

Elizabeth Boling

January 2023

201 N. Rose Avenue, Education 3036
Indiana University
Bloomington, In 47405

- 2019-present Professor, Instructional Systems Technology
Indiana University Bloomington
- 2017-2018 Interim Executive Associate Dean
School of Education
Indiana University, Bloomington, Indiana
- 2010 - 2016 Professor, Associate Dean for Graduate Studies
School of Education
Indiana University, Bloomington, Indiana
- 1999 - 2010 Associate Professor, Department Chair, Instructional Systems Technology
School of Education

Indiana University, Bloomington, Indiana
- 1992 – 1998 Assistant Professor, Instructional Systems Technology
School of Education
Indiana University, Bloomington, Indiana
- 1988 - 1992 Manager, Electronic Production Group, Instructional Products
Apple Computer, Cupertino, California
- 1983 - 1988 Director, Technical Services
Bibliogem, Inc., Bloomington, Indiana
- 1982 - 1983 Instructor, Computing for the Visual Arts
Indiana University, Bloomington, Indiana, School of Fine Arts

Education

- 1983 Master of Fine Arts, Indiana University, Bloomington, Indiana
- 1979 Bachelor of Fine Arts, Texas Tech University, Lubbock, Texas

Associations

- American Educational Research Association (AERA)
- Association for Educational Communications and Technology (AECT)
- Design Research Society (DRS)

Honors

- 2021 AERA TICL SIG Outstanding International Research Collaboration Award
AECT Research and Theory Division Young Researcher Award w/Tiffany Roman
James E. Mumford Excellence in Extraordinary Teaching Award
Educational Technology Research and Design Editors Excellence Award
- 2010 Excellence in Mentoring Award, School of Education, Indiana University
- 2006 Gordon Faculty Award; Indiana University
- 2006 Association for Educational Communications & Technology: Special Service Award
- 2006 Design & Development Division, AECT: Outstanding Service to the Division
- 2000 CIC Academic Leadership Institute Fellow
- 1997, 1998 TERA Award for Teaching Excellence, Indiana University
- 1996 Golden ARC Award for Product Design: National Agriculture Research Council
- 1991 Award of Achievement: Job Aid Design
Society for Technical Communications; Puget Sound

Technical Art and Publication Competition
 1988 Classroom Computer Learning Software Award of Excellence
 1979 Ford Foundation Fellowship Award, Indiana University

Grants

2010	Collaborative Research & Creative Activity, Office of VP for Research, Indiana University Bloomington – collaborator with Center for the Study of History & Memory		
	Collaborative Online Tutorial Development	John Bodnar (PI) Barbara Truesdell Elizabeth Boling	9,996.00
2003	Proffitt Internal Grant Competition Visual Representations to Support Learning: Effectiveness of Graphical Elements Used to Extend the Meaning of Instructional Illustrations	Elizabeth Boling (PI) Kennon Smith Malinda Eccarius Ted Frick	39,864.00
1998	Summer Faculty Fellowship Knowledge Management for Usability Professionals in Software Development	Elizabeth Boling (PI)	6,500.00

Refereed Publications

Lachheb, A. & Boling, E. (forthcoming 2023). How they define design failure? An investigation of design failure in instructional design practice from the practitioners' perspective. *Educational Technology Design & Development*.

Moore, S., Boling, E., Leary, H., Howard, C. & Hodges, C. (forthcoming 2023). Research Methods for Design Knowledge: Clarifying Definitions, Characteristics, and Areas of Confusion. *Educational Technology Research and Development*.

Huang, J., Yan, Y., & Boling, E. (2021). The four-panel narrative: A slice of life from an adapted and evolving assignment. *International Journal of Designs for Learning*.

Tomita, K., Alangari, H., Zhu, M. et al. (2021). Challenges Implementing Qualitative Research Methods in a Study of Instructional Design Practice. *TechTrends* <https://doi.org/10.1007/s11528-020-00569-2> (I am author 6/6 with my research students; published January 11 as online first)

Lachheb, A. & Boling, E. (2018). Design tools in practice: instructional designers report which tools they use and why. *Journal of Computing in Higher Education*, 30(1): 34-54.

Boling, E., Alangari, H., Hajdu, I., Guo, M., Gyabak, K., Khlaif, Z., Kizilboga, R., Tomita, K., Alsaif, M., Bae, H., Ergulec, F., Lachheb, A., Zhu, M., Basdogan, M., Buggs, C., Sari, A., Techawitthaychinda, R. (2017). Core judgments of instructional designers in practice. *Performance Improvement Quarterly*, 30(3): 199-219.

Gray, C. M. & Boling, E. (2017). Designers' articulation and activation of instrumental judgments in cross-cultural user research. Special Issue, *Co-Design: International Journal of CoCreation in Design and the Arts*, 14(2): 79-97.

Gray, C. M. & Boling, E. (2016). Inscribing ethics and values in designs for learning: A problematic. *Educational Technology Research and Design*, 64(5), 969-1001. DOI 10.1007/s11423-016-9478-x

Gray, C.M., Daggi, C., Demiral-Uzan, M., Ergulec, F., Tan, V., Altuwajri, A., Gyabak, K., Hilligoss, M., Kizilboga, R. & Tomita, K., Boling, E. (2015). Judgment and instructional design: How ID practitioners work in practice. *Performance Improvement Quarterly* 28(3), 25-49.

Boling, E. (2014). Making Alcatraz amazing. *International Journal of Designs for Learning*, 5(2); 76-82.

- Boling, E., Siegel, M., Smith, K.M. & Parrish, P. (2013). Student goes on a journey; Stranger rides into to the classroom: Narratives and the instructor in the design studio. *Art, Design, and Communication in Higher Education*; Special Issue in Narrative, Communication and Pedagogy, 12(2): 179-183.
- Boling, E., Gray, C. M. & Modell, M. G. (2010; effective date 2014 because of publishing backlog). Learners Interpreting Instructional Images: Meaning-making and decision-making strategies. *Journal of Visual Literacy*, 33(2), 27-51.
- Jin, S. and Boling, E. (2010). Instructional designer's intentions and learners' perceptions of the instructional functions of visuals in an e-learning context, *Journal of Visual Literacy*, 29(2), 143-166.
- Boling, E. and Smith, K. (2010). Intensive studio experience in a non-studio masters program: student activities and thinking across levels of design. In *Design and Complexity: Design Research Society Conference 2010*; School of Industrial Design, Montreal (Quebec), Canada.
- Boling, E. and Smith, K. (2009). Exploring standards of rigour for design cases. *Undisciplined! Proceedings of the Design Research Society Conference 2008*. D. Durling, C. Rust, L. Chen, P. Ashton and K. Friedman (Eds.). Sheffield Hallam University, Sheffield, UK, 131/1—131/10. Available at <http://shura.shu.ac.uk/468/>
- Lee, J. and Boling, E. (2008). Information-conveying approaches and cognitive styles on mental modeling in the hypermedia-based learning environment. *Journal of the American Society for Information Science and Technology* 59(2), 1-18.
- Hsu, Y. and Boling, E. (2007). An approach for designing composite metaphors for user interfaces. *Behaviour and Information Technology*. 26(3), 209-220.
- Brown, J.P., Massey, A. & Boling, E. (2005). Evaluation of knowledge management systems: Insights from the study of a technical support knowledge base. *Knowledge Management Research and Practice*, 3(2), 49 – 59.
- Boling, E., Eccarius, M., Smith, K. and Frick, T. (2004). Instructional illustrations: Intended meanings and learner interpretations. *Journal of Visual Literacy*, 24(2), pp. 185-204.
- Zazelenchuk, T. & Boling, E. (2003). "Considering users' satisfaction in the design of Web-based portals." *EDUCAUSE Quarterly*, 26(1).
- Misanchuk, E., Schwier, R., & Boling, E. (2000). Discourse on designing a hypermedia book. *Journal of Educational Multimedia and Hypermedia*, 9(3), pp. 223-251.
- Boling, E., Cai, W., Brown, J.P., & Bolte, J. (2000). Knowledge base development: The life cycle of an item in the Indiana University Knowledge Base. *Technical Communications*, 47(4), pp. 530-543.
- Boling, E., King, K., Avers, D., Hsu, Y., Lee, J., and Frick, T. (1997). Navigation backward: Concrete vs. abstract representation in hypertext buttons. *Canadian Journal of Educational Communications*, 25 (2), 161-176.
- Boling, E., Beriswill, J., Xaver, R., Hebb, C., Kaufman, D., and Frick, T. (1997). Text labels for hypermedia navigation buttons. *International Journal of Instructional Media*, 25 (4), 407-421.
- Boling, E. and Lee, S.H. (1996). Motivational design guidelines for computer-mediated instruction. Proceedings, 18th Annual Proceedings of Selected Research and Development Presentations at the 1996 Convention of the Association for Educational Communications and Technology (pp. 401-412).
- King, K., Boling, E., Anelli, J., Bray, M., and Frick, T. (1996). Relative perceptibility of HyperCard buttons using pictorial symbols and text labels. *Journal of Educational Computing Research*, 14(1), 67-81.
- Boling, E. and Sugar, W. (1995). User-centered innovation: A model for early usability testing. Proceedings, 17th Annual Proceedings of Selected Research and Development Presentations at the 1995 Convention of the Association for Educational Communications and Technology (pp. 563-570).

