

**Name:** Roger B. Hill  
**Present Rank:** Professor  
**Proportion Time Assignments:** .375 Administration; .188 Research; .188 Teaching (budgeted)  
.375 Administration; .188 Research; .188 Teaching (assigned)  
**Tenure Status:** Tenured 1998  
**Administrative Title:** Department Head, Mathematics and Science Education  
**Graduate Faculty Status:** Full Graduate Faculty; appointed April 14, 1997;  
reappointed 2018  
**Degrees:** Doctor of Philosophy  
The University of Tennessee, Knoxville; 1992

**Academic Positions Held:**

2017-present Department Head; Mathematics and Science Education

2007-present Professor; Department of Career and Information Studies (formerly in the  
Department of Workforce Education, Leadership, and Social Foundations);  
College of Education; The University of Georgia; Athens, GA.

Affiliate, Institute for Evidence-Based Health Professions Education, University of  
Georgia, Oct 2012 – present

2006-2012 Department Head; Workforce Education, Leadership, and Social Foundations

1998-2007 Associate Professor; Department of Workforce Education, Leadership, and Social  
Foundations (Program of Workforce Education was formerly the Department of  
Occupational Studies); College of Education; The University of Georgia; Athens,  
GA.

1993-1998 Assistant Professor; Department of Occupational Studies; College of Education;  
The University of Georgia; Athens, GA.

1979-1993 Professor of Technology Education and Coordinator of Academic Computing;  
Hiwassee College; Madisonville, TN.

\* *Peer Reviewed.* \*\* *Invited.* ✓ *Research award.*

**Books Authored or Co-Authored:** None

**Books Edited and Co-Edited:**

Hill, R. B. (Ed.) (2004). Ethics for citizenship in a technological world. New York: Glencoe McGraw-Hill.

### Chapters in Books:

\* Hill, R. B., Kim, C., & Yuan, J. (2019). Robotics and coding in primary grades. In M. Tsitouridou, J. Diniz, & T. Mikropoulos (Eds.), Technology and innovation in learning, teaching and education (pp. 458-467). Switzerland: Springer. <https://doi.org/10.1007/978-3-030-20954-4>

Hill, R. B. & Rojewski, J. W. (2016). Synergy for 21<sup>st</sup> Century Literacy. Educational Media and Technology Yearbook.

Hill, R. B., Gattie, D. & Kellam, N. (2008). Essential mathematics and science content as a base for understanding engineering principles. In R. Custer & T. Erekson (Ed.), Engineering and technology education. New York: Glencoe McGraw-Hill. (Contribution percentages: Hill - 40%, Gattie - 20%, Kellam - 40%)

Hill, R. B. (2004). Closing thoughts about ethics for citizenship in a technological world. In R. Hill (Ed.), Ethics for citizenship in a technological world (pp. 267-276). New York: Glencoe McGraw-Hill.

Hill, R. B. (2004). Introduction to ethical issues in a technological world. In R. Hill (Ed.), Ethics for citizenship in a technological world (pp. 1-19). New York: Glencoe McGraw-Hill.

\* \*\* Hill, R. B. (2003). Ethics and values: Essential components of technology education in the United States. In G. Martin & H. Middleton (Eds.), Initiatives in technology education: comparative perspectives (pp. 138-147). Gold Coast, Australia: Technical Foundation of America and the Centre for Technology Education Research, Griffith University.

\*\* Hill, R. B. (2001). Survey research. In E. I. Farmer & J. W. Rojewski (Eds.), Research pathways: writing professional papers, theses, and dissertations in workforce education (pp. 201-222). Lanham, MD: University Press of America.

\*\* Hill, R. B. & Dewey, G. G. (2001). Moral and ethical issues related to appropriate technology. In R. Wicklein (Ed.), Appropriate technology for sustainable living (pp. 78-91). New York: Glencoe McGraw-Hill. (Contribution percentages: Hill-75%, Dewey-25%)

\*\* Hill, R. B. (2000). Making connections: Situated learning in technology education. In E. Martin (Ed.), Technology education for the 21<sup>st</sup> century: A collection of essays (pp. 75-79). New York: Glencoe/McGraw-Hill.

\* \*\* Hill, R. B. (1996). How to foster high expectation and motivation. In C. Campbell (Ed.), Education and training for work - Volume 1 (pp. 169-194). Lancaster, PA: Technomic.

**Monographs:** None

**Journal Articles:**

- \* Kim, C., Yuan, J., Vasconcelos, L., Shin, M., & Hill, R. B. (2018). Debugging during block-based programming. Instructional Science, 46(5), 767-787, DOI: 10.1007/s11251-018-9453-5.
  
- \* Park, H. & Hill, R. B. (2018). Psychometric properties of the Employability Skills Assessment and Korean work ethic for gender and generations. Career and Technical Education Research, 43(1), 19-40, DOI: <https://doi.org/10.5328/cter43.1.19>.
  
- \* ✓ Park, H. & Hill, R. B. (2018). Development and validation of a short form of the Occupational Work Ethic Inventory. Journal of Career and Technical Education, 32(1), 9-28. DOI: <http://doi.org/10.21061/jcte.v32i1.1588>.
  
- \*\* Havice, W, & Hill, R. B. (2018). FTEE/CTETE 21st Century Leadership Academy: A second decade of excellence. Technology and Engineering Teacher, 36-38.
  
- \* Kopcha, T.J., McGregor, J., Shin, S., Qian, Y., Choi, J., Hill, R., Mativo, J., Choi, I. (2017). Developing an integrative STEM curriculum for robotics education through educational design research. Journal of Formative Design in Learning, 1, 31-44, DOI: 10.1007/s41686-017-0005-1.
  
- \* Kim, C., Jiangmei, Y., Kim, D., Kim, D., Doshi, P., Thai, C. N., Hill, R. B. & Melias, E. (2017). Studying the usability of an intervention to promote teachers' use of robotics in STEM education. Journal of Educational Computing Research, 0(0), 1-34, DOI: 10.1177/0735633117738537.
  
- \* Rojewski, J. W. & Hill, R. B. (2017). A framework for 21<sup>st</sup>-century career-technical and workforce education curricula. Peabody Journal of Education, 0, 1-12, DOI: 10.1080/0161956X.2017.1302211.
  
- \* Park, H. & Hill, R. B. (2016). The Employability Skills Assessment: Measuring work ethic for research and learning. Career and Technical Education Research, 41(3), 175-192, DOI: 10.5328/cter41.3.175.
  
- \* Kim, C., Kim, D., Yuan, J., Hill, R. B., Doshi, P., & Thai, C. N. (2015). Robotics to promote elementary education pre-service teachers' STEM engagement, learning, and teaching. Computers & Education, 91, 14-31, DOI: <http://dx.doi.org/10.1016/j.compedu.2015.08.005>

- \* Rojewski, J. & Hill, R. B. (2014). Positioning research and practice in Career and Technical Education: A framework for college and career preparation in the 21<sup>st</sup> century. Career and Technical Education Research, 39(2), 137-150, DOI: <http://dx.doi.org/10.5328/cter39.2.137>.
- \* Rojewski, J. W., Lee, I., & Hill, R. (2014). Participation patterns of Korean adolescents in school-based career exploration activities. Asian Pacific Education Review, 15(3), 473-482, DOI 10.1007/s12564-014-9331-z.
- \* Mativo, J. M., Hill, R. B., & Godfrey, P. W. (2013). Effects of human factors in engineering and design of teaching mathematics: A comparison study of online and face-to-face at a technical college. Journal of STEM Education, 14(4), 34-42.
- \*\* Hill, R. B., Kuchinke, K. P., & Zinser, R. (2013). (Re)Connecting workforce education and human resource development. Human Resource Development Review, 12(1), 3-10, DOI 10.1177/1534484312468424
- \* Lee, I., Rojewski, J. W., & Hill, R. B. (2013). Classifying Korean adolescents' career preparedness. International Journal for Educational and Vocational Guidance, 13(1), 25–45, DOI 10.1007/s10775-012-9236-5.
- \* Foutz, T., Navarro, M., Hill, R., Thompson, S., Miller, K., & Riddleberger, D. (2011). Using the discipline of agricultural engineering to integrate math and science. Journal of STEM Education, 12(1), 24-32.
- \* Denson, C. D. & Hill, R. B. (2010). Impact of an engineering mentorship program on African-American male high school students' perceptions and self-efficacy. Journal of Industrial Teacher Education, 47(1), 100-128. (Contribution percentages: Denson-60%, Hill-40%)
- \* Asunda, P. & Hill, R. B. (2008). Preparing technology teachers to teach engineering design. Journal of Industrial Teacher Education, 45(1), 26-53. (Contribution percentages: Asunda-60%, Hill-40%)
- \* Asunda, P. & Hill, R. B. (2007). Critical features of engineering design in technology education. Journal of Industrial Teacher Education, 44(1), 25-48. (Contribution percentages: Asunda-60%, Hill-40%)
- \* Hill, R. B. (2006). New perspectives: Technology teacher education and engineering design. Journal of Industrial Teacher Education, 43(3), 45-63.
- \* Hill, R. B. & Fouts, S. (2005). Work ethic and employment status: A study of jobseekers. Journal of Industrial Teacher Education, 42(3), 48-65. (Contribution percentages: Hill-60%, Fouts-40%)

