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PROFESSIONAL INTERESTS

Teaching areas: Instructional Design and Technology (instructional design, design and development research, media production), Educational Psychology (cognition, visual literacy, teaching models), Teacher Education (teacher decisions, action research, PBL).

Research interests: Design and development research, design studies, novice problem solving, mental models, visuals for cognitive development, teacher research/action research.

Professional development: online programs, faculty success, college teaching, teacher research.

PROFESSIONAL APPOINTMENTS

West Virginia University (August, 2012 – Present), Professor, IDT

West Virginia University (August, 2006 – Present), Program Coordinator, IDT

West Virginia University (August, 2005 – Present), Associate Professor of IDT

West Virginia University (August, 1999 – May, 2005), Assistant Professor of IDT

EDUCATIONAL BACKGROUND

Virginia Tech (June, 1995 - February, 1999), Blacksburg, Virginia

Degree: **Ph.D., Curriculum and Instruction - Instructional Systems Design**
Cognate: Family & Child Development
Dissertation: *Development of a Co-participatory and Reflexive Approach to Teaching and Learning Instructional Design*
Chair: Dr. Susan G. Magliaro

Virginia Tech (January, 1992 - May, 1995), Blacksburg, Virginia

Degree: **M. A., Curriculum and Instruction - Instructional Technology**
Exam: *Teaching Instructional Design as a Reflective Process*
Advisor: Dr. Thomas Sherman

Virginia Tech (September, 1984 - May, 1991), Blacksburg, Virginia

Degree: **B. S., Management Science**
Concentration: Decision Support Systems
Project: *An Intelligent Teaching Assistant: A Systems Description*

SCHOLARLY ACTIVITY

Peer Reviewed and Invited Publications

- Shambaugh, N. (2013). A Professional Development School Technology Integration & Research Plan. In A. Ritzhaupt & S. Kumar (Eds.). *Cases on Educational Technology Implementation for Facilitating Learning*. Hershey, pp. 45-69. PA: IGI Global.
- Beacham, C., & Shambaugh, N. (2013). Use of frame reflection and metadesign to guide curriculum development across design disciplines. *International Journal of Design Education*, pp. xx-xx.
- Steel, S., Shambaugh, N., Combs, J., Farley, R., Hayes, S., Morewood, A., Morris, T., Poling, T., Taylor, S., Van Horn, L., Viglianco, R., & Yohe, S. (2012). The Benedum Collaborative: Features for simultaneous renewal. *School University Partnerships*, 5(2), pp. 13-18. (invited).
- Beacham, C., & Shambaugh, N. (2011). Contemporary uses of design thinking across society, work, and the individual. *Design Principles & Practices*, 5(5), 337-347.
- Steel, S., Morris, T., & Shambaugh, N. (2011). The Research Intensive PDS: How to sustain inquiry across PDS faculty, preservice teachers, and university faculty. *PDS Partners*, 7(2), 9-10. National Association for Professional Development Schools (invited).
- Shambaugh, N. (2011). Learning from public schools: Recommendations from 10 years as a university liaison. In J. Nath, I. Guadarrama, & J. Ramsey (Eds.). *Investigating university-school partnerships. Research in Professional Development Schools, Volume IV* (pp. 233-247). Charlotte, NC: Information Age Publishing.
- Shambaugh, N., Webb-Dempsey, J., Curtis, R., & Carpenter, R. (2010). Framing an action research study. In R. Pelton (Ed.). *Making classroom inquiry work: Techniques for effective action research*, pp. 233-248. Lanham, MD: R&L Education (invited).
- Curtis, R., Shambaugh, N., & Webb-Dempsey, J. (2010). Understanding your data. In R. Pelton (Ed.). *Action research for teacher candidates: Using classroom data to enhance instruction*, pp. 27-58. Lanham, MD: R&L Education (invited).
- Beacham, C., & Shambaugh, N. (2010). Translating design thinking for scientists. In *Psychology of Thinking*. Hauppauge, NY: NOVA Science Publishers.
- Shambaugh, N. (2009). Using activity theory to guide E-Learning initiatives. In B. Olaniran (Ed.). *Cases on successful E-Learning practices in the developed and developing world: Methods for the global information economy* (pp. 259-274). Hershey, PA: Information Science Reference.
- Shambaugh, N. (2009). A scenario-based instructional design model. In P. Rogers, G. Berg, J. Boettcher, C. Howard, Justice, & K. Schenk (Eds.). *Encyclopedia of Distance and Online Learning* (2nd ed), (pp. 1589-1595). Hershey, PA: IGI Global.
- Shambaugh, N. (2008). Future design: How novices solve impossible problems. *The Journal of Design Principles & Practices*, 2(3), 13-19.

- Beacham, C., & Shambaugh, N. (2008). Scenario strategy used in the teaching of two design courses. *The Journal of Design Principles & Practices*, 2(3), 21-28.
- Shambaugh, N. (2008). Personalized decision support systems. *Encyclopedia of Artificial Intelligence*. J. R. Rabuñal, J. Dorado & A Pazos (Eds.). Hershey, PA: IGI Global.
- Beacham, C. V., & Shambaugh, N. (2008). Advocacy as a teaching strategy. *International Journal of Teaching and Learning in Higher Education (IJTLHE)*, 19(3), 315-324.
- Shambaugh, N. (2008). The Ethical Dilemmas of Teacher Research As a Research Agenda. In S. E. Israel & C. A. Lassonde (Eds.) *The Ethical educator: Integrating ethics within the context of teaching and teacher research* (pp. 280-294). New York: Peter Lang Publishing.
- Shambaugh, R. N., & Webb-Dempsey, J. (2008). Chapter 3: Focusing the study: Framing a researchable question. In C. A. Lassonde & S. E. Israel (Eds.). *Teachers Taking Action: A Comprehensive Guide to Teacher Research* (pp. 29-43). International Reading Association.
- Shambaugh, N. (2007). Using developmental research to evaluate blended teaching in higher education. In *Global Issues in Higher Education* (P. Richards, Ed.) Chapter 1 (pp. 1-28). Nova Science Publishers.
- Webb-Dempsey, J., Dempsey, V., Steele, S., & Shambaugh, N. (2007). Simultaneous renewal in research: Principles to consider in research on partnerships. *School-University Partnerships*, 1, 38-44.
- Shambaugh, N. (2007). Personal portals. In A. Tatnall (Ed.) *Encyclopedia of Portal Technologies and Applications*, Hershey, PA: IGI Global.
- Magliaro, S. G., & Shambaugh, R. N. (2006). Student models of instructional design. *Educational Technology Research & Development*, 54(1), 79-102.
- McFall, B., Beacham, C., & Shambaugh, N. (2006). Personal Resource System Management: Coordinates for Learner-Centered Technology Development. *Educational technology: Special issue on educational systemic change*, 46(2), 39-42.
- Magliaro, S., & Shambaugh, N. (2005). Teachers' personal models of instructional design. In J. Brophy & S. Pinnegar (Eds.). *Learning from Research on Teaching: Perspective, Methodology, and Representation, Volume 11* (pp. 101-134). Advances in Research on Teaching Series. New York: Elsevier.
- Katayama, A., Shambaugh, N., & Edmonds, T. (2005). Promoting knowledge transfer in online notetaking. *Teaching of Psychology*, 32(2), 129-131.
- Shambaugh, N. (2005). A scenario-based instructional design model. In P. Rogers (Ed.). *Encyclopedia of Distance Learning Teaching, Technologies, and Applications (Volume I-III)*. Information Science Publishing: IDEA Group, Inc.
- Shambaugh, N. (2004). Using student-developed scenarios to couple design and reflection. *TechTrends: Linking Research and Practice to Improve Learning*, 48(3), 26-30.

- Shambaugh, R. N., & Magliaro, S. G. (2001). A reflexive model for teaching and learning instructional design. *Educational Technology Research & Development, 49*(2), 69-92.
- Shambaugh, R.N. (2000). What does it mean to be x-literate? Literacy definitions as tools for growth. *Reading Online, 4*(2). Available at:
http://www.readingonline.org/newliteracies/lit_index.asp?HREF=/newliteracies/shambaugh/index.html
- Shambaugh, R. N. (2000). Reframing doctoral programs: A program of human inquiry. *Innovative Higher Education, 24*(4), 295-308.
- Shambaugh, R. N. (1995). The cognitive potentials of visual constructions. *Journal of Visual Literacy, 15*(1), 7-24.