Contributions to edited publications

- Boling, E. (2020). The Nature and Use of Precedent in Designing. In J. K. McDonald & R. E. West, *Design for Learning: Principles, Processes, and Praxis*. EdTech Books. Retrieved from <https://edtechbooks.org/id/precedent>

- Lachheb, A. & Boling, E. (2020). The Role of Design Judgment and Reflection in Instructional Design. In J. K. McDonald & R. E. West (Eds.), *Design for Learning: Principles, Processes, and Praxis*. EdTech Books.
- Gray, C.M. & Boling, E. (2017). Designers' articulation and activation of instrumental design judgments in cross cultural user research. In B. Christensen, L. Ball & K. Halskov (Eds.). *Analysing Design Thinking: Studies of Cross Cultural Co-Creation*. London, UK: Taylor & Francis Group: pp. 191- 214.
- Boling, E. & Gray, Colin M. (2015). Designerly tools, sketching, and instructional designers and the guarantors of design. In B. Hokanson, G. Clinton & M. W. Tracey (Eds.). *The Design of Learning Experiences*. New York, NY: Springer.
- Boling, E. & Smith, K. M. (2014). Critical issues in studio pedagogy: Beyond the mystique and down to business in B. Hokanson & A. Gibbons (Eds.). *Design Thinking, Design Processes, and the Design Studio*. New York, NY: Springer.
- Gibbons, A., Boling, E. & Smith, K. (2014). Design models. In (M. Spector, D. Merrill, M.J. Bishop & J. Elen, Eds.) *Handbook for research in Educational Communications and Technology, 4th Ed*. New York, NY: Springer.
- Korkmaz, N. & Boling, E. (2014). Development of design judgment in instructional design: perspectives from instructors, students and instructional designers in B. Hokanson & A. Gibbons (Eds.). *Design Thinking, Design Processes, and the Design Studio*. New York, NY: Springer.
- Tracey, M. & Boling, E. (2014). Preparing instructional designers. In (M. Spector, D. Merrill, M.J. Bishop & J. Elen, Eds.) *Handbook for Research in Educational Communications and Technology, 4th Ed*. New York, NY: Springer.
- Buchanan, R., Cross, N., Durling, D., Nelson, H., Owen, C., Valtonen, A., Boling, E., Gibbons, A. & Visscher-Voerman, I. (2013). Design. *Educational Technology, 53*(5), 25-42.
- Boling, E. & Smith, K.M. (2012). The design case: rigorous design knowledge for design practice. *Interactions, (19)*5, pp. 48-53.
- Boling, E. and Smith K. M. (2011). The changing nature of design. In Reiser, R. and Dempsey, J. (Eds.), *Trends and Issues in Instructional Design and Technology*. (3rd Ed.), Prentice Hall.
- Smith, K.M. and Boling, E. (2009). What do we make of design? Design as a concept in educational technology. *Educational Technology, July/August, 2009*.
- Boling, E. & Smith, K.M. (2008). Artifacts as tools in design. In D. Merrill and M. Spector (Eds.). *Handbook of Research in Educational Communications and Technology* (3rd ed.), New York, NY: Taylor & Francis.
- Baek, E., Cagiltay, K., Boling, E. and Frick, T. (2008). User-centered design and development. In D. Merrill and M. Spector (Eds.). *Handbook of Research in Educational Communications and Technology* (3rd ed.), New York, NY: Taylor & Francis.
- Boling, E. (2008). From students to scholars: Revision of the doctoral program in Instructional Systems Technology at Indiana University. In, M. Orey, J. McLendon & R. Branch (Eds.). *Educational Media and Technology Yearbook 2008*. Westport, CT: Libraries Unlimited.
- Bichelmeyer, B., Boling, E., & Gibbons, A. (2006). Instructional design and technology models: Their impact on research, practice and teaching in IDT. In, M. Orey, J. McLendon & R. Branch (Eds.). *Educational Media and Technology Yearbook 2006*. Westport, CT: Libraries Unlimited.
- Boling, E. & Smith, K. M. (2005). Usability testing at a distance. *The User Experience, 4*(2), 4-9.
- Hill, J., Bichelmeyer, B., Boling, E., Gibbons, A., Grabowski, B., Osguthorpe, R. & Wager, W. (2004). "Perspectives on significant issues facing instructional design and technology." In M. Orey, M.A. Fitzgerald & R. Branch, Eds.). *Educational Media and Technology Yearbook*. Westport, CN: Libraries Unlimited.
- Boling, E. (2003). Design cultures in fine arts studio programs. In E. Boling (Ed.). *Design Cultures*. Online: http://www.indiana.edu/~idt/shortpapers/documents/design_cultures.html
- Frick, T., Boling, E., Kim, K., Oswald, D. and Zazelenchuk, T. (2001). Software developers' attitudes toward user-centered design. In *Annual Proceedings of Selected Research and Development*. Atlanta, Georgia, USA: Association for Educational Communications and Technology.
- Lee, S. and Boling, E. (1999). Screen guidelines for motivation in interactive multimedia instruction: A survey and framework for designers. *Educational Technology, 39* (3), 19-26.

- Hara, N., Ray, A. and Boling, E. (1997). Designing - and redesigning - a WWWeb site for The Children's Museum of Indianapolis. *Indiana Media Journal*, 19(4), 19-21.
- Boling, E. and Frick, T. (1997). Holistic rapid prototyping for Web design: Early usability testing is essential in B. Khan (Ed.). *Web-based Instruction* (pp. 319-328). Englewood Cliffs, NJ: Educational Technology Press.
- Boling, E. (1996). Usability testing for Web sites. *Information Products Journal*, 11(4), 8-9.
- Boling, E. and Kirkley, S. (1996). Helping students design World Wide Web documents: Planning and designing the site. *HyperNEXUS*, 6(4), 13-18.
- Boling, E. and Kirkley, S. (1996). Helping students design World Wide Web documents: Designing and maintaining the pages. *HyperNEXUS*, 7(1), 12-18.
- Boling, E., Johnson, L., and Kirkley, S. (1994). A quick and dirty dozen: Design guidelines for using icons. *HyperNEXUS*, 4(3), 5-9.
- Boling, E. and Sousa, G. (1993). Interface design issues in the future of business training. *Business Horizons*, 36(6), 50-54.
- Boling, E. (1984). Art teachers learn mainframe graphic computing. *Arts & Activities*, 95(2), 32-38.

