centered learning environments and assessing their impact on learners. Areas of interest include educational video games, multi-user virtual

environments for learning, systemic change in education, and the integration of technology for learning, including the systemic application of computers to the learning processes such as through learning management systems. He may be reached at brwatson@purdue.edu

Heather Tillberg-Webb, Ph.D. is an Instructional Designer at The Johns Hopkins University Carey Business School. Her research interests focus on the implications of the intersection of technology, communication, and culture for educational contexts, e-mail: tillbergh@etown.edu

Dr. Alyssa Friend Wise is an Assistant Professor in the Faculty of Education at Simon Fraser University. Her research focuses on the design and use of online environments for learning. Coming from a constructivist perspective on learning, she is currently investigating the tensions (and overlap) between “consumer” and “community” models for online learning, e-mail: alyssa_wise@sfu.ca

Lisa C. Yamagata-Lynch is an Associate Professor at Northern Illinois University in the Department of Educational Technology, Research, and Assessment. Her research areas are curricular technology integration, K-12 school and university partnerships, teacher professional development, and the use of activity systems analysis for understanding complex learning environments. Her representative publications are in *Teaching and Teacher Education*, *The Journal of the Learning Sciences*, *Mind, Culture, and Activity*, and *Evaluation and Program Planning*, e-mail: Lisayl@niu.edu