Books

- Shambaugh, N., & Magliaro, S. G. (2006). *Instructional design: A systematic approach for reflective practice*. Boston, MA: Allyn and Bacon. ISBN 0-205-38966-X
- Magliaro, S. G., & Shambaugh, N. (2006). *Instructor's guide to Instructional Design: A systematic approach for reflective practice*. Boston, MA: Allyn and Bacon. ISBN 0-205-548-481-6 and ISBN 0-205-484-808
- Shambaugh, R. N., & Magliaro, S. G. (1997). *Mastering the possibilities: A process approach to instructional design*. Boston, MA: Allyn and Bacon. ISBN 0-205-19795-7
- Magliaro, S. G., & Shambaugh, R. N. (1997). *Instructor's guide to mastering the possibilities: A process approach to instructional design*. Boston, MA: Allyn and Bacon. ISBN 0-205-26633-9

Monographs

- Shambaugh, N. (2006). A reflexive model for teaching and learning instructional design. In W. M. Matthews (Ed). *30 Years of AERA Distinguished Papers from the State and Regional Research Associations 1977-2006*, American Educational Research Association.
- McFall, B., Beacham, C., & Shambaugh, N. (2006). Personal Resource System Management: Coordinates for Learner-Centered Technology Development. In B. McFall (Ed.) *Qualities of living: A platform for practice*, 47-52. East Lansing, MI: Kappa Omicron Nu.

Peer Reviewed Proceedings

- Shambaugh, N., & Beacham, C. (2012) Visual identity systems for F2F and online courses. In M. D. Avgerinou, S. B. Chandler, & P. Search (Eds.). *New horizons in visual literacy: Selected Readings of the International Visual Literacy Association*, pp. 186-195.
- Beacham, C., & Shambaugh, N. (2010). *Translating design thinking for designers*. Interior Design Educators Council (IDEC), 2010 Annual Conference. Atlanta, GA.
- Shambaugh, N., & Beacham, C. V. (2010). Starting a dialogue on design thinking. In M. D. Avgerinou, R. E. Griffin & P. Search (Eds.). *Critically engaging the digital learner in visual*

worlds and virtual environments: Selected readings of the International Visual Literacy Association (pp. 199-204). Chicago, IL.

- Shambaugh, N. (2009). Using activity theory to guide E-Learning initiatives. In M. Simonson (Ed.). *2009 annual proceedings: Volume 1: Selected research and development papers* (pp. 408-413). Indianapolis, IN: Association for Educational Communications and Technology
- Beacham, C. V., & Shambaugh, N. (2009). Visualizing advocacy in two college courses. In R. E. Griffin & M. Avgerinou (Eds.). *Engaging creativity & critical thinking: The selected readings of the International Visual Literacy Association* (pp. 39-47). Blacksburg, VA.
- Palak, D., Chapman, P., & Shambaugh, R. N. (2004). A participant-oriented course evaluation of an educational leadership cohort model. *Proceedings of the 15th International SITE Conference*. Society for Information Technology & Teacher Education, Atlanta, GA.
- Shambaugh, N. (2004). Systematic Teacher Questioning: Reframing ID As Teacher Decision-Making. *27th Annual Proceedings – Anaheim: Selected Papers On the Practice of Educational Communications and Technology*, National Convention of the Association for Educational Communications and Technology (AECT), Research and Theory Division (pp. 591-599).
- Shambaugh, N. (2003). Use of CoWebs in scenario-based ID instruction. *26th Annual Proceedings – Anaheim: Selected Papers On the Practice of Educational Communications and Technology*, National Convention of the Association for Educational Communications and Technology (AECT), Research and Theory Division (pp. 400-407).
- Shambaugh, N., & Beacham, C. (2003). Personalized visual reflection of design processes: Student Representations in Instructional Design and Interior Design Courses. In R. E. Griffin, V. S. Williams, & J. Lee (Eds.) *Turning Trees: Selected Readings of the International Visual Literacy Association* (pp. 215-224). Breckenridge, CO.
- Shambaugh, N. (2002). A scenario strategy to promote design task reflection. *2002 Annual Proceedings – Dallas: Volume 2. Selected Papers On the Practice of Educational Communications and Technology*, National Convention of the Association for Educational Communications and Technology (AECT), Research and Theory Division (pp. 324-328).
- Shambaugh, N. (2002). Visual organizers for graduate student advising. In R. E. Griffin, J. Lee, & V. S. Williams (Eds.) *Visual Literacy in Message Design: 2002 Selected Readings of the International Visual Literacy Association* (pp. 179-182). Sweden.
- Shambaugh, N., & Magliaro, S. G. (2002). Using developmental research to study one's teaching of an instructional design course. C. Lamboy & M. Simonson, Eds. *Volume 2 Selected Papers On the Practice of Educational Communications and Technology*, Association for Educational Communications and Technology (AECT), Research and Theory Division (pp. 298-307). Atlanta, GA.
- Adams, L., Dunham, T., Wells, J., & Shambaugh, N. (2001) Trek 21 – A PT3 Grant to help teachers design engaging learning environments. *Proceedings of the 2001 SITE Conference*, Society for Information Technology & Teacher Education, Orlando, FL.

Shambaugh, R. N., & Magliaro, S. G. (2000). Teachers' visual representations of instructional design and teaching. *Selected Readings of the 31st Annual Conference of the International Visual Literacy Association (IVLA)*, Jackson, WY.

Magliaro, S. G., & Shambaugh, R. N. (1999). Teaching instructional design: Reframing the relationship between teacher and designer. *21st Annual Proceedings: Selected Research and Development Papers presented at the 1999 National Convention of the American Educational Communications & Technology Conference*. Houston, TX.

Shambaugh, R. N. (1999). Visual design of a learner-centered instructional text. In R. Griffin, Gibbs, W., & B. Wiegmann (Eds.). *Selected Readings of the 30th Annual Conference of the International Visual Literacy Association*. Athens, GA.

Shambaugh, R. N. (1994). Timeless Images: Creating personalized meanings with visual constructions. *Selected Readings of the 26th Annual Conference of the International Visual Literacy Association*. Tempe, AZ.

Conference Presentations

Steel, S., & Shambaugh, N., and Carder, M. (February, 2013). *An Extended Mentorship Model for School and University Partnership*. Annual Conference of the National Association of Professional Development Schools. New Orleans.

Shambaugh, N. (February, 2013). *Using design and development research to study your teaching*. Eastern Educational Research Association. Sarasota, FL.

Steel, S., & Shambaugh, N., and Carder, M. (February, 2013). *An Extended Mentorship Model for School and University Partnership*. West Virginia Association of Professional Development Schools. Flatwoods, WV.

Shambaugh, N. (November, 2012). *Teaching A Design and Development Course*. Association for Educational Communications and Technology (AECT). Louisville, KY.

Lei, K., Gannon-Cook, R., Huett, J., McDermott, D., & Shambaugh, N. (November, 2012). *Experts on earning tenure: Advice from tenured faculty*. Association for Educational Communications and Technology (AECT). Louisville, KY.

Shambaugh, N. (April, 2012). *Marion County PDS Collaboration*. Teacher Inquiry Conference, Benedum Collaborative. Morgantown, WV.

Shambaugh, N., Steel, S., Carder, M., & Michael, J. (March, 2012). *Research intensive PDSs: Sustaining inquiry across PDS faculty*. National PDS Conference. Las Vegas, NV.

Shambaugh, N., & Beacham, C. (February 2012). *Use of metadesign to frame curriculum development*. Fifth International Conference on Design Principles and Practices. Miami, FL.

Shambaugh, N., & Beacham, C. V. (October, 2011). *Visual Identity Guidelines for F2F and Online Courses*. International Visual Literacy Association (IVLA) Annual Conference. Galloway, NJ.