Invited Publications

- Boling, E. & Smith, K. (forthcoming). Changing conceptions of design. In Reiser, R. and Carr-Chellman, A. (Eds.), *Trends and Issues in Instructional Design and Technology*. (5th Ed.), Pearson.
- Gray, C.M., & Boling, E. (2023). Learning Experience Design in the light of design knowledge and philosophy. Special Issue on Learning Experience Design: Informing Practice and Extending the Tradition in the *Journal of Applied Instructional Design*.
- Boling, E. & Smith, K.M. (2017). Changing conceptions of design. In Reiser, R. and Dempsey, J. (Eds.), *Trends and Issues in Instructional Design and Technology*. (4th Ed.), Pearson.
- Cho, Y., Boling, E. & Kwon, K. (2017). Improving human learning and performance at Indiana University. *Performance Improvement*, 56(3), 34-44.
- Boling, E. (2016). Teaching the complex performance of instructional design: Why we cannot use the (existing) tools of instructional design. (2017). In A. Carr-Chellman and G. Rowland (Eds.). *Issues in Technology, Learning, and Instructional Design: Classic and Contemporary Dialogues*. New York, NY: Routledge, 81-86.
- Boling, Elizabeth, (2016). "Elizabeth's voice: Those who came before us – Jane Wheeler Boling." In A. Donaldson (Ed.). *Women's Voices in the Field of Educational Technology*. New York, NY: Springer, 47-49. ISBN/ISSN: 978-3-319-33451-6.
- Boling, E., & Gray, C. M. (2014). Design: The topic that should not be closed. *TechTrends*, 58(6), 17-19.
- Boling, E. (2013). Critical reading about the design tradition for instructional designers; Review of *The Design Way*. Book Reviews; *Educational Technology*, 53(6), 55-56.
- Buchanan, R., Cross, N., Durling, D., Nelson, H., Owen, C., Valtonen, A., Boling, E., Gibbons, A. & Visscher-Voerman, I. (2013). Design. *Educational Technology*, 53(5), 25-42.
- Howard, C., Boling, E., Rowland, G. & Smith, K. M. (2012). Instructional design cases and why we need them. *Educational Technology*, 52(3); 34-38.
- Boling, E., Easterling, W., Hardré, P., Howard, C., & Roman, T. (2011). ADDIE: Perspectives in Transition. *Educational Technology*, 51 (5), 34-38.
- Boling, E. and Smith K. M. (2011). The changing nature of design. In Reiser, R. and Dempsey, J. (Eds.), *Trends and Issues in Instructional Design and Technology*. (3rd Ed.), Prentice Hall.
- Boling, E. (2010). The need for design cases: Disseminating design knowledge. *International Journal of Designs for Learning*, (1) 1. 1-8. Retrieved from <http://scholarworks.iu.edu/journals/index.php/ijdl/index>

- Molenda, M., and Boling, E. (2008). Creating. In A. Januszewski, A., & M. Molenda (eds.) *Educational technology: A definition with commentary*. (pp. 81-139). Mahwah, NJ: Lawrence Erlbaum Associates.
- Boling, E., and Soo, Keng-Soon. (1999). CALL Issues: Designing CALL Software. In Joy Egbert and Elizabeth Hanson-Smith (Eds.), *CALL Environments: Research, Practice, and Critical Issues*. Alexandria, VA: Teachers of English to Speakers of Other Languages, Inc. (pp. 442-456.)
- Boling, E. and Yi, Q. (1996). Design process and guidelines for language learning sites on the World Wide Web. *The Dong-Eui International Journal*, 2, 5-23.
- Boling, E. (1995). Issues for multimedia in language learning. *Multimedia and the Information Highway in Language Education, 1995 International Workshop Proceedings* (pp. 1-12). Kwangju, Korea: Language Research Center.
- Boling, E. (1994). Meeting the challenge of the electronic page: Extending instructional design skills. *Educational Technology*, 34(7), 13-18.

Juried presentations

- Boling, E. & Smith K. M. (2023). Design intentions & knowledge in untutored sign-makers: Implications for design pedagogy. 23rd Annual Instructional Design Conference, Bloomington, Indiana: March 3, 2023.
- Boling, E. (2019). Framing and reframing: On *not* requiring multiple initial design ideas from students. American Educational Research Association (AERA), Toronto, Canada: April 9-11, 2019.
- Boling, E. & Gray, C.M. Instructional design and user experience design: Values and perspectives examined through artifact analysis. AECT Summer Research Symposium, Bloomington, IN: July 17-18, 2019.
- Boling, E., Lachheb, Basdogan, M., Abremanka, V., Guo, M., Alghamdi, K., Nadir, H., Zhu, M. & Bhattacharya, P. Design precedent: Critical knowledge as it is defined and used across fields of design. Association for Educational Communications and Technology (AECT). Las Vegas, NV: October 21-25, 2019.
- Lachheb, A. & Boling, E. Examining instructional design practice: Practitioners' design means and judgments. Association for Educational Communications and Technology (AECT). Las Vegas, NV: October 21-25, 2019.
- Guo, M. & Boling, E. (2018). Exploring pre-service teachers' design activity of technology integration. Association of Educational Education and Technology, Kansas City, KS: October 26, 2018.
- Boling, E., Gray, C. M. & Smith, K.M. (2017). The designer in the design student: The evolution of feedback in an instructional graphics studio. American Educational Research Association, San Antonio, TX: April 27 – May 1, 2017.
- Boling, E., Alangari, H., Brown, O., Demiral-Uzan, M., Faulkner, R., Gyabak, K., Hajdu, I., Khlaif, Z., Kizilboga, R., Tomita, K. & Guo, M. (2016). Core Judgment: An empirical investigation into the implicit philosophical orientation of practicing instructional designers. American Educational Research Association (AERA): Washington, D.C., April 8-12, 2016.
- Boling, E., Brown, O., Alangari, H., Demiral-Uzan, M., Faulkner, R., Hajdu, I., Khlaif, Z., Kizilbogda, R., Tomita, K., Guo, M., Bae, H., Gyabak, K., Lacheb, A., Zhu, M. & Techawitthayachinda, R. (2016). Phenomenological interviewing: A roundtable discussion of the challenges identifying implicit philosophies of instructional designers. 16th Annual IST Conference, Bloomington, IN: March 4, 2016.
- Gray, C. M. & Boling, E. (2016). Designers' articulation and activation of instrumental judgments in cross-cultural user research. Design Thinking Research Symposium 11, Copenhagen, Denmark. November 13-15, 2016.
- Boling, E. & Gray, C.M. (2015). Students' lived knowledge applied to learning visual methods in design. International Visual Literacy Association (IVLA), San Francisco, CA: November 2-3, 2015.
- Boling, E. & Gray C. M. Who are these novices? Challenging the deficit view of design students. American Educational Research Association (AERA), Chicago, IL: April 16, 2015.
- Boling, E., Gray, C. M. & Smith, K. M. Studio teaching in the low-precedent context of instructional design: LEARNxDESIGN, 3rd International Conference for Design Education Researchers and PreK-16 Design Educators, Chicago, IL: June 28-30, 2015

- Boling, E. & Gray, C. (2014). Design in the “real world”: Situating academic conceptions of ID practice. Association for Educational Communications and Technology (AECT). Jacksonville, Florida. November 3-8, 2014.
- Boling, E., Gray, C. & Demiral-Uzan, M. (2014). Stop telling designers what to do: Reframing instructional design education through the lens of ID practice. Association for Educational Communications and Technology (AECT). Jacksonville, Florida. November 3-8, 2014.
- Boling, E., Gray C.M. & Tan, Verily. (2014). Instructional design in action: Observing the judgments of ID practitioners. American Educational Research Association (AERA). Philadelphia, Pennsylvania; April 2014.
- Boling, E. (2013). Follow me - I’m lost! Teaching in the studio – You are not a “guide on the side.” Roundtable presentation, Association for Educational Communications and Technology (AECT), Anaheim, CA; November, 2013.
- Boling, E., Altuwajri, A., Modell, M., Jung, J. & Howard, C. (2013). Images for instruction: The concerns of designers and the focus of learners. American Educational Research Association (AERA). San Francisco, CA.; April, 2013.
- Boling, E., Easterling, W., Hardre, P., Howard, C., Modell, M. & Roman, T. (2013). Design character: What do we think it is? American Educational Research Association (AERA). San Francisco, CA.; April, 2013.
- Korkmaz, N., Exter, M. & Boling, E. (2013). The development of design character: An exploratory study of the experiences of instructional design professionals. American Educational Research Association (AERA). San Francisco, CA.; April, 2013.
- Boling, E., Smith, K.M., Siegel, M. & Parrish, P. (2013). Student goes on a journey; Stranger rides into to the classroom: Narratives and the instructor in the design studio. Design Research Society//cumulus Conference; Oslo, Norway, May 2013.
- Boling, E., Altuwajri, A., Jung, J., Gray, C., Yildirim, C., Modell, M. & Howard, C. (2012). Learners’ strategies for interpreting instructional images. Association of Educational Communications and Technology (AECT), Louisville, KY.; November, 2012.
- Boling, E. & Smith, K.M. (2012). Evolution of a studio class: Backing Into a traditional design. Association of Educational Communications and Technology (AECT), Louisville, KY.; November, 2012.
- Boling, E. & Howard, C. (2011). Disseminating design knowledge: Issues in developing the design case. Association of Educational Communications and Technology (AECT), Jacksonville, FL.
- Boling, E., Easterling W.V., Hardre P.L., Howard, C.D. & Roman T.A.(2011). ADDIE (Analysis, Design, Development, Implementation, and Evaluation): Perspectives in transition. Paper presented at the annual meeting of the American Educational Research Association (AERA). New Orleans, LA.; April, 2011.
- Jung, J., Gray, C., Howard, C.D., Modell, M.G, Yildirim, C. & Boling, E. (2011). Preparation of visual materials to study how EFL learners use images in the learning process. Association of Educational Communications and Technology (AECT), Jacksonville, FL.
- Yamagata-Lynch, L. & Boling, E. (2011). Exploring missing conversations in instructional technology about theory, research, methods, and practice. Association of Educational Communications and Technology (AECT), Jacksonville, FL.
- Boling, E., Hardre, P., Easterling, W., Korkmaz, N. and Howard, C. (2010). How do we perceive design character in educational technology? Association for Educational Communications and Technology, Anaheim, CA; October, 2010.
- Boling, E. and Smith, K. (2010). Intensive studio experience in a non-studio masters program: Student activities and thinking across levels of design. Design Research Society Conference. Montreal, CA: July 6-9.
- Boling, E. and Smith, K. (2010) Design education in the studio: Iterations in the work of students studying instructional graphics design. American Educational Research Association, Denver, Colorado.
- Boling, E., Smith, K.M., Easterling, W., Korkmaz, N., Hardre, P. Roman, T. and Sheu, F.R. (2010). Design education and design character: Perceptions and values among practitioners and instructors in the field of educational technology. American Educational Research Association, Denver, Colorado.
- Eastlering, W., Boling, E. and Hardre, P. (2010). Dialogic data generation via a restricted-access anonymous discussion forum. American Educational Research Association, Denver, Colorado.

