

Dr. A. Faye Borthick
Professor, School of Accountancy
Georgia State University
Mail: PO Box 3989 Atlanta Georgia 30302-3989
Office: 35 Broad St. 500; phone: 404 413-7239; fax: 404 413-7203; cell: 678 923-1459
borthick@gsu.edu; borthick.acct.gsucreate.org/borthick.htm

Education

Doctor of Business Administration (Accounting), University of Tennessee, 1982
Master of Business Administration (Accounting), University of Tennessee, 1981
Bachelor of Science (Mathematics), University of Tennessee, 1970

Licensures and Certifications

CPA (Certified Public Accountant) (Inactive), Tennessee
CMA (Certified Management Accountant)
CISA (Certified Information Systems Auditor)
CDP (Certificate in Data Processing)

Research and Publications Rankings

2017-2019 BYU Ranking of publications in accounting: 3rd Overall for Educational Research and Cases for 20 years; 2nd for Cases for the last 12 years

Ranking of First for 6-, 12-, and 24-Year Journal Citations to Refereed Accounting Education Cases. Ranking of First for 6- and 12 Year Journal Citations to Refereed Accounting Education Research and Cases. Ranking in Metcalf, M., K. Stocks, S. L. Summers, and D. A. Wood. 2015. Citation-based accounting education publication rankings. *Journal of Accounting Education* 33:294-308.

Ranking of Second for 6- and 12-Year Individual Accounting Education Research Productivity. Ranking in Holderness, Jr., D. K., N. M. Myers, S. L. Summers, and D. A. Wood. 2014. Accounting education research: Ranking institutions and individual scholars. *Issues in Accounting Education* 29(1): 87-115.

Ranking of Tenth (of 176 Graduates) in the Most Productive Accounting Doctorates by Publication in the Best 40 Journals for the Doctoral Year of 1982. Ranking in Hasselback, J. R., A. Reinstein, and M. Abdolmohammadi. 2012. Benchmarking the research productivity of accounting doctorates. *Issues in Accounting Education* 27(4): 943-978.

Awards and Honors

American Accounting Association Accounting Information Systems Section 2020 Midyear Meeting Best Education Paper Award sponsored by the IMA: The Association of Accountants and Financial

Professionals in Business for “Improving spreadsheet proficiency with guided modeling experience”

American Accounting Association 2019 Innovation in Accounting Education Award, sponsored by EY, for “Analyzing data for decision making: Integrating spreadsheet modeling and database querying,” published in *Issues in Accounting Education* February 2017.

American Accounting Association Teaching, Learning and Curriculum Section 2019 Outstanding Instructional Contribution in Accounting Award, sponsored by Deloitte, for “Minimizing cognitive load in representing processes in a business process diagram: Capturing the process and making inferences about it,” published in *Issues in Accounting Education* February 2018.

American Accounting Association Accounting Information Systems Section 2019 Midyear Meeting Best Education Paper Award sponsored by the IMA: The Association of Accountants and Financial Professionals in Business for “How to create data analytic cases as design science”

American Accounting Association Accounting Information Systems Section 2018 Midyear Meeting Best Education Paper Award sponsored by the IMA: The Association of Accountants and Financial Professionals in Business for “Distinguishing independent contractors from employees: Analyzing company practices and compensation data to assess compliance with IRS factors”

American Accounting Association Accounting Information Systems Section 2017 *Journal of Information Systems* Outstanding Editor Award

American Accounting Association Accounting Information Systems Section 2017 Midyear Meeting Outstanding Education Paper Award sponsored by the IMA: The Association of Accountants and Financial Professionals in Business for “Minimizing cognitive load in representing processes in a business process diagram: Capturing the process and making inferences about it”

American Accounting Association Accounting Information Systems Section 2016 Midyear Meeting Outstanding Education Case Award sponsored by the IMA: The Association of Accountants and Financial Professionals in Business for “Building skills in data analytics: Bridging the gap between spreadsheet modeling and database querying”

