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Research Interests

Best practices in the use and design of emerging digital technologies, including digital games, role plays, simulations, and electronic media; Internet, society, and culture; and Social Studies education and practice

Education

Doctor of Philosophy: Instructional Leadership/Instructional Technology; minors in Educational Research and Secondary Social Studies Education; with 18 hours in 20th Century United States History. December 2000, The University of Alabama, Tuscaloosa, Alabama

Master of Arts: Secondary Education. August 1989, The University of Alabama, Tuscaloosa, Alabama

Bachelor of Science: Secondary Education. December 1984, The University of Texas, Austin, Texas

Selected Awards and Recognition

Adolph B. Crew Teaching Award, College of Education, University of Alabama, 1998.

Columbus Voyage of Discovery Quincentenary Teacher-Scholar Award, National Geographic Society/National Council for Geographic Education/Alabama Geographic Alliance, 1992.

Scholarship

Recent Grants and Other Funding

Ray, B. B., Rosborough, A., & Lin, S-Y. (2011). *Grow Your Own Scholarship Program*. Idaho State Board of Education, \$97,500.

Ray, B. B., & Jacobsen, B. (2011). *simSchool Project: Level 3 Partner*. Association for the Advancement of Computing in Education, \$37,600.

Ray, B. B., & Rosborough, A. (2010). *Grow Your Own Scholarship Program*. Idaho State Board of Education, \$101,000.

Book Chapters

Powell, A., & **Ray, B.** (2012). Supporting Mathematics for Young Children through Technology. In S. Blake, D. Winsor, & L. Allen (Eds.) *Child Development and the Use of Technology: Perspectives, Applications and Experiences*. (pp. 146-168) Hershey,PA: IGI Global.

Ray, B. B. (2011). Teaching Elementary Social Studies: Music and Social Studies. In N.R. Robinson, S. N. Hall, & F. P. Spano (Eds.), *Teaching elementary music: Integrative connections between music and other subjects* (2nd ed.) (pp. 255-261, 267). Dubuque, IA: Kendall Hunt Publishing Company.

Ray, B. B. (2010). Teaching Elementary Social Studies: Music and Social Studies. In N. R. Robinson, S. Hall, & F. P. Spano (Eds.), *Teaching Elementary Music: Integrative connections between music and other subjects* (pp. 255-261). Dubuque, IA: Kendall Hunt Publishing.

Ray, B. B. (2010). Using music and other source materials to solve a mystery from the past: Who was Harriet Tubman and what did she do to make the world a better place? In N. R. Robinson, S. Hall, & F. P. Spano (Eds.), *Teaching Elementary Music: Integrative connections between music and other subjects* (pp. 261-266). Dubuque, IA: Kendall Hunt Publishing.

Selected Peer Reviewed Publications

Faure, C., & **Ray, B. B.** (2011). Game Time!: Justifying the use of Wii Fit Plus in the early elementary physical education classroom. *Journal of Technology Integration in the Classroom*, 3(1).

Ray, B. B., & Coulter, G. (2010). Perceptions of the value of digital mini-games: Implications for middle school classrooms. *Journal of Digital Learning in Teacher Education* [Formerly the *Journal of Computing in Teacher Education*], 26(3), 92-100.

Ray, B. B., & Pemberton, C. (2010). Engaging 9/11 as a learning event: Teachers' perspectives examined. *Social Studies Research and Practice*, 5(1), 58 -74.

Pemberton, C., **Ray, B.**, Said, H., Easterly, D., & Belcher, C. (2010). Graduate student perceptions of college of education culture and climate. *Advancing Women in Leadership*, 30(5). Available: http://www.advancingwomen.com/awl/Vol30_2010/cynthia_pemberton_AWL_vol_30_no.5.pdf

Ray, B. B. (2009). Voices from the classroom: Secondary teachers' media use on 9/11. *International Journal for Instructional Media*, 36(3), 303-312.