- Korkmaz, N. and Boling, E. (2010). Judgment in Instructional Design: Toward an Understanding of What It Really Takes to Design. American Educational Research Association, Denver, Colorado.
- Boling, E. and Smith, K. M. (2009). Design knowledge represented as a design case: A worked example. Association for Educational Communications and Technology, St. Louis, Missouri.
- Korkmaz, N. and Boling, E. (2009). Use of critique in an instructional design course: perceived value and impact on students' design thinking. Association for Educational Communications and Technology, St. Louis, Missouri.
- Harlin, N., Exter, M. and Boling, E. (2009). Software designers' use of precedent. Association for Educational Communications and Technology, St. Louis, Missouri.
- Boling, E. (2009). How are designers taught to do what they do? Multiple approaches to masters level design education. Structured poster session organized by Elizabeth Boling. American Educational Research Association, San Diego, California.
- Boling, E. and Smith, K. M. (2009). Trustworthiness in design cases published as research. Poster. American Educational Research Association, San Diego, California.
- Boling, E. and Smith, K.M. (2009). Design tensions: Adapting a signature pedagogy into instructional design education. American Educational Research Association, San Diego, California.
- Boling, E., Smith, K.M., Korkmaz, N., Harlin, N., Exter, M., Roman, T., Easterling, W., Howard, C., and Sheu, F.R. (2009). Developing an anonymous online forum for generating In-depth data on complex topics. Round table presentation at the 9th annual IST Conference, February 29, 2009, Bloomington, Indiana.
- Boling, E. (2008). "Design is Not Systematic: Alternative Perspectives on Design -- Designer as human instrument" -- panel session organized by David Jonassen. Association for Educational Communications and Technology. Orlando, FL: October, 2008.
- Boling, E. and Yamagata-Lynch, L. (2008). Activity Systems Analysis as a tool for instructional design. Association for Educational Communications and Technology. Orlando, FL: October, 2008.
- Boling, E. and Smith, K.M. (2008). Exploring standards of rigour for design cases. Paper presented at the Design Research Society 2008 Conference, Sheffield, England, July 16-19.
- Korkmaz, N., Exter, M., and Boling, E. (2008). Students' perceptions of peer critique in a blended instructional design course. Round table presentation at the 10th annual IST Conference, February 29, 2008, Bloomington, Indiana.
- Boling, E. and Smith, K.M. (2008). Toward a model for examining rigor in design cases. Round table presentation at the 9th annual IST Conference, February 29, 2008, Bloomington, Indiana.
- Korkmaz, N., Exter, M., and Boling, E. (2008). Students' perceptions of peer critique in a blended instructional design course. Round table presentation at the annual meeting of the American Educational Research Association, New York, NY.
- Gibbons, A., Boling, E. and Schwier, R. (2008). Alternative perspectives for the training of instructional designers. Panel presented at the annual meeting of the American Educational Research Association, New York, NY.
- Boling, E., Smith, K., Frick, T. and Eccarius, M. (2007). Graphical devices in instructional illustrations: Designers' intentions and viewers' interpretations. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Eccarius, M. and Boling, E. (2007). Teaching with pictures: Do you see what I mean? Association of College Educators-Deaf/Hard of Hearing. Pittsburgh, PA: February, 2007. [research collaborator only: not present]
- Boling, E. (2006). Summer Studio: Experiencing design culture and habits within an ID graduate program. Round table. Association for Educational Communications and Technology. Dallas, TX: October, 2006.
- Boling, E., Smith, K., Eccarius, M. and Rowe, D. (2005). Illustrations in textbooks and the classroom: Textbook content and teacher's perspectives." Association for Educational Communications and Technology. Orlando, FL: October, 2005.
- Gibbons, A., Wager, W., Schwier, R., Boling, E., and Spector, M. (2005). Building the culture of instructional design: Reflection on IDT futures. Association for Educational Communications and Technology. Orlando, FL: October, 2005.

- Rowe, D., Smith, K. and Boling, E. (2005). In defense of picture books: Design artifacts as sources of knowledge for instructional designers. Association for Educational Communications and Technology. Orlando, FL: October, 2005.
- Smith, K., Rowe, D. and Boling, E. (2005). Images and instruction: How do learners interpret what they see? International Visual Literacy Association. Orlando, Florida: October, 2005.
- Boling, E. and Smith, K. (2004). Formative evaluation of visual instructions for individuals with intellectual disabilities: A descriptive case." Association for Educational Communications and Technology. Chicago, Illinois October 19-23, 2004.
- Boling, E. and Smith, K. (2004). Non-professional sign-makers and the praxis of representing information. IST Conference. Bloomington, Indiana: April 4, 2004.
- Paulus, T., Shi, M., Yildiz, S. & Boling, E. (2003). Effectiveness of a web-based learning experience in the context of a graduate instructional design course. Association for Educational Communications and Technology (AECT), Anaheim, California.
- Boling, E., Smith, K., Frick, T. & Sheu, F. (2003). "Visual representations to support learning: Effectiveness of graphical elements used to extend the meaning of instructional illustrations." Association for Educational Communications and Technology Convention (AECT), Anaheim, CA.
- Boling, E., Eccarius, E., Frick, T., Sheu, F., del Valle, R. & DeFazio, J. (2002). "Perceived meanings relative to intended meanings of common graphical elements in instructional illustrations." IST Conference, Bloomington, Indiana.
- Boling, E., Frick, T., Sheu, F., del Valle, R., and Huang, J. (2002). "Perceived meanings relative to intended meanings of common graphical elements in instructional illustrations." Association of Educational Communications and Technology Convention (AECT), Dallas, Texas.
- Frick, T., Boling, E., Kim, K.-J., Oswald, D., Sugar, W., Zazelenchuk, T. (2001). "Software Developers' Attitudes toward User-Centered Design." Association of Educational Communications and Technology Convention (AECT), Atlanta, Georgia.
- Brown, J.P., Boling, E. (2001). "Information Design Support for Knowledge Bases." Association for Educational Communications and Technology Convention(AECT); Atlanta, Georgia.
- Boling, E. & Schumacher, S. (2001). "The Web is not a second-class environment: Redesigning a face-to-face graduate course to an equivalent Web-based course." Association for Educational Communications and Technology Convention (AECT); Atlanta, Georgia.
- Frick, T. W., Boling, E., Kim, K.-J., Oswald, D., Sugar, W., & Zazelenchuk, T. W. (2001). "Software developers' attitudes toward user-centered design." Association for Educational Communications and Technology (AECT); Atlanta, GA.
- Misanchuk, E. R., Schwier, R. A., and Boling, E. (1999). "Visual design for instructional multimedia." ED-MEDIA World Conference on Educational Multimedia, Hypermedia and Telecommunications, Seattle, Washington.
- Misanchuk, E. R., Schwier, R. A., and Boling, E. (1999). "Challenges in the design of a hypertext book in HTML: Lessons learned." ED-MEDIA World Conference on Educational Multimedia, Hypermedia & Telecommunication. Seattle, Washington.
- Schwier, R., Misanchuk, E. & Boling, E. (1999). "Designing and illustrated hypertext book using HTML: Lessons, small victories, bruises and scar tissue." Association of Educational Communications and Technology Convention (AECT), Houston, Texas.
- Boling, E., Schaumburg, H., Askun, G. & Frick T. (1999). "Navigating backward: Concrete vs. abstract representation in hypertext buttons." Association of Educational Communications and Technology Convention (AECT), Houston, Texas.
- Boling, E. & Bichelmeyer, B. (1998). "Filling the gap: Rapid prototyping as visualization in the ISD process." Association of Educational Communications and Technology Convention (AECT), St. Louis, Missouri.
- Boling, E. & Masood, M. (1998). "Usability testing for a WWW site: A real world case." Association of Educational Communications and Technology Convention (AECT), St. Louis, Missouri.
- Boling, E. & Brown, J.P. (1998). "Visual design for interactive learning tools: Representation of time-based information." Association of Educational Communications and Technology Convention (AECT), St. Louis, Missouri.