American Accounting Association Accounting Information Systems Section 2015 Mid-Year Meeting Outstanding Education Case Award Sponsored by KPMG for “From an unstructured business situation to business insights: Making data give up their secrets with database querying”

American Accounting Association Information Systems Section 2013 Midyear Conference Best Education Paper Award sponsored by the IMA: The Association of Accountants and Financial Professionals in Business for “From an unstructured business situation to business insights: Making data give up their secrets with database querying”

Georgia State University Instructional Effectiveness Award, 2010

American Accounting Association Information Systems 2010 Midyear Meeting Outstanding Accounting Information System Case Award for “Using graphical representations of business processes in evaluating internal control”

American Accounting Association Information Systems 2009 Midyear Meeting Best Paper— Education Award for “Preparing graphical representations of business processes and making inferences from them”

American Accounting Association Teaching and Curriculum Section 2008 Research in Accounting Education Award for “Improving performance in accounting: Evidence for insisting on cognitive conflict tasks”

American Accounting Association Information Systems 2007 Midyear Conference Outstanding Education Paper Award for “Auditing system development: Constructing the meaning of ‘systematic and rational’ in the context of legacy code migration for vendor incentives”

Georgia State University Instructional Effectiveness Award, 2006

University of Waterloo Symposium on Information Systems Assurance Case Competition Award, 2005

Georgia State University Instructional Innovation Award, 2004

American Accounting Association Information Systems 2004 Midyear Conference Best Paper— Education Award for “Analyzing a potential warranty call center budget overrun: Using database queries to solve business problems”

Twelfth International Conference on College Teaching and Learning Award for Innovative Excellence in Teaching, Learning and Technology, 2001

Georgia State University Robinson College of Business Faculty Recognition Award, 2000

American Accounting Association 2000 Innovations in Accounting Education Award supported by the Ernst & Young Foundation for “Collaborative discovery learning online in an information systems assurance course”

Gallery Project, AAA/AICPA Teaching with Technology Toolkit CD-ROM, 1999

Georgia State University School of Accountancy Outstanding Faculty Achievement Award, 1999

American Institute of Certified Public Accountants 1999 Innovative User of Technology in Education Award

Certificate of Merit, *Management Accounting*, Lybrand Manuscript Competition, 1997-98

Article of Merit, Financial and Management Accounting Committee (FMAC) (International Federation of Accountants) Article Award for Distinguished Contribution to Management Accounting, 1993

Certificate of Merit, *Management Accounting*, Lybrand Manuscript Competition, 1993-94

Certificate of Merit, *Management Accounting*, Lybrand Manuscript Competition, 1992-93

Zertifikat Deutsch als Fremdsprache (befriedigend), Goethe-Institut, 1992

Certificate of Merit, *Management Accounting*, Lybrand Manuscript Competition, 1990-91

University of Tennessee Pugh & Company Accounting Faculty Excellence Award, 1990

Certificate of Merit, *Management Accounting*, Lybrand Manuscript Competition, 1988-89

Outstanding Teacher Award, University of Georgia, 1984

Bonham Dissertation Fellowship, 1982

Information Systems Doctoral Consortium, 1981

Roseberry Physics Award, 1970

Honorary Society Memberships

Beta Alpha Psi

Beta Gamma Sigma

Phi Beta Kappa

Phi Kappa Phi

Sigma Pi Sigma

Alpha Lambda Delta

Academic and Professional Positions

Academic

Professor, School of Accountancy, Georgia State University, 1994-present

Director, Teaching and Learning with Technology Center, Georgia State University, 2001-2007

Associate Professor, University of Tennessee, 1988-1994

Assistant Professor, University of Tennessee, 1984-1988

Assistant Professor, University of Georgia, 1982-1984

Instructor (Computer Science), University of Tennessee, 1970-1974

Professional

Faculty Resident, Ernst & Whinney, Accounting and Auditing Computer Auditing, Cleveland, OH, 1982

Supervisor of User Services, University of Tennessee Computing Center, 1974-1982

Research

Published Intellectual Contributions

Refereed Journal Articles

Borthick, A. F., and L. N. Smeal. Forthcoming. Data analytics in tax research: Analyzing worker agreements and compensation data to distinguish between independent contractors and employees using IRS factors. *Issues in Accounting Education*. Received the American Accounting Association Accounting Information Systems Section 2018 Midyear Meeting Outstanding Education Paper Award Sponsored by the Institute for Management Accountants.