- \* ✓ Petty, G. C. & Hill, R. B. (2005). Work ethic characteristics: Perceived work ethics of supervisors and workers. Journal of Industrial Teacher Education, 42(2), 5-20. (Contribution percentages: Petty-60%, Hill-40%).
- \* Hill, R. B. (2004). Dreamweaver and Flash: Strategies for updating communication systems instruction. The Technology Teacher, 63(7), 7-11.
- \*\* Hill, R. B. (2003). Does NAITTE have a future? A third-generation decision. Journal of Industrial Teacher Education, 40(2), 86-91.
- \* ✓ Hill, R. B. & Wicklein, R. C. (2000). Great expectations: Preparing technology education teachers for new roles and responsibilities. Journal of Industrial Teacher Education, 37(3), 6-21. (Contribution percentages: Hill-50%, Wicklein-50%)
- \* ✓ Hill, R. B. & Wicklein, R. C. (1999). A factor analysis of primary mental processes for technological problem solving. Journal of Industrial Teacher Education, 36(2), 83-100. (Contribution percentages: Hill-50%, Wicklein-50%)
- \* Hill, R. B. & Rojewski, J. W. (1999). Double jeopardy: Work ethic differences in youth at-risk of school failure. Career Development Quarterly, 47, 267-279. (Contribution percentages: Hill-50%, Rojewski-50%)
- \* Rojewski, J. W. & Hill, R. B. (1998). Influence of gender and academic risk behavior on career decision making and occupational choice in early adolescence. Journal of Education for Students Placed At Risk, 3(3), 265-287. (Contribution percentages: Rojewski-50%, Hill-50%)
- \* Hill, R. B. (1997). The design of an instrument to assess problem-solving activities in technology education. Journal of Technology Education, 9(1), 28-43.
- \* Hill, R. B. (1997). Demographic differences in selected work ethic attributes. Journal of Career Development, 24(1), 3-23.
- \* Hill, R. B. & Womble, M. N. (1997). Teaching work ethic: Evaluation of a 10-day unit of instruction on work ethic, work attitudes, and employability skills. The Journal of Educational Opportunity, 16(1), 57-79. (Contribution percentages: Hill-50%, Womble-50%).
- \* Hill, R. B. (1996). Work ethic differences in vocational education students and full-time employed workers. Journal of Vocational Education Research, 21(3), 13-29.
- \* Hill, R. B. & Somers, J. A. (1996). A process for initiating change: Developing technology goals for a college of education. Journal of Teacher Education, 47(4), 300-306. (Contribution percentages: Hill-60%, Somers-40%)

- \* Hill, R. B. (1996). Using web pages to teach communication systems: Internet connection optional. The Technology Teacher, 56(3), 22-26.
- \* Hill, R. B., Wicklein, R. C., and Daugherty, M. K. (1996). Technology education in transition: Perceptions of technology education teachers, administrators, and guidance counselors. Journal of Industrial Teacher Education, 33(3), 6-22. (Contribution percentages: Hill-40%, Wicklein-40%, Daugherty-20%).
- \* ✓ Wicklein, R. C. & Hill, R. B. (1996). Navigating the straits with research or opinion? Setting the course for technology education. International Journal of Technology and Design Education, 6, 31-43. (Contribution percentages: Wicklein-50%, Hill-50%).
- \* Hill, R. B. & Petty, G. C. (1995). A new look at selected employability skills: A factor analysis of the occupational work ethic. Journal of Vocational Education Research, 20(4), 59-73. (Contribution percentages: Hill-90%, Petty 10%).
- \* Petty, G. C. & Hill, R. B. (1994). Are women and men different? A study of the occupational work ethic. Journal of Vocational Education Research, 19(1), 71-89. (Contribution percentages: Petty-50%, Hill-50%).

Hill, R. B. (1992). The work ethic: Its importance in the workplace of the 1990s and beyond. Tennessee Education, 22(2).

Hill, R. B. (1988). Post-secondary education: Students, issues, and future trends. Tennessee Education, 18(2).

### **Published Proceedings:**

- \* Choi, I., Kopcha, T., Mativo, J., Hill, R., Hodge, E., Shin, S., Way, B., McGregor, J., Kim, S., Choi, J. & Bae, Y. (2016). Learning Computer Programming in Context: Developing STEM-integrated Robotics Lesson Module for 5th Grade. In Proceedings of Society for Information Technology & Teacher Education International Conference 2016 (pp. 68-74). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).
- \* Hill, R. B., Panagouli, D. & Papadimitriou, G. (2013). Learning about work in the classical era of Greece: Modern day connections. Proceedings of EDULEARN13 Conference (pp. 5335-5344). Barcelona, Spain: IATED. ISBN: 978-84-616-3822-2.

Lee, I. H., Rojewski, J. W., & Hill, R. B. (2011). Career decision and career planning patterns of Korean adolescents. Conference Proceedings of the 5th Korean Education Longitudinal Study (pp. 505-534). Seoul, South Korea: Korean Education Development Institute.

### **Bulletins or Reports:**

Hill, R. B. (2003, Summer). Key Attributes of Georgia Technical College Work Ethic Instruction. Prepared for the Georgia Department of Technical and Adult Education, Office of Technical Education. Athens, GA: Occupational Research Group, The University of Georgia.

Hill, R. B. & Harnish, D. (1997, Spring). Work ethics: Critical element in workforce preparation. Georgia Department of Technical and Adult Education Research Brief, 3(2). Athens, GA: Occupational Research Group, The University of Georgia. (Contribution percentages: Hill-50%, Harnish 50%).

### **Abstracts:**

Hill, R. B. (2014). Work ethics for the society of trust and integration. Three global truths every HRD professional needs to know about work ethic. Published abstract in the proceedings of the 2014 HR Forum, Seoul, South Korea.

Hill, R. B. (2014). STEM content for elementary education: Research and recommendations. Published abstract in the proceedings of the 16<sup>th</sup> Annual International Conference on Education, Athens, Greece.

### **Book Reviews:**

Hill, R. B. (1995). [Review of the book Narrative schooling: Experiential learning and the transformation of American education]. Journal of Technology Education, 7(1), 54-56.

### **Technical Reports:**

Hill, R. B. (2016). Technical curriculum review report. Part of the Richmond County School System Career, Technical and Agricultural Education Study. Athens, GA: Carl Vinson Institute of Government, The University of Georgia.

Hill, R. B. (2003). Normative score data collection and analysis for the Georgia technology education culminating assessment. Athens, GA: Department of Occupational Studies, The University of Georgia.

Hill, R. B., Dewey, G. G., & Payne, E. (2001). Georgia's culminating assessment tools and procedures for technology education (<http://www.uga.edu/teched/doe/assessment.pdf>). Atlanta: Georgia Department of Education. (Contribution percentages: Hill-40%, Dewey-40%, Payne-20%).

Hill, R. B., & Burris, G. (2001). Georgia's program certification for technology education (<http://www.uga.edu/teched/doe/certification.pdf>). Atlanta: Georgia Department of Education. (Contribution percentages: Hill-50%, Burris 50%).

### **Any Other:**

Godfrey, P. W. & Hill, R. B. (2010). Characteristics of successful and unsuccessful technical college students in online and face-to-face mathematics classes. Proceedings of the annual meeting of the Association for Career and Technical Education Research, Las Vegas, Nevada. (Contribution percentages: Godfrey-60%, Hill-40%)

Kim, S. J. & Hill, R. B. (2008). South Korean work ethic constructs. Academy of Human Resource Development International Research Conference in the Americas Proceedings.

Hill, R. B. (2004). Work ethic and employability skills: A unit of instruction ([http://workethic.coe.uga.edu/we\\_unit.pdf](http://workethic.coe.uga.edu/we_unit.pdf)) [111 page supplement to *The Work Ethic Site* providing instructional materials including lesson plans, transparency masters, reference materials, and assessment tools, distributed with password upon request; based on a major revision of the 1995 curriculum guide]

Cory, J. A. & Hill, R. B. (1996, December). The effects of work ethic instruction. In M. Lush (Ed.), Omicron Tau Theta Professional Studies and Research Seminar Proceedings (pp. 47-59). Cleveland, MS: Delta State University. (Contribution percentages: Cory-50%, Hill-50%)

Petty, G. C. & Hill, R. B. (1996). Essential elements of work: A factor analysis of the occupational work ethic. In E. F. Holton, III (Ed.), Academy of Human Resource Development 1996 Conference Proceedings, 4, 270-275.