- Boling, E. & Bichelmeyer, B. (1997). "Visual design profiles: Making sense of Web design guidelines." Barbara Bichelmeyer, Association for Media and Technology in Education in Canada (AMTEC) Conference, Saskatoon, Saskatchewan.
- Boling, E., Kirkley, S. & Squire, K. (1997). "Web site design profiles: Guidelines that make sense for you." Association of Educational Communications and Technology Convention (AECT), Albuquerque, New Mexico.
- Appelman, B. & Boling, E. (1997). "Matrix of multimedia skills." Association of Educational Communications and Technology Convention (AECT), Albuquerque, New Mexico.
- Boling, E., Hawley, C., Michael, N. & Schwartz, N. (1997). "Creating professional quality work in a graduate course" with Chandra Hawley, Nancy Michael, and Nancy Schwartz, Association of Educational Communications and Technology Convention (AECT), Albuquerque, New Mexico, 1997.
- Boling, E. & Kirkley, S. (1996). "Metaphors in multimedia design: Beyond the desktop." Association of Educational Communications and Technology Convention (AECT), Indianapolis, Indiana.
- Lee, S. H. & Boling, E. (1996). "Motivational design guidelines for computer-mediated instruction." Association of Educational Communications and Technology Convention (AECT), Indianapolis, Indiana.
- Kirkley, S. & Boling, E. (1996). "How to design and develop a World Wide Web site." Association of Educational Communications and Technology Convention (AECT), Indianapolis, Indiana.
- Boling, E., Corry, M., Betrus, T. & Winer, D. (1996). "Syntactic relationships and perceptibility in navigational icons." Association of Educational Communications and Technology Convention (AECT), Indianapolis, Indiana.
- Boling, E. & Sugar, W. (1995). "A model for early usability testing." Association of Educational Communications and Technology Convention (AECT), Anaheim, California.
- Boling, E. & Kirkley, S. (1995). "Design guidelines for multimedia icons." Association of Educational Communications and Technology Convention (AECT), Anaheim, California.
- Nedzel, K. & Boling, E. (1995). "Function and form: reducing ambiguity in on-screen navigation buttons." Association of Educational Communications and Technology Convention (AECT), Anaheim, California.
- Boling, E., Nedzel, K., Anelli, J. & Bray, M. (1995). "Research-based design principles for on-screen buttons." Association of Educational Communications and Technology Convention (AECT), Anaheim, California.
- "Creating a world wide web server" full-day workshop with Sonny Kirkley, Association for Applied Interactive Multimedia Conference (AAIM) Conference, Raleigh, North Carolina, 1995.
- Kirkley, S. & Boling, E. (1995). "Web site design issues and conventions workshop." Association for Applied Interactive Multimedia Conference (AAIM) Conference, Raleigh, North Carolina.
- Boling, E. & Kirkley, S. (1995). "Interaction design for multimedia instruction." Association for Applied Interactive Multimedia Conference (AAIM), Raleigh, North Carolina.
- Boling, E. (1995). "Usability testing for Web site development" half-day workshop. Hypermedia Conference, IUB, Bloomington, Indiana.
- Boling, E. & Kirkley, S. (1995). "Design issues for Web sites" half-day workshop. Hypermedia Conference, IUB, Bloomington, Indiana.
- Boling, E., Johnson, L. & Kirkley, S. (1994). "Effective Use of Icons in Hypermedia." HyperMedia Conference, Indianapolis, Indiana.
- Boling, E. & Appelman, B. (1993). "Student teams and professional software development processes: how it works." Association of Educational Communications and Technology Convention (AECT), Knoxville, Tennessee.

Invited presentations

"What are we trying to prove? Interrogating our knowledge claims in ID research." Professors of Instructional Design and Technology. Nashville, IN. June 7, 2018.

Designing for Human Learning in the Anthropocene, Panel organized by Jan Visser, Association for Educational Communications and Technology, (AECT), Las Vegas, NV. October, 2016.

Is it a science? is it an art? No ... it's design! COP of the DC Metro Chapter of the Association for Talent Development; July 2016.

Publication Venues for Practitioners in ID; with co-presenter Willhemina Savenye, Arizona State University; Quality Matters Instructional Designers Association. June, 2016.

Nurturing Civic-Minded Instructional Design and Technology Professionals: The Impact on IDT Research, Training and Practice, organized by Ana Paulo Corriera, Iowa State University; panel discussant. April, 2016.

Moment of Invention: What's Missing from Current Guidance for Instructional Design. Doctoral seminar presentation; Brigham Young University. March, 2015.

Design of Learning Experience: The 2014 AECT Research Symposium. Panel organized by Brad Hokanson. Association for Educational Communications and Technology (AECT). Jacksonville, Florida. November 3-8, 2014.

Examining a Multi-Institutional Virtual Service-Learning Collaboration. Panel organized by Jennifer Maddrell. Association for Educational Communications and Technology (AECT). Jacksonville, Florida. November 3-8, 2014.

PIDT Professor's Forum: Publishing and Grants in Early Career. Panel organized by Michael Specter. Association for Educational Communications and Technology (AECT). Jacksonville, Florida. November 3-8, 2014.

Boling, E. (2013). Design philosophy and epistemology: Their application to instructional design. ETAD Summer Workshop, University of Saskatchewan: Saskatoon, Saskatchewan; July 2013.

Boling, E. (2013). Teacher/designers—the language of design and its applicability to teaching. Teacher Education Division invited speaker. Association for Educational Communications & Technology, November 1, 2013.

Bishop, MJ, Boling, E., Gibbons, A., Hannafin, M., Larson, M. & Young, P. (2013). Past, present and future relevance of message design. Presidential Session, Association for Educational Communications & Technology, October 30, 2013.

Boling, E., Smith, K.M., Howard, C.D., & Gray, C. M. (2012). Prospective Authors' Workshop: Design cases and the International Journal of Designs for Learning. Association of Educational Communications and Technology (AECT), Louisville, KY. ; November, 2012; October 2013

Donaldson, A., Gibbons, A., Wiley, D., Boling, E. & Young, P. (2012). What is the future of our field? What should we be talking about that we are not? Panel organized by Graduate Student Organization. Association of Educational Communications and Technology (AECT), Louisville, KY.; November, 2012.

Hokanson, B., Gibbons, A., Boling, E., Cennamo, K., Korkmaz, N. & Ashbaugh, M. (2012). The 2012 AECT Research Symposium - Part 2: Educating the novice designer. Panel organized by Brad Hokanson. Association of Educational Communications and Technology (AECT), Louisville, KY.; November, 2012.

Tracey, M., Bishop, MJ, Boling, E., Koszalka, T. & Campbell, K. (2012). Women in IDT Leadership Series: The Road to Full Professor for Women in Academia. Association of Educational Communications and Technology (AECT), Louisville, KY.; November, 2012.

Beatty, B., Boling, E., Gibbons, A., Reeves, T. & Tracey, M. (2011). Design and research - Everyone is jumping on the bandwagon, but do we know where we are going? Association of Educational Communications and Technology (AECT), Jacksonville, FL.

Hokanson, B., Clinton, G., Boling, E., Martindale, T. Rieber, L., Kinzie, M. & Hardre, P. (2011). Comparing instructional design studio programs. Association of Educational Communications and Technology (AECT), Jacksonville, FL.; October, 2011.

Spector, M., Boling, E. & Gibbons, A. (2011). Current and future trends in the field of instructional design and technology. Association of Educational Communications and Technology (AECT), Jacksonville, FL.; October, 2011.

Spector, M., Osguthorpe, R., Gibbons, A., Boling, E., Yanchar, S., Schwier, R. & Campbell, K. (2011). Instructional design pathways and byways: An interactive panel led by the Instructional Technology & Futures Group. Association of Educational Communications and Technology (AECT), Jacksonville, FL.; October, 2011.

