

Curriculum Vita -- Kevin B. Bennett

Biographical Information

Office:

Wright State University
Department of Psychology
Dayton, Ohio 45435
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Residence:

Dayton, Ohio

Nationality:

U. S. Citizen

Website: <http://www.wright.edu/~kevin.bennett/>

Education:

Ph.D., The Catholic University of America, Washington, D. C., Applied- Experimental Psychology	1984
M.A., The Catholic University of America, Washington, D. C., Applied- Experimental Psychology	1982
A.B., Ohio University, Athens, Ohio, Psychology, <i>cum laude</i>	1979

Awards:

A publication (Hall, Shattuck and Bennett, 2012) which received the award for the most outstanding article published in the 2012 <i>Journal of Cognitive Engineering and Decision Making</i>	2013
A publication (Bennett and Flach, 1992) which was rated as the 7th most influential paper ever published in the 50-year history of the <i>Human Factors Journal</i> .	2008
Elected as a Fellow of the <i>Human Factors and Ergonomics Society</i>	2004
A publication (Bennett, Toms, & Woods, 1993) which received the Human Factors and Ergonomics Society's <i>Jerome H. Ely Award</i> for the most outstanding article published in the 1993 <i>Human Factors Journal</i> .	1994
A publication (Bennett, Bryant & Sushereba, 2018) which was a finalist for the Human Factors and Ergonomics Society's <i>2017 Human Factors Prize for Excellence in Human Factors/Ergonomics Research: Cyber Security</i> .	2018
Fellow, University of Canterbury Visiting Erskine Fellowship Program University of Canterbury, Christchurch, New Zealand	2015
Finalist, Fulbright Distinguished Chair in Advanced Science and Technology (Australian DSTO)	2014

Fellow, Summer Faculty Fellowship Program, Air Force Office of Scientific Research	2013
Senior Research Associate, National Research Council / Air Force Office of Scientific Research	1998
Senior Research Associate, National Research Council / Air Force Office of Scientific Research	1997
SFRP Fellow, Air Force Office of Scientific Research	1995
SFRP Fellow, Air Force Office of Scientific Research	1989
Post-Doctoral Fellow, Office of Naval Technology	1984 - 1985
Board of Trustees Scholarship, The Catholic University of America	1981 - 1984
Achievement Scholarship, Ohio University	1975 - 1979
Nominated anonymously and selected for inclusion in <i>Who's Who in the World</i>	2017
<i>Who's Who Among America's Teachers</i>	2005

Professional Experience:

Professor, Wright State University	2003 - present
Human Factors Area Leader, Wright State University	2010 - 2013
Graduate Program Director, Wright State University	2003 - 2007
Associate Professor, Wright State University	1994 - 2003
Human Factors Area Leader, Wright State University	1995 - 1997
Assistant Professor, Wright State University	1988 - 1994
Senior Psychologist, Westinghouse Electric Corporation	1985 - 1988
Post-Doctoral Fellow, Office of Naval Technology	1984 - 1985
Research Associate, Advanced Resource Development Corporation	1984
Research Assistant, The Catholic University of America	1981 - 1984
Technical Assistant, General Physics Corporation	1981
Research Assistant, Andrulis Research Corporation	1980
Research Assistant & Resident Volunteer Athens Mental Health and Retardation Center	1978 - 1979
Group Home Worker, Havar, Inc.	1978 - 1979
Research Assistant, Ohio University	1978
Crisis Hotline Worker	1975 - 1976

Research Interests:

Cognitive Systems Engineering, Ecological Display and Interface Design, Cyber Security/Warfare (Computer Network Defense and Attack), Perception / Action / Cognition.

Publications

Books:

Bennett, K. B. and Flach, J. M. (2011). *Display and Interface Design: Subtle Science, Exact Art*. Boca Raton, FL: CRC Press

Journal Articles (graduate student authors listed in bold):

Sushereba, C., Bennett, K. B., & Bryant, A. (2020). Visual displays for cyber network defense. *Ergonomics*, 63(2), 191-209.

Bennett, K. B., and Flach, J. M. (2019). Ecological Interface Design: Thirty-plus Years of Refinement, Progress and Potential. *The Human Factors Journal*, 61(4), 513-525.

Sherwood, M. S., Parker, J. G., Diller, E. E., Ganapathy, S., Bennett, K. B., Nelson, J. T. (2019). Self-directed down-regulation of auditory cortex activity mediated by real-time fMRI neurofeedback augments attentional processes, resting cerebral perfusion, and auditory activation. *NeuroImage*, 195, 475-489.

Sherwood, M. S., Parker, J. G., Diller, E. E., Ganapathy, S., Bennett, K. B., Nelson, J. T. (2018). Volitional down-regulation of the primary auditory cortex via directed attention mediated by real-time fMRI neurofeedback. *AIMS Neuroscience*, 5(3), 179-199.

Bennett, K. B., Bryant, A., and **Sushereba, C.** (2018). Ecological interface design for computer network defense. *The Human Factors Journal*, 60(5), 610-625.

Fox, O., Harel, A., and Bennett, K. B. (2017). How configural is the configural superiority effect? A neuroimaging investigation of emergent features in visual cortex. *Frontiers in Psychology*, 8(32). doi:10.3389/fpsyg.2017.00032

Bennett, K. B. (2017). Ecological interface design and system safety: One facet of Rasmussen's legacy. *Applied Ergonomics*, 59, 625-636. (Special Issue: Reflecting on the legacy of Jens Rasmussen.)

Bennett, K. B., & Hoffman, R. R. (2015). Principles for interaction design, part 3: Spanning the creativity gap. *IEEE: Intelligent Systems*, 30(6), 82-91.

Holt, J., Bennett, K. B., and Flach, J. M. (2015). Emergent features and perceptual objects: Re-examining fundamental principles in analogical display design. *Ergonomics*, 58(12), 1960-1973.

- Bennett, K. B. and Flach, J. M. (2012). Visual momentum redux. *International Journal of Human Computer Studies*, 70, 399-414.
- Hall, D. S.**, Shattuck, L. G., and Bennett, K. B. (2012). Evaluation of an ecological interface design for military command and control. *Journal of Cognitive Engineering and Decision Making*, 6(2), 165-193.
- Bennett, K. B., **Posey, S. M.**, and Shattuck, L. G. (2008). Ecological interface design for military command and control. *Journal of Cognitive Engineering and Decision Making*, 2(4), 349-385.
- Bennett, K. B., and Flach, J. M. (2008). Graphical displays: Implications for divided attention, focused attention, and problem solving. In N. Cooke and E. Salas (Eds.), *Best of Human Factors: Thirty Classic Contributions to Human Factors/Ergonomics Science and Engineering* (pp. 197-217). Santa Monica, CA: Human Factors and Ergonomics Society.
- Talcott, C.P.**, Bennett, K.B., **Martinez, S.G.**, Shattuck, L, and **Stansifer, C.** (2007) Perception-action icons: An interface design strategy for intermediate domains. *Human Factors*, 49(1), 120-135.
- Bennett, K. B., **Payne, M., and Walters, B.** (2005). An evaluation of a "time tunnel" display format for the presentation of temporal information. *Human Factors*, 47(2), 342-359.
- Bennett, K. B., and Fritz, H. I. (2005). Objects and mappings: Incompatible principles of display design -- A critique of Marino and Mahan. *Human Factors*, 47(1), 131-137.
- Calcaterra, J. A.**, and Bennett, K.B. (2003). The placement of digital values in configural displays. *Displays*, 24(2), 85-96.
- Bennett, K. B., and **Walters, B.** (2001). Configural display design techniques considered at multiple levels of evaluation. *Human Factors*, 43(3), 415-434.
- Bennett, K. B. and **Zimmerman, J.** (2001). A preliminary investigation of the time tunnels display design technique. *Displays*, 22(5), 183-199.
- Bennett, K.B., Cress, J.D., Hettinger, L.J., Stautberg, D., and Haas, M.W. (2001). A theoretical analysis and preliminary investigation of dynamically adaptive interfaces. *International Journal of Aviation Psychology*, 11(2), 169-195.
- Bennett, K. B., **Malek, D.A.**, and Woods, D.D. (2000). Misinterpretation considered more globally: A response to Vicente & Ethier. *Human Factors*, 42(3), 455-457.
- Bennett, K. B., and **Malek, D.A.** (2000). Evaluation of alternative waveforms for animated mimic displays. *Human Factors*, 42(3), 432-450.
- Bennett, K. B., **Payne, M., Calcaterra, J. and Nittoli, B.** (2000). An empirical comparison of alternative methodologies for the evaluation of configural displays. *Human Factors*, 42(2), 287-298.