Hill, R. B. (1995). Work ethic, work attitudes, and employability skills [Curriculum guide]. Athens, GA: Author.

### **Creative Contributions:**

Hill, R. B. (2014). The work ethic site [World Wide Web pages]. Redesign and revision of content for the website housing materials related to work ethic, affective work competencies, and employability skills for workforce development. Contains materials related to research and instruction. Athens, GA: Author [<http://www.coe.uga.edu/workethic>].

Hill, R. B. (1996). The work ethic site [World Wide Web pages]. Web site for materials related to work ethic, affective work competencies, and employability skills for workforce development. Contains materials related to research and instruction. Athens, GA: Author [<http://www.coe.uga.edu/workethic>].

Hill, R. B. (1996). Observation program for technology education mental processes (OPTEMP) [Computer software]. Computer program for duration-frequency observation of mental processes used in technology education learning activities. Athens, GA: Author.



## Grants Received:

Hill, R. B. (2018). Coordinating Program Certification for Georgia Engineering and Technology Programs. Georgia Department of Education. \$19,470.

Foutz, T., Hill, R. B., Conner, A., Crawford, B., Kim, C. M., Thompson, S., Everett, D. (2017). Collective Argumentation Learning and Coding (CALC). National Science Foundation. \$2,144,800.

Kim, C. M. & Hill, R. B. (2017). Collaborative Research: Scaffolding Pre-service Early Childhood Teachers to Debug Block-based Programming. National Science Foundation. \$163,227.

Hill, R. B. (2017). Coordinating Program Certification for Georgia Engineering and Technology Programs. Georgia Department of Education. \$26,565.

Hill, R. B. (2017). Newton County CTAE Employability Skills Development. University of Georgia Research Foundation, University of Georgia. \$18,000.

Hill, R. B. (2016). Managing and Coordinating Program Certification for Georgia Engineering and Technology Education Programs. Georgia Department of Education. \$28,105.

Hill, R. B., Conner, A., Foutz, T., Thompson, S. (2016). Enhancing Problem Solving Skills Through Scientific and Mathematical Argumentation and Reasoning (EPSSSMAR). Jackson County School System. \$76,784.

Hill, R. B. (2015). Richmond County CTAE Curriculum Review. Carl Vinson Institute of Government, University of Georgia. \$18,000.

Hill, R. B. (2015). Program Certification for Georgia Engineering and Technology Education Programs. Georgia Department of Education. \$20,000.

Hill, R. B. (2014). Coordinating and Updating of Program Certification for Georgia Engineering and Technology Education Programs. Georgia Department of Education. \$25,000.

Kim, C., Doshi, P., & Hill, R. B. (2014). RoboSTEM for STEM Engagement, Learning, and Teaching. UGA Interdisciplinary Proposal Development grant. \$45,912.

Kim, C. & Hill, R. B. (2014). RoboTube: Technology to Promote Preservice Teachers' STEM Engagement, Learning, and Teaching. UGA Summer Research Funding. \$6,438.

Hill, R. B. (2013). Program Certification Coordination for Georgia Engineering and Technology Education Programs. Georgia Department of Education. \$20,000.

Hill, R. B. (2012). Coordinating Program Certification for Georgia Engineering and Technology Education Programs. Georgia Department of Education. \$33,000.

Hill, R. B. (2012). Georgia Engineering and Technology Education Online Assessment and Program Certification Update. Georgia Department of Education. \$14,419.

Hill, R. B. (2007). Investigation of engineering design as a focus for Georgia technology education. Georgia Department of Education, Office of Standards, Instruction and Assessment, Career, Technical, and Agricultural Education. \$27,462.

Hill, R. B. (2006-2007). Georgia technology education program certification coordinator. Georgia Department of Education, Office of Standards, Instruction and Assessment, Career, Technical, and Agricultural Education. \$26,065.

Hill, R. B. (2006-2007). Media materials for introducing engineering and technology education performance standards. Georgia Department of Education, Office of Standards, Instruction and Assessment, Career, Technical, and Agricultural Education. \$16,500.

Hill, R. B., & Asunda, P. A. (2005). Critical Features of Engineering Design in Technology Education. National Science Foundation through the National Center for Engineering and Technology Education. \$7,860.

Hill, R. B. (2004-2005). Georgia Technology Education Online Assessment and Program Certification Enhancement and Integration. Georgia Department of Education, Office of Curriculum and Instruction, Technology/Career. \$24,952.

Hill, R. B. (2004-2005). Connecting Mathematics and Science to Technology Education. Georgia Department of Education, Office of Curriculum and Instruction, Technology/Career. \$15,572.

Wicklein, R. C., Hill, R. B., Gattie, D., & Thompson, S. (2004-2009). National Center for Engineering and Technology Education. National Science Foundation. \$155,371 in 2004-2005; \$10 million for 9 institutions over 5 years.

Hill, R. B. (2004). Georgia Technology Education Performance Standards. Georgia Department of Education, Office of Curriculum and Instruction, Technology/Career. \$20,200.

Hill, R. B. (2004). Georgia Technology Education Culminating Assessment Orientation and Implementation. Georgia Department of Education, Office of Curriculum and Instruction, Technology/Career. \$11,693.

Hill, R. B. (2004). Web-based Work Ethic Survey for Advisory Committee Members. Georgia Department of Technical and Adult Education, Office of Technical Education,

subcontract included in a grant awarded to the Occupational Research Group, College of Education, with Richard Lynch as PI. \$8,000.

Hill, R. B. (2003). Normative Score Data Collection and Analysis for the Georgia Technology Education Culminating Assessment. Georgia Department of Education, Office of Curriculum and Instruction, Technology/Career. \$24,243.

Hill, R. B. (2003). Key Attributes of Georgia Technical College Work Ethic Instruction. Georgia Department of Technical and Adult Education, Office of Technical Education, subcontract included in a grant awarded to the Occupational Research Group, College of Education, with Richard Lynch as PI. \$8,000.

Wicklein, R. C. & Hill, R. B. (2002-2004). Technology Teacher In-service Education. National Science Foundation, subcontract for a collaborative grant awarded to Ohio State University with Karen Zuga as PI. \$64,134.

Hill, R. B. (2001). Development a Web-based delivery system for the Georgia technology education culminating assessment. Georgia Department of Education, Office of Student Learning and Assessment, Technology/Career. \$22,552.

Hill, R. B. (2001). Proposal development for NSF IMD online instruction in ethics and citizenship for a technological world proposal. College Support for Large Extramural Grant Applications, College of Education, The University of Georgia. \$7,930.

Hill, R. B. (2000). Development of culminating assessment tools and procedures for technology education in Georgia. Georgia Department of Education, Office of Student Learning and Assessment, Technology/Career. \$20,000.

Hill, R. B. (2000). Development of technology education program certification in the state of Georgia. Georgia Department of Education, Office of Student Learning and Assessment, Technology/Career. \$18,000.

Hill, R. B. (1999). Developing a Chinese language web site for work ethic research. Summer Faculty Research Grant, College of Education, The University of Georgia. \$3,492.

Hill, R. B. (1998). Technology teacher education and the changing roles of technology education teachers. Technical Foundation of America. \$18,818.

Hill, R. B. (1997). River's Crossing Instructional Computing Facility. Instructional Computing Facility Solicitation, Information Technology Policy Board, The University of Georgia. \$81,075.

Hill, R. B. (1997). Instructor's guide for work ethic web site. Summer Faculty Research Grant, College of Education, The University of Georgia. \$4,186.

Hill, R. B. & Womble, M. N. (1996). Work ethic curriculum materials project. Joint Research/Outreach Program Grant, College of Education, The University of Georgia. \$6,600.

Hill, R. B. (1996). World wide web pages as a resource for work attitudes instruction. Summer Research Development Grant, College of Education, The University of Georgia. \$4,970.

Wicklein, R. C., Hill, R. B., Templeton, D., & Foell, N. (1996). A qualitative analysis of technology education goals and objectives. Stimulating Continuing Research on Technology Education Grant, Council on Technology Teacher Education. \$10,000.

Hill, R. B. (1995). Ill-structured problems as a context for work ethics instruction. Summer Research Development Grant, College of Education, The University of Georgia. \$4,855.

Hill, R. B. & Womble, M. N. (1994). Microsoft partnership program. Microsoft Corporation. In-kind software consisting of Microsoft Office package. This request incorporated into Center for Educational Technology proposal and awarded for all college labs. \$8,400.