Boling, E., & Howard, C.D. (2011). IJDL: Creating and disseminating design knowledge. Webinar sponsored by AECT's Design and Development Division.

Boling, E. (2010). "The 'Present Link': What's Missing in the Process-Centric View of Instructional Design." College of Education's Department of Educational Technology, Research and Assessment and the Graduate School of Northern Illinois University, November, 2010.

Boling, E. (2010). "The Human Instrument – Why Design Thinking is Not Enough." College of Education's Department of Educational Technology, Research and Assessment and the Graduate School of Northern Illinois University, November, 2010.

"Designing for People." Presentation delivered at Shanghai International Studies University with attendance from East China Normal University, Shanghai, PRC, May, 2010 and at Nanjing Normal University with attendance from Nanjing University, Nanjing, PRC, May 2010.

"Professional Portfolio Development." Informatics HCI Program, Indiana University, 2006—2010.

"Design tensions in a studio course." Presidential session with Kennon M. Smith: International Visual Literacy Association, Chicago, Illinois, October, 2009.

"Distributed knowledge in fields of design: What form(s) does it take?—presentation at the 2nd annual IST Summer Colloquium: Bloomington, Indiana, July 2009.

"Science plus: The future of ISD as design practice and research"—presentation at the IST Summer Colloquium: Bloomington, Indiana, June, 2008.

"The professional portfolio:--presentation to the HCID Informatics student professional organization: fall 2007, 2008, 2009

"The role of creativity in the learning experience of instructional design and development graduate students." – panel session organized by Gregory Clinton, Brad Hokanson and Patrick Parrish. Association for Educational Communications and Technology. Dallas, Texas, October, 2006.

"Future directions in design/development teaching for ISD." – presidential panel session with Foshay, R., Wagner, E. and Boling, E. (2006). Association for Educational Communications and Technology. Dallas, Texas, October, 2006.

"Critical Issues in Instructional Design," invited participant in doctoral seminar summary session for Walden University. Dr. Abbie Brown, instructor. July 14, 2005.

"The semiotic perspective; Intention and interpretation." – keynote presentation. 5th Annual Conference on Education Research; "Visuals in Digital" Session: Education Research Institute, Seoul National University, October, 2004.

"Learning to design: Contributions from different perspectives." – panel presentation with Gibbons, A., Boling, E. and Foshay, R. (2004). Association for Educational Communications and Technology. Chicago, Illinois, October, 2004.

"Where are we going and how will we get there?" – panel presentation of papers with Bichelmeyer, B., Hill, J., Grabowski, B., Schwier, R., Spector, M. and Wager, W. Association for Educational Communications and Technology (AECT). Chicago, Illinois, October, 2004.

"Visual design for web-based health and safety information," invited lecture for SPEA MS course in communications, Dr. Diane Henschel, instructor, March, 2004.

"The future of design in instructional design: Lessons from other design disciplines and innovations in our own." - panel presentation co-chaired with Andrew Gibbons, BYU. Association for Educational Communications and Technology (AECT), Anaheim, California, October, 2003.

"Overview of IST DM Program," Taraz State University Project, Bloomington, IN, April 8, 2003.

Videoconferencing class session with Instructional Technology program, Northern State University, Aberdeen, South Dakota, 2002.

"Designing to Educate," invited lecture for R510 Multimedia in Ethnomusicology, Dr. Charles Sykes, instructor; 2002.

"Images in the Indiana University Knowledge Base" – workshop for KB editors at UITS; April 18, 2001.

Guest speaker online: EDG1951 Cognition and Interface Design, University of Wollongong, Australia; Bronwyn Stuckey, instructor; May 14, 2001.

"Visual Design and the Reader" – half-day presentation to editors and designers at Macmillan Publishing, Indianapolis, Indiana, July 27, 2001.

- "Technology and Visual Designers: How Must We Respond to the Changes?" - keynote speaker at Design and Technology Conference, YuanZe University, Taiwan, October 12, 2001.
- "Defining Visual Literacy" – invited panel speaker, International Visual Literacy Conference, Ames, Iowa, October, 2000.
- "Graduate Level Web-based Instruction," invited panel presentation to the faculty, St. Meinrad Abbey Seminary, Meinrad, Indiana, December, 2000.
- "What is interface design?" Guest Lecture, H468 Contemporary Issues in Environmental Design, C. Thomas Mitchell, Instructor, Interior Design, Indiana University, 1999.
- "WorldBoard: What comes after the WWW?" with Sonny Kirkley and Marty Siegel, Indiana Computer Educators (ICE) Conference, 1998.
- "Explore user-centered design for Web-based information systems" and "Experience user-centered design: Planning and conducting a usability test." CAUSE 97 Annual Meeting, Orlando, Florida, 1997.
- "The WorldBoard Project" with Marty Siegel and Sonny Kirkley, Indiana University Virtual Reality Workshop, Bloomington, Indiana, 1997.
- "Profiles in using the Web for college courses." Keynote presentation for Web Week Faculty Development Conference, University of Louisville, Louisville, Kentucky, 1997.
- "Information providers in the knowledge system: Key competencies and knowledge capture models." China America Conference on Training and Educational Technology, University of Astronautics and Aeronautics, Beijing, China, 1996.
- "Multimedia product development" LG Academy, Seoul, Korea, 1995.
- "Issues in multimedia for language learning" Chonnam National University, Kwang-ju, Korea, English Language Research Center, Summer, 1995.
- "Designing a fine arts computing lab" Webster College, Fine Arts Department, St. Louis, Missouri, 1995.
- "Introduction to usability" Indiana University, Information Center Managers, University Computing Services, Bloomington, Indiana, 1994.
- "Technology and the Human Interest" with Thom Gillespie and Joel Miller, 4th Annual Multivisions Conference, Indiana University, 1994.
- "Usability Overview" with Theodore Frick, Indiana Business Modernization and Technology Corporation, Indianapolis, Indiana, 1994.
- "Organizational issues in implementing usability" with Andrew Dillon, InForum Professional Development Series, University Computing Services/SLIS, Indiana University, Bloomington, Indiana, 1994.
- "World-Wide Web Design Guidelines" Partners in Computing Series, University Computing Services, Indiana University, Bloomington, Indiana, 1994.
- "Multimedia and Education" Guest Lecture, R503 Application of Instructional Media and Technology, Michael Molenda, Instructor, IST, Indiana University, Bloomington, Indiana, 1994.
- "What's in it for them: Improving usability." Interactive '93, Anaheim, California, 1993.
- "Virtual textbook concept and design" with Gerry Sousa and Marty Siegel, Virtual Textbook Conference, CEE, Indiana University, Bloomington, 1993.
- "Multimedia instructional product development" Lucky Goldstar Academy/IU Summer Institute, Indiana University, Bloomington, Indiana, 1993, 1994, 1995, 1996, 1997.
- "Multimedia Development; Teams and Tools" 1988 Interactive Multimedia Conference, Apple Computer, 1988.

Monograph

Gibbons, A. & Boling, E. (2021). *Conversational Forms of Instruction and Message Layer Design*. Springer.

Edited Books

- Boling, E., Gray, C.M., Howard, C. & Baaki, J. (2021) *Historical design cases: ID Knowledge in context and practice*. Routledge.
- Bishop, M.J., Elan, J., Boling, E. and Svilha, V. (2020). *Handbook of Research in Educational Communications and Technology*, 5th Ed.; Routledge.
- Boling, E., Schwier, R., Gray, C.M., Smith, K. & Campbell, K. (2016). *Studio teaching in higher education: Selected design cases*. New York, NY: Routledge

Textbooks

- Boling, E. (2010). *Design Sketching*. [TEACHING] Available from <http://www.lulu.com/product/paperback/design-sketching/12435067>.
- Misanchuk, E., Schwier, R. and Boling, E. (2000). *Visual design for instructional multimedia* (Rev). U-Learn, Saskatoon, Saskatchewan. (TEACHING) Available from <http://edxserveg5.usask.ca/rick/vdim/Start.HTM>