- Beacham, C. & Shambaugh, N. (May, 2011). *Development of a metaview of design thinking*. Working session. 42nd Annual Conference of the Environmental Design Research Association (EDRA). Chicago, IL.
- Shambaugh, N. (April, 2011). *Research Intensive PDS: PBL Unit Study*. Roundtable session at the annual Inquiry Celebration. Morgantown, WV: Benedum Collaborative.
- Steel, S., Shambaugh, N., Smith, J., & Armentrout, K. (March, 2011). *Research intensive PDSs: Sustaining Inquiry Across PDS Faculty*. National PDS Conference. New Orleans.
- Steel, S., Shambaugh, N., Smith, J., & Armentrout, K. (March, 2011). *Research intensive PDSs: Sustaining Inquiry Across PDS Faculty*. West Virginia PDS Conference. Flatwoods, WV.
- Shambaugh, N., & Beacham, C. (February 2011). *Metaview of Design Thinking Across Disciplines*. *Fifth International Conference on Design Principles and Practices*. Rome, Italy.
- Adu, P., Curtis, R., Hayes, S.B., Shambaugh, N., & Smith, J.J. (2010, May). *Preservice teacher action research reports demonstrate impact on pupil learning*. Paper presented at the annual meeting of the American Educational Research Association, Denver, CO.
- Beacham, C., & Shambaugh, N. (March, 2010). *Toward developing a meta-view of design thinking*. Interior Design Educators Council (IDEC). Atlanta, GA.
- Shambaugh, N., & Beacham, C. (February, 2010). *Translating design thinking for laypeople*. 4th International Conference on Design Principles and Practices, Chicago, Ill.
- Shambaugh, N. (October, 2009). *Using activity theory to guide E-Learning initiatives*. Association for Educational Communications and Technology (AECT) 2009 International Conference. Louisville, KY.
- Beacham, C., & Shambaugh, N. (October, 2009). *How do you teach design thinking?* International Visual Literacy Association (IVLA) 2009 Conference. Chicago, Ill.
- Fullen, M., Takacs, B., & Shambaugh, N. (2008). *Diffusion of fall hazard safety training for hard-to-reach residential construction workers through the Internet and utilizing new media*. National Occupational Injury Research Symposium. Pittsburgh, PA.
- Beacham, C. V., & Shambaugh, N. (2008). *Visualizing advocacy in two design courses*. International Visual Literacy Association. Blacksburg, VA.
- Dempsey, V., Shambaugh, N., Steel, S., & Webb-Dempsey, J. (2008). *Principles to consider*. National Professional Development School National Conference. Orlando, FL.
- Shambaugh, N., Webb-Dempsey, J., & Curtis, R. (2008). *Developmental study of action research in teacher preparation: Building capacity to make data-based teaching decisions*. Division K-7, American Educational Research Association Annual Meeting, New York City.
- Beacham, C., & Shambaugh, N. (2008). *Scenario development as a teaching strategy in two different design fields*. The Second International Conference on Design Principles & Practices. Miami.

- Webb-Dempsey, J., Shambaugh, N., Steel, S., & Dempsey, V. (2007). *Bridging cultures to strengthen inquiry: Democratic principles in practice*. National Network for Educational Renewal Conference. Charleston, WV.
- Kuhn, A., & Shambaugh, N. (2007). *How teachers make technology decisions*. Division K-5: Teaching and Teacher Education. American Educational Research Association Annual Meeting, Chicago, ILL.
- Shambaugh, N., & Webb-Dempsey, J. (2006). *Using action research to evaluate the AR Experience*. Division K-5: Teaching and Teacher Education. American Educational Research Association, 2006 Annual Convention, San Francisco, CA.
- Kuhn, A., & Shambaugh, N. (2006). *Now that I have technology, how can I use it to help my students learn?* 2006 National Professional Development Schools Conference. Orlando, FL.
- O'Planick, Welch, B., & Shambaugh, N. (2006). *Reflective action research: Two PDS interns hold themselves accountable*. 2006 National Professional Development Schools Conference. Orlando, FL.
- Parker, E., Shambaugh, N., Steel, P., & Webb-Dempsey, J. (2005). *Action research fellows: Collaborating to build capacity*. National Professional Development School Conference. Orlando, FL.
- Dempsey, V., Shambaugh, N., Mitchem, T., & Kuhn, A. (2005). *Collaborating on a technology integration plan in teacher education courses*. American Association for Colleges of Teacher Education. Washington, DC.
- Webb-Dempsey, J., Steele, S., & Shambaugh, N. (2005). *Evaluating the action research experience*. American Association for Colleges of Teacher Education. Washington, DC.
- Webb-Dempsey, J., & Shambaugh, N. (2005) *Collaborating to build capacity: Action research in the Benedum Collaborative Five-Year Teacher Education Program*. West Virginia Association of Colleges for Teacher Education (WVACTE). Morgantown, WV.
- Shambaugh, N. (2004). *Reframing ID as teacher decision-making*. American Educational Communications & Technology annual conference. Chicago, IL.
- Shambaugh, N. & Magliaro, S. G. (2004). *Using developmental research to study teaching*. 2004 American Educational Research Association (Division J-2), San Diego, CA.
- Katayama, A., & Shambaugh, N., (2004). *Computer-based notetaking: Why keying-in the notes leads to higher knowledge transfer*. 2004 American Educational Research Association (Division C), San Diego.
- Webb-Dempsey, J., & Shambaugh, N. (2004). *Documenting the development of reflective practitioners*. 2004 National PDS Conference. Orlando, FL.
- McCrorry, D., Abbot, J., Dooley, E., Hursh, D., Shambaugh, N., & Webb-Dempsey, J. (2004). *Promotion and tenure: Recognizing university faculty effort in professional development schools*. 2004 National PDS Conference. Orlando, FL.

- Palak, D., Chapman, P., & R. N. Shambaugh (2004). *A participant-oriented course evaluation of an educational leadership cohort model*. Association for Advancement of Computing in Education (AACCE), Atlanta, GA.
- Shambaugh, R. N. (2003). *Use of collaborative web pages in scenario-based ID instruction*. 2003 American Educational Communications & Technology (AECT) conference, Anaheim, CA.
- Katayama, A. D., Shambaugh, R. N., & Edmonds, T. (2003). *Inadequacies of the copy-and-paste method of on-line notetaking: Why keying-in-the-notes may lead to higher knowledge transfer*. Paper presented at the annual meeting of the Rocky Mountain Psychological Association.
- Shambaugh, N., & Katayama, A. (2003). *Using Eggen and Kauchak's variable classes to study the teaching of two cognition courses*. Paper presented at the annual meeting of the American Educational Research Association (Teaching Educational Psychology SIG), Chicago, Ill.
- Magliaro, S., & Shambaugh, N. (2003). *Views of teaching in ID models*. Paper presented at an interactive symposium session on "Representations of Teaching and Learning to Teach," American Educational Research Association (Division K8), Chicago, Ill.
- Shambaugh, N. & Webb-Dempsey, J. (2003). *What counts as action research?* American Association for Colleges of Teacher Education (AACTE), New Orleans, LA.
- Shambaugh, R. N. (2002). *Using scenarios to promote task reflection*. Paper presented at the American Educational Communications & Technology (AECT) conference, Dallas, TX.
- Shambaugh, N., & Beacham, C. (2002). *Personalized visual reflection of design processes: Student representations in instructional design and interior design courses*. Paper presented at the International Visual Literacy Association annual conference (October, 2002), Breckenridge, CO.
- Webb-Dempsey, J., & Shambaugh, N. (2002). *Inquiry: Action research overview*. "Under Construction ... Building for the Future: PDS Conference." Morgantown, WV: The Benedum Collaborative.
- Shambaugh, N., & Magliaro, S. G. (2002). *Novice models of instructional design*. Paper presented for Division C, Section 6: Technology Research, American Educational Research Association (AERA) New Orleans, LA.
- Shambaugh, R. N. (2002, April). *Coordinating and evaluating action research*. Session presenter for Invisible College 2002, Institute for Research on Teaching, Michigan State University.
- Shambaugh, R. N. (2002, April). *Technology integration priorities in teacher education*. Session presenter for Invisible College 2002, Institute for Research on Teaching, Michigan State University.
- Webb-Dempsey, J., Shambaugh, N., Pritchard, C., & Steele, S. (2001, December). *Action research: Collaborating to improve professional practice*. Presentation for the 2002 Professional Development Schools National Conference. March 7-10, 2002, Orlando. FL.
- Shambaugh, R. N., & Magliaro, S. G. (2001, November). *Using developmental research to study one's teaching of an instructional design course*. Paper presented to the American Educational Communications & Technology (AECT) annual conference in Atlanta, GA.

- Hursh, D., Katayama, A., Shambaugh, N., & Laitinen, R. (2001, May). *Efficiencies of computer-video interactive training*. From a symposium, *The Competent Learner Model: Outcomes and Training for Others* (Data based presentation). Association for Behavior Analysis. New Orleans, LA.
- Shambaugh, N. (2001, April). *A reflexive model for teaching and learning instructional design*. Invited paper presentation. AERA Distinguished Papers Session, The Consortium of State and Regional Educational Research Associations (SRERA) SIG. Alan Schoenfeld, Discussant. American Educational Research Association (AERA) Annual Conference, Seattle, WA.
- Webb-Dempsey, J., Wells, J., Shambaugh, N., & Dempsey, V. (2001, April) *Shift happens: Educating teachers and integrating instructional technology*. Roundtable presentation for Division K (Teaching and Teacher Education), Section 6a: Teaching and Learning in Collaborative, Partnership, or Non-Traditional Settings. American Educational Research Association (AERA) Annual Conference, Seattle, WA.
- Shambaugh, R. N., and Katayama, A. (2001, April). *Commonality in cognition: Joint design and teaching of cognition courses*. Roundtable presentation for the Teaching Educational Psychology SIG. American Educational Research Association (AERA) Annual Conference, Seattle, WA.
- Abbot, J., Dempsey, V., Murray, K., Shambaugh, N., Steele, S., & Webb-Dempsey, J. (2001, March). *Teacher education faculty as agents of technological change in learning in a school-university partnership*. American Association for Colleges of Teacher Education (AACTE). Dallas, Texas.
- Adams, L., Dunham, T., Wells, J., & Shambaugh, N. (2001) *Trek 21 – A PT3 Grant to help teachers design engaging learning environments*. A PT3 strand presentation at the 2001 SITE Conference, Society for Information Technology & Teacher Education, Orlando, FL.
- Van Zant, A., Mitchem, T., & Shambaugh, N. (2001, February). *Teacher change in unit development: Initial steps – initial results of a PT3 grant*. Paper presented at the Education and Technology Division 12 of Eastern Educational Research Association (EERA), Hilton Head, SC.
- Duran, D., Rodriguez, A. G., Shambaugh, N., & Katayama, A. (2001, February). *Commonalities in cognition: Using a course symposium across educational psychology courses*. Paper presented at the Educational Psychology division of the Eastern Educational Research Association (EERA), Hilton Head, SC.
- Shambaugh, N. (2001, January). *Trek 21: Using technology to enhance learning*. Invited presentation for “The Power of PDS: The Key to Educational Excellence” conference. Charleston, WV.
- Shambaugh, N., Golsky, J., Owens, B., & Steel, S. (2001, January). *Documenting education programs through portfolios*. Invited presentation for “The Power of PDS: The Key to Educational Excellence” conference. Charleston, WV.
- Shambaugh, R. N., & Magliaro, S. G. (2000, April). *A reflexive model for teaching and learning instructional design*. Paper presented at the 2000 Annual Convention of the American Educational Research Association (AERA), Section C-7, New Orleans.