Hill, R. B. (1994). Applications of dBase IV for business education. Georgia Vocational Staff Development Consortium, Georgia Department of Education. \$2,700.

Hill, R. B. (1994). Introduction to Computer Assisted Drawing and Design (CADD). Georgia Vocational Staff Development Consortium, Georgia Department of Education. \$3,100.

#### **Grants Submitted, Not Funded:**

Foutz, T., Hill, R. B., Conner, A., Crawford, B., Thompson, S., Riddleberger, D., Hardegree, A., Strickland, T., and Robinson, C. (2015). CompuSTEM, National Science Foundation, Directorate for Education & Human Resources and Directorate for Computer & Information Science and Engineering. \$1,747,935.

Hill, R. B., Conner, A., Crawford, B., Foutz, T., Thompson, S., Riddleberger, D., Hardegree, A., Strickland, T., and Robinson, C. (2014). Partnership for ARMing STEM, National Science Foundation, Directorate for Education & Human Resources and Directorate for Computer & Information Science and Engineering. \$1,434,495.

Hill, R. B., Wicklein, R. C., Orey, M. A. & White, R. T. (2002). ORIEnT: Online resources for instruction in ethics and technology (revised). National Science Foundation, Instructional Materials Development Section. \$1,019,329.

Hill, R. B., Wicklein, R. C. & Branch, R. M. (2001). ORIEnt: Online resources for instruction in ethics and technology. National Science Foundation, Instructional Materials Development Section. \$993,668.

Hill, R. B. (1999). Equipping technology education teachers for new roles and expectations. Technical Foundation of America. \$50,000.

Hill, R. B. (1999). Spanish language web materials for work ethic research. Summer Faculty Research Grant, College of Education, The University of Georgia. \$5,000.

Hill, R. B. (1998). Work ethic instruction for post-secondary and adult learners. Summer Faculty Research Grant, College of Education, The University of Georgia. \$4,980.

Hill, R. B. (1996). Work ethic web materials dissemination project. Joint Research/Outreach Graduate Assistant Program Grant, College of Education, The University of Georgia. \$8,725.00.

Hill, R. B. & Wicklein, R. C. (1996). Technology teacher education and the changing roles of technology teachers. Technical Foundation of America. \$39,937.

Hill, R. B. & Schell, J. W. (1996). Development of instructional resources and learning activities for a proposed course in workforce soft skills. Faculty Support/Collaboration Grant, College of Education, The University of Georgia. \$1,800.

Hill, R. B. (1995). Ill-structured problems as a context for character education. Junior Faculty Research Grants Program, The University of Georgia Research Foundation, Inc. \$4,855.

### **Recognitions and Outstanding Achievements:**

2019 International Technology and Engineering Educators Association (ITEEA) Special Recognition Award; Kansas City, Louisville, MO; March 2019.

2013 Council on Technology and Engineering Teacher Education (CTETE) International Travel Award; Columbus, OH; March 2013.

2009 Council on Technology Teacher Education (CTTE) Technology Teacher Educator of the Year; Louisville, KY; March 2009.

2009 International Technology Education Association (ITEA) Wilkinson Meritorious Service award; Louisville, KY; March 2009.

2006 National Association of Industrial and Technical Teacher Educators Outstanding Service Award. Annual Association for Career and Technical Education Convention; Atlanta, GA; December 2006.

2005 Outstanding Manuscript Award – Research Category for Volume 42 of the *Journal of Industrial Teacher Education*.

2004 National Association of Industrial and Technical Teacher Educators Outstanding Service Award. Annual Association for Career and Technical Education Convention; Las Vegas, NV; December 2004.

2001 Leaders to Watch. Recognition by the International Technology Education Association, Reston, VA.

1999 Annual Research Symposium Award. Technology Education Division (TED) of the Association for Career and Technical Education. Annual Association for Career and Technical Education Convention; Orlando, FL; December 1999.

1998 Technical Foundation of America Study Tour of China. Invited to participate in an 18-day Technology Study Tour funded by the Technical Foundation of America for 21 selected Technology Educators.

1997 Outstanding Presentation Award. American Vocational Education Research Association. Annual American Vocational Association Convention; New Orleans, LA; December 1998.

1997 Outstanding Beginning Scholar. American Vocational Education Research Association. Annual American Vocational Association Convention; Las Vegas, NV; December 1997.

1997 Annual Research Symposium Award. Technology Education Division (TED) of the American Vocational Association. Annual American Vocational Association Convention; Las Vegas, NV; December 1997.

1997 Sylvius-Wolansky Outstanding Scholarly Publication in Technology Education. Sylvius-Wolansky Foundation and the Council on Technology Teacher Education. Annual International Technology Education Association Convention; Tampa, FL; March 1997.

1996 Annual Research Award Finalist. Technology Education Division (TED) of the American Vocational Association. Annual American Vocational Association Convention; Cincinnati, OH; December 1996.

1995 Special Service Award. National Association of Trade and Industrial Educators.

1994 Annual Research Award. Technology Education Division (TED) of the American Vocational Association. Annual American Vocational Association Convention; Dallas, TX; December 1994.

1990 Chancellor's Citation for Extraordinary Professional Promise. The University of Tennessee, Knoxville.

1989 Phi Kappa Phi Honor Society Inductee. The University of Tennessee, Knoxville.

1989 Outstanding Young Man of America. Outstanding Young Men of America.

1987 Horace N. Barker Leadership Award. Hiwassee College, Madisonville, TN.

1984 Christian Student Movement Service Award. Hiwassee College, Madisonville, TN.

### **Areas of Research:**

Program of research focuses on preparing people to work within technologically enriched environments where technical content, employability skills, and ethics are essential for success. Research and creative activities, including publications, presentations, and funded projects, extend scholarship in the areas of (a) technology education and technology teacher preparation, and (b) ethical principles that contribute to workplace success.

### **Editorship or Editorial Board:**

Reviewer (2005-2008), Career and Technical Education Research, Association for Career and Technical Education, Champaign, IL.

Chair of Editorial Board and Field Editor (2000-2001), The Technology Teacher, International Technology Education Association, Reston, VA.

Editorial Board Chair (1998-1999), Journal of Vocational Education Research, Athens, GA.

Member of Editorial Board (1996-2005), The Technology Teacher, International Technology Education Association, Reston, VA.

Member of Editorial Board (2002-2003, 1997-1999), Journal of Vocational Education Research, Athens, GA.

### **Convention Papers:**

*\*Peer Reviewed. # Paper with published counterpart. \*\* Invited presentation.*

[\* Crawford, B.; Conner, A.; Foutz, T.; Hill, R.; Kim, C.; Jackson, D.; & Thompson, S. (2019, August). A STEM project using collective argumentation. Paper presented at the European Science Education Research Association convention, Bologna, Italy.] **pending**

- \* Hill, R. B. & Tinnell, A. C. (2019, March). From robots to rockets in K-5 STEM. Paper presented at the International Technology and Engineering Educators Association annual convention, Kansas City, Missouri.
- \*\* Hill, R. B. (2019, March). From STEM research to community collaboration. Invited online presentation for the at the Ddadeutan Educational Community Research Center, Pusan National University, Busan, South Korea.
- \* Hill, R. B., Kim, C., & Yuan, J. (2018, June). Robotics and coding in primary grades. Paper presented at the International Conference on Technology and Innovation in Learning, Teaching, and Education, Aristotle University of Thessaloniki, Thessaloniki, Greece.
- \*\* Hill, R. B. (2018, May). Educational robotics hardware and software: Options, challenges, and selection criteria. Paper presented at the 10th National Science in Early Childhood Education conference, Aristotle University of Thessaloniki, Thessaloniki, Greece.
- \* Hill, R. B. (2017, March). Affordable robotics and integrated STEM for ALL. Paper presented at the International Technology and Engineering Educators Association annual convention, Dallas, Texas.
- \* Mativo, J., Hill, R. B., & Immonen, W. (2016, March). Considerations in choosing an educational robot. Paper presented at the International Technology and Engineering Educators Association annual convention, Washington, DC.
- \* Park, H. & Hill, R. B. (2015, November). Confirmatory factor analysis of the Employability Skills Assessment (ESA) as a work ethic measure (Psychometric properties of the ESA). Poster presented at the annual Association of Career and Technical Education Research and professional development conference, New Orleans, Louisiana.
- \*\* Hill, R. B. (2015, November). A framework for 21<sup>st</sup> century work preparation. Keynote presentation for the North Georgia Technical College Industrial Summit, Clarkesville, Georgia.
- \* Hill, R. B. (2015, May). Robotics curriculum for integrated STEM instruction. Paper presented at the 17<sup>th</sup> Annual International Conference on Education, Athens, Greece.
- \* Hill, R. B. (2015, March). Robotics for elementary STEM education. Paper presented at the International Technology and Engineering Educators Association annual convention, Milwaukee, Wisconsin.
- Hill, R. B. (2015, March). STEM Showcase: Elementary STEM and the robotics connection. Roundtable presentation at the annual meeting of the International Technology and Engineering Educators Association annual convention, Milwaukee, Wisconsin.