Borthick, A. F., and G. P. Schneider. 2018. Minimizing cognitive load in representing processes in a business process diagram: Capturing the process and making inferences about it. *Issues in Accounting Education* 33(1): 75-88. Received the American Accounting Association Accounting Information Systems Section 2017 Midyear Meeting Outstanding Education Paper Award Sponsored by the Institute for Management Accountants.

Borthick, A. F., and R. R. Pennington. 2017. When data become ubiquitous, what becomes of accounting and assurance? *Journal of Information Systems* 31(2): 1-4.

Borthick, A. F., G. P. Schneider, and T. R. Viscelli. 2017. Analyzing data for decision making: Integrating spreadsheet modeling and database querying. *Issues in Accounting Education* 32(1): 59-66. Received the American Accounting Association Information Systems 2016 Midyear Conference Outstanding Education Case Award sponsored by the Institute of Management Accountants.

Borthick, A. F., and G. P. Schneider. 2016. Detecting errors in and making inferences from a business process representation. *Journal of Emerging Technologies in Accounting* 13(2): 185-194.

Sargent, C. S. and A. F. Borthick. 2013. Evidence for insisting on cognitive conflict tasks: Impact on accounting majors in upper-level courses. *Issues in Accounting Education* 28(4): 759-777.

Springer, C. W., Borthick, A. F., Lederberg, A. R., and R. Haardörfer. 2013. A low-maintenance approach to improving retention: Short on-line tutorials in elementary statistics. *Journal of College Student Retention* 14(4): 549-566.

Borthick, A. F. 2012. Designing continuous auditing for a highly automated procure-to-pay process. *Journal of Information Systems* 26(2): 153-166.

Boritz, J. E., A. F. Borthick, and A. Presslee. 2012. The effect of business process representation type on assessment of business and control risks: Diagrams versus narratives. *Issues in Accounting Education* 27(4): 895-915.

Borthick, A. F., G. P. Schneider, and A. O. Vance. 2012. Using graphical representations of business processes in evaluating internal control. *Issues in Accounting Education* 27(1): 123-140. Received the American Accounting Association Information Systems 2010 Midyear Meeting Outstanding Case Award.

Sargent, C. S., A. F. Borthick, and A. R. Lederberg. 2011. Improving retention for principles students: Ultra-short on-line tutorials for motivating effort and improving performance. *Issues in Accounting Education* 26(4): 657-679.

Borthick, A. F., G. P. Schneider, and A. O. Vance. 2010. Preparing graphical representations of business processes and making inferences from them. *Issues in Accounting Education* 25(3): 569-582. Received the American Accounting Association Information Systems 2009 Midyear Meeting Outstanding Case Award.

Borthick, A. F., P. L. Bowen, and G. J. Gerard. 2008. Modeling a business process and querying the resulting database: Analyzing RFID data to develop business intelligence. *Journal of Information Systems* 22(2): 331-350.

Borthick, A. F. and M. B. Curtis. 2008. Due diligence on fast-fashion inventory through data querying. *Journal of Information Systems* 22(1): 77-93. Received a University of Waterloo Symposium on Information Systems Assurance Case Competition Award, 2005.

Borthick, A. F. and P. L. Bowen. 2008. Auditing system development: Constructing the meaning of "systematic and rational" in the context of legacy code migration for vendor incentives. *Journal of Information Systems* 22(1): 47-62. Received an American Accounting Association Information Systems Midyear Conference Best Paper Award, 2007.

Borthick, A. F. and D. R. Jones. 2007. Creating a business process diagram and database queries to detect billing errors and analyze calling patterns for cell phone service. *Journal of Information Systems* 21(1): 102-122.