- Shambaugh, R. N. (2000, February). *A reflexive model for teaching and learning instructional design*. Paper presented at the 2000 Annual Convention of the Eastern Educational Research Association (EERA), Clearwater, FL. Selected as Outstanding Paper
- Shambaugh, R. N. (1999, December). *Critical review of students' instructional media decisions and instructors' assessment rubric in a graduate instructional design course*. Peer Review Session, Evaluating Media Literacy Representations: Critical Perspectives and Practices, Media Literacy Study Group, 1999 National Reading Conference (NRC), Orlando, FL.
- Shambaugh, R. N., & Magliaro, S. G. (1999, October). *Teachers' visual representations of instructional design and teaching*. Paper presentation at the 1999 conference of the International Visual Literacy Association (IVLA). Jackson, WY.
- Magliaro, S. G., & Shambaugh, R. N. (1999, April). *Using Instructional design to support teacher examination of their practice*. Division K (Teacher education) paper presented at the 1999 Annual Meeting of the American Educational Research Association (AERA). Montreal, CA.
- Magliaro, S. G., & Shambaugh, R. N. (1999, February). *Teaching instructional design: Reframing the relationship between teacher and designer*. Paper presented at the annual meeting of the American Educational Communications & Technology Conference (AECT). Houston, TX.
- Shambaugh, R. N. (1998, December). *Media & representations: Media agendas*. Alternative session presentation. 1998 National Reading Conference (NRC), Austin, TX.
- Shambaugh, R. N., & Magliaro, S. G. (1998, December). *Media & representations: Critical voices & inquiry: Instructional design as a critical entry point*. Alternative session presentation. 1998 National Reading Conference (NRC), Austin, TX.
- Shambaugh, R. N. (1998, October). *Visual design of a learner-centered instructional text*. 29th Annual Conference of the International Visual Literacy Association (IVLA), Athens, GA.
- Magliaro, S. G., & Shambaugh, R. N. (1998, April). *Using instructional design as a tool for teacher inquiry into their own practice*. Invisible College, Institute for Research on Teaching. San Diego.
- Shambaugh, R. N. (1998, April). *Reframing Doctoral Programs: A Program of Human Inquiry*. Division J, American Educational Research Association (AERA), San Diego, CA.
- Shambaugh, R. N. (1997, December). *What have we written? Use of speech genres to analyze the significance of writing cognitive artifacts*. 1997 National Reading Conference, Scottsdale, AZ.
- Shambaugh, R. N. (1996, October). *Transforming readers and writers: Prospects of an electronic learner-centered textbook*. The National Reading Research Center Conference on Literacy and Technology for the 21st Century, Atlanta, GA.
- Shambaugh, R. N. (1996, December). *Evolution of a cognitive artifact*. National Reading Conference (NRC), Charleston, SC.
- Shambaugh, R. N., & Magliaro, S. G. (1996, April). *Teaching instructional design in a constructivist learning environment: Lessons learned*. In "Unpacking the knowledge construction: What learners learn in constructivist learning environments." American Educational Research Association (AERA), New York.

- Shambaugh, R. N., & Magliaro, S. G. (1996, February). *Case studies in the development of formal design expertise*. Eastern Educational Research Association (EERA), Boston.
- Shambaugh, R. N., & Magliaro, S. G. (1995, April). *Teaching instructional design as a reflective process: A structured framework for promoting infinite play*. American Educational Research Association (AERA), San Francisco.
- Shambaugh, R. N., & Magliaro, S. G. (1995, March). *Teaching instructional design as a reflective process: A structured framework for mastering the possibilities*. Eastern Educational Research Association (EERA), Hilton Head, SC.
- Shambaugh, R. N. (1994, October). *Timeless Images: Creating personalized meanings with visual constructions*. 26th Annual Conference of the International Visual Literacy Association (IVLA), Tempe, AZ.
- Shambaugh, R. N. (1994, February). *Cognitive potentials of visual notetaking*. Eastern Educational Research Association (EERA), Sarasota, Florida.

Unpublished Texts and Reports

- Shambaugh, N., (Fall 2012). *Sustaining A Research Intensive PDS Network – Year 2*. Data collection and analysis Spring 2012.
- Shambaugh, N., (Fall 2012). *PBL Units for 21st Century Learning: Integrating University, Public Schools, & State Agendas – Year 2*. Data collection and analysis Spring 2012.
- Shambaugh, N., Steel, S., & Hayes, S. (March, 2012). *The NAPDS Award for Exemplary Professional Development School Achievement*. Awarded 3-9-12. National Association for Professional Development Schools. Las Vegas, NV.
- Shambaugh, N. (2009). *Distinguished Program in Teacher Education*. Awarded 2-17-09 Association of Teacher Educators (ATE) Dallas, TX.
- Shambaugh, N. (2011). *ID Works: Learning from and about instructional design 1994-2012: Virginia Tech 1994-1999; West Virginia University 1999-2012*. Self-study, 7 vol. Morgantown, WV: West Virginia University. Contents found at: http://web.me.com/nshambaugh/ID_Works/Contents.html
- Member. (2007, October). *Report of the task force on technology-based learning and academic programs*. Provost's Office. Morgantown, WV: West Virginia University.
- Shambaugh, N., & Webb-Dempsey, J. (2001, September). *Analysis of action research projects of pre-service teachers*. West Virginia University Benedum Collaborative Summer 2001 Writer's Guild.
- Shambaugh, N. (Ed.)(2001, 1999). *2001, 1999 Book of Student Readings for EDUC 605 Instructional Design and Technology Professional Practice*.
- Shambaugh, R. N. (1999, February). *Development of a co-participatory and reflexive approach to teaching and learning instructional design*. Dissertation. Abstract available at

<http://scholar.lib.vt.edu/theses/available/etd-020599-094356/>. Blacksburg, VA: Virginia Polytechnic Institute & State University.

Shambaugh, R. N. (1998, Summer). *Teachers' use of planning and instructional design processes*. Working paper. Blacksburg, VA: Virginia Polytechnic Institute & State University.

Shambaugh, R. N. (1994, August). *Mastering the possibilities: A tour of instructional design*. Unpublished student guide. Blacksburg, VA: Virginia Polytechnic Institute & State University.

Shambaugh, R. N. (1994, May). *The worrier's guide to instructional design*. Unpublished student guide. Blacksburg, VA: Virginia Polytechnic Institute & State University.

Hatfield, L., Holzer, S., Moore, J., Roper, D., & Shambaugh, R. N. (1992, January). *Teaching & learning environments: Report of the innovations in teaching: Curriculum Committee*, Office of the Provost. Blacksburg, VA: Virginia Polytechnic Institute & State University.

Grants

Principal Investigator (2012-2013). *Use of Reasoning Mind™ to Improve Math Achievement*. Benedum Collaborative: Research Intensive PDS – Year 3 for Rivesville ES/MS, \$3850. 2012-2013.

Principal Investigator (Spring, 2012): *Sustaining Student and Teacher Impacts Using PBL-Based 21st Century Units in Marion County Schools: Year Two*. Benedum Collaborative “Research Intensive PDS” Grant for Marion County Public Schools. \$6,000.

Principal Investigator (Spring, 2011): *Student and Teacher Impacts Using PBL-Based 21st Century Units in Marion County Schools: A Hands-On-Hands-Together Demonstration of Public School-University Partnerships*. Benedum Collaborative “Research Intensive PDS” Grant from Marion County Public Schools. \$10,000.