- Bennett, K. B., and Nagy, A. L. (1996). Spatial and temporal considerations in animated mimic displays. *Displays*, 17(1), 1-14.
- Bennett, K. B., and **Madigan, E.** (1994). Contours and borders in animated mimic displays. *International Journal of Human-Computer Interaction*, 6(1), 47-64.
- Bennett, K. B. (1993). Encoding apparent motion in animated mimic displays. *Human Factors*, 35(4), 673-691
- Bennett, K. B., **Toms, M. L.**, and Woods, D. D. (1993). Emergent features and configural elements: Designing more effective configural displays. *Human Factors*, 35(1), 71-97.
- Bennett, K. B., and Flach, J. M. (1992). Graphical displays: Implications for divided attention, focused attention, and problem solving. *Human Factors*, 34(5), 513-533.
- Bennett, K. B. (1992). Representation aiding: Complementary decision support for a complex, dynamic control task. *IEEE Control Systems*, 12(4), 19-24.
- Roth, E. M., Bennett, K. B., & Woods, D. D. (1987). Human interaction with an 'intelligent' machine. *International Journal of Man-Machine Studies*, 27, 479- 525.
- Bennett, K. B., Parasuraman, R., Howard, J. H., Jr., & O'Toole, A. J. (1984). Auditory induction of discrete tones in signal detection tasks. *Perception & Psychophysics*, 35(6), 570-578.
- Howard, J. H., Jr., O'Toole, A. J., Parasuraman, R., & Bennett, K. B. (1984). Pattern-directed attention in uncertain frequency detection. *Perception & Psychophysics*, 35(3), 256-264.

Book Chapters:

- Flach, J. M., and Bennett, K. B. (In Press). *Subsidiarity and polycentric control: Implications for interface design*. In M. McNeese, E. Salas and M. Endsley (Eds.), *Handbook of Distributed Team Cognition*. Boca Raton, FL: CRC Press.
- Flach, J. M., and Bennett, K. B. (2019). *Why Representations Matter: Designing to Support Productive Thinking*. In M. Mouloua and P. Hancock (Eds.), *Automation and Human Performance: Theory and Application* (2nd Ed., pp. 69-83). Boca Raton, FL: CRC Press.
- Flach, J. M., and Bennett, K. B. (2017). *Improving sensemaking through the design of representations*. In Phillip Smith and R. R. Hoffman (Eds.), *Cognitive Systems Engineering: A Future for a Changing World* (pp. 165-180). Surrey, UK: Ashgate.

- Bennett, K. B., Flach, J. M., **McEwen, T. R.**, and **Fox, O.** (2015). *Enhancing Creative Problem Solving Through Visual Display Design*. In D. Boehm-Davis, F. Durso, and J. Lee (Eds.), *APA Handbook of Human-Systems Integration* (pp. 419-433). *APA Handbooks in Psychology*. Washington, DC: American Psychological Association.
- Bennett, K. B., Flach, J. M., **Edman, C.**, **Holt, J.**, and **Lee, P.** (2015). *Ecological Interface Design: A Selective Overview*. In R. R. Hoffman, P. A. Hancock, M. Scerbo, R. Parasuraman, and J. L. Szalma (Eds.), *The Handbook of Applied Perception Research* (pp. 669-691). New York, NY: Cambridge University Press.
- Flach, J. M., Bennett, K. B., Woods, D. D., and Jagacinski, R. (2015). *Interface Design: A Control Theoretic Context for a Triadic Meaning Processing Approach*. In R. R. Hoffman, P. A. Hancock, M. Scerbo, R. Parasuraman, and J. L. Szalma (Eds.), *The Handbook of Applied Perception Research* (pp. 647-668). New York, NY: Cambridge University Press.
- Bennett, K. B. and Flach, J. M. (2013). *Configural and pictorial displays*. In J. D. Lee and A. Kirlik (Eds.), *The Oxford Handbook of Cognitive Engineering* (pp. 517-533). New York, NY: Oxford University Press.
- Flach, J. M., Bennett, K. B., Jagacinski, R., Mulder, M., and van Paassen, R. (2013). *The closed-loop dynamics of cognitive work*. In J. D. Lee and A. Kirlik (Eds.), *The Oxford Handbook of Cognitive Engineering* (pp. 19-35). New York, NY: Oxford University Press.
- Bennett, K. B., Nagy, A. L., and Flach, J. M. (2012). Visual displays. In G. Salvendy (Ed.), *Handbook of Human Factors and Ergonomics* (4th ed., pp. 1179-1208). New York, NY: John Wiley & Sons.
- Flach, J. M., Bennett, K. B., Stappers, P.J., and Saakes, D.P. (2011). An ecological perspective to meaning processing: The dynamics of abductive systems. In R. Proctor & K.L. Vu (Eds.), *Handbook of Human Factors in Web Design* (2nd Ed., pp. 509-526). Boca Raton, FL: CRC Press.
- Bennett, K. B., and **Posey, S. M.** (2009). *Human-computer interface design*. McGraw-Hill Yearbook of Science & Technology (pp. 161-164). New York, NY: McGraw-Hill.
- Bennett, K. B., and L. G. Shattuck. (2009). Advancing the state-of-the-art in military command & control interfaces: Ecological interface design. In P. McDermott & L. Allender (Eds.), *Advanced Decision Architectures for the Warfighter: Foundation and Technology* (pp. 123-142). Boulder, CO: Partners of the Army Research Laboratories Advanced Decision Architectures Collaborative Technology Alliance.
- Bennett, K. B., Nagy, A. L., and Flach, J. M. (2006). Visual displays. In G. Salvendy (Ed.), *Handbook of Human Factors and Ergonomics* (3rd ed., pp. 1191-1221). New York, NY: John Wiley & Sons.

- Smith, P. J., Bennett, K. B., and Stone, R.B. (2006). Representation aiding to support performance on problem solving tasks. R. C. Williges (Ed.), *Review of Human Factors and Ergonomics* (Vol. 2, pp. 74-108). Santa Monica, CA: Human Factors and Ergonomics Society.
- Flach, J. M., Bennett, K. B., Stappers, P.J., and Saakes, D.P. (2005). Searching for meaning in complex databases: An ecological perspective. In R. Proctor & K.L. Vu (Eds.), *Handbook of Human Factors in Web Design* (pp. 408-423). Mahwah, N.J.: Lawrence Erlbaum Associates.
- Bennett, K. B., Nagy, A. L., and Flach, J. M. (1997). Visual displays. In G. Salvendy (Ed.), *Handbook of Human Factors and Ergonomics* (2nd ed., pp. 659-696). New York, NY: John Wiley & Sons.
- Flach, J. M, and Bennett, K. B. (1996). A theoretical framework for representational design. In R. Parasuraman and M. Mouloua (Eds.), *Automation and Human Performance: Theory and Application* (pp. 65-87). Mahwah, N.J.: Lawrence Erlbaum Associates.
- Flach, J. M. and Bennett, K. B. (1995). Graphical interfaces to complex systems: Separating the wheat from the chaff. In G. Perlman, G.K. Green, & M. S. Wogalter (Eds.) *Human factors perspectives on Human-Computer Interaction: Selections from Human Factors and Ergonomics Society Annual Meetings Proceedings, 1983-1994*. (pp. 301-305). Santa Monica, CA: Human Factors Society. Reprinted from *Proceedings of the Human Factors Society 36th Annual Meeting*. Santa Monica, CA: Human Factors Society (pp. 470-474).
- Bennett, K. B. and Flach, J. M. (1994). When automation fails.... In M. Mouloua and R. Parasuraman (Eds.), *Human Performance in Automated Systems: Current Research and Trends* (pp. 229-234). Hillsdale, N.J.: Lawrence Erlbaum Associates.
- Bennett, K. B. (1992). The use of on-line guidance, graphic displays, and discovery learning to improve the effectiveness of simulation training. In W. Reigan and V. Shute (Eds.), *Cognitive Approaches to Automated Instruction* (pp. 217- 244). Hillsdale, N.J.: Lawrence Earlbaum Associates.
- Woods, D. D., Roth, E. M., & Bennett, K. B. (1990). Explorations in joint human- machine cognitive systems. In S. Robertson, W. Zachary, & J. Black (Eds.), *Cognition, Computation, and Cooperation* (pp. 123-158). Norwood, N.J.: Ablex Publishing Corp.
- Roth, E. M., Bennett, K. B., & Woods, D. D. (1988). Human interaction with an 'intelligent' machine. In E. Hollnagel, G. Mancini, & D. D. Woods, (Eds.), *Cognitive Engineering in Complex Dynamic Worlds* (pp. 23-69). London, England: Academic Press.
- Bennett, K. B., Parasuraman, R., & Howard, J. H., Jr. (1984). Mental models in interface design: The role of graphic displays. In Anil Mital (Ed.), *Advances in*

Ergonomics/Human Factors (Vol. 1, pp. 113-118). Amsterdam: North-Holland.

Patent Application:

Bennett, K. B., Shattuck, L., Talcott, C., & Martinez, S. (2007). Graphical user interface using perception-action icons and a method thereof: US Patent Application. 11/669,501.

Trade Publications:

Bennett, K. B., Endsley, M. R., Howell, W. C., Lee, J. D., and Shattuck L. G. (2003). HFES accreditation of undergraduate programs. *Human Factors and Ergonomics Society Bulletin*, 46(9), 4-6.

Workshops:

Bennett, K. B., and Gilkey, R. *Perception, Action and Cognition in Situated Activity: The Legacy of John Flach* (May, 2017). Department of Psychology. Wright State University, Dayton, OH.

Flach, J. M., & Bennett, K. B. (2010, September). *Cognitive Systems Engineering and Ecological Interface Design*. INCOSE Orlando (International Council on Systems Engineering). Orlando, FL.

Invited Presentations (graduate student authors listed in bold):

Bennett, K. B. (2016, October). Brown Bag Speaker. *Sabbatical in New Zealand; Cyber Security and Related Work*. Department of Psychology. Wright State University, Dayton, OH.

Fox, O., Bennett, K. B. (2015, November). *Six degrees of separation: Assessing emergent features in a continuous and neural context*. The Configural Processing Consortium (CPC). Northwestern University, Chicago, IL.