Web Publications

- Boling, E. (Ed.). *Design cultures*. (2003 – 2004). IDT Record. Collection of short papers describing design cultures outside instructional design and technology. (TEACHING)
http://www.indiana.edu/~idt/shortpapers/documents/design_cultures.html
- Boling, E. (2003). Learning sciences and instructional technology: Interview with Tom Duffy. IDT Record. (SERVICE)
Online: http://www.indiana.edu/~idt/interviews/documents/interview_duffy_2003.html
- Boling, E. (2001). Public Signage Created by Nonprofessional Designers. (RESEARCH)
<http://www.indiana.edu/%7Eiirg/iirgarticles/signage/signage.html>
- Boling, E. (2001). Technology and Visual Designers: How Must We Respond to the Changes? (TEACHING)
<http://www.indiana.edu/%7Eiirg/iirgarticles/keynote1/keynote1.html>
- Boling, E. (2000). Navigation. (TEACHING)
<http://www.indiana.edu/%7Eiirg/iirgarticles/NAVIGATION/navigationdoc.html>
- Boling, E. (1999). Visual Design Resources. (TEACHING)
http://www.indiana.edu/%7Eiirg/ARTICLES/VIZRES/resource_page.html
- Boling, E. (1999). Introduction to Interface Design. (TEACHING)
http://www.indiana.edu/%7Eiirg/ARTICLES/INTERFACE/interface_design.html
- Boling, E. (1999). Annotated References of Interest for Visual Thinking and Visual Skills for Instructional Design. (TEACHING)
<http://www.indiana.edu/%7Eiirg/REFERENCES/readings.html>
- Boling, E. & Bichelmeyer, B. (1998). Filling the Gap: Rapid Prototyping as Visualization in the ISD Process. (TEACHING)
<http://www.indiana.edu/%7Eiirg/ARTICLES/prototyping/gap.html>
- Boling, E. (1997). Profiles in Using the Web for College Courses. (SERVICE)
<http://www.indiana.edu/%7Eiirg/ARTICLES/UofL97/profiles.html>
- Boling, E., Bichelmeyer, B., Squire, K. & Kirkley, S. (1997). Visual Design Profiles: Making Sense of Web Design Guidelines (presentation) (TEACHING)
<http://www.indiana.edu/%7Eiirg/ARTICLES/UofL97/profiles.html>
- Boling, E., Squire, K. & Kirkley, S. (1997). Web Site Design Profiles: Guidelines that Make Sense for You (TEACHING)

<http://www.indiana.edu/%7Eiirg/ARTICLES/UofL97/profiles.html>

Boling, E. & King, K. (1996). Components of Perceptibility in Symbol/Signs (RESEARCH)

<http://www.indiana.edu/%7Eiirg/ARTICLES/percep/percep.html>

Boling, E. (1995). Selected Bibliography of Empirical Research and Theory Related to Symbol/Signs for Human-Computer Interaction. (RESEARCH)

<http://www.indiana.edu/%7Eiirg/REFERENCES/iconbib.html>

Boling, E. & Kirkley, S. (1995). Guidelines for Interface Design: A comparison of multimedia products. (TEACHING)

<http://www.indiana.edu/%7Eiirg/ARTICLES/multimedia/vsmm.html>

Boling, E. (1995). Hypermedia '95 Workshop on Usability Testing for Web Site Development. (SERVICE)

<http://www.indiana.edu/%7Eiirg/ARTICLES/usability/usability.main.html>

Boling, E. & Kirkley, S. (1995). Interaction Design for Multimedia Software. (RESEARCH)

http://www.indiana.edu/%7Eiirg/ARTICLES/multimedia/interactionDesign_MM.html

King, K., Boling, E., Anelli, J., Bray, M., Cardenas, D. & Frick, T. (1995). Mixed Modality and Single Modality Icons. (RESEARCH)

<http://www.indiana.edu/%7Eiirg/RESEARCH/modality.html>

Dissertations directed

2022	Lauren Easterling	<i>Collaborative faculty development activities in higher education institutions – An activity system analysis</i>
2022	Amaury de Sequeira	<i>Measurement of factors influencing faculty intention to use course shell templates to support design and development of online courses.</i>
2022	Parama Chaudry	<i>A study of secondary online teaching experience during the Covid-19 pandemic</i>
2021	Corke, Sarah	<i>Differences in instructional methods used by collegiate stem instructors: A comparison of education background versus course designs featuring active teaching methods</i>
2021	Alsaif, Manal	<i>Exploring Knowledge Construction Phases and Facilitating Factors in an Online Community</i>
2021	Olmstead, Amy	<i>Instructional Designers' Identity and Perceptions</i>
2020	McCaster, Antonette	<i>Communicating the Language of Business to Non-business Majors</i>
2020	Lachheb, Ahmed	<i>Design Failure in Instructional Design Practice: Practitioners' Perspective</i>
2018	Gyabak-Kamka, Khendum	<i>Making do: Designerly thinking and action among experienced teachers in under-resourced schools in Bhutan</i>

2018	Roman, Tiffany	<i>Design education at the secondary level in the US: Instructional practices and perspectives of secondary design teachers</i>
2017	Demiral-Uzan, Muruvvet	<i>The Development of design judgment in instructional design students during a semester in their graduate program</i>
2017	Ergulec, Funda, Ph.D.	<i>Instructional strategies and student collaboration in a higher education course</i>
2017	Jamerson, Sally, Ed.D.	<i>Use of data in School of Education program reviews</i>
2017	Fathy, Randa, Ph.D.	<i>Perceptions of mentoring in recently tenured higher education faculty</i>
2017	Tomita, Kei, Ph.D.	<i>Visual design as a holistic experience: How students engage with instructional materials of various visual designs</i>
2017	Verily Tan, Ph.D.	<i>Design framing among youth in a K12 maker space</i>
2016	Altuwaijri, Abdullah	<i>Investigating cultural aspects of online instruction for adult learners in two Saudi online learning programs: An instructional design focus</i>
2016	Seth-Aaron Martinez, Ph.D.	<i>From Novice to Expert: The Development of a Servant Leader</i>
2015	Micah Modell, Ph.D.	<i>Distinguishing between healthy and dysfunctional student project teams: An elusive instructor challenge</i>
2014	Colin M. Gray, Ph.D.	<i>Living in two worlds: A critical ethnography of academic and proto-professional interactions in a human-computer interaction design studio</i>
2012	Stephen Smith, Ph.D.	<i>Exploring learners' perceptions toward continuing with advanced foreign language classes: perspectives from a U.S. community college</i>
2011	Exter, Marisa, Ph.D.	<i>The educational experiences of software designers working on educational software</i>
2011	Sheu, Feng Ru, Ph.D.	<i>Understanding expertise from elite badminton coaches [co-chair Cary Buzzelli]</i>
2008	Joseph Michael Defazio, Ph.D.	<i>Designing with precedent: a cross-disciplinary inquiry Into the design process</i>
2008	Dominique Galloway, Ph.D.	<i>Identifying metrics for training and professional development activities within a sales organization through action research</i>
2008	Kennon M. Smith, Ph.D.	<i>Meanings of "design" in instructional technology: A conceptual analysis based on the field's foundational literature.</i>
2006	Elmer Shelby, Ed.D.	<i>Investigating faculty internet use in the association of theological schools</i>
2006	Vally Behjou, Ph.D.	<i>In search of theory bases for older adult learning: Recourse to literature</i>

2005	Christine B. Johnson, Ed.D.	<i>Pedagogical patterns in required masters level instructional design courses with reference to the IBSTPI competencies</i>
2005	David M. Williamson, Ed.D	<i>Analysis of web accessibility for postsecondary institutional websites based on the Web Accessibility Initiative of the World Wide Web Consortium and Section 508 of the Rehabilitation Act Amendments of 1998</i>
2002	Joel Philip Brown Jr., Ph.D.	<i>Evaluating a technical support knowledge base: A case study in strategy, methods and organizational change</i>
2001	Byeong-Min Yu, Ph.D.	<i>The effect of interaction between menu design and information structure on the information searching performance and attitude on the World Wide Web</i>
2000	Jiunde Lee, Ph.D.	<i>The effects of information conveying approaches and cognitive styles on learners' structural knowledge and perceived disorientation in a hypermedia environment</i>
2000	Yu-chen Hsu, Ph.D.	<i>The effects of varying levels of interface cues derived from metaphors on computer users' information search performance</i>

Professional service

SIG Design and Technology, AERA, Early Career Mentoring Program, April 16-May 1, 2017.

Founding Editor: *International Journal of Designs for Learning*; a publication of the Association for Educational Communications and Technology: from launch September 2010 to present.

Design and Development Division Board Representative, Association for Educational Communications and Technology, 2008, 2009, 2010.

Chair, SIG Design and Technology, American Educational Researchers Association (AERA), 2008, 2009, 2010.

Secretary/Treasurer of SIG Design and Technology, American Educational Researchers Association (AERA), 2006, 2007.