Principal Investigator (2009-2010): *Online IDT Master's Program Development*. Extended Learning, West Virginia University. \$25,000. Development of 6 online courses for IDT Master's Program.

Principal Investigator (2000-2008): *Web-Based Curriculum Materials Development* National Alternative Fuels Training Consortium, West Virginia University. Sponsoring Agency: *Environmental Protection Agency*. \$260,000. Converting paper-based training curriculums to online use. *Note: 2005-2008 or 4 years as associate professor.*

Faculty participant (Fall, 1999- Spring, 2001): *IDT Specialist for PT3 Implementation Grant*. “Trek 21: Educating Teachers as Agents of Technological Change” Planning and implementation. College of Human Resources & Education. West Virginia University. *Department of Education*, PT3 (Preparing Tomorrow's Teachers to Use Technology) \$1.6 million 3 years.

Collaborative Working Grant (1996-1997): *Writer and Narrator. Positive Parenting Practices: Use of Mass Media to Communicate Parenting Skills*. Barbara Carlisle, Theater Arts; Janet Sawyers, Family & Child Development, R. Neal Shambaugh, Tom Sherman, Teaching & Learning. *Provost's Office*, VPI &SU. \$4,500.

Design and Development Products

Courses

EDP 640 Instructional Design, 1994-1998 (Virginia Tech); 1999-2012 (WVU): 100% online 2010: eCampus modules for each ID phase. Each phase/module consists of scenario prompting questions, module pages (narrated), quick thinks, and design activity. Supplementary instructional materials include authored textbook (Shambaugh & Magliaro, 1997) and produced video clips.

Books

Mastering the Possibilities, 1997: Instructional design text for graduate students developed from (3) versions used and taught Summer 1994 through Fall 1997. V1: *Worrier's Guide to ID*, V2: *A Tour Guide to ID*; V3: *Mastering the Possibilities*. Published by Allyn and Bacon. Includes instructor's guide, presentation materials.

Instructional Design: A Structured Approach to Reflective Practice, 2005: Instructional design text for teacher education, pilot-tested Fall 2004. Published by Allyn and Bacon. Includes instructor's guide.

Putting Ourselves Through College: Pragmatic Essays for Gaining Tenure, 2009. Published on Wordclay.com. Now being republished on BookTango, eBook publisher from Author Solution.

Educational Stories - Elementary

The Literacy Lurd: It's Quite the Burd: multiple literacies. Published, Blurb.com.

Walter's World: self-centeredness. Published on Blurb.com

Wilson the Worrier: distant friends. Published on Blurb.com

Educational Stories - Middle

Published on blurb.com under the title of *Four Stories*.

The Sleeping Girl: friendship

Unearthly Light: unique talent

The Book of Smiles: friendship

Off with Her Head: personal identity

Professional Development – Reflective Documents

Combined under the title of *Academic Time*.

Teaching Time: Fall 2007

Leadership Time: Fall 2008

Sabbatical Time: Fall 2009

Online Time: Fall 2010

Moving Teacher Education Into The Schools: 2011

Learning Together Online: 2011

Advising and Mentoring Time: 2012

What Does It Mean to Be a Full Professor? 2012-2013

Works in Progress

Articles and Book Chapters

Beacham, C., & Shambaugh, N. (Spring, 2013). Documenting a personal thinking language. *International Design Journal: Visual*.

Steel, S., & Shambaugh, N. (Spring, 2013). An Extended Mentoring Model. *School-University Partnerships*.

Ogden, L., Pyzdrowski, L., & Shambaugh, N. (Fall, 2013). The College Algebra Flipped Classroom. Book chapter accepted for *Promoting Active Learning Through the Flipped Classroom Model*.

Shambaugh, N., & Steel, S. (Fall, 2013). Developing Multi-Literate Public School Students with Technology-Driven PBL. Book chapter accepted for *Literacy Enrichment and Technology Integration in Pre-Service Teacher Education*.

Conferences

Beacham, C., & Shambaugh, N. (March, 2013). *Developing a personal thinking language*. Proposal accepted by the International Design Conference (peer).

Shambaugh, N., McCutchan, N., & Morris, T. (April, 2013). *Research Intensive PDS: Using Reasoning Mind to Assist Mathematics Performance by Third and Fourth Grade Students*. Annual Teacher Inquiry Conference, Benedum Collaborative (invited).

Grant Proposals

Spencer Foundation: Evidence for the Classroom: *Teachers' Use of Student Learning Data to Inform Instruction* \$135, 556. Preliminary Proposal submitted June 2012, rejected. RESUBMIT 2013

Design and Development Projects

Kathryn Lei, U. of Houston, Clear Lake; Ruth Gannon-Cook, Depaul; Neal Shambaugh, West Virginia University Collaborative Design Across Universities of an Online Human-Performance Technology course.

Books

Shambaugh, N. (Summer, 2013). *Getting to the real work: Post-tenure strategies*. Wordclay.com.

Steel, S., & Shambaugh, N., and invited authors. (2013+). *The History of the Benedum Collaborative*. Proposal to be submitted to WVU Press.

Shambaugh, N. (Summer 2013). *Future design: Strategies and tools for designing our future*. Book treatment and sample chapters to be submitted to MIT Press.

TEACHING ACTIVITY

West Virginia University: Morgantown, West Virginia

- 2003 *Outstanding Teacher Award* – College of Human Resources and Education
- 100% Online
 - EDP 600 **Educational Psychology** (master's level) 100% online 2010-2011 (2x)
 - EDP 640 **Instructional Design** (master's level) 100% online 2010-2012 (3x)
 - EDP 740 **Principles of Instruction** (doctoral level) 2011-2013 (3x)
 - IDT 640 **Visual Literacy** (master's/doctoral level) 2012 (1x)
 - IDT 693a **Online Book Writing and Publishing** (master's level) 2010 (1x)
 - IDT 693b **Teaching with Visuals** (master's level) 2012, 2013 (2x)
- Blended
 - EDP 740 **Principles of Instruction** (doctoral level) 2001, 2004-2011 (9x)
 - EDP 640 **Instructional Design** (master's level) 1999-2008, 2010 (11x)
 - IDT 693 **Visual Literacy** (master's/doctoral level) 2007-2010 (4x)
 - EDUC 400 **Instructional Design and Evaluation** (pre-service teachers) 2002-2008 (7x)
 - Course Team Coordinator: 2005-2008 (5 sections)
- F2F
 - IDT 693 **Design and Development Research** (doctoral level) 2012 (1x)
 - EDP 731 **Cognition in Social Contexts** (doctoral level) 2000-2002 (3x)
 - TE 691 **IDT Professional Practice** (master's level) co-listed (see EDUC 605) 2003-2008 (6x)
 - TE 730 **Introduction to Technology** (master's/doctoral level) 2000-2005 (6x)
 - TE 733 **Readings in Technology and Culture** (doctoral level) 2003, 2006 (2x)
 - TE 744 **Instructional Technology Integration** (doctoral level) co-instructor 2000-2001 (2x)
 - EDUC 400 **Instructional Design and Evaluation** (pre-service teachers) 2002-2008 (7x)
 - EDUC 600 **Teacher As Researcher** (pre-service teachers) 2001-2009 (9x)
 - Co-Coordinator: 2001-2006 (100 4th year; 100 5th year)
 - AR Faculty: 2001-2009 (one of 6 action research faculty)
 - EDUC 601 **Context of Education** (master's level) 2002, 2007 (2x)
 - EDUC 605 **IDT Professional Practice** (master's level) 1999-2005 (5x)

Other Teaching

Presenter and facilitator, Sessions on Instructional Design, Rubrics & Portfolios *Online Teacher Scholars Program*, Health Sciences, West Virginia University. 2003-2004, 2004-2005, 2005-2006, 2006-2007, 2008-2009.

College teaching observations and advising: Fall 2011: Amy Root, Assistant Professor of Child Development and Family Studies. Spring 2011 and Spring 2012: Chris Schimmel, Assistant Professor of Counseling; 2010-2011: meetings with 2 faculty in Forestry, Equine programs in Davis College.