Bennett, K. B. (2015, September). *Cognitive systems engineering*. Human Interface Technology (HIT) Laboratory, University of Canterbury, Christchurch, NZ.

- Bennett, K. B.(2015, September). *Postcards From the Edge: Where “Training in the Lab” Comes Face-to-Face With “Cognition in the Wild”*. Department of Psychology, University of Canterbury, Christchurch, NZ.
- Bennett, K. B. (2014, October). Member, Panel on Interface design. *Ecological interface design: Military C2 and computer network defense (Special Session: Ecological Interface Design: 25 years and counting)*. IEEE International Conference on Systems, Man, and Cybernetics, 2014.
- Bennett, K. B.(2014, May) An Integrated Interface for Computer Network Defense. USAF, 711 HPW/RHCPA, Battlespace Visualization Branch, WPAFB, OH.
- Bennett, K. B.(2014, May) VEILS (Versatile Ecological Interface for Lockdown network Security). *Proceedings of the 4th Midwestern Cognitive Science Conference*. Dayton, OH: Wright State University.
- Bennett, K.B. (2014, January). *VEILS software for potential integration*. Wright State Research Institute / Advrotech LLC, Wright State University, Dayton, OH.
- Bennett, K. B. (2013, October). Fellows Poster Presentation. *Display and Interface Design as a Form of Decision Making and Problem Solving Support: Embracing and Advancing Cognitive Systems Engineering (CSE) / Ecological Interface Design (EID)*. Human Factors and Ergonomics Society 57th Annual Meeting, San Diego, CA.
- Bennett, K. B. (2013, July). Subject Matter Expert. *Human Performance Track (Cognitive States and Augmented Cognition)*. The Wright Dialogue with Industry. Air Force Research Laboratories / Dayton Area Defense Contractors. WPAFB, OH.
- Bennett, K. B. (2013, July). AFRL Branch Tech Talk. *VEILS: An Ecological Interface for Computer Network Defense*. USAF, 711 HPW/RHCPA, WPAFB, OH.
- Bennett, K. B. (2013, April). Member, Panel on Autonomy. Insights on Autonomy: Implications for Interface Design. *Ohio Unmanned Aircraft Systems (UAS) Conference*. Association for Unmanned Vehicle Systems International; Dayton Development Coalition, Dayton, OH.
- Bennett, K. B. (2013, April). Colloquium Speaker. *Human factors in cyber operations: A CSE / EID approach*. Department of Psychology, San Jose State University, San Jose, CA.
- Bennett, K. B. (2012, February). Colloquium Speaker. *A Framework for Applied Cognitive Systems: Concepts, Principles & Implementation*. Department of Psychology, University of Dayton, OH.
- Bennett, K. B. (2012, October). Brown Bag Speaker. *RAPTOR: An advanced command and control interface*. Department of Psychology, Wright State University, Dayton, OH.

- Bennett, K. B. (2011, October). *Ecological Interface Design*. Wright Brothers Day: A Celebration of the Wright Brothers. Wright State Chapter of the American Marketing Association, Wright State University. Dayton, OH.
- Bennett, K. B., Kidambi, P., Parker, J. and Zalusky, E. (2011, September). *Characterization of the Unique Physiological Signatures of Performance in Realistic, Complex Multitasking Environments*. First Annual IMIGD (Biomedical Imaging in Greater Dayton) Conference. Engineer's Club of Dayton. Dayton, OH.
- Bennett, K. B. (2011, September). *The Human Factors / Industrial Organizational Ph.D. Program in Psychology*. GRAD-PREP (Biomedical Graduate Preparation Program) Ph.D. program overview. Boonshoft School of Medicine, Wright State University. Dayton, OH.
- Holt, J.**, Bennett, K. B., Flach, J. M. (2011, August). Invited Presentation. *Ambiguity and Content Mapping Among Display Types*. Human Factors and Ergonomics Society, Southeastern Ohio Chapter. Dayton, OH.
- Bennett, K. B. (2011, July). *Cognitive Systems Engineering*. AFRL/RZ Wright Scholar Program Summer Tour. College of Science and Mathematics, Wright State University. Dayton, OH.
- Bennett, K. B. (2011, February). Colloquium Speaker. *EID Illustrated*. Department of Psychology, University of Central Florida. Orlando, FL.
- Bennett, K. B. (2011, January). Brown Bag Speaker. *Ecological Interface Design & Evaluation For Military C2 Work Domain*. Department of Psychology, Wright State University. Dayton, OH.
- Flach, J. M., & Bennett, K. B. (2010, September). Invited Speakers. *Cognitive Systems Engineering and the Dynamic Interactions Between Humans, Technology, and Work Domains*. INCOSE Orlando (International Council on Systems Engineering). Orlando, FL.
- Bennett, K.B. (2010, February). *Visual Momentum in the Interface*. WSU Human Factors and Ergonomics Student Chapter, Wright State University, Dayton, OH.
- Bennett, K.B. (2009, July). *Advancing the State-of-the-Art in Military Command & Control Interfaces: Ecological Interface Design*. Army Research Laboratories Advance Decision Architectures Final RMB Meeting and Workshop: Supporting the Soldier-Decision Maker. Washington, DC.
- Bennett, K.B. (2009, June). *Advancing the State-of-the-Art in Military Command & Control Interfaces*. Klein Associates, Fairborn, OH.
- Bennett, K.B. (2009, May). *Neuroergonomics of Sensemaking: Neural States and Performance Outcomes*. Collaborative Technology Alliance, Cognition and Neuroergonomics proposal feedback, U. S. Army Research Laboratory, Arlington, VA.

- Bennett, K.B. (2009, January). *Visualization Techniques to Support Military Tactical Operations*. Pioneers of Aviation Documentary Initiative, Wright State University Development, Fairborn, OH.
- Bennett, K.B. (2008, June). *RAPTOR (Representation Aiding Portrayal of Tactical Operations Resources)*. Top Corona. United States Air Force, Dayton Development Coalition and Wright State University. Fairborn, OH.
- Bennett, K.B. (2008, February). *Expanding the RAPTOR R&D Environment*. Army Research Laboratories Advance Decision Architectures FY09 Planning and RMB Meeting. Westminster, CO.
- Bennett, K. B. (2007, June). *Representation Aiding: Process Control Displays*. Center for Operator Performance, Wright State University, Dayton, OH.
- Bennett, K. B. (2006, April). *Display and Interface Design: Process Control*. Human Operator Performance Forum (sponsored by WSU Biomedical, Industrial, and Human Factors Engineering Department). Dayton, OH.
- Bennett, K. B. (2006, May). Invited Speaker. *Representation Aiding - Human-Centered Design for Process Control Systems*. Columbus, OH: Industrial and Systems Engineering Program, The Ohio State University.
- Bennett, K. B. (2005, February). Invited Speaker. *Interface Design: A Cognitive Systems Engineering Perspective*. Pensacola, FL: Institute for Human and Machine Cognition.
- Bennett, K. B. (2005, January). Invited Speaker. *Interface Design: A Cognitive Systems Engineering Perspective*. Dayton, OH: Human Factors and Ergonomics Society, Southeastern Ohio Chapter.
- Bennett, K.B. (2004, November). Invited speaker: *Interface Design: A Cognitive Systems Engineering Perspective*, Workshop on Scalable Interfaces for Air and Ground Military Robots, National Academy of Sciences. Washington, DC.
- Bennett, K.B. (2003, June). Subject matter expert (panel member): *Workshop on Decision Support Systems*, Air Force Office of Scientific Research. Fairfax, VA.
- Bennett, K.B. (2002, Oct.). Invited speaker: *Behind the Curtain: The Cognitive Tasks Behind the Visualizations (Representational Types for Effective Visualization Design)*, Human Factors and Ergonomics Society's 46th Annual Meeting. Baltimore, MD.
- Bennett, K. B. (1998, Sept.). Invited session: *Assessing the State of the Art in Integrated displays*, Human Factors and Ergonomics Society 42nd Annual Meeting. Chicago, IL.
- Bennett, K. B. (1998, March). Invited speaker: *Advanced Displays*. HICS '98: 4th Annual Symposium on Human Interaction with Complex Systems. Dayton, OH: IEEE Computer Society.

- Bennett, K. B. (1998, Sept.). Invited speaker: *Bread, Butter, or Spinach? (or Alternatively, You Mean to Tell Me that the Methodology I Use Can Really Make that Much of a Difference?)*, Bi-Monthly meeting of the Southern Ohio Chapter of the Human Factors and Ergonomics Society. Dayton, OH.
- Bennett, K. B. (1991, Oct.). Invited session: *Representation Aiding II*, 1991 IEEE International Conference on Systems, Man, and Cybernetics. Charlottesville, VA.
- Bennett, K. B. (1990, July). Invited speaker: *The Use of On-Line Guidance, Graphic Displays, and Discovery Learning to Improve the Effectiveness of Simulation Training*. Air Force Human Resources Laboratory (ID, MO, and LR) Cognitive Skill Acquisition Workshop. San Antonio, TX.
- Bennett, K. B. (1988, Nov.). Invited speaker: *Representation Aiding*. Bi-Monthly meeting of the Southern Ohio Chapter of the Human Factors and Ergonomics Society. Dayton, OH.