Springer, C. W., and A. F. Borthick. 2007. Improving performance in accounting: Evidence for insisting on cognitive conflict tasks. *Issues in Accounting Education* 22(1): 1-19. Received the American Accounting Association Teaching and Curriculum Section 2007 Research in Accounting Education Award.

Borthick, A. F., M. B. Curtis, and R. S. Sriram. 2006. Accelerating the acquisition of knowledge structure to improve performance in internal control reviews. *Accounting, Organizations and Society* 31: 323-342.

Borthick, A. F. and D. R. Jones. 2005. Analyzing a potential warranty call center budget overrun: Using database queries to solve business problems. *Journal of Information Systems* 19(1): 97-111.

Springer, C. W., and A. F. Borthick. 2004. Business simulation to stage critical thinking in introductory accounting: Rationale, design and implementation. *Issues in Accounting Education* 19(3): 277-303.

Borthick, A. F. and J. E. Kiger. 2003. Designing audit procedures when evidence is electronic: The case of e-ticket travel revenue. *Issues in Accounting Education* 18(3): 275-290.

Borthick, A. F., D. R. Jones, and S. Wakai. 2003. Designing learning experiences within learners' zones of proximal development (ZPDs): Enabling collaborative learning on-site and on-line. *Journal of Information Systems* 17(1): 107-134.

Borthick, A. F., Bowen, P. L., Liew, S. T., and Rohde, F. H. 2001. The effects of normalization on end-user query errors: An experimental evaluation. *International Journal of Accounting Information Systems* 2: 195-221.

Borthick, A. F., Bowen, P. L., Liu, M. R., and Rohde, F. H. 2001. The effects of normalisation on the ability of business end-users to detect data anomalies: An experimental evaluation. *Journal of Research and Practice in Information Technology* 33(3): 239-262.

Borthick, A. F., Bowen, P. L., Jones, D. R., and Tse, M. H. K. 2001. The effects of information request ambiguity and construct incongruence on query development. *Decision Support Systems* 32: 3-25.

Borthick, A. F., Jones, D. R., and Kim, R. 2001. Developing database query proficiency: Assuring compliance for responses to Web site referrals. *Journal of Information Systems* 15(1): 35-56.

Borthick, A. F. 2000. Analysis of design from a community of practice dialogue: Negotiating the meaning of auditing information system development. *Journal of Information Systems* 14 (Supplement): 133-147.

Borthick, A. F., and Jones, D. R. 2000. The motivation for collaborative discovery learning online and its application in an information systems assurance course. *Issues in Accounting Education* 15(2): 181-210.

Curtis, M. B., and Borthick, A. F. 1999. Evaluation of internal control from a control objective narrative. *Journal of Information Systems* 13(1): 63-81.

Borthick, A. F., Bowen, P. L., and Sullivan, M. C. 1998. Controlling JIT II: Making the system monitor itself. *Journal of Cost Management* (July/August): 33-41.

Borthick, A. F., and Wentworth, G. P. 1998. Will your company be year 2000-compliant? *Management Accounting* 80(1), 31-36. Awarded a Certificate of Merit, Lybrand manuscript competition, 1997-98.

Borthick, A. F. and Roth, H. P. 1997. Faster access to more information for better decisions. *Journal of Cost Management* 10(4), 19-24. Discussion paper for the AICPA conference "Mapping the Future of Financial Management," April 24-25, 1995.

Borthick, A. F. and Roth, H. P. 1994. Understanding Client/Server Computing. *Management Accounting* 76(2), 36-41. Awarded a Certificate of Merit, Lybrand manuscript competition, 1993-94.

Borthick, A. F. and Roth, H. P. 1993. EDI for reengineering business processes. *Management Accounting* 75(4), 32-38. Awarded a Certificate of Merit, Lybrand manuscript competition, 1992-93. Named an Article of Merit, Financial and Management Accounting Committee (FMAC) (International Federation of Accountants) Article Award for Distinguished Contribution to Management Accounting, 1993.