Ray, B. B., & Coulter, G. (2008). Reflective practices among Language Arts teachers: The use of weblogs. *Contemporary Issues in Technology and Teacher Education*, 8(1). Retrieved from <http://www.citejournal.org/vol8/iss1/languagearts/article1.cfm>

Ray, B. B., & Hocutt, M. M. (2007, Reprint). What does the research really say? Teacher created, teacher centered weblogs: Perceptions and Practices. *Michigan Association for Computer Users in Learning*, 27(3), 38 - 39.

Ray, B. B., Powell, A. & Strickland, J. (2006/2007). Technology integration and the preservice teacher: A roadmap for reflection and observation during early field experiences. *Teaching & Learning: The Journal of Natural Inquiry and Reflective Practice*, 21(1), 29 - 58.

Ray, B. B., & Hocutt, M. M. (2006). Teacher created, teacher centered weblogs: Perceptions and practices. *Journal of Computing in Teacher Education*, 23(1), 21 - 28.

Ray, B. B. (July/August 2006). Analyzing political art to get at historical fact: *Guernica* and the Spanish Civil War. *The Social Studies*, 97(4). 168 - 171.

Ray, B. B., & Hocutt, M. M. (June 2006). [Review of the book *Blogs, wikis, podcasts and other powerful web tools for classrooms.*] *Teachers College Record*. ID Number: 12550. Available from <http://www.tcrecord.org>

Wright, V., Stallworth, J. B., & **Ray, B.** (2002). Challenges of electronic portfolios: Student perspectives and experiences. *Journal of Technology and Teacher Education*, 10(1), 47 - 59.

Ray, B., & McFadden, A. (Fall 2001). PDAs in higher education: Tips for instructors and students. *Journal of Computing in Higher Education*, 13(1) , pp. 110 - 118.

Ray, B. B., McFadden, A., Patterson, S., & Wright, V. (Summer 2001). Personal digital assistants in the middle school classroom: Lessons in hand. *Meridian: A Middle School Computer Technologies Journal*, 4(2). Available from <http://www.ncsu.edu/meridian/>

Ray, B., & Marsh, G. (February 2001). Recruitment of extremists on the Internet. *First Monday*, 6(2). Available from http://firstmonday.org/issues/issue6_2/ray/index.html. (Results of this research reported/quoted in *New Matilda*, <http://www.newmatilda.com>, in 2007)

Selected Peer Reviewed Proceedings and Presentations

Ray, B. B. (2011). Supporting conceptual learning in the Social Studies via digital gaming. *Hawaii International Conference on Education*.

Ray, B. B., Jacobsen, B., & Ruchti, W. (accepted, 2011). Wii the Teachers: Serious games for serious learning. *Society for Instructional Technology and Education*.

Ray, B. B., & Hocutt, M. (2010). Using an online simulation to promote conceptual learning. *EDUCAUSE Learning Initiative (ELI) Conference*.

Coulter, G., & **Ray, B.** (2009). Teacher candidates' perceptions of the efficacy of the use of webcasts as online supplemental instruction in a traditional education course. In T. Bastiaens, Et al. (Eds.) *Proceedings of the World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2009* (p. 2475). Chesapeake, VA: AACE.

Coulter, G. A., & **Ray, B. B.** (2009). *Webcasting and learning: Design considerations for the novice professor*. Hawaii International Conference on Education.

Ray, B. B. (2009). *Digital mini-games for the social studies classroom: Does perception shape practice, while practice ignores research?* Hawaii International Conference on Education.

Ray, B. B. (Accepted, 2009). *Using an online simulation/role play to teach about genocide*. National Council for the Social Studies Annual Conference.

Ray, B. B. (2008). *Got game? Educators' perspectives on the value of digital games* . Proceedings of the Society for Instructional Technology and Education.

Coulter, G., & **Ray, B. B.** (2008). *Designing for the future of webcasting*. Proceedings of the Society for Instructional Technology and Education.

Ray, B. B. (2007). *Digital and mass media literacy in the age of terrorism: What do teachers need to know about media use?* Proceedings of the Society for Instructional Technology and Education.