Conference Proceedings (graduate student authors listed in bold):

- Sherwood, M. S., Diller, E. E., Ganapathy, S., Bennett, K. B., Nelson, J. T., Parker, J. G. (November, 2018) *Cerebral perfusion is altered by real-time fMRI neurofeedback-directed self-regulation of the primary auditory cortex*. Radiological Society of North America 104th Scientific Assembly and Annual Meeting, November 28, 2018, Chicago, Illinois.
- Sherwood, M. S., Diller, E. E., Ganapathy, S., Bennett, K. B., Nelson, J. T., Parker, J. G. (August, 2018) *Alternative tinnitus management techniques developed from volitional control over the activity of the auditory cortex*. 2018 Military Health System Research Symposium (MHSRS) breakout session, "Blast-induced Tinnitus," 20–23 August 2018, Kissimmee, Florida
- Sherwood, M. S., Diller, E. E., Ganapathy, S., Bennett, K. B., Nelson, J. T., Parker, J. G. (June, 2017). *Self-regulation of primary auditory cortex activity via directed attention mediated by real-time fMRI neurofeedback is related to attentional control processes*. Annual Meeting of the Society for Neuroscience, Washington, D.C.
- Bennett, K. B. (May, 2017). Twenty Seven Years of Collaboration (Time Flies When You Are Having Fun). *Perception, Action and Cognition in Situated Activity: The Legacy of John Flach (a one-day workshop celebrating the research and career of John M. Flach)*. Department of Psychology. Wright State University, Dayton, OH.
- Hutton, R., Blackford, H., Jones, N., Fisher, A., & Bennett, K.B. (April, 2017). *Challenging the Limits of Cognitive Systems Engineering and Ecological In-*

terface Design: Commander's Cyber Situational Awareness. *IEHF Annual Conference*, Daventry, UK: IEHF.

- Hutton, R., Blackford, H., Bennett, K., Jones, N., & Fisher, A. (2017). Challenging the limits of cognitive systems engineering and ecological interface design: Commander's cyber situational awareness. In R. Charles & J. Wilkinson (Eds.), *Contemporary Ergonomics and Human Factors 2017*. Loughborough, UK: Chartered Institute of Ergonomics & Human Factors.
- Fox, O.**, Harel, A., and Bennett, K. B. (November, 2016). *Examining the Extent of Configurality in Visual Cortex: Behavioral and Neuroimaging Evidence of the Configural Superiority Effect*. Annual Meeting of the Society for Neuroscience, San Diego, CA.
- Bennett, K. B.(2014) VEILS (Versatile Ecological Interface for Lockdown network Security). *Proceedings of the 4th Midwestern Cognitive Science Conference* (p. 82). Dayton, OH: Wright State University.
- Bennett, K. B.(2014) VEILS: An Ecological Interface for Computer Network Defense. *Proceedings of the Human Factors and Ergonomics Society 58th Annual Meeting* (pp. 1233-1238). Santa Monica, CA: Human Factors and Ergonomics Society.
- Bennett, K. B. (2014). Ecological interface design: Military C2 and computer network defense (Special Session: Ecological Interface Design: 25 years and counting). In *Proceedings of the IEEE International Conference on Systems, Man, and Cybernetics* (pp. 347-352), 2014, San Diego, CA.
- Mersch, E., Fox, O., Leonard, J., Flach, J. M., Bennett, K. B., and Holt, J.** (2013) Mitigation of the Confirmation Bias Using a Game-Based Trainer. *Proceedings of the Human Factors and Ergonomics Society 57th Annual Meeting* (pp. 1475-1479). Santa Monica, CA: Human Factors and Ergonomics Society.
- Knott, B. A., Mancuso, V. F., Bennett, K. B., Finomore, V., McNeese, M., McKneely, J. A., and Beecher, M. (2013). *Human Factors in Cyber Warfare: Alternative Perspectives*. *Proceedings of the Human Factors and Ergonomics Society 57th Annual Meeting* (pp. 399-403). Santa Monica, CA: Human Factors and Ergonomics Society.
- Holt, J.**, Bennett, K. B., and Flach, J. M. (2011). *Ambiguity and content mapping among display types*. *Proceedings of the Human Factors and Ergonomics Society 55th Annual Meeting* (pp. 390-393). Santa Monica, CA: Human Factors and Ergonomics Society.
- Hall, D. S.**, Shattuck, L. G., and Bennett, K. B. (2010). *Evaluation of an ecological interface designed for military command and control*. *Proceedings of the Human Factors and Ergonomics Society 54th Annual Meeting* (pp. 423-427). Santa Monica, CA: Human Factors and Ergonomics Society.

- Bennett, K.B., and Shattuck, L. (2005). Advanced interfaces to support continuous planning and re-planning during tactical operations. *Proceedings of the Human Factors and Ergonomics Society 49th Annual Meeting* (pp. 724-727). Santa Monica, CA: Human Factors and Ergonomics Society.
- Bennett, K.B. (2005). Interface design: A cognitive systems engineering perspective. *Interfaces for ground and air military robots: Workshop summary*. (pp. 13-15). Washington, DC: The National Academies Press.
- Bennett, K.B., **Behymer, K., Stansifer, C., Shattuck, L., Talcott, C.P., and Martinez, S.G.** (2003). Interface design for mobile Army commanders. *Proceedings of the Human Factors and Ergonomics Society 47th Annual Meeting* (pp. 625-629). Santa Monica, CA: Human Factors and Ergonomics Society.
- Shattuck, L. G., Bennett, K.B. (2003). Aiding decision making with plan execution displays, *Proceedings of the Human Factors in Decision Making Conference*. Scotland.
- Elm, W. C., Woods, D. D., Bennett, K. B., Bisantz, A., Eggleston, R., Mitchell, C. (2002). Behind the curtain: The cognitive tasks behind the visualizations. *Proceedings of the Human Factors and Ergonomics Society 46th Annual Meeting* (pp. 285-288). Santa Monica, CA: Human Factors and Ergonomics Society.
- Bennett, K.B., **Payne, M., Walters, B., and Zimmerman, J.** (2001). Evaluation of the "time tunnel" display design technique. *Proceedings of the Human Factors and Ergonomics Society 45th Annual Meeting* (pp. 1338-1342). Santa Monica, CA: Human Factors and Ergonomics Society.
- Martinez, S.G.,** Bennett, K.B., **Talcott, C.P., Stansifer, C.,** and Shattuck, L. (2001). Cognitive systems engineering analyses for Army tactical operations. *Proceedings of the Human Factors and Ergonomics Society 45th Annual Meeting* (pp. 523-526). Santa Monica, CA: Human Factors and Ergonomics Society.
- Talcott, C.P.,** Bennett, K.B., **Martinez, S.G., Stansifer, C.,** and Shattuck, L. (2001). An empirical evaluation of interfaces for Army tactical operations. *Proceedings of the Human Factors and Ergonomics Society 45th Annual Meeting* (pp. 1343-1347). Santa Monica, CA: Human Factors and Ergonomics Society.
- Stansifer, C.,** Bennett, K.B., **Talcott, C.P., Martinez, S.G.,** and Shattuck, L. (2001). Digital interfaces for Army tactical operations. *Proceedings of the Human Factors and Ergonomics Society 45th Annual Meeting* (p. 748). Santa Monica, CA: Human Factors and Ergonomics Society.
- Martinez, S. G.,** Bennett, K. B., **Talcott, C., Stansifer, C.** and Shattuck, L. (2001). Graphical decision support for Army TOCs I: Cognitive systems engineering analyses. In *Proceedings of the ARL Federated Laboratory 5th Annual Symposium* (pp. 189-192). Adelphi, MD: U.S. Army Research Laboratory.

- Talcott, C., Bennett, K. B., Martinez, S. G., Stansifer, C.** and Shattuck, L. (2001). Graphical decision support for Army TOCs II: Maneuver control system symbology. In *Proceedings of the ARL Federated Laboratory 5th Annual Symposium* (pp. 193-197). Adelphi, MD: U.S. Army Research Laboratory.
- Bennett, K. B. (1998). Assessing the state of the art in integrated displays. In *Proceedings of the Human Factors and Ergonomics Society 42nd Annual Meeting* (p. 401). Santa Monica, CA: Human Factors and Ergonomics Society.
- Bennett, K. B., **Nittoli, B., and Walters, B.** (1996). Design techniques to offset potential costs in configural displays. In *Proceedings of the Human Factors and Ergonomics Society 40th Annual Meeting* (pp. 1165-1169). Santa Monica, CA: Human Factors and Ergonomics Society.
- Bennett, K. B. (1994). Animated mimic displays. In *Proceedings of the Human Factors and Ergonomics Society 38th Annual Meeting* (pp. 1341-1345). Santa Monica, CA: Human Factors and Ergonomics Society.
- Flach, J. M. and Bennett, K. B. (1992). Graphical interfaces to complex systems: Separating the wheat from the chaff. In *Proceedings of the Human Factors Society 36th Annual Meeting* (pp. 470-474). Santa Monica, CA: Human Factors Society.
- Bennett, K. B., and **Toms, M. L.** (1991). Improving the effectiveness of configural displays through mapped emergent features and color-coded graphical elements. In *Proceedings of the Human Factors Society 35th Annual Meeting* (pp. 1584-1588). Santa Monica, CA: Human Factors Society.
- Bennett, K. B. (1991). Representational aiding for a complex, dynamic control task. In *Proceedings of the 1991 IEEE International Conference on Systems, Man, and Cybernetics*. (pp. 1207-1212). New York, NY: IEEE.
- Bennett, K. B. (1991). Ecological psychology: An alternative perspective for Human Factors Design (Case 2: Feedwater control: Visualizing abstract function). In *Proceedings of INTERFACE 91* (pp. 255-256). Santa Monica, CA: Human Factors Society.
- Tomasi, L. T., Bennett, K. B., and Brune, R. L. (1988). Human factors improvements to technical specifications of nuclear control rooms. In *Proceedings of the IEEE Fourth Conference on Human Factors and Power Plants*. New York, NY: IEEE.
- Foulke, L. R., & Bennett, K. B. (1987). The concept part-task trainer: Its location in the spectrum of real-time training devices and its potential impact on training. *Proceedings of the Specialists Meeting on Training Simulators in Nuclear Power Plants*, International Atomic Energy Agency.
- Bennett, K. B., Woods, D. D., & Roth, E. M. (1986). Predictor displays for complex, dynamic tasks: A preliminary investigation. *Proceedings of the 30th Annual Meeting of the Human Factors Society* (pp. 684-688). Santa Monica, CA: Human Factors Society.