Borthick, A. F. and Roth, H. P. 1993. Accounting for time: Reengineering business processes to improve responsiveness. *Journal of Cost Management* 7(3), 1-14.

Huss, H. F., Paetzold, R. L. and Borthick, A. F. 1993. The fraud-on-the-market theory: Its legal evolution and implications for auditing. *Advances in Public Interest Accounting* **5**, 145-157.

Borthick, A. F. and Roth, H. P. 1992. Will Europeans buy your company's products? *Management Accounting* **74**(1), 28-32; adapted in Borthick, A. F. and Roth, H. P. 1992. Will Europeans buy your company's products? *Business Credit* **94**(10), 23-24.

Roth, H. P. and Borthick, A. F. 1991. Are you distorting costs by violating ABC assumptions? *Management Accounting* **73**(5), 39-42. Awarded a Certificate of Merit, Lybrand manuscript competition, 1990-91. Reprinted in *Engineering Management Review* (1993) **21**(4), 45-48. Reprinted in *Activity-Based Management: Emerging Practices in Cost Management*, Brinker, B. J., ed., Warren, Gorham and Lamont, 1994.

Borthick, A. F., Clark, R. L. and Hollander, A. S. 1990. Making information systems work: An empirical investigation of the creative thinking paradigm. *Journal of Information Systems* **4**(3), 48-62.

Massingale, C. S. and Borthick, A. F. 1990. Risk allocation for computer system security breaches: Potential liability for system managers. *Western New England Law Review* **12**(2), 167-194.

Borthick, A. F. 1989. Validating spreadsheets: Minimizing the potential for errors. *EDPACS* **17**(3), 1-8.

Roth, H. P. and Borthick, A. F. 1989. Getting closer to *real* product costs. *Management Accounting* **70**(11), 28-33. Awarded a Certificate of Merit, Lybrand manuscript competition, 1988-89.

Borthick, A. F. 1989. The internal auditor as entrepreneur: Effectiveness in an automated environment. *Journal of Bank Accounting & Auditing* **2**(2), 13-15.

Borthick, A. F. 1988. Good software choices don't just happen. *CMA: Certified Management Accountant* **62**(9), 48-52 [English]; 53-57 [French].

Borthick, A. F. and Scheiner, J. H. 1988. Selection of small business computer systems: Structuring a multi-criteria approach. *Journal of Information Systems* **3**(1), 10-29.

Massingale, C. S. and Borthick, A. F. 1988. Risk allocation for injury due to defective medical software. *Journal of Products Liability* **11**(3), 181-198.

Borthick, A. F. and Clark, R. L. 1987. Research on computing in accounting education: Opportunities and impediments. *Issues in Accounting Education* **2**(2), 173-192.

Borthick, A. F. 1987. Artificial intelligence in auditing: Assumptions and preliminary development. *Advances in Accounting* **5**, 179-204.

Borthick, A. F. and Massingale, C. S. 1987. MAS opportunity: Helping clients negotiate computer contracts. *Georgia Journal of Accounting* **8**, 111-128.

Borthick, A. F. and Clark, R. L. 1987. Improving accounting majors' writing quality: The role of language analysis in attention directing. *Issues in Accounting Education* **2**(1), 13-27.

Borthick, A. F. and West, O. D. 1987. Expert systems—A new tool for the professional. *Accounting Horizons* **1**(1), 9-16.

Borthick, A. F. 1986. Audit implications of information systems. *The CPA Journal* **56**(4), 40-46; reprinted in *Accounting Information Systems: A Book of Readings With Cases*, J. R. Davis and B. E. Cushing, eds. (Addison-Wesley, 1987).

Borthick, A. F. and Clark, R. L. 1986. The role of productive thinking in affecting student learning with microcomputers in accounting education. *The Accounting Review* **61**(1), 143-157.

Borthick, A. F. 1985. The auditor's role in software acquisition. *The Internal Auditor* **42**(3), 30-34.

Coe, C. K. and Borthick, A. F. 1984. Computer auditing in the federal government. *Public Budgeting & Finance* **4**(3), 67-74.