Virginia Polytechnic Institute & State University: Blacksburg, VA

- Graduate Student, Master's and Doctoral: 1992-1999
- EDCI 5164: **Principles of Instructional Design** (master's level: 1994-1998 (6x)
- MSCI 4444: **Decision Support Systems** (AI, expert systems)(undergraduate: 1990)

Doctoral Advising

- Shawn Kuba** 2005 *Now at:* West Virginia Wesleyan
An Investigation of Supports and Barriers Experienced by Students with Learning Disabilities as they Transition to and Persist in the Postsecondary Setting (qualitative)
- Amy Kuhn** 2006 *Now at:* Office of Information Technology, WVU
Decision-Making in the Use of Instructional Technology by Novice and Experienced Public School Teachers (qualitative)
- Hye Yoon Jung** 2006 *Now at:* South Korea
Psychological Distance and Motivation toward Courses: Students' Perception of Their Instructor's Immediacy Behavior, Solidarity toward Peer Students and Students Motivation in Distance Education (quantitative)
- M. Teresa das Neves** 2007 *Now in:* Brazil teaching at university level
Using Blended Instruction to Teach Academic Vocabulary Collocations: A Case Study (mixed)
- Bonnie Ordonez** 2008 *Now at:* Community College of Allegheny County, PA
Impact of Attribution Retraining with Students Enrolled in an Internet-based Instructional Technology course at a Community College (mixed)
- Melinda Marple** 2008 *Now at:* Classroom teacher, Mon. County, WV
A Longitudinal Study on the Effects of Computer/Internet Teacher Training and Teacher Anxiety, Attitude, and Computer Use in the Classroom (mixed)
- Gerry Newlon** 2009 *Now:* HS teacher, Harrison County, WV
Plagiarism in High Schools: A Case Study of How Teachers Address a Perpetual Dilemma (qualitative)
- Mark Fullen** 2009 *Now:* Program Leader, WVU Safety & Health Extension
The Development, Diffusion and Evaluation of a Fall Hazard Safety Training Program for Residential Construction Workers Utilizing Instructor Led and New Media Delivery (mixed)
- Mark Williams** 2009 *Now:* Instructor at West Liberty University
WV Public School Music Teachers' Use of Digital Audio Technologies for Teaching and Learning (mixed)
- Gayle Neldon** 2009 *Now:* Faculty member, WVU Department of Speech Pathology and Audiology
Electronic Clinic Journaling: The Use of Weblogs to Support Evidence-Based Practice in Doctor of Audiology Students (mixed)

Marie Leichter 2010 Now: Staff, WVU Honors College
A Case Study of Universal Design for Learning Applied in the College Classroom (qualitative)

Laura Adams 2010 Now: Curriculum developer, WVU National
 Alternative Fuels Training Consortium
*Using Wenger's Social Theory of Learning to Examine University Teachers' Understanding
 of How Instructional Technology Affects Their Experience in Practice (qualitative)*

LEADERSHIP & SERVICE ACTIVITY

National

External Reviewer, Promotion & Tenure. (3) candidates from University of West Georgia, Depaul University (August 2009), Virginia Tech (August 2010).

Reviewer, Developmental Section, Educational Technology Research & Development (ETR&D), appointed April, 2006 - present. Research section January 2013 p present. Top IDT journal.

Reviewer, Journal of Design Principles and Practices, 2008 – present.

Reviewer, Journal of Curriculum and Instruction, 2008 – present.

Reviewer, Journal of Educational Computing and Research, 2008 – present.

Reviewer, Journal of Research in Education (EERA), 2000 – present.

Reviewer, book proposals, Sage Publications, 2004, 2005, 2006; Corwin Press, 2011.

Reviewer, American Educational Research Journal (AERA), 2002-2003.

Reviewer, Future Research papers, American Educational Communications & Technology (AECT)(national/international IDT organization). Spring 2008.

Member, Expert Panel for Elementary – PreK AECT Project, Pennsylvania State University, Department of Education (PT3), 2002-2003.

Media Literacy Study Group participant (1997-1999) and Proposal reviewer (1998-1999) at National Reading Conference, developing presentations for 1998 and 1999 Conferences.

Judge, Circle of Excellence, Council for Advancement and Support of Education (CASE), 1996-1997. Awards Program, Electronic Media Presentations.

Session Chair and Discussant, Integrative Studies Conference, Pittsburgh, PA., 1994.

Regional

Director of Communications, Eastern Educational Research Association. 2003-2005. Responsible for web site, newsletter, call for proposals, and conference program.

Regional Representative for West Virginia, Virginia, Eastern Educational Research Association, Elected Spring 2002--2005.

Editorial Board and Board of Consulting Editors member (reviewer) for *Journal of Research in Education* (JRE), February, 2001 (Term 2001-2004), ex-officio 2004-2005.

Session Chair and Discussant, Eastern Educational Research Association Conference, 1994-1996.

State

Member (Spring 2007). planning team for an online action research journal in West Virginia. Charleston, WV: WV Center for Professional Development.

President, T3 (Technology-Teacher Education-Tomorrow), West Virginia organization (2000-2001). Organized Fall, 2000 West Virginia T3 Conference (December 1-2, 2000). "Integrating Efforts: Best Practices and Programs and Working Towards Tomorrow (T3, Technology-Teacher Education-Tomorrow)". Morgantown, WV.

University

College Representative, WVU Bucklew/Foundation Scholarship, Honors College, West Virginia University. 2004, 2005, 2010, 2011.

Presenter and Facilitator, Sessions on Instructional Design, Rubrics & Portfolios *Online Teacher Scholars Program*, Health Sciences, West Virginia University. 2003-2004, 2004-2005, 2005-2006, 2006-2007, 2008-2009, 2011.

College Representative, IA/HERO 2010 (Irish American Higher Education Research Organization), West Virginia University. September 30-October 2, 2010.

Planning group: ECAS-HRE 6-credit hour teaching sequence for ECAS doctoral students, 2007-present.

Task Force on Technology-Based Learning and Academic Programs, WVU 2010 Plan. Provost's Office, Spring 2007 – Fall 2008.

IIRC-HR&E collaboration: developing a WVU Teacher Scholar Certification: Module Development; Peer Mentoring support, 2008.

WVU Faculty Senate, HR&E Representative 2004-2007.

Search Chair, Curriculum Developer/Coordinator for National Alternative Fuels Training Consortium, West Virginia University, 2002-2003.

College

Regular Graduate Faculty, since 2000, renewed Fall 2012.

Search Committees:

Chair (2013). Assistant Professor, Tenure-track, IDT (in progress)

Member (2012). Tracking Evaluation and Quality Improvement Core of WV Clinical Translational Science Institute (TEQuIP) HRE/HSC (in progress).

Chair (2011). Associate Dean, No-hire.

Member (2008). Director, Benedum Collaborative. Hired.

Member (2008). Assistant professor, Special Education. Hired.

Chair (2007). Assistant Professor, Tenure-track, IDT. Hired.

Chair (2006). Qualitative Research Position. Hired.

Member (2005). Assistant/Associate Professor, IDT. Hired.

Promotion and Tenure

College Chair, (2008-2009), *Member* (2000-2003, 2007-2009). Promotion, Tenure & Evaluation Committee.

Department Chair, (2006-2007), *Member* (2012-2013). Peer Review Committee. Department of Technology, Learning, & Culture.

Member, (2005-2006). Peer Review Committee. Department of Educational Leadership Studies, WVU.

Member (2003-2004). Peer Review Committee Department of Advanced Educational Studies, WVU.

Other Committee Membership

Member (2006-2007). HR&E Faculty Academy Planning Group.

Member (2006, 2007). HR&E Scholarship Committee.

Member (2003-2005, 2005-2007). Research, Service and Professional Development Committee. College of Human Resources & Education, WVU.

Member (2004). Outstanding Teaching Award Committee. College of Human Resources & Education, WVU.

Member (Spring, 2001). Visual and Leadership Committee for Networked Technologies, Strategic planning. College of Human Resources and Education. WVU.

College Program Coordination

Hired in 1999, a program coordinator since Fall 2000, first as coordinator for Technology Education Master's Program, second since Summer 2006 as program coordinator of IDT master's/doctoral programs.

Program Coordinator, Instructional Design and Technology, Department of Technology, Learning, & Culture (Summer 2006 – present). College of Education and Human Services, WVU. <http://tlc.wvu.edu/idt>

Master's students: (1) practicing teachers, (2) corporate trainers, and (3) WVU unit staff personnel.

Doctoral students: Approximately 10% of IDT-MA graduates apply for admission into doctoral program.

Graduation: (15) Fall 2012; (9) Spring/summer 2013.

Enrollments: 60 master's students, 18 doctoral students (as of January 2013).

Recruitment features: IDT Program Recruitment Plan. Extended Learning Communication Plan. 3 review periods for Master's program (April 30, June 30, November 30); 1 review period for Doctoral program (February 1).