Bennett, K. B. (1985). The interaction of task and interface in the development of mental models for an acoustic database. *Proceedings of the 29th Annual Meeting of the Human Factors Society* (p. 27). Santa Monica, CA: Human Factors Society.

Bennett, K. B., Howard, J. H., Jr., & Parasuraman, R. (1984). Interface design and "mental models" of a perceptual database system. *Proceedings of the Mid-Central Ergonomics/Human Factors Conference* (pp. 77-82). Santa Monica, CA: Human Factors Society.

Poster Presentations / Software Demonstrations (graduate student authors listed in bold):

Bennett, K. B. (2014, May) *An Integrated Interface for Computer Network Defense*. Software demonstration presented at the HPW/RHCPA Battlespace Visualization Branch. USAF. WPAFB, OH.

Bennett, K. B. (2014, May) *VEILS (Versatile Ecological Interface for Lockdown network Security)*. Software demonstration presented at the 4th Midwestern Cognitive Science Conference. Wright State University. Dayton, OH.

Bennett, K.B. (2014, October, Accepted). *VEILS: An Ecological Interface for computer network defense*. Software demonstration to be presented at the Human Factors and Ergonomics Society 58th Annual Meeting.

Fox, O., Mersch, E., Bennett, K. B. (2013, April). Poster Presentation. *Six degrees of separation: Emergent features in an fMRI context*. AHEAD Neuroscience Research Showcase. Engineer's Club of Dayton. Dayton, OH.

Mersch, E., Fox, O., Bennett, K. B. (2013, April). Poster Presentation. *Physiological examination of the configural superiority effect in an fMRI setting*. AHEAD Neuroscience Research Showcase. Engineer's Club of Dayton. Dayton, OH.

Behymer, K., Simpkins, B., Bennett, K. B. and **Posey, S. M.** (2009, April). *Bridging the gap: Intelligent interface design for intelligent agents*. 15th International Symposium on Aviation Psychology, Wright State University, Dayton, OH.

Bennett, K.B. (2008, February). *Expanding the RAPTOR R&D environment*. Army Research Laboratories Advance Decision Architectures FY09 Planning and RMB Meeting. Westminster, CO.

Cone, S., Bennett, K.B., **Behymer, K.,** and Weldon, D. (2007, February). *Warfighter interfaces for coordinated tactical operational requirements (WICTOR): Phase II kick-off meeting. JXT and DARPA*. Dayton, OH.

Bennett, K.B. (2007, February). *Expanding the RAPTOR R&D environment*. Army Research Laboratories Advance Decision Architectures FY08 Planning and RMB Meeting. Westminster, CO.

- Bennett, K.B., **Posey, S.M.**, and Green, R. (2007, December). *RAPTOR: Ecological interface design ~ Tactical decision support*. Aptima, Inc. Dayton, OH.
- Bennett, K.B. (2006, February). *Expanding decision support for mobile army commanders*. . Advance Decision Architectures FY07 Planning and RMB Meeting. Westminster, CO.
- Fenton, G., Graham, J., and Bennett, K. B. (2006, March). *The use of commanders' reference to battlefield operating systems as an evaluation of military command & control systems*. 2006 Symposia on Applied Experimental Research (George Mason University). Fairfax, VA.
- Bennett, K.B., McDermott, P., Chellappa, R., and Woods, D. (2006, April). *Advanced visualization technologies* (Software demonstration). Cognitive Technology Alliances 5th Annual Conference. Washington, DC.
- Bennett, K.B. (2006, April). *RAPTOR: Decision support for army tactical operations* (software demonstration). Army Corps of Engineers. Ft. Belvoir, VA.
- Bennett, K. B., and Cone, S. (2006, June). *Coordinator user interfaces: Warfighter interfaces for coordinated tactical operational requirements (WICTOR)*. STTR Phase I final program review, Defense Advanced Research Projects Agency. Arlington, VA.
- Bennett, K.B. (2005, February). *Evaluation of a prototype interface to support mobile army commanders*. Advance Decision Architectures FY05 Planning and RMB Meeting. Westminster, CO.
- Bennett, K.B. (2005). *Human-machine interfaces for coordination decision support in tactical settings*.. Presentation and software demonstration at the DARPA COORDINATORS PI meeting, Boston, MA.
- Bennett, K.B., and Shattuck, L. (2005, September). *Advanced interfaces to support continuous planning and re-planning during tactical operations*. Software demonstration presented at the Human Factors and Ergonomics Society 49th Annual Meeting.
- Strater, L., Bennett, K.B., and Shattuck, L. (2005, June). *Presenting battlefield information about status and uncertainty*. Software demonstration presented at the Cognitive Technology Alliances 4th Annual Conference, Washington, DC.
- Bennett, K.B. (2004). Representing plan execution in a dynamic battlefield environment. Advance Decision Architectures FY05 Planning and RMB Meeting, Boulder, CO.
- Bennett, K.B. (2004). Representing plan execution in a dynamic battlefield environment. FY 04 MA&D and Wright State University Project Reviews, Boulder, CO.
- Bennett, K.B. (2004, September). Dynamic display prototype. Army Research Laboratory Advanced Decision Architecture Collaborative Technologies Alliance Research Management Board Meeting. Las Cruces, NM

- Bennett, K.B., Lewis, R., Klinger, D., and Klein, G. (2004). *Replanning and plan execution*. Software demonstration presented at the Cognitive Technology Alliances 3rd Annual Conference, Washington, DC.
- Bennett, K.B. (2003). *Representing plan execution in a dynamic battlefield environment*. Advance Decision Architectures FY05 Planning and RMB Meeting, Boulder, CO
- Stansifer, C., Bennett, K.B., Talcott, C.P., Martinez, S.G.,** and Shattuck, L. (2001). *Digital interfaces for Army tactical operations*. Software demonstration presented at the Human Factors and Ergonomics Society 45th Annual Meeting.
- Martinez, S.G., Bennett, K.B., Talcott, C.P., Stansifer, C.,** and Shattuck, L. (2001). *Cognitive systems engineering analyses for Army tactical operations*. Poster presented at the Human Factors and Ergonomics Society 45th Annual Meeting.
- Martinez, S. G., Bennett, K. B., Talcott, C., Stansifer, C.** and Shattuck, L. (2001). *Graphical decision support for Army TOCs I: Cognitive systems engineering analyses*. Poster presented at the 5th Annual Federated Laboratory Symposium.
- Talcott, C., Bennett, K. B., Martinez, S. G., Stansifer, C.** and Shattuck, L. (2001). *Graphical decision support for Army TOCs II: Maneuver control system symbology*. Poster presented at the 5th Annual Federated Laboratory Symposium.
- Bennett, K. B. (1998). *Advanced displays*. HICS '98: 4th Annual Symposium on Human Interaction with Complex Systems. Dayton, OH: IEEE Computer Society.
- Bennett, K. B., Parasuraman, R., Howard, J. H. Jr., and O'Toole, A.J. (1984). *Auditory induction in signal detection tasks*. The Annual Meeting of the Eastern Psychological Association.
- O'Toole, A. J., J. H. Howard, Jr., Parasuraman, R., and Bennett, K. B. (1984). *Pattern-directed attention in uncertain-frequency detection*. The Annual Meeting of the Eastern Psychological Association.

HFES Technical Sessions Chair:

Interaction technologies and modeling for virtual environments (Virtual Environment Technical Group). International Ergonomics Association XIVth Triennial Congress and Human Factors and Ergonomics Society 44th Annual Meeting. San Diego, CA. August, 2000.

Demonstrations I (Special Sessions). International Ergonomics Association XIVth Triennial Congress and Human Factors and Ergonomics Society 44th Annual Meeting. San Diego, CA. August, 2000.

Visual displays: Attention (Visual Performance Technical Group). Human Factors and Ergonomics Society 39th Annual Meeting. San Diego, CA. Sept., 1995.

Technical Reports:

Bennett, K. B. (2013). *Human Factors in Cyber Operations: A CSE / EID Approach*. Final report for Summer Faculty Fellowship Program submitted to Air Force Office of Scientific Research (administered by the American Society for Engineering Education).

Bennett, K.B. (2009). *Ecological interface design for the multi-modal communications (MMC) tool suite*. Final report for Faculty Research Participation Program submitted to U.S. Air Force Research Laboratory, Human Effectiveness Directorate (administered by the Oak Ridge Institute for Science and Education).