Books

Gallegos, F., Richardson, D. R. and Borthick, A. F. 1987 *Audit and Control of Information Systems* (Cincinnati, Ohio: South-Western), 716 pages.

Gallegos, F., Richardson, D. R. and Borthick, A. F. 1987 *Instructor's Manual: Audit and Control of Information Systems* (Cincinnati, Ohio: South-Western), 247 pages.

Business Simulations

Springer, C. W., and A. F. Borthick. 2004. *The Locator Business Simulation: Learning Experiences for Critical Thinking in Accounting, Parts One and Two*. Mason, OH: Thomson South-Western. springer.swlearning.com

Springer, C. W., and A. F. Borthick. 2005. *The Locator Business Simulation: Learning Experiences for Critical Thinking in Accounting, Part One*. Mason, OH: Thomson Business and Professional Publishing. springer.swlearning.com

Refereed Proceedings

Purao, S., V. Vaishnavi, J. Bagby, F. Borthick, B. Cameron, L. Lenze, S. Sawyer, H. Suen, R. Welke. 2008. Using problems to learn service-oriented computing. *IEEE International Conference on Services Computing (SCC 2008)*, Honolulu, July 8-11: 33-36.

Borthick, A. F., P. L. Bowen, and D. Robb. 2003. The effect of base rate sensitization on end-user query performance moderated by conscientiousness. *Proceedings of the Twenty Fourth International Conference on Information Systems*, Seattle, December 14-17: 774-781.

Axelsen, M., Borthick, A. F., and Bowen, P. L. 2001. A model for the effects of information request ambiguity on end-user query performance. *Proceedings of the Twenty Second International Conference on Information Systems*, New Orleans, December 16-19: 537-542.

Borthick, A. F. 2001. Designing learning experiences for enabling collaborative discovery learning online. *Selected Papers from the Twelfth International Conference on College Teaching and Learning*, Jacksonville FL, April 17-21: 25-33.

Borthick, F., Bowen, P. and Diery, D. 1997. Complexity and errors in SQL queries: Development and empirical comparison of complexity measures. *Proceedings of the Seventh Annual Workshop on Information Technologies & Systems*, Atlanta GA, December 13-14: 31-40.

Borthick, A. F., Bowen, P. L., Diery, R. G. 1997. SQL errors: A taxonomy. *1997 IEEE International Conference on Systems, Man and Cybernetics SMC '97 Conference Proceedings*, Orlando FL, October 12-15: 2461-2465.

Massingale, C. S. and Borthick, A. F. 1993. Asbestos & electromagnetic fields: We know too much to do nothing! *Proceedings of the Academy of Legal Studies in Business*, Colorado Springs (August 18).

Massingale, C. S. and Borthick, A. F. 1991. Liability and electromagnetic fields. *Selected Papers of the American Business Law Association National Proceedings*, Portland, Maine (August 14-17), 683-694.

Massingale, C. S. and Borthick, A. F. 1988. Liability for medical systems: The industry grows up. *Selected Papers of the American Business Law Association*, 1988 National Meeting, New Orleans, Louisiana (August 10-12), 537-553.

Clark, R. L. and Borthick, A. F. 1986. Evaluating microcomputer applications: Teaching accounting versus teaching skills. *Collected Papers of the American Accounting Association's Southeastern Regional Meeting*, Greenville, South Carolina (April 17-19), 164-167.

Borthick, A. F. and Scheiner, J. H. 1985. A survey of the use of micro/minicomputers in public accounting: Benefits and problems. *Collected Papers of the American Accounting Association's Southeastern Regional Meeting*, Orlando (April 25-27), 24-28.

Other Publications and Papers

Borthick, A. F. 1998. A course in information systems assurance: Collaborative discovery learning online. *The Auditor's Report* 22(1): 6-7.

Borthick, A. F. 1998. The role of *EDPACS* in IS Auditing. *EDPACS* (May): 16.

Borthick, A. F. 1998. Transforming the AIS course: From an encyclopedic to an active learning approach. *Changes in Accounting Education: Implementation in Specific Accounting Courses and Subject Areas*, D. F. Fetyko, ed., St. Louis: Federation of Schools of Accountancy, 95-110.