\* Hill, R. B. (2014). The work ethic curriculum: Lessons learned after 20 years of giving it away for free. Paper presented at the annual conference of the Association of Career and Technical Education, Nashville, Tennessee.

\* Rojewski, J. W. & Hill, R. B. (2014, November). How will we prepare people to work in a flat flickering world? Paper presented at the annual Association of Career and Technical Education Research and professional development conference, Nashville, Tennessee.

\*\*# Hill, R. B. (2014, November). Three global truths every HRD professional needs to know about work ethic. Paper presented at the 2014 HR Forum, Seoul, South Korea.

Hill, R. B., Tippins, D., White, D., Orey, M., Chien, S. (2014, October). Elementary and middle school graduate certificate in STEM education. Presentation at the UGA College of Education Innovation in Teaching Conference, Athens, GA.

\*# Hill, R. B. (2014, May). STEM content for elementary education: Research and recommendations. Paper presented at the 16<sup>th</sup> Annual International Conference on Education, Athens, Greece.

\* Hill, R. B. (2014, March). STEM for elementary education: What to teach. Paper presented at the annual meeting of the International Technology and Engineering Educators Association annual convention, Orlando, Florida.

\* Lee, I., Rojewski, J. W. & Hill, R. B. (2013, September). Contribution of parental guidance to career adaptability among Korean adolescents. Paper presented at International Association for Educational and Vocational Guidance Conference, Montpellier, France.

\* Hill, R. B. (2013, August). Curriculum development for engineering ethics. Paper presented to Yonsei University Engineering Conference, Seoul, Korea.

\* Hill, R. B. (2013, August). Work ethic: Essential to success in the 21<sup>st</sup> century world of work. Paper presented to Yonsei University Institute for Educational Research Seminar, Seoul, Korea.

\* Hill, R. B. (2013, July). Identifying instructional content for project-based learning in science, technology, engineering, and mathematics (STEM) for elementary education. Paper presented at EDULEARN13, Barcelona, Spain.

\*# Hill, R. B., Panagouli, D. & Papadimitriou, G. (2013, July). Learning about work in the classical era of Greece: Modern day connections. Paper presented at EDULEARN13, Barcelona, Spain.

- \* Rojewski, J. W., Lee, I. & Hill, R. B. (2012, October). Career-related activities of academic and career-technical students in Korean high schools. Paper presented at International Association for Educational and Vocational Guidance Conference, Mannheim, Germany.
- \* Hill, R. B. (2012, July). Online Resources for Vocational Training in the 21st Century, Paper presented at EDULEARN12, Barcelona, Spain.
- \* Hill, R. B. (2012, May). Strategies for Work Ethic Instruction: Evaluating a Unit of Instruction. Paper presented at the Euro-American Conference for Academic Disciplines, Aix-en-Provence, Provence, France.
- \* Hill, R. B. (2012, March). Elementary engineering: Where the action is. Paper presented at the annual meeting of the International Technology and Engineering Educators Association annual convention, Long Beach, California.
- \* Hill, R. B. (2012, January). Enhancing teacher preparation and student learning through a professional development school model. Paper presented at the World Universities Forum; University of the Aegean; Rhodes, Greece.
- \* Hill, R. B. (2011, November). iPad and iPod Touch: Applications for STEM instruction. Paper presented at the annual meeting of the Association for Career and Technical Education, St. Louis, Missouri.
- \*# Lee, I. H., Rojewski, J. W., & Hill, R. B. (2011, October, 20). Career decision and career planning patterns of Korean adolescents. Paper presentation at the 5th Korean Education Longitudinal Study (KELS) Conference, Seoul, South Korea.
- \* Hill, R. B. (2011, March). Core skills to make STEM work. Paper presented at the annual meeting of the International Technology and Engineering Educators Association annual convention, Minneapolis, Minnesota.
- \* Godfrey, P. W. & Hill, R. B. (2010, November). Characteristics of successful and unsuccessful technical college students in online and face-to-face mathematics classes. Paper presented at the annual meeting of the Association for Career and Technical Education Research, Las Vegas, Nevada.
- \*\* Hill, R.B. (2010, July). Work ethic and the digital native. Paper presented at the annual meeting of the Georgia Association for Career and Technical Education; Atlanta, GA.
- \*\* Hill, R. B. (2010, March). Excellence: Beginning to end. Keynote presentation for the FTE Spirit of Excellence Breakfast at the International Technology and Engineering Educators Association annual convention, Charlotte, NC.

\*\*# Hill, R. B. (2009, November). Ready for work in the 21st century? It's a life-long process. Paper presented at the Global Human Resources Forum 2009, Seoul, Republic of Korea.

\*\* Hill, R. B. & Lee, I. (2009, November). Preparing a 21st century workforce: Opportunities and challenges. Paper presented at Sunchon National University (SNU); Suncheon, Republic of Korea.

\*\* Hill, R. B. & Lee, I. (2009, November). The work force and teacher education for the future. Paper presented at Seoul National University of Technology, Seoul, Republic of Korea.

\*\* Hill, R.B. (2009, July). Vision into practice: Who will lead in 2015? Paper presented at the annual meeting of the Georgia Association for Career and Technical Education; Atlanta, GA.

\*\* Hill, R.B. (2009, July). Engineering and technology education in a flat world. Paper presented at the annual meeting of the Georgia Association for Career and Technical Education; Atlanta, GA.

Miller, K., Johnson, T., Foutz, T., Hill, R. (2009, March). CLIMS: Communities of learners in math and science. Paper presented at the USDE Math Science Partnership Regional Meeting; Chicago, IL.

\*\* Hill, R. B. (2009, March). Communities of learners in mathematics and science. Paper presented at the annual meeting of the National Center for Engineering and Technology Education meeting during the International Technology Education Association annual convention, Louisville, KY.

\*# Kim, S. J. & Hill, R. B. (2008, February). South Korean work ethic constructs. Paper presented at the annual meeting of the Academy of Human Resource Development International Research Conference in the Americas, Panama City, FL.

\* Hill, R. B. & Petty, G. C. (2007, December). Work Ethic in the twenty-first century: A ten year comparison. Paper presented at the annual meeting of the Association for Career and Technical Education, Las Vegas, NV.

Denson, C., Avery, Z. & Hill, R. B. (2007, March). African American students' perceptions of technical careers. Paper presented at the annual meeting of the Council on Technology Teacher Education of the International Technology Education Association, San Antonio, TX.

\* Shumway, S., Merrill, C., Hill, R. B. & Welty, K. (2007, March). Integrating engineering into technology teacher education. Paper presented at the annual meeting of the Council on Technology Teacher Education of the International Technology Education Association, San Antonio, TX.

Gregson, J. A., Rojewski, J. W., Jacobs, J. B., McKinney, F. L., McCaslin, N. L., & Hill, R.B. (2006, November). Current and future directions of research in career and technical education. Paper presented at the annual meeting of the Association for Career and Technical Education; Atlanta, GA.

Asunda, P & Hill, R. B. (2006, March). Critical features of engineering design in technology education. Paper presented at the annual meeting of the Council on Technology Teacher Education of the International Technology Education Association, Baltimore, Maryland.

Hill, R. B. & Wicklein, R. C. (2005, December). Engineering design: Present status and potential future for technology education. Paper presented at the annual meeting of the Association for Career and Technical Education, Kansas City, Missouri.

Feng, H. & Hill, R. B. (2005, October). Using technology to facilitate work ethic instruction. Paper presented at the annual international meeting of the Association for Educational Communications and Technology, Orlando, Florida.

Reed, P., Hill, R. B., Hoepfl, M., Brusic, S., & McLaughlin, C. (2005, March). Money, Money Everywhere. Paper presented at the annual meeting of the Council on Technology Teacher Education of the International Technology Education Association, Kansas City, Missouri.

Hill, R. B. (2005, February). Coming together: Technology education, business education, and engineering design. Paper presented at the 42<sup>nd</sup> Annual Southeastern Business and Marketing Education Conference, Athens, Georgia.

Hill, R. B. & Harnish, D (2004, December). Global perspectives on work ethic. Paper presented at the annual meeting of the Association for Career and Technical Education, Las Vegas, Nevada.

Hill, R. B., Schell, J. W., Petty, G. C., & Thompson, B. (2004, December). Do career and technical education programs prepare students for the world of work. Paper presented at the annual meeting of the Association for Career and Technical Education, Las Vegas, Nevada.