Bennett, K. B. (2007). Expanding the RAPTOR R&D environment (Technical Report 07TA3-SP1-RT4, Contract #DAAD19-01-2-0009). Collaborative Technology Alliances, Advanced Decision Architectures, U. S. Army Research Laboratory.

Bennett, K. B. (2006). *Display design to support decision making during tactical operations* (Technical Report 06TA3-SP1-RT3, Contract #DAAD19-01-2-0009). Collaborative Technology Alliances, Advanced Decision Architectures, U. S. Army Research Laboratory.

Bennett, K. B. (2006). *Human-machine interfaces for coordination decision support in tactical settings* (DARPA STTR Phase I Final Report, Contract #JXT-05-S-1001). JXT Applications Incorporated.

Bennett, K. B., and Shattuck, L (2005). *Evaluation of a prototype interface to support mobile Army commanders* (Technical Report 05TA3-SP1-RT3, Contract #DAAD19-01-2-0009). Collaborative Technology Alliances, Advanced Decision Architectures, U. S. Army Research Laboratory

Bennett, K. B., and Shattuck, L (2004). *Advanced interfaces to support continuous planning and re-planning during tactical operations*. Collaborative Technology Alliances, Advanced Decision Architectures, U. S. Army Research Laboratory

Lewis, R., Klein, G., Klinger, D., Thunholm, P. Bennett, K. B., Smith, P., and Obradovich, J. (2004). *Preliminary account of replanning in the Army unit of action command post*. Collaborative Technology Alliances, Advanced Decision Architectures, U. S. Army Research Laboratory

- Bennett, K. B. (1997). *Dynamically adaptive interfaces: A preliminary investigation* (AL/CF-SR-1997-0007). Air Force Research Laboratory: WPAFB, OH.
- Bennett, K. B. (1987). *Graphic, computer-based training courseware for a training and interactive maintenance system* (Technical Report 87-7-G10-SERVC-R1). Westinghouse Research & Development Center.
- Bennett, K. B. (1987). *Advanced authoring systems and courseware design* (Technical Report 87-7-5C60-CATAM-R1). Westinghouse Research & Development Center.
- Foulke, L. R., & Bennett, K. B. (1987). *The concept part-task trainer: Its location in the spectrum of real-time training devices and its potential impact on training* (Technical Report 87-1C60-HUSCI-P8). Westinghouse Research & Development Center.
- Roth, E. M., Bennett, K. B., & Woods, D. D. (1987). *Human interaction with an 'intelligent' machine* (Technical Report 87-1C60-HUSCI-R5). Westinghouse Research & Development Center.
- Bennett, K. B., Woods, D. D., & Gallagher, J. M. (1987). *The supervisory center: A means to deliver knowledge to the senior reactor operator during emergency response* (Technical Report 87-1C60-COGIN-R1). Westinghouse Research & Development Center.
- Woods, D. D., Roth, E. M., & Bennett, K. B. (1986). *Explorations in joint human-machine cognitive systems* (Technical Report 86-1C60-HUSCI-P5). Westinghouse Research & Development Center.
- Bennett, K. B., Woods, D. D., & Roth, E. M. (1986). *Predictor displays for complex, dynamic tasks: A preliminary investigation* (Technical Report 86-1C60-HUSCI-P4). Westinghouse Research & Development Center.
- Bennett, K. B., & Hoecker, D. G. (1986). *Improved technical specifications for Westinghouse Nuclear Power Plants, Volume II: User requirements analysis* (Technical Report 86-5C60-TSIPS-R1). Westinghouse Research & Development Center.
- Hoecker, D. G., Bennett, K. B., & Smith, G. G. (1986). *Improved technical specifications for Westinghouse Nuclear Power Plants, Volume I: Interim human factors guidelines* (Technical Report 86-5C60-TSIPS-R1). Westinghouse Research & Development Center.
- Woods, D. D., Haley, P. H., Bennett, K. B., & Roth, E. M. (1985). *Operator aids for secondary water inventory control* (Technical Report 85-1C60-CONRM-R2). Westinghouse Research & Development Center.
- Bennett, K. B., Woods, D. D., & Watson, C. D. (1985). *Advanced graphic forms and prototyping for nuclear control room applications* (Technical Report 85-1C60-CONRM-R1). Westinghouse Research & Development Center.
- Bennett, K. B., Ballas, J. B., & Howard, J. H., Jr. (1983). *The effect of structured contextual tones on psychophysical frequency discrimination* (Technical Re-

port ONR-83-21). Washington, D.C.: Catholic University Human Performance Laboratory.

Bennett, K. B., Parasuraman, R., Howard, J. H., Jr., & O'Toole, A. J. (1983). *Auditory induction of discrete tones in signal detection tasks* (Technical Report ONR-83-23). Washington, D.C.: Catholic University Human Performance Laboratory.

Howard, J. H., Jr., O'Toole, A. J., Parasuraman, R., & Bennett, K. B. (1983). *Pattern-directed attention in uncertain frequency detection* (Technical Report ONR-83-22). Washington, D.C.: Catholic University Human Performance Laboratory.

Grants and contracts:

Bennett, Kevin B. (2018). Principal Investigator. *Development and validation of a standard color palette and updates to the FAA color standard*. U.S. Department of Transportation Federal Aviation Administration (Grant, \$120,121).

Bennett, Kevin B. (2017). Co-Principal Investigator. *Alternate Tinnitus Management Techniques Developed Using Blood-Oxygen-Level-Dependent MRI With Neurofeedback*. AFMOA/HCE. (Grant: \$26,558).

Bennett, Kevin B. (2016). Co-Principal Investigator. *Alternate Tinnitus Management Techniques Developed Using Blood-Oxygen-Level-Dependent Mri With Neurofeedback*. AFMOA/HCE. (Grant, \$44,264).

Bennett, Kevin B. (2015). Co-Principal Investigator. *Alternate Tinnitus Management Techniques Developed Using Blood-Oxygen-Level-Dependent Mri With Neurofeedback*. AFMOA/HCE. (Grant, \$44,264).

Bennett, Kevin B. (2015). Co-Principal Investigator. *Air Force SBIR Program Phase II (AF151-015): Transforming Cyber Data into Human-Centered Visualizations*. U.S. Air Force Research Laboratory. (Awarded to small business).

Bennett, Kevin B. (2015). Co-Principal Investigator. *Air Force SBIR Program Phase I (AF151-015): Transforming Cyber Data into Human-Centered Visualizations*. U.S. Air Force Research Laboratory. (Consulting contract: \$18,500).

Bennett, Kevin B. (2015). Principal Investigator. *Ecological Interface Design Approach to Supporting Cyber Understanding and Interaction*. Centre for Defence Enterprise (CDE), United Kingdom. (Grant: \$23,219)

Bennett, Kevin B. (2014). Visiting Erskine Fellowship. University of Canterbury, Christchurch, New Zealand. (Maintenance Allowance: NZ\$9,700; Travel Allowance: NZ\$1,306).

Bennett, Kevin B. (2014). Co-Principal Investigator. *Human Systems Technologies for Future Air Force Challenges, Program I: Neuroscience and Medical*

- Imaging*. U.S. Air Force Research Laboratory, BAA-PKD-08-0006. (Grant: \$40,000).
- Bennett, Kevin B. (2013). Principal Investigator. *Cyber Operations; Maturing Technology*. Commercialization Seed Funding, Wright State University Office of Research. (Grant: \$5,000).
- Bennett, Kevin B. (2013). Co-Principal Investigator. *Human Systems Technologies for Future Air Force Challenges, Program I: Neuroscience and Medical Imaging*. U.S. Air Force Research Laboratory, BAA-PKD-08-0006. (Grant: \$30,000).
- Bennett, Kevin B. (2013). SFFP Fellow. *Human Factors in Cyberwarfare*. Air Force Office of Scientific Research's Summer Faculty Fellowship Program. (Contract: \$20,400).
- Bennett, Kevin B. (2012). Co-Principal Investigator (John Flach). *Sirius Program*. Intelligence Advanced Research Projects Activity, IARPA BAA-11-03. (Grant: \$87,200).
- Bennett, Kevin B. (2012). Co-Principal Investigator. *Human Systems Technologies for Future Air Force Challenges, Program I: Neuroscience and Medical Imaging*. U.S. Air Force Research Laboratory, BAA-PKD-08-0006. (Grant: \$30,000).
- Bennett, Kevin B. (2011). Co-Principal Investigator (John Flach, Wayne Shebilske). *System for Information and Meta-Information Portrayal of Lessons-Learned (SIMPL)*. Aptima, Inc. (Grant: \$52,352).
- Bennett, Kevin B. (2011). Co-Principal Investigator (John Flach). *Sirius Program*. Intelligence Advanced Research Projects Activity, IARPA BAA-11-03. (Grant: \$93,539).
- Bennett, Kevin B. (2011). Co-Principal Investigator. *Human Systems Technologies for Future Air Force Challenges, Program I: Neuroscience and Medical Imaging*. U.S. Air Force Research Laboratory, BAA-PKD-08-0006. (Grant: \$27,000).
- Bennett, Kevin B. (2009). Principal Investigator. *Faculty Research Participation Program*. U.S. Air Force Research Laboratory, Human Effectiveness Directorate, administered by the Oak Ridge Institute for Science and Education (Stipend: \$8,670).
- Bennett, Kevin B. (2009). Principal Investigator. *Dynamic planning tools for RAPTOR*. Collaborative Technology Alliances, Advanced Decision Architectures, U. S. Army Research Laboratory (Grant: \$20,000).
- Bennett, Kevin B. (2008). Principal Investigator. *Dynamic planning tools for RAPTOR*. Collaborative Technology Alliances, Advanced Decision Architectures, U. S. Army Research Laboratory (Grant: \$58,200).