Ray, B. B., Hocutt, M., & Patterson, S. (2005). *Weblogs to promote creative expression and reflective practice in e-learning environments*. World Conference on E-Learning in Corporate, Government, Healthcare, & Higher Education.

Hocutt, M. M., Patterson, S. K., & **Ray, B.** (October 2005). *Blog, blog, blog*. Educause 2005.

Hocutt, M., **Ray, B.**, & Wright, V. (2005). *High school students: How do they obtain technology skills?* Proceedings of the Society for Instructional Technology and Education.

Ray, B. B., Hocutt, M., Wright, V., & Ray, G.S. (2004). *Collaborative lesson planning in WebCT: Observations from a K-8 social studies methods course*. Proceedings of the Society for Instructional Technology and Education.

Hocutt, M., Wright, V., Hartman, J., & **Ray, B.** (2004) *Comparing instructional methodologies in sixth-grade science: Traditional textbook, integrated science, and integrated science with technology enhancement*. Proceedings of the Society for Instructional Technology and Education.

Ray, B. B. & Patterson, S.K. (2003). *Online ethics: Challenges for preservice educators*. Proceedings of the Society for Instructional Technology and Education.

Powell-Mikle, A., & **Ray, B. B.** (2003). *Pre-service math educators' receptivity to mathematically-based electronic portfolios as assessment, reflection and anxiety reduction tools*. Proceedings of the Society for Instructional Technology and Education.

Strickland, J, **Ray, B.** & Coffland, D. (2003). *An integration partnership: Technology, methodology, and early field experiences*. Association of Teacher Educators (ATE) Conference.

Ray, B. B. & Hocutt, M. (2002). *Real history: Interactive slideshows to support educational objectives in the Social Studies*. Proceedings of the Society for Instructional Technology and Education.

Ray, B. B., McFadden, A., Patterson, S., & Hocutt, M. (2001). *Revolution in hand: Personal digital assistants in the science classroom*. Proceedings of the Society for Instructional Technology and Education.

Ray, B. B., Wright, V., Stallworth, J., & Wilson, E. (2001). *Electronic portfolios and preservice teachers*. Proceedings of the Society for Instructional Technology and Education.

Selected International, National, and Regional Presentations

Ray, B. B., & Patterson, S. (October 2001). *Handheld computers in the classroom*. EDUCAUSE.

Wilson, E. K., Rice, M., **Ray, B.**, Stallworth, B., Shaver, K., & Callison, K. (June 2000). *A virtual trip through the civil rights movement*. National Educational Computing Conference.

Wilson, E. K., Rice, M. & **Ray, B. B.** (November 1998). *Integrating technology and constructivism into the social studies classroom: Making a difference*. National Council for the Social Studies Annual Meeting.

Wilson, E. K. & **Ray, B.** (March 1998). *Teaching the Holocaust*. Mortar Board Social Studies Conference, University of Alabama, Tuscaloosa, AL (Invited)

Wilson, E. K., **Ray, B.**, & Evans, A. (November 1996). *Using virtual fieldtrips for instructional purposes*. National Council for the Social Studies Annual Meeting.

Ray, B. (October 1992). *The great disease migration*. National Council for Geographic Education/Society of Latin American Geographers, Annual Meeting. Santo Domingo, DR.

Ray, B. (March 1990). *Crossroads of understanding: Communications in a technological society*. National Council for the Social Studies Southeast Regional Meeting.

Selected Edited Journals and Review Boards

Editor. (2001 - 2008). *Electronic Journal for the Integration of Technology in Education*

Reviewer. (2003 - present). *Journal of Technology and Teacher Education*. AACE Journal Review Board.

Reviewer. (2008 - present). *Journal for Computer Assisted Learning*.

Reviewer. (2004; 2005 - present). *Journal of Interactive Online Learning*.

Reviewer. (2008 - present). *Current Issues in Education*.

Reviewer. (2003). *View of the principal and the job*. The George Lucas Educational Foundation. Available from <http://www.glef.org/courseware/index.html>

Full vitae is available upon request.