Benchmark events:

- Field testing online application for Program of Study, student progress, and advising for IDT Master's Program (developed by Dr. Ahern), Spring 2013.
- IDT assistant professor/tenure-track faculty hire, Spring 2013.
- Submitted survey response for U. S. News and World Report survey of online programs.
- IDT Master's Program accepted for Southern Regional Education Board Electronic Campus (SREC), Spring/Fall 2012, enabling out-of-state students to enroll at in-state rates, ongoing review/approval of courses.
- Enrollment Plan and Student Progress Policy instituted, Fall 2011.
- Student Handbooks for Master's and Doctoral programs.
- Customized Program of Study instituted for Doctoral Program, Fall 2010.
- Submitted improved assessment plan (2011) and data (2012) for IDT-MA program.
- Completed major IDT course changes: drops, new, alterations, Spring-Fall 2010.
- Drafted BOG Reports for IDT master's and doctoral programs, Fall 2010.
- Development of proposals for IDT M.A. and IDT Ed.D. programs; submission to University Council review, Spring 2006
- Completing faculty hires (4) for IDT program, Spring 2007

Master's Program Coordinator, Technology Education, Department of Advanced Educational Studies (March, 2000 – May 2006). College of Human Resources and Education, WVU.

College Student Advising

Doctoral chair, 12 defended (2005-2010).

Faculty advisor, ESGA Student Organization supporting 5-year teacher education program, December 2006 – May 2009.

Action research mentor: proposals, papers, presentations for year 5 students in teacher education program, 2000-present.

Faculty advisor for Technology Education student organization: Professional Activities for Technological Studies (PATs). Fall, 2000-2004.

Teacher Education Program - Benedum Collaborative (West Virginia University)

2011, Report Writer. *The NAPDS Award for Exemplary Professional Development School Achievement*. 10-04-11 National Association for Professional Development Schools. Las Vegas, NV. AWARDED

2009, Report Writer. *Distinguished Program in Teacher Education*. 2-17-09 Association of Teacher Educators (ATE) Dallas, TX. AWARDED.

Organizing Member, Participant, WVU 5-Year Teacher Education Program Review, January 6-7, 2009. Morgantown, WV.

Liaison Governance Group, 2006 – 2009, *member of Cross-Site Executive Steering Committee Member*, Search Committee for Director (Fall-Spring 2007-2008). Position filled.

Member, Action Research Faculty (Fall, 2001- 2009)

Co-Coordinator, Action Research. (Fall, 2001-2005)

- *Research Intensive PDS*: Proposal writer, awarded to 4 Marion County schools, \$20,000 (2011, 2012)
- *Research Intensive PDS*: Proposal writer, Rivesville ES/MS \$5000 (2013)
- *EDUC 600 Teacher As Researcher*: action research faculty (seminar design and implementation, review of AR topics and reports, AR conference)
- Review of student portfolios (years 3, 4, 5)
- *Action Research Cluster Team Member* - Summer 2001
- Observation of pre-service teachers, 2003-present
- *Writer's Guild* - Analysis of 2001 Action Research Projects (w/Jaci Webb-Dempsey) - Summer 2001
- *Technology Strand Cluster Team Member* - Summer 2001
- *ToolKit* developer - Summer 2002
- Presentation to *Summer Coordinator's Workshop*, Summer 2002
- Presentation to *2002 Benedum Advance* - Action Research Coordination Update; 2006 PDS Day – Liaison orientation; 2007 PDS Day – Liaison orientation.

Liaison representative. Rivesville Elementary/Middle School (1999-present), Watson Elementary School (2008-2009),

- Review and feedback of action research proposals for 4th year Participants and action research papers for 5th year interns
- Orientation of new pre-service teachers, 1999-present
- Observing participant (year 4) and intern (year 5) teaching, 2003-present
- Advising Interns and Participants in action research, since 2001
- Judging science fair: December 2004
- Read Alouds: November 2003, November 2004 (self-penned story), March 2005, November 2005 (self-penned story), March 2006.

College Faculty Collaboration (1999-present)

- 2012-present. HRE collaboration with Health Sciences Center on New Graduate Programs.
- 2005-2007) Faculty Academy Planning Team. Development of activities for May Faculty Academy: 2006 EDUC400 group; 2007 eCampus and EDUC400 group.
- 2006, 2007, 2008. EDUC 400 Planning team (2006, 2007, 2008). Development of EDUC400 syllabus, outcomes, and activities. Involving feedback from PDS teachers and students. eCampus materials posted for 2007, 2008.
- 2007-2008. Coordination of IDT minor for EDLS-Doctoral Program cohorts.
- 2002-2005. Paul Chapman. *West Virginia Leadership Program*. Proposal to U.S. Department of Education. University liaison to RESA I cohorts.
2004. Andy Katayama (now at U. S. Air Force Academy). *Computer-Based Note-Taking Study*. Experimental treatment, 45 subjects. Presentations and article submission.
2001. Judy Esposito. *Qualitative analysis of workshop feedback; Framing research questions for study of school counselors in student detention centers*. Counseling Education, College of Human Resources and Education, West Virginia University.
- 2000-2001. Dan Hursh, Andy Katayama. *Research study of the efficiencies of computer-supported video training*. *Educational Psychology*. College of Human Resources and Education, West Virginia University. Conference paper.
2000. Planning and implementation of PT3 grant activities:
- *HR&E College Faculty Development Institute*, (May 11-19, 2000), College of Human Resources and Education, West Virginia University (11 participants).
 - Planning and implementation of *PDS Faculty Development Institutes* (June - August, 2000), College of Human Resources and Education, West Virginia University (46 participants).
 - Facilitator (11-3-00) for *Fall, 2000 Continuity Meeting* of Trek 21 Host Teachers. East Dale Elementary School, WV.

College Presentations (1999-present)

- Presentation* (11-15-12), IDT Master's Online Program. Board of Governor's visit. College of Human Resources and Education. West Virginia University.
- Presentation* (04-14-11), The 4-Ps of Research Reporting. Graduate student group. College of Human Resources and Education. West Virginia University.
- Presentation Moderator* (03-19-10), *Mock AERA session (3 presentations)*, Research Symposium, College of Human Resources and Education. West Virginia University.
- Orientation* (10-01-08), *Promotion, Tenure, and Evaluation Orientation for New Faculty*, College of Human Resources and Education. West Virginia University.
- Presentation* (02-07-08), *Developmental Study of Action Research 2001-2007*, College of Human Resources and Education. West Virginia University.

Presentation (02-01-07), *21st Century Learning*, Research Symposium, College of Human Resources and Education. West Virginia University.

Presentation (11-10-06), *Teacher Research: Course Improvement and Dissemination*, Research Symposium, College of Human Resources and Education. West Virginia University.

Presentation (12-05-04), *Studying One's Teaching: Developmental Research*, Research Symposium, College of Human Resources and Education. West Virginia University.

Presentation (08-13-02), *Action Research Overview* for Benedum Collaborative 2002 Advance Conference. College of Human Resources and Education. West Virginia University.

Presentation (08-02-02), *Web Curriculum Development Update* for NAFTC Annual Update Meeting. Morgantown, WV; with Laura Adams, graduate student and lead presenter.

Presentation (07-16-02), *Action Research Overview* for Summer Coordinators' Network. Benedum Collaborative. College of Human Resources and Education. West Virginia University.

Presentation (02-07-02), *Guidelines for Qualitative Dissertations* for SCFD 710 Advanced Qualitative Research. College of Human Resources and Education. West Virginia University.

Presentation (02-12-02), *Instructional Design Teaching and Research* for EDP 794c - Educational Psychology Graduate Seminar. College of Human Resources and Education. West Virginia University.

Presentation (11-4-00), *Instructional Technology Funding Opportunities*, to Capital Campaign Committee, College of Human Resources and Education. West Virginia University. Helped to confirm funding from Verizon, which outfitted dedicated video teleconferencing facility.

Presentation (10-2000): "*The 4P's of Research Reporting*." PATS: Professional Activities for Technological Studies

Guest on WAJR radio – "Morgantown AM," discussing Trek-21 PT3 project and impact on teachers and students. July 26, 2000.

Guest presentation for West Virginia SatNet Course - F&CS 191: Environmental Design and Professional Practices for Child Care: Portfolio Development. September, 2000.

Guest presentation for EDP 494: Educational Psychology Graduate Seminar: Background and Research Activities, March, 2000; September, 1999.

Guest presentation (with Dr. Cindy Beacham) for EDP 320: Introduction to Educational Research, Dr. Andy Katayama. "Qualitative Research," March, 2000; October, 1999.

"The Role of Technology in Schools," a mini-session topic for "Learning to Teach, Teaching to Learn" – Fall Family Weekend Event for Teacher Education Students and Their Families." October 1, 1999. College of Human Resources & Education. West Virginia University.

Facilitated public conversation with Mary Catherine Bateson, at *Inquiring Voices: 1998 Graduate Student Research Conference*, College of Human Resources and Education. Blacksburg, VA: VPI&SU.

Presentation to the Rockbridge County Master's Program: use of visuals in instruction, 1994.

Graduate Student Service (1994-1999)

Committee member, Graduate representative, Joint Undergraduate-Graduate Curriculum Committee, College of Human Resources & Education, Virginia Tech, 1995-1997.