- Bennett, Kevin B. (2007). Principal Investigator. *Evaluation of the RAPTOR Interface*. Collaborative Technology Alliances, Advanced Decision Architectures, U. S. Army Research Laboratory (Grant: \$56,087).
- Bennett, Kevin B. (2007). WSU's Professional Developmental Leave Program. Awarded three quarters of leave at 100% of salary.
- Bennett, Kevin B. (2006). Principal Investigator. *Human-machine interfaces for coordination decision support in tactical settings*. DARPA STTR Phase II (Grant: \$158,989).
- Bennett, Kevin B. (2006). Principal Investigator. *Expanding the RAPTOR R&D environment*. Collaborative Technology Alliances, Advanced Decision Architectures, U. S. Army Research Laboratory (Grant: \$54,454).
- Bennett, Kevin B. (2005). Principal Investigator. *Human-machine interfaces for coordination decision support in tactical settings*. DARPA STTR Phase I (Grant: \$33,850).
- Bennett, Kevin B. (2005). Principal Investigator. *Expanding decision support for mobile army commanders*. Collaborative Technology Alliances, Advanced Decision Architectures, U. S. Army Research Laboratory (Grant: \$58,009).
- Bennett, Kevin B. (2004). Principal Investigator. *Evaluation of a prototype interface to support mobile army commanders*. Collaborative Technology Alliances, Advanced Decision Architectures, U. S. Army Research Laboratory (Grant: \$64,445).
- Bennett, Kevin B. (2004). Recipient. Wright State University, Graduate Council Travel Grant (Grant: \$600)
- Bennett, Kevin B. (2003). Principal Investigator. *Advanced interfaces to support continuous planning and re-planning during tactical operations*. Collaborative Technology Alliances, Advanced Decision Architectures, U. S. Army Research Laboratory (Grant: \$25,021).
- Bennett, Kevin B. (2002). Principal Investigator. *Representing plan execution in a dynamic battlefield environment*. Collaborative Technology Alliances, Advanced Decision Architectures, U. S. Army Research Laboratory (Grant: \$24,227).
- Bennett, Kevin B. (2001). Principal Investigator. *Design of interface symbology and information access for enemy forces*. Advanced Displays and Interactive Displays Consortium, U. S. Army Research Laboratory (Grant: \$5,000).
- Bennett, Kevin B. (2000). Principal Investigator. *Development of digital symbology for the Army's tactical operations center (TOC)*. Advanced Displays and Interactive Displays Consortium, U. S. Army Research Laboratory (Grant: \$15,768).
- Bennett, Kevin B. (2000). Principal Investigator. *Decision support for the Army's digital tactical operations center (TOC)*. Advanced Displays and In-

teractive Displays Consortium, U. S. Army Research Laboratory (Grant: \$17,000).

- Bennett, Kevin B. (1998). Principal Investigator. *Design and evaluation of dynamically adaptive interfaces*. Human Systems Center (AFMC), Armstrong Laboratory, Brooks Air Force Base (Grant: \$17,168).
- Bennett, Kevin B. (1998). Senior Research Associate. *Augmented 3D auditory and visual displays for aerial vehicles*. National Research Council / Air Force Office of Scientific Research, Research Associateship Program (Contract renewal: \$33,466).
- Bennett, Kevin B. (1997). Senior Research Associate. *Augmented 3D auditory and visual displays for aerial vehicles*. National Research Council / Air Force Office of Scientific Research, Research Associateship Program (Contract: \$55,700).
- Bennett, Kevin B. (1997). WSU's Regular Professional Developmental Leave Program. Awarded three quarters of leave at 50% of salary.
- Garcia, O. (1996-1999). Principal Investigator. *Information Technology Center Infrastructure*. Ohio Board of Regents, Investment Fund Program (O. Garcia, Overall PI, \$1,610,000; R.H. Gilkey, PI Virtual Environments, K.B. Bennett and K.S. Rattan, Co-PI's, \$590,000).
- Bennett, Kevin B. (1996). Principal Investigator. *Dynamically adaptive computer interface*. Air Force Office of Scientific Research, Summer Research Extension Program (Grant: \$25,000).
- Bennett, Kevin B. (1995). Summer Fellow. *Dynamically adaptive interfaces*. Air Force Office of Scientific Research, Summer Faculty Research Program (Contract: \$8,436).
- Bennett, Kevin B. (1994). Principal Investigator. *Virtual reality monitoring system (VRMS): A virtual environment for characterization/remediation of contaminated waste sites*. Wright State University, Research Challenge Grant (Grant: \$20,100)
- Bennett, Kevin B. (1990). Principal Investigator. *Cognitive skills acquisition workshop '90*. Air Force Human Resources Laboratory (Contract: \$1,820).
- Bennett, Kevin B. (1989). Principal Investigator. *Computer-based training for complex, dynamic tasks*. Air Force Office of Scientific Research, Research Initiation Program (Contract: \$20,000).
- Bennett, Kevin B. (1989). Summer Fellow. *Computer-based training for complex, dynamic tasks*. Air Force Office of Scientific Research, Summer Faculty Research Program (Contract: \$6,400).
- Bennett, Kevin B. (1988). Principal Investigator. *Effective decision support in human-machine systems*. Wright State University, Research Challenge Grant (Grant: \$12,500)

Bennett, Kevin B. (1988). Principal Investigator. *Computerized decision support*. Wright State University, Research Incentive Fund Grant (Grant: \$5,000)

Professional Affiliations and Service

Human Factors and Ergonomics Society (HFES)

Human Factors Journal:

Editorial Board	Member (reappointed)	2005 - 2019
Editorial Board	Member (reappointed)	2000 - 2004
Editorial Board	Member (reappointed)	1997 - 2000
Editorial Board	Member (appointed)	1995 - 1997
	Ad Hoc reviewer	1993 - 1995

Committees / Advisory Positions:

Jerome H. Ely Award	Co-Chair (appointed)	2016 - 2018
Jerome H. Ely Award	Member (appointed)	2007
EID Best Paper Award	Member (appointed)	2005
Undergraduate Accreditation Task Force	Chair (appointed)	2002 - 2003
Accreditation Review Committee	Member (appointed)	2002 - 2003
Student Chapter (WSU)	Advisor(volunteer)	2002 - 2003

Proceedings of annual meeting:

Visual Performance Technical Group	Reviewer	1996
Visual Performance Technical Group	Reviewer	1995

Technical Sessions in annual meeting:

Visual Performance Technical Group	Chair	2000
Special Sessions	Chair	2000
Visual Performance Technical Group	Chair	1995

Affiliation with the Society:

Fellow		2004 - present
Member		1994 - present
Associate		1985 - 1993
Student Affiliate		1981 - 1984
Technical Groups		1990 - present
	Cognitive Engineering and Decision Making	
	Virtual Environments	
	Computer Systems	
	Perception and Performance (formerly Visual Performance)	

Occasional reviews for other journals / organizations:

IEEE Transactions on Human-Machine Systems
IEEE International Conference on Systems, Man, and Cybernetics
Ergonomics in Design (HFES)
National Science Foundation (NSF)
Air Force Office of Scientific Research (AFOSR)
Journal of Experimental Psychology: Applied
Journal of Cognitive Engineering and Decision Making
Applied Ergonomics
Applied Cognitive Psychology
International Journal of Human-Computer Studies
Visual Cognition
Behavior and Information Technology
The Handbook of Human Factors and Ergonomics
The Handbook Of Cognitive Task Design
The Idaho Board of Education

Teaching and Service

Courses:

Psychology 4610	Human Computer Interface Capstone
Psychology 3600	Engineering Psychology
Psychology 8310	Cognitive Systems Engineering
Psychology 8440	Task Analysis / Work Analysis
Psychology 8320	Ecological Interface Design
Psychology 8210	Cognition & Reality - Paradigms in Experimental Psychology
Psychology 823	Display Design
Psychology 425/625	Human Computer Interface
Psychology 724	Human Factors in System Development
Psychology 886	Usability
Psychology 465/665/765	Information Processing
Psychology 766	Information Processing Laboratory
Psychology 488/688/862	Instructional Systems
Psychology 321/521	Cognition and Learning
Psychology 323	Cognition and Learning Methods

Individual Supervision

Faculty advisor for a graduate student (Jerred Holt) receiving the Southern Ohio Chapter of the Human Factors and Ergonomics Society's Student Paper Contest for 2011.

Faculty advisor for a graduate student (Silas Martinez) receiving WSU's Graduate Student Excellence Award for 2002.