Petty, G. C., Hill, R. B., Brewer, E. W., & Donan B. (2004, December). The winds of change and the future of technology education. Paper presented at the annual meeting of the Association for Career and Technical Education, Las Vegas, Nevada.

\*\* Hill, R. B. (2004, November). Technology teacher education and engineering design. 91<sup>st</sup> Annual Mississippi Valley Technology Teacher Education Conference, Rosemont, IL

Hill, R. B. (2004, February). Work ethic instruction as a component of business and marketing education. Paper presented at the 41<sup>st</sup> Annual Southeastern Business and marketing Education Conference, Athens, Georgia.

Petty, G. C., & Hill, R. B. (2003, December). School-to-work participants: How they rate on work ethic and teamwork. Paper presented at the annual meeting of the Association for Career and Technical Education, Orlando, Florida.

\* Hoepfl, M., & Hill, R. B. (2003, March). Technology and society: Classroom strategies for addressing the standards. Paper presented at the annual meeting of the International Technology Education Association, Nashville, Tennessee.

\* Hill, R. B., Wallin, D., Robinson, N., & Palmer, L. (2002, December). The effectiveness of post-secondary work ethic instruction. Paper presented at the annual meeting of the Association for Career and Technical Education, Las Vegas, Nevada.

\* Schell, J. W., Hill, R. B., & Dewey, G. G. (2002, December). Using technology to build a community of learners. Paper presented at the annual meeting of the Association for Career and Technical Education, Las Vegas, Nevada.

# Hill, R. B. (2002, December). President's Address; NAITTE Breakfast and Business Meeting. Presented at National Association of Industrial and Technical Teacher Educators, Las Vegas, Nevada.

\* Hill, R. B., & Dewey, G. G. (2002, March). Ethics and the study of technology: Preparation for citizenship in a technological world. Council on Technology Teacher Education Special Interest Session at the annual meeting of the International Technology Education Association, Columbus, Ohio.

\* Hill, R. B., & Schell, J. W. (2001, December). Authentic assessment using Web-based materials. Paper presented to the National Association of Industrial and Technical Teacher Educators Special Interest Session at the annual meeting of the Association for Career and Technical Education, New Orleans, Louisiana.

\* Hill, R. B., & Dewey, G. G. (2001, March). Moral and ethical issues related to appropriate technology. Poster session presented at the annual meeting of the International Technology Education Association, Atlanta, Georgia.

\* Hill, R. B., & Petty, G. C. (2000, December). What every teacher needs to know about web-based instruction. Paper presented to the National Association of Industrial and Technical Teacher Educators Special Interest Session at the annual meeting of the Association for Career and Technical Education, San Diego, California.

- \* Hill, R. B., & Wicklein, R. C. (2000, April). What will it take? Preparing holistic technology education teachers. Poster session presented at the annual meeting of the International Technology Education Association, Salt Lake City, Utah.
- \* # Hill, R. B. & Wicklein, R. C. (1999, December). Technology teacher education and the changing roles of technology education teachers. Paper presented to the TED/NAITTE Research Symposium at the annual meeting of the Association for Career and Technical Education, Orlando, Florida.
- \* Hill, R. B. (1999, December). Developing a Chinese language web site for work ethic instruction. Paper presented to the New and Related Services Division / IVETA at the annual meeting of the Association for Career and Technical Education, Orlando, Florida.
- \* Bozarth, D. J. & R. B. Hill (1999, December). The role of mentoring in professional development. Paper presented to the NAITTE Special Interest Session at the annual meeting of the Association for Career and Technical Education, Orlando, Florida.
- \* Wicklein, R. C., Hill, R. B., & Kachmar, C. (1999, March). Applications of appropriate technology design criteria in technology education. Poster session presented at the annual meeting of the International Technology Education Association, Indianapolis, Indiana.
- \*\* Hill, R. B., Scott, J. L., & Petty, G. C. (1998, December). Strategies for encouraging a positive work ethic through formal and informal instructional activities. Paper presented to the National Association of Industrial and Technical Teacher Educators Special Interest Session at the annual meeting of the American Vocational Association, New Orleans, Louisiana.
- \* Hill, R. B., Mrotek, L., & Wincapaw, M. (1998, December). Work ethic instruction using the World Wide Web in a career pathways program. Paper presented to the New and Related Services Division at the annual meeting of the American Vocational Association, New Orleans, Louisiana.
- \* Wicklein, R. C. & Hill, R. B. (1998, March). Appropriate technology and the technology education curriculum. Paper presented at the annual meeting of the International Technology Education Association, Fort Worth, Texas.
- # Wicklein, R. C. & Hill, R. B. (1998, March). Identifying the mental processes for solving technological problems. Poster session presented at the annual meeting of the International Technology Education Association, Fort Worth, Texas.
- \* # Hill, R. B. & Wicklein, R. C. (1997, December). A factor analysis of mental processes for problem solving. Paper presented to the TED/NAITTE Research Symposium at the annual meeting of the American Vocational Association, Las Vegas, Nevada.

- \* # Hill, R. B., Mrotek, L., & Wincapaw, M. (1997, December). Incorporating work ethic instruction within a career pathways program. Paper presented to the New and Related Services Division at the annual meeting of the American Vocational Association, Las Vegas, Nevada.
- \* Hill, R. B. & Petty, G. C. (1997, December). Work ethic instruction using the world wide web. Paper presented to the Guidance Division at the annual meeting of the American Vocational Association, Las Vegas, Nevada.
- \* # Rojewski, J. W. & Hill, R. B. (1997, December). Do gender and academic risk matter? Influences on career decision making and occupational choice. Paper presented to the American Vocational Education Research Association at the annual meeting of the American Vocational Association, Las Vegas, Nevada.
- \* Womble, M. N. & Hill, R. B. (1997, December). Using the world wide web to enhance work ethic instruction in business education. Paper presented to the Business Education Division at the annual meeting of the American Vocational Association, Las Vegas, Nevada.
- \* Hill, R. B. & Petty, G. C. (1997, December). Work ethic instruction using the World Wide Web. Paper presented to the Guidance Division at the annual meeting of the American Vocational Association, Las Vegas, Nevada.
- \*\* # Hill, R. B. & Somers, J. A. (1997, May). Integrating technology in a college of education. Invited paper presented at the National Association of State Directors of Teacher Education and Certification, Savannah, GA.
- # Hill, R. B. (1997, March). Frequency and duration of mental processes as an indicator of student performance. Poster session presented at the annual meeting of the International Technology Education Association, Tampa, FL.
- Alexander, C., Hill, R. B., Ivey, R., Moore, R., Newton, J., & Price, S. (1997, March). Technology education in Georgia: Modular education and beyond. Interest session presentation at the annual meeting of the International Technology Education Association, Tampa, FL.
- \* Hill, R. B. (1996, December). Frequency-duration assessment of mental processes for problem-solving. Paper presented to the TED/NAITTE Research Symposium at the annual meeting of the American Vocational Association, Cincinnati, Ohio.
- \* # Hill, R. B., Petty, G. C., & Cory, Jo Ann (1996, December). Is the work ethic history? A comparison of the work ethic of adolescents and adults. Paper presented to the Technology Education Division at the annual meeting of the American Vocational Association, Cincinnati, Ohio.

\* Hill, R. B. & Rojewski, J. W. (1996, December). Work ethic of at-risk youth. Paper presented to the American Vocational Education Research Association at the annual meeting of the American Vocational Association, Cincinnati, Ohio.

\* # Cory, J. A. & Hill, R. B. (1996, December). The effects of work ethic instruction. Paper presented to the Omicron Tau Theta Professional Studies Seminar at the annual meeting of the American Vocational Association, Cincinnati, Ohio.

\* Schell, J. W., Brown, T., & Hill, R. B. (1996, December). Exploring situated learning as a foundation for professional development. Paper presented to the Adult Vocational Education Association at the annual meeting of the American Vocational Association, Cincinnati, Ohio.

Hill, R. B. (1996, October). The internet and web pages in the technology education lab: Versatile resource for the information age. Paper presented at the Georgia Industrial Technology Education Association Fall Conference, Valdosta, GA.

Hill, R. B. (1996, April). Internet in the classroom. Paper presented at the Georgia Industrial Technology Education Association Spring Conference, Macon, GA.

# Hill, R. B. (1996, April). Getting started with HTML: Developing your own homepage. Paper presented at the Georgia Industrial Technology Education Association Spring Conference, Macon, GA.

# Hill, R. B. (1996, April). Work ethic of adolescent youth: Can technology education make a difference? Poster session presented at the annual meeting of the International Technology Education Association, Phoenix, AZ.