Organizing member of the Education Student Community, student group in the College of Education, Virginia Tech, 1995-1996.

Member, College of Education Curriculum Task Force, Virginia Tech, 1995.

Member, University Commission on Classified Staff Affairs, Virginia Tech, 1994-1995.

Report writer, Innovations in Teaching Curriculum Committee, Virginia Tech, January 1992.

Newsletter editor, Phi Delta Kappa, Virginia Tech Chapter, Fall-Spring, 1998-1999.

PROFESSIONAL DEVELOPMENT ACTIVITIES (1991-PRESENT)

Professional organizations

- American Educational Research Association (AERA)
- Association for Educational Communications & Technology (AECT)
- International Visual Literacy Association (IVLA)
- Invisible College (Institute for Research on Teaching, Michigan State University)
- Phi Delta Kappa (PDK)
- Phi Kappa Phi

Sabbatical Leave Fall 2009

- Approved February 18, 2009: 2 presentations, 6 papers submitted.

Professional Experience

Production Manager, Visual Communications, Virginia Tech (1994–1999)

Responsibilities: managed radio production facilities, conceived and produced broadcast programming; developed and produced video, multimedia, Internet programming; consulted on media development for University clients.

Public Relations Specialist, Visual Communications, Virginia Tech (April, 1984-December, 1994)

Responsibilities: Wrote and produced radio, video, and multimedia programming; assisted in developing and marketing media programming; provided technical support.

General Manager and Part-Owner, KGWY-FM, Gillette, WY. (October, 1982-May, 1995)

Responsibilities: managed operations of 100,000 watt FM radio station, supervised staff of 20 in sales, announcing, news, and engineering.

Owner: Jim Neal & Associates, Gillette, WY. (March, 1978-October 1982)

Responsibilities: developed task training programs (slide/tape) for heavy equipment mining equipment task training, safety, and orientation; sound system and broadcast facility design.

Selected Major Consulting with Private Organizations

National Alternative Fuels Training Consortium (2000-2004) Consulting on media use in training programs. Conversion of paper-based training materials to web-based. \$130,000.

Utah International Inc. (1979-81) 96 safety and task training programs for this mining subsidiary of General Electric. Slide/tape programs, workbooks. \$330,000.

Thunder Basin Coal Company (1978-82) 48 employee orientation, environmental orientation, safety, and task training programs for this subsidiary of Atlantic Richfield. Slide/tape programs, instructor's guides. \$90,000.

Cordero Mining Company (1979-1982) 36 safety and task training programs for this subsidiary of Sun Company. Slide/tape programs, instructor's guides. \$78,000.

Professional Development

2012, *Research Intensive PDS Institute*, June 2012. Benedum Collaborative.

2012, *Implementing Quality Matters Rubric*. Quality Matters, Maryland.

2011-2007, Self-Study: *Academic Time: Reflective Visual Narratives for Fall Teaching, Research, and Advising*. Morgantown, WV. <http://web.me.com/nshambaugh/MediaCenter/Journal.html>.

2011, *Art of Teaching: Best Practices from a Master Educator*. The Great Courses.

2011, *Building Great Sentences: Exploring the Writer's Craft*. The Great Courses.

2010, Conference: *Encouraging Girls in Math and Science: Bridging the Gap Between Research and Practice*. REL Appalachia. Morgantown, WV. October 25, 2010.

2010, *IA/HERO 2010 (Irish American Higher Education Research Organization)*, West Virginia University. September 30-October 2, 2010.

2010, *Higher Education Access Professional Development pilot course*. Health Sciences, WVU.

2009, Webinar: *Engaging the Digital Generation: Insights for Kids, Teachers, and Parents*. Edutopia.

2009, Webinar: *Cyber Summit on 21st Century Skills (2 sessions)*, Partnership for 21st Century Skills.

2009, Webinar: *Getting Ready: The Teacher Quality Partnership Grants Program*. AACTE.

2009, Webinar: *Online Assessment*, Indiana University.

2009, Webinar: *A New Day for Learning: How to Cultivate Full-Time Learners*. Edutopia.

2009, Webinar: *Getting Ready: The Teacher Quality Partnership Grants Program Competition*. AACTE.

2008, *Faculty Academy: EDUC 400 Planning; IDT Faculty Online Master's Program Planning*. HRE.

2008, *Teaching Appalachian Culture for the 21st Century*. April 1-2, 2008. Morgantown, WV.

- 2007, *Trends in Special Education presentation*. Erickson Alumni Center. Morgantown, WV.
- 2007, *Faculty Academy*: eCampus; EDUC 400 Planning Team. HRE.
- 2006, *Broadening Diversity Toward Inclusion: A Climate for Reform*, Diversity Task Force, West Virginia University.
- 2006, *21st Century Learning*, Benedum Collaborative, West Virginia University.
- 2006, *Empowered to Make a Difference*, Benedum Collaborative, West Virginia University.
- 2006, *Faculty Academy*: EDUC 400 Planning Team. Technology standards and integration.
- 2005, *Grant Writers' Seminar*, West Virginia University.
- 2005, WVU-Teaching Horizons Workshop: Robin Wright: *Active Learning – From Brain to Practice*
- 2004, 2001, 1999 *Professors of Instructional Design and Technology (PIDT)* annual meeting.
- 2003, *IRB compliance training*, completed 03-20-03. West Virginia University.
- 2002, *10th Annual West Virginia Great Teachers Seminar (03-25-02)*, sponsored by the West Virginia Faculty Development Network, WV DOE, June 24-27, 2002.
- 2002, 2000 *Institute for Research on Teaching (IRT)*, Michigan State University annual meeting of the “Invisible College” on teaching and teacher education.
- 2000, “*Macromedia 101*” 3-hour workshop. T3 Annual Conference. Morgantown, WV.
- 2000, 1999, “*Preparing Tomorrow’s Teachers to Use Technology*” (PT3): Implementation and Catalyst Project Director’s Meeting (Briefing from U. S. Department of Education), Dallas, Atlanta.
- 2000, “*Online Reserves*,” Faculty Development Workshop, West Virginia University.
- 1999, “*Supporting, Troubleshooting and Optimizing Windows NT 4.0 Seminar*,” Morgantown, WV.
- 1999, *ITTE Technology+Learning Conference*, Dallas, TX.
- 1999, *Sexual Harassment Workshop*, West Virginia University.
- 1999, *Academic Computing*, Faculty Development Workshop, West Virginia University.
- 1999, *Faculty Evaluation Promotion & Tenure*, Faculty Development Workshop, West Virginia University.
- 1999, *Grant Writers' Workshop*, New Faculty Development Workshop, West Virginia University.
- 1998, *Educational Technology Conference*, Blacksburg, VA.

1996, *Copyright Workshop*, Blacksburg, VA.

1995, *TQM: Basics & Issues*, Roanoke, VA.

1994, *Managing Multiple Priorities*, Roanoke, VA.

1992, *Training the Future Professoriate*, Graduate Studies, VPI&SU.

1991, *Communicating University Research*, Council for Advancement and Support of Education (CASE), Bethesda, MD.

AWARDS

2012, Report Writer. *The NAPDS Award for Exemplary Professional Development School Achievement*. 3-9-12. National Association for Professional Development Schools. Las Vegas, NV.

2009, Report Writer. *Distinguished Program in Teacher Education*. 2-17-09. Association of Teacher Educators (ATE) Dallas, TX.

2006, Listed in *30 Years of AERA Distinguished Papers from the State and Regional Research Associations 1977-2006*, American Educational Research Association.

2002, 2004-2007 *Faculty Travel Grant Award*, Senate Research Committee. West Virginia University.

2003, *Outstanding Teacher Award*, College of Human Resources and Education, West Virginia University.

2002, *10th Annual West Virginia Great Teachers Seminar* (03-25-02), one of six WVU faculty selected, sponsored by the West Virginia Faculty Development Network, June 24-27, 2002.

1999, 2000, 2002, 2003, 2004, 2006, 2012. *Faculty Development Grant* from Research, Service & Professional Development Committee, College of Human Resources and Education, West Virginia University. \$1,000 1999-2002; \$500 2003, 2004, 2006).

2001, *AERA Distinguished Paper Award*, Consortium of State and Regional Educational Research Associations (SRERA), Seattle, Washington.

2001, *Best Paper*, from the Eastern Educational Research Association paper, *A reflexive model for teaching and learning instructional design*. 2000, Clearwater, FL.

2000, *Nomination for Dissertation Award* - Phi Delta Kappa District VII.

1999, *Graduate student representative* to the 1999 Professors of Instructional Design and Technology (PIDT) meeting in Estes Park, CO, May 21-May 24, 1999. Blacksburg, VA: VPI&SU, College of Human Resources & Education.

1997-1998, *Instructional Fee Scholarship* for three semesters, College of Human Resources & Education. Blacksburg, VA: VPI&SU.