Faculty Advisor for Ph.D. Dissertation:

- | | |
|--|------|
| E. Mersch Frost, Psychology, Wright State University
<i>Creating a well-situated human-autonomy team: The effects of team structure</i> | 2019 |
| J. Holt, Psychology, Wright State University
<i>Real-Time Adaptive Feedback Display Systems in a Pilot Training Environment</i> | 2016 |

Faculty Advisor for Masters Theses:

- | | |
|---|-------------|
| D. Cravens, Psychology, Wright State University
<i>Tbd</i> | In Progress |
| C. Sushereba, Psychology, Wright State University
<i>Comparison Of Cyber Network Defense Visual Displays</i> | 2018 |
| O. Fox, Psychology, Wright State University
<i>Neurophysiological assessment of configural superiority: Effects of visual element rotation</i> | 2016 |
| C. Edman, Psychology, Wright State University
<i>Multi-modal interfaces for mobile phones</i> | 2016 |
| E. Mersch, Psychology, Wright State University
<i>Neurophysiological assessment of configural superiority</i> | 2014 |
| J. Holt, Psychology, Wright State University
<i>Evaluation of configural displays for state identification</i> | 2012 |
| K. Behymer, Psychology, Wright State University
<i>Integrating temporal information with configural displays</i> | 2005 |
| S. Martinez, Psychology, Wright State University
<i>Graphical decision support for commanders: Representation of the enemy</i> | 2002 |
| J. Calcaterra, Psychology, Wright State University
<i>Numerical value placement in hierarchical information displays for controlling complex systems</i> | 2002 |
| C. Talcott, Psychology, Wright State University
<i>Graphical decision support for an army tactical operations center</i> | 2001 |
| M. Payne, Psychology, Wright State University
<i>Representing dynamic information in socio-technical system displays</i> | 1999 |
| B. Walters, Psychology, Wright State University | 1997 |

Integrating historical information and emergent features in a configural display

- J. Wang, Psychology, Wright State University 1995
Emergent features and historical information: Shall the twain ever meet?
- D. Malek, Psychology, Wright State University 1995
Inducing apparent motion with computer displays: Effect of different waveforms on apparent motion
- R. Nittoli, Psychology, Wright State University 1995
Improving configural displays by increasing perceptual salience of the graphical elements
- E. Madigan, Psychology, Wright State University 1993
The effects of shape and border on apparent motion in animated mimic displays
- M. Toms, Psychology, Wright State University 1991
Designing configural displays for dynamic complex domains

Graduate Advisor:

- D. Cravens, C. Sushereba, O. Fox, E. Mersch, P. Lee, J. Holt, E. McGregor, C. Edman, S. Posey, P. Maynard, K. Behymer, C. Stansifer, S. Martinez, J. Calcaterra, C. Talcott, M. Payne, B. Walters, J. Wang, D. Malek, R. Nittoli, E. Madigan, M. Toms

Undergraduate Honors Advisor:

- N. Jackson, Psychology, Wright State University In Progress
TBD

Inquiry Project Supervisor:

- C. Ames, Education, Wright State University 2009
Does Interactive Whiteboard Software Motivate High School Math Students?

Dissertation Committee Member:

- T. Hammack, Psychology, Wright State University In Progress
 T. Saffel, Psychology, Wright State University In Progress
 E Mersch (Frost), Psychology, Wright State University 2019
 J. Kegley, Psychology, Wright State University 2016
 S. Jackson, Psychology, Wright State University 2016
 J. Holt, Psychology, Wright State University 2016

K. Behymer, Psychology, Wright State University	2015
C. Wright, Psychology, Wright State University	2015
S. Russell, Psychology, Wright State University	2014
J. McIntire, Psychology, Wright State University	2013
J. Cooper, Psychology, Wright State University	2013
A. Bennett, Psychology, Wright State University	2013
T. McEwen, Psychology, Wright State University	2012
S. Posey, Psychology, Wright State University	2007
D. Schwartz, Psychology, Wright State University	2007
H. Guterman, Psychology, Wright State University	2004
R. Beauregard, Psychology, Wright State University	2000
T. Stanard, Psychology, Wright State University	1998
C. Dominguez, Psychology, Wright State University	1997
K. Neriani, Psychology, Wright State University	Withdrew

Masters Theses Committee Member:

C. Zinn, Psychology, Wright State University	In Progress
T. Whitlock, Psychology, Wright State University	In Progress
C. Sushereba, Psychology, Wright State University	2018
C. Edman, Psychology, Wright State University	2016
O. Fox, Psychology, Wright State University	2016
L. Lemasters, Psychology, Wright State University	2015
T. Hammack, Psychology, Wright State University	2015
J. Pack, Psychology, Wright State University	2015
S. Fullenkamp, Psychology, Wright State University	2013
E. Robinson, Psychology, Wright State University	2012
P. Venero, Psychology, Wright State University	2011
C. Rizzardo, Psychology, Wright State University	2011
J. Leonard, Psychology, Wright State University	2011
E. Polander, Psychology, Wright State University	2010
J. Cooper, Psychology, Wright State University	2010
T. McEwen, Psychology, Wright State University	2009
T. April, Psychology, Wright State University	2007
T. Saffel, Psychology, Wright State University	2007
J. Lyons, Psychology, Wright State University	2003
K. Plummer, Psychology, Wright State University	2004
M. Winterbottom, Psychology, Wright State University	2000
B. Crawford, Psychology, Wright State University	2000
J. Isaacson, Psychology, Wright State University	1999
J. Holden, Psychology, Wright State University	1996
S. Canaras, Psychology, University of Dayton	1996
D. Kamholtz, Psychology, Wright State University	1995
B. Brickman, Psychology, Wright State University	1994
R. Hutton, Psychology, Wright State University	1993
J. Doyal, Psychology, Wright State University	1991

M. Slattery, Psychology, Wright State University	1990
P. Maynard, Psychology, Wright State University	Withdrew

Qualifying Examination Committee Member:

C. Sushereba, Psychology, Wright State University	In Progress
C. Edman, Psychology, Wright State University	2018
J. Haggitt, Psychology, Wright State University	2015
E. Mersch, Psychology, Wright State University	2015
T. Hammack, Psychology, Wright State University	2015
M. Archambault, Psychology, Wright State University	2014
J. Holt, Psychology, Wright State University	2013
E. Robinson, Psychology, Wright State University	2013
C. Rizzardo, Psychology, Wright State University	2013
C. Wright, Psychology, Wright State University	2012
J. Cooper, Psychology, Wright State University	2012
S. Russell, Psychology, Wright State University	2012
T. McEwen, Psychology, Wright State University	2009
T. Saffel, Psychology, Wright State University	2008
B. Simpson, Psychology, Wright State University	2008
J. McIntire, Psychology, Wright State University	2008
A. Bennett, Psychology, Wright State University	2008
K. Behymer, Psychology, Wright State University	2008
K. Neriani, Psychology, Wright State University	2005
S. Posey, Psychology, Wright State University	2005
D. Schwartz, Psychology, Wright State University	2005
C. Eshelman-Haynes, Psychology, Wright State University	2004
K. Gildea, Psychology, Wright State University	2004
B. Simpson, Psychology, Wright State University	2000
J. Leonard, Psychology, Wright State University	Withdrew

*Service**University Committee:*

	<u>Position</u>	<u>Dates</u>
Presidential Scholar search	Member (appointed)	2010 - 2011
Team Liaison (Tennis)	Member (appointed)	2005 - 2008
Graduate Council	Member (appointed)	2003 - 2007
LWD research prof. search	Member (appointed)	2006
Promotion and Tenure	Member (appointed)	2003 - 2004
University Library	Departmental Library Representative (appointed)	1995

College Committee:

Promotion & Tenure	Member	2018 - 2019
Promotion & Tenure	Member / Interim Chair (appt.)	2017 - 2018
Promotion & Tenure	Member (appointed)	2014
Senior Lecturer Promotion	Member (appointed)	2009 - 2011
Promotion & Tenure	Member (appointed)	2008 - 2011
Graduate Studies	Chair (elected)	2006 - 2007
Research Advisory	Member (appointed)	2004 - 2007
Graduate Program Directors	Member (appointed)	2003 - 2007
Graduate Studies	Member (appointed)	2003 - 2006
Graduate Faculty Status	Member (appointed)	2005
Psych. Chair Search	Chair (appointed)	2004
Promotion and Tenure	Chair (elected)	2003 - 2004
Dean Search	Member (appointed)	2001 - 2002
Faculty Development	Member (elected)	1999 - 2000
Due Process	Member (appointed)	1992 - 1993
Academic Mediation	Member (appointed)	1989 - 1991

Department Committee:

HFES Accreditation	Lead role (self appointed)	2013 - 2016
Faculty Development	Chair	2014 - 2015
Human Factors Area	Leader (appointed)	2010 - 2013
Department Chair Search	Member	2012
Human Factors Faculty Search	Chair (appointed)	2011 - 2012
Faculty Development	Chair	2008 - 2009
Chair Review (5th Year)	Chair	2008 - 2009
I/O Faculty Search	Member (appointed)	2007 - 2008
Graduate Program	Director	2003 - 2007
Faculty Development	Member	1994 - 2007
IGERT (LWD) Faculty Search	Member (CS Dept.)	2006
Graduate Program Review	Chair	2004
Assistant Professor Search	Chair	2001 - 2002
PSI CHI / Psychology Club	Co-Advisor	2001 - 2002
I/O Search	Member (appointed)	1999 - 2000
Department Chair Search	Member (appointed)	1996 - 1997
Human Factors Area	Leader (appointed)	1995 - 1997
Petitions Committee	Member (appointed)	1995 - 1997
Virtual Environment	Director (appointed)	1994 - 1995
Research Group		
Human Factors Joint Search	Member (appointed)	1988 - 1992
Human Factors Joint Search	Member (appointed)	1994 - 1995
Computer Software (Intro Lab)	Member (appointed)	1989 - 1990