# Petty, G. C. & Hill, R. B. (1996, March). Essential elements of work: A factor analysis of the Occupational Work Ethic. Paper presented at the annual meeting of the Academy of Human Resource Development, Milwaukee, WI.

# Hill, R. B. & Petty, G. C. (1995, December). Work ethic constructs for peak performance. Paper presented at the annual meeting of the American Vocational Education Research Association, Denver, CO.

Hill, R. B. & Wicklein, R. C. (1995, October). Web page development for communication systems. Paper presented at the Georgia Industrial Technology Education Association Fall Conference, Jonesboro, GA.

Hill, R. B. (1995, May). The crash: Considering work ethic in an ill-structured problem. Paper presented at the Georgia Industrial Technology Education Association Spring Conference, Macon, GA.



Hatcher, T., Petty, G., & Hill, R. (1995, March). The work ethic: Measurement and research implications. Paper presented at the annual meeting of the National Society for Performance and Instruction, Atlanta, GA.

\* # Wicklein, R. C. & Hill, R. B. (1995, March). The path less traveled: A researcher's perspective of the critical issues and problems in technology education. Poster session presented at the annual meeting of the International Technology Education Association, Nashville, TN.

\* Hill, R. B. & Petty, G. C. (1994, December). Ready or not, work ethic is needed: Using the OWEI to guide work ethic preparedness. Paper presented to the Guidance Division at the annual meeting of the American Vocational Association, Dallas, TX.

\* # Wicklein, R. C. & Hill, R. B. (1994, December). Obstacles impacting the future of technology education: A factor analysis of critical issues and problems in technology education. Paper presented at the annual meeting of the American Vocational Association TED/NAITTE Research Symposium, Dallas, TX.

\* # Wicklein, R. C., Hill, R. B., Daugherty, M. K. (1994, December). Technology education in transition: Perceptions of teachers, administrators, and guidance counselors. Paper presented at the annual meeting of the American Vocational Education Research Association, Dallas, TX.

Hill, R. B. & Wicklein, R. C. (1994, October). Problem solving: What we are doing and why. Paper presented at the Georgia Industrial Technology Education Association Fall Conference, Statesboro, GA.

Hill, R. B. (1994, February). The work ethic: Nostalgia or necessity for the workforce of the 90s. Paper presented at the meeting of the 31st Annual Southeastern Business Education Conference, Athens, GA.

# Wicklein, R. C.; Schell, J. W.; & Hill, R. B. (1993, October). Integrated programs of mathematics, science, and technology education: An exploratory study. Paper presented at the annual meeting of the Southeastern Technology Education Association, Atlanta, GA.

# Wicklein, R. C. & Hill, R. B. (1993, October). Identifying critical issues and problems in technology education using a modified-delphi technique. Paper presented at the meeting of the annual meeting of the Georgia Industrial Technology Education Association, Rome, GA.

\* # Hill, R. B. (1992, December). The work ethic as determined by occupation, education, age, gender, work experience, and empowerment. Paper presented at the annual meeting of the American Vocational Education NAITTE Graduate Research Symposium, St. Louis, MO.

### **Other Invited Presentations and Workshops:**

Hill, R. B. (2018). Engineering Education Outreach Programs. GA DOE Curriculum Supervisors' Meeting.

Hill, R. B. & Smith, C. (2016, November). The World is Flat and a Robot Just Took My Job: Why Work Ethic Matters. GA DOE CTAE Work Based Learning and Youth Apprenticeship Conference, Buford, GA.

Hill, R. B. (2015, November). A framework for 21st century work preparation. 2015 Industrial Summit, North Georgia Technical College, Clarkesville, GA.

Kim, C. & Hill, R. B. (2015, November). Robotics to engage teachers in STEM teaching. Presentation for the UGA COE Research Colloquium, Athens, Georgia.

Hill, R. B. (2014, August). UGA STEM initiatives. Presentation for meeting of the Georgia Youth Science Technology Centers, Athens, Georgia

Kim, C., Yuan, J., Kim, D., Doshi, P., Thai, C. N., Hill, R. B., & Melias, E. (2015, March). A portal to support educational robotics. UGA COE Research Conference, Athens, GA.

Hill, R. B. (2011, October 27). Teaching for learning as we learn to teach. Invited presentation to faculty and students at Hanyang University; Seoul, South Korea.

Hill, R. B., Rojewski, J. W., & Lee, I. H. (2011, October 25). Trends in education and research at the University of Georgia. Invited presentation to faculty and students at Suncheon National University; Suncheon, South Korea.

Hill, R. B. (2011, October 19). University and public school partnerships using a professional development school model. Invited presentation to faculty and students at Seoul National University; Seoul, South Korea.

Hill, R. B. (2011, October 18). STEM trends in CTE. Invited presentation to faculty and students at Chungnam National University; Daejeon, South Korea.

Hill, R. B. (2009, June). CTE & FCS in a flat world. Presentation at the University of Georgia College of Family and Consumer Sciences *Summer College*; Athens, GA.

Hill, R. B. (2009, January). Work ethic: Key component for work-based learning programs. Presentation at the Regional Youth Apprenticeship / Work-Based Learning Workshop; Athens, GA.

Miller, K., Riddleberger, D., Foutz, T., Thompson, S., & Hill, R. B. (2008, September). CLIMS: Enhancing learning in mathematics and science through engineering design. Invited presentation for the *Accepting the STEM Challenge* PRISM Conference, Atlanta, GA.

Foutz, T., Thompson, S., & Hill, R. B. (2008, August). Enhancing learning in mathematics and science through engineering design. Invited presentation for the Northeast Georgia RESA Mathematics and Science Teacher Collaborative, Athens, GA.

Wicklein, R. C. & Hill, R. B. (2007, October). University of Georgia and the National Center for Engineering and Technology Education. Presentation at the Georgia Engineering and Technology Education Association Fall Conference, Conyers, GA.

Hill, R. B. (2007, October). Work ethic culture in our schools. Invited presentation for the Coweta County School System Leadership Academy, Newnan, GA.

Hill, R. B. (2007, October). Analyzing the CEC high school approach to work ethic. Invited presentation for the Central Educational Center faculty, staff, and community, Newnan, GA.

Hill, R. B. (2007, September). Work ethic: Key to economic development. UGA Fanning Institute, Athens, GA.

Hill, R. B. (2007, June). Work ethic and EnterpriseSouth.biz. Invited presentation at the Southern Growth Policies Board's Southern Workforce Summit conference hosted by Missouri Governor Matt Blunt, St. Louis, MO.

Hill, R. B. (2007, April). Creating a strong work ethic. Invited presentation for the Licking County Workforce Summit, Newark, OH.

Hill, R. B. (2005, October). Georgia technology education online culminating assessment. Presentation at the Georgia Industrial Technology Education Association Fall Conference, Savannah, GA.

\* # \*\* Hill, R. B. (2003, January). Ethics and values: Essential components of technology education in the United States. Presented at the Initiatives in Technology Education – Comparative Perspectives forum at the Sheraton Mirage Gold Coast; Queensland, Australia.

Hill, R. B. (2002, May). Using Macromedia Flash in communication systems. Presentation at the Georgia Industrial Technology Education Association Spring Conference, McDonough, GA.

Hill, R. B. (2001, October). Technology education program certification: Updated status report. Presentation at the Georgia Industrial Technology Education Association Fall Conference, Athens, GA.

\*\* Hill, R. B. (2001, October). Employability skills: A quality work force. Presentation at South East Texas Regional Planning Commission and Deep East Texas Council of Governments *Summit on Regionalism*, Beaumont, TX.

\*\* Hill, R. B. (2000, October). Technology education program certification. Presentation at the Georgia Industrial Technology Education Association Fall Conference, Statesboro, GA.

Hill, R. B. (2000, October). Ethics for citizenship in a technological world. Presentation at the Georgia Industrial Technology Education Association Fall Conference, Statesboro, GA.

Hill, R. B. (2000, May). Work ethics in the information age. Presentation at the Georgia Industrial Technology Education Association Spring Conference, Macon, GA.

Hill, R. B. (1999, May). Maximum impact PowerPoint presentations. Presentation at the Georgia Industrial Technology Education Association Spring Conference, Macon, GA.

Wicklein, R. C. & Hill, R. B. (1999, March). Stimulating research in technology education. Research workshop funded by the Council on Technology Teacher Education conducted as a 2-day pre-session at the 1999 International Technology Education Association Annual Conference.

Hill, R. B. (1999, February). Electronic presentations: Maximizing your power with PowerPoint. Presentation at the Agricultural Education Mid-Winter Conference, Covington, GA.

Hill, R. B. (1998, October). Introduction to designing and building your own web pages. Instructional session presented at the Georgia Industrial Technology Education Association Fall Conference, Carrollton, GA.