Consulting Editor, Development Section, *Educational Technology Research and Development*, 2004 – present.

Editorial Board, Development Section, *Educational Technology Research and Development*, 2011 – 2013.

Consulting Editor, *International Journal for Educational Media and Technology*, 2006 - present.

Consulting editor, *Journal of Educational Computing Research*, 2008.

Editor, IDT Record, online discussion and publication vehicle for IDT Futures Group, <http://www.indiana.edu/~idt/>, 2004 – 2008.

Feature editor: ID Portfolio in *TechTrends*, 2004 – 2010

Editor-in-Chief, *TechTrends*, Association for Educational Communications and Technology, 2003 - 2006.

Co-chair, IDT Futures Group discussions on major issues in the field: 2002, Brigham Young University, Provo Utah; 2004, Penn State University, State College, Pennsylvania; 2005, Florida State University, Tallahassee, Florida; 2010, Brigham Young University, Provo, Utah.

President, Design and Development Division of AECT, 2004, 2005

Vice-President and Program Chair, Design and Development Division of AECT, 2003, 2004.

Communication Vice-President, Development and Design Division of AECT, 2002, 2003.

IUB Knowledge Base Usability Testing 1998-99 (consultant)

Indiana Career and Post-Secondary Advancement Center 1997 (consultant)
Kwangju School District US Visit (coordinator) 1995, 1996
"Technology in the Classroom," School of Education Annual Education Conference, "Education for the 21st Century,"
Bloomington IN, 1993
User Interface Strategies Conference '93, University of Maryland (teleconference coordinator for Bloomington) 1993

Reviews

Research and design reviews

Design Research Society conference proposals, 2019 - present
CHI research proposals, 2009, 2010
AECT proposals (Design & Development Division), 2002 – present
AERA proposals (Design and Technology SIG), 2001 – 2004, 2006 – present;(Instructional Design SIG)
2008—present
AECT Design & Development Book Awards, 2015 – 2020
Young Researcher Award, Research & Theory Division, AECT, 2004—2008; 2017
International Student Media Festival 2004 - 2007
Design Portfolio Competition, CHI 2002 (Computer Human Interface SIG of the ACM, Association for
Computing Machinery).
Indiana Career and Post-secondary Advancement Center 1997
1995 Hypermedia Conference proposals 1995
Longman Publishers 1995; Addison-Wesley Longman 1996, 1998; Pearson Educational Publishing 2002;
Prentice Hall 2004
Hypermedia 1993; *IEEE Transactions on Systems, Man and Cybernetics* 2003

Promotion and tenure external reviews

Promotion and tenure, University of Nebraska Lincoln, 2019
Promotion dossier, Purdue University, 2017
Promotion dossier, University of Missouri, 2014
Promotion dossier, Syracuse University, 2013
Promotion and tenure, Texas Tech University, 2013
Promotion, Clinical; University of Colorado, 2012 & 2013
Promotion, Clinical, University of Georgia, 2010
Promotion, University of Minnesota, 2009
Promotion and Tenure (presenter), Curriculum & Instruction, Indiana University, 2009
Promotion and Tenure, Northern Illinois University and Boise State University, 2009
Promotion and tenure, New Mexico State University, 2008
Promotion and tenure, Northern Illinois University, 2007
Promotion and tenure, The George Washington University, 2005
Promotion dossier, Syracuse University, 2003
Westinghouse Endowed Professorship in Instructional Technology, University of South Carolina, Aikens,
2001

University service

Facilities Task Force, 2018-2019

Committee on Reorganizations, Eliminations and Mergers, co-chair, 2017-2019.

Faculty Misconduct Committee, Indiana University Bloomington, 2017-2020.

Core Campus Structure Committee: Provost, Indiana University, 2016

Search committee: Dean, School of Education, Indiana University. 2015

Strategic Planning Committee, Design Team (2013)

Campus Task Force for e-Learning 2009-2010

Bloomington Faculty Council 2009-2011

Bloomington delegate to University Faculty Council 2008-2010

Bloomington Faculty Council Committee for International Graduate Student Recruitment 2006, 2007

Bloomington Faculty Council Student Affairs Committee 2006-2007

Bloomington Faculty Council Distributed Education Committee 2003 – 2006; 2008--present

3rd Year Review Committee, Eli Blevis, School of Informatics, 2005

Search Committee: Director, Informatics HCI Program, 2005

Informatics HCI Minor Steering Committee 2002 - 2005

Student Hearing Commission 1998-present

Indiana University Web Site Redesign Team 2002

Center for Excellence in Education (Center Associate) 1997-2000

Academic Computing Policy Committee 1995, 1996

Student Technology Funds Subcommittee 1995, 1996

IUB WWW Presentation Standards and Guidelines Team 1995

Institute for the Study of Developmental Disabilities (multimedia consultant) 1995

Classroom Instructional Technology Committee 1993, 1994, 1995, 1996

Classroom Support Implementation Plan Subcommittee (chair)

University Computing Services (consultant) 1994, 1995, 1996

Center for Excellence in Education R&D Lab Hiring Committee 1996

Faculty Advisory Committee to the Multi-Campus Technology Blue Team for Prototype Classroom Development 1992, 1993

School of Education

Promotion and Tenure Committee 2019-2021; chair 2020 - 2021

Faculty and Budgetary Affairs Committee; chair 2020-2021

Policy Council; Agenda Committee of the Policy Council 2019-2021

Search Committee, Instructional Consultant, SoE, chair, 2018.

Promotion and tenure, two chair's letters for Literacy, Culture and Language Education, 2018

Department P&T; Educational Leadership and Policy Studies & Counseling and Educational Psychology, 2018

Interim Executive Associate Dean, 2017—2018.

Core Campus Restructuring Committee; 2016

Search committee: open rank tenure track, Adult Education, School of Education, IUB. 2015 – 2016.

Search committee: Director of Communications and Marketing, School of Education, IUB, 2015.

Associate Dean for Graduate Studies 2010--2016

Instructional Systems Technology department chair 1999—2010

Instructional Consulting Technology Coordinator Search Committee 2010

Distance Education Coordination 2009-2010

Technology Steering Committee 2010

Accreditation Leadership Team member 2008—2009

Proffitt Dissertation Award Review Committee 2006

School of Education International Programs Committee 2007

School of Education Grievance Committee (chair) 2003 – 2005; (chair) 2006 – 2008

Carnegie Initiative on the Doctorate; 2002 - 2003

3rd Year Review Committee, Margorie Manifold, Art Education, 2006

3rd Year Review Committee, Lara Lackey, 2003

Salary Request Review Committee; 2001 - 2003

Chair, Search and Screen Committee for Associate Director, Database Technology; 2002

Ad Hoc Committee to review performance of ETS; 2001

Member, Search and Screen Committee for Director of Distance Education; 2001

School of Education Executive Associate Dean and Associate Dean for Research Search Committee; fall 2001

Recruitment, Admissions & Financial Aid Committee (chair 2001-2002); 2000 - 2003

School of Education Distance Cabinet; 2000 - 2003

School of Education International Programs Committee 1998-1999

Art Education Faculty Search Committee fall 1997; fall 1999

School of Education Constituent Advocacy Committee (chair) fall 1995-1998

School of Education Photography Contest Selection Committee 1994-1998

Research, Development and Equipment Committee 1992, 1993, 1994

Policy Council (alternate member) 1993, 1994

School of Education Electronic Bulletin Board project (consultant) 1992, 1993

Ad Hoc Committee for policies governing enterprises using the School of Education facilities and/or name 1992

Library Information Kiosk (consultant) 1992

Departmental service

Faculty Search Committee member 2012

Chair, Graduate Curriculum Committee for IST, 2012 - present

Admissions Committee (chair 2001 – 2003; 2005); 2000 – 2007; 2009-2011; 2021-present

IST Academic Conference (faculty liaison) 2000 - 2011

IST Distance Programs Committee 2005 - 2010

IST Merit Review 1999 - 2007

IST Curriculum Committee (chair) 1996-2004

Portfolio Review Committee (co-chair) 1994-2000; 2004 - 2007

Students Improving Multimedia Skills (SIMMS) (faculty advisor) 1995-1999

Faculty recruitment 1996, 1997

Core Curriculum Development Committee 1992-1999; 2009-2010

R541 subcommittee (chair) 1992, 1993, 2010

Corporate Education Program 1993, 1994, 1995

IST Alumni Newsletter (co-advisor) 1993

Integrated Media Program Committee (chair) 1992

Equipment/Resources Committee 1992

Institute for Corporate Educators 1992