Hill, R. B. (1998, May). Strategies for organizing and preparing materials for review. Presentation in conjunction with the College of Education Promotion and Tenure Seminar, The University of Georgia, Athens, GA.

Hill, R. B. (1997, October). Hands-on internet workshop. Instructional session presented at the Georgia Industrial Technology Education Association Fall Conference, Thomson, GA.

Hill, R.B. (1997, May). Work ethic research and instructional resources. Invited paper presented at the Psychology Consortium In-Service meeting for all psychology instructors at Technical Institutes in Georgia, Forsyth, GA.

Schell, J., Hill, R. B., & Brown, T. (1995, November). Situated cognition exploration group, retreat #1. Professional Development Activity, Occupational Research Group (UGA), and Georgia Department of Adult and Technical Education, Unicoi State Park, GA.

Schell, J., Hill, R. B., & Evanciew, C. (1995, June). Situated cognition exploration group, retreat #3. Professional Development Activity, Occupational Research Group (UGA), and Georgia Department of Adult and Technical Education, Jykell Island, GA.

Schell, J., Hill, R. B., & Evanciew, C. (1995, March). Situated cognition exploration group, retreat #2. Professional Development Activity, Occupational Research Group (UGA), and Georgia Department of Adult and Technical Education, Stone Mountain, GA.

### **Public Service:**

### **Institutional External Reviewer**

2018 – Secondary Education Program Review, Department of Curriculum and Instruction, East Tennessee State University, Johnson City, Tennessee

2015 – Graduate Program Review, Department of Family and Consumer Sciences Education, Texas Tech University, Lubbock, Texas

### **External Review Letters for Promotion & Tenure**

2018 – One: University of Arkansas

2017 – Six: University of Illinois Urbana-Champaign, Louisiana State University, Texas A&M University, NC State University, Old Dominion University, Virginia Tech

2015 – Two: Auburn University, Brigham Young University

2014 – One: Purdue University

2013 – Four: Purdue University, Virginia Tech, Brigham Young University, University of West Florida

2012 – Three: Old Dominion University, University of North Texas, Western Michigan University

### **External Reviewer for Conference**

2016 10th annual International Technology, Education and Development Conference (INTED) Advisory Board; Valencia, Spain; 7th - 9th of March, 2016. Reviewed ten conference papers.

### **Georgia Department of Education**

**Georgia SoftSkills/Employability Skills Task Force**, (2016-2017) Member of task force developing recommendations, goals, and strategies for improving work ethic and employability skills for students in K-12 schools in Georgia.

**Georgia Performance Standards (GPS) End-of-Pathway Assessment Committee,** (2007-2008) Member of committee charged with developing end-of-pathway assessment for Engineering Pathway. Instrument will be administered to students completing this pathway as evidence of competence in this area of study.

**Georgia Performance Standards (GPS) Curriculum Committee,** (2006-2007)  
Chairperson for committee charged with developing performance standards for high school Engineering and Technology Education programs in Georgia. Provided leadership for creation of Manufacturing Pathway, Energy Systems pathway, and Electronics Pathway and three associated courses for each pathway to be offered for high school students across the state.

**Georgia Performance Standards (GPS) Curriculum Committee,** (2005-2006)  
Chairperson for committee charged with developing performance standards for high school Engineering and Technology Education programs in Georgia. Provided leadership for creation of Engineering Pathway and four associated courses to be offered for high school students across the state. Developed proposal for Science, Technology, Engineering, and Mathematics (STEM) performance standards applicable to all Engineering and Technology courses offered in Georgia.

### **Professional Associations**

**Co-Director of the 21<sup>st</sup> Century Leadership Academy.** (2006-2018). International Technology and Engineering Educators Association, Reston, VA. Project to guide leadership development in yearly cohorts of early career faculty and practitioner professionals in the field of engineering and technology education. Eleven classes completed as of March 2017.

**International Technology Education Association.** (2004, April). Reviewer for Technology Education Program Certification; Mundy's Mill High School, Jonesboro, GA & North Clayton High School, College Park, GA.

**Georgia Technology Student Association.** (2013, March; 2012, March; 2011, March; 2005, April; 2004, April; 2003, April; 2002, April; 1999, April; 1998, April; 1996, May; 1995, April). Served as a judge for annual Georgia Technology Student Association Conference in Perry, GA and Athens, GA. Evaluated student participation in competitive events.

**Georgia Industrial Technology Education Association.** (1998, November). Participant in Jackson Lake Strategic Planning Project, representing university teacher education programs, as plans were made for future directions for the GITEA. Covington, GA.

**Georgia Technology Student Association.** (1997, September). Served as a college representative on the Georgia TSA Strategic Planning Meeting in Covington, GA. Provided guidance and assistance in planning future directions for this state organization.

**Georgia Industrial Technology Education Association, Area 2.** (1996, February). Internet and World Wide Web presentation for semi-annual meeting in Athens, GA. Advised

area technology teachers about ways to get connected to the internet for instructional use and what resources are available to assist them in their courses.

**Georgia Industrial Technology Education Association.** (1995, May). Statewide internet workshop conducted at the university in the departmental computer lab for technology education teachers from across the state. Assisted teachers in establishing email accounts, provided instruction on use of email and other internet resources, and discussed ways of using the internet in instruction.

**Georgia Technology Student Association.** (1994, April). Provided assistance and served as judge for student competitive events at the 32nd annual Georgia Technology Student Association Conference in Atlanta, GA. Evaluated student work in areas of video production and aerospace technology.

### **Schools**

**Roosevelt Warm Springs Institute for Rehabilitation.** (1996, May-June). Provided 2 days of professional development instruction for Roosevelt Institute staff and administrators in use of microcomputers and information systems resources.

**Lovejoy High School.** (1996, February). Guest speaker for the Technology Department Career Day program at Lovejoy High School, Hampton, GA. Topic presented was Research, teaching, and service: The work of a university professor.

### **Other Service:**

#### **National Professional Organizations:**

Co-Chairperson (2005-2017), Council on Technology and Engineering Teacher Education Leadership Development Committee

Past-President / Trustee (2003-2005), National Association of Industrial and Technical Teacher Educators

Member (2005-2009), Yearbook Committee, Council on Technology Teacher Education

President (2001-2003), National Association of Industrial and Technical Teacher Educators

Member (2000-2001), International Technology Education Association 63<sup>rd</sup> Annual Conference Local Planning Committee

President-Elect (1999-2001), National Association of Industrial and Technical Teacher Educators

Secretary (1995-1999), National Association of Industrial and Technical Teacher Educators

Auditor (1995), National Association of Industrial and Technical Teacher Educators

Member (1995-2005), Research Committee, Council on Technology Teacher Education

Member (1994-1998), Research Committee, Technology Education Division, American Vocational Association

Member (1995-1996), Program Committee, 1996 Annual National Extension Technology Conference, Atlanta, GA

**State Professional Organizations:**

Technology Education Affiliate Representative (1998), Public Relations Committee of the Georgia Vocational Education Association

Co-Chairman (1994-1997), Georgia Industrial Technology Education Association Area 2

College Representative (1996-1998), Technology Education Affiliate, Georgia Vocational Association

**Local:**

Member Technology/Career Education Advisory Committee (1999-2011), Oconee County High School.

**The University of Georgia:**

Member (2016-2017), COST Advisory Committee. College of Education, University of Georgia, Athens, GA.

Member (2015-2017), College of Education Faculty Senate, University of Georgia, Athens, GA.

Member (2014-2015), University of Georgia Program Review and Assessment Committee, University of Georgia, Athens, GA.

Member (2013-2014), College of Education Faculty Awards Committee, University of Georgia, Athens, GA.



Member (2005-2007), College of Education Research Advisory Committee, University of Georgia, Athens, GA.

Member (2003-2006), College of Education Curriculum Committee, University of Georgia, Athens, GA.

**Roger B. Hill, Ph.D.**  
**University of Georgia**

Roger B. Hill is Department Head of Mathematics and Science Education and a Professor for the Department of Career and Information Studies teaching in the Program of Workforce Education at the University of Georgia. He holds an undergraduate degree from North Carolina State University and a Master's degree from Northern Illinois University. Dr. Hill received a Ph.D. in 1992 from the University of Tennessee with a major in Technological and Adult Education.

Dr. Hill's professional experience includes four years teaching at the high school level and he joined the faculty at the University of Georgia in 1993. He is recognized nationally for his writing, online materials, and scholarly work related to work ethic and work attitudes. His research agenda focuses on affective characteristics necessary for success in information age occupations. He has integrated this line of research with instructional responsibilities related to science, technology, engineering, and mathematics (STEM) education, computer information systems, and human resource development.