Borthick, A. F. 1996. Editorial: Helping accountants learn to get the information managers want: The role of the accounting information systems course. *Journal of Information Systems* (Fall): 75-85.

Borthick, A. F. 1995. A review of the 1994 revision of the U.S. *Government Auditing Standards*. *EDPACS* 22(12), 5-14.

- Borthick, A. F. 1992. Editorial: Helping users get the information they want, when they want it, in the form they want it: Integrating the choice and use of information. *Journal of Information Systems* **6**(2), v-ix.
- Borthick, A. F. 1991. Guidelines for implementing and maintaining secure data bases. *Data Base Management* (New York: Auerbach Publishers) 23-30-20, pp. 1-10.
- Borthick, A. F. and Scheiner, J. H. 1988. Computer technology in accounting: Preparation for a career. *Survey of Business*, **24**(2), 6-9.
- Borthick, A. F. 1988. Data base security. *Data Security Management* (New York: Auerbach Publishers) 84-02-14, pp. 1-11.
- Borthick, A. F. 1987. Systems issues and policies. *Journal of Information Systems*, **2**(1), 76-79.
- Borthick, A. F. 1986. Review of *Computer-Oriented Accounting Information Systems* by Bower, Schlosser, and Newman. *Journal of Information Systems*, **1**(1), 161-162.
- Borthick, A. F. 1983. Thinking about a small business computer. *Georgia Business and Economic Conditions* (Sept.-Oct.), 6-8.
- Borthick, A. F. 1983. Computer auditing at the University of Georgia. *EDPAA Atlanta Chapter On-Line* (Sept.), 1,5.
- Borthick, A. F. 1982. Selection of computers for small accounting systems: An interactive multi-criteria approach, unpublished DBA dissertation, University of Tennessee, Knoxville.
- Borthick, A. F. 1978. Site security. *Reports of the DECsystem-10/20 Spring'78 U.S. DECUS Meeting*, Cambridge, Massachusetts (May 23-26), 215-216.
- Borthick, A. F. 1978. The Universal Newsletter. *Reports of the DECsystem-10/20 Spring'78 U.S. DECUS Meeting*, Cambridge, Massachusetts (May 23-26), 252-253.
- Bonney, J. C. and Borthick, A. F. 1977. Computing futures. *Proceedings of the ACM SIGUCC User Services Conference V*, Kansas City, Kansas (Nov. 6-9), 249-251.
- Borthick, A. F. 1977. The future for user services. *Proceedings of the ACM SIGUCC User Services Conference V*, Kansas City, Kansas (Nov. 6-9), 252-255.
- Borthick, A. F. 1977. Review of *Computer Power and Human Reason* by Joseph Weizenbaum. *World Research INK* (April), 9,12.
- Borthick, A. F. 1976. User services. *Seventh Conference on Computers in the Undergraduate Curricula*, State University of New York at Binghamton (June 14-16).
- Borthick, A. F. 1976. Effective service for remote computing users. *Proceedings of the 14th Annual Southeast Regional ACM Conference*, Birmingham, Alabama (April 22-24), 109-111.

Borthick, A. F. 1975. Staffing user services. *Proceedings of the ACM SIGUCC User Services Conference III*, Cherry Hill, New Jersey (Nov. 10-12), 14-17.

Presentations (from 1992)

Borthick, A. F., and G. P. Schneider. 2019. Innovations in Accounting Education Award: Analyzing data for decision making: Integrating spreadsheet modeling and database querying. American Accounting Association Annual Meeting, San Francisco, CA. (August).

Borthick, A. F., and G. P. Schneider. 2019. Improving spreadsheet proficiency with guided modeling experience. American Accounting Association Annual Meeting, San Francisco, CA. (August).

Borthick, A. F. 2019. AIS and ubiquitous data. Keynote address at the Accounting Information Systems Educator Conference, Denver, CO, June 22.

Borthick, A. F., and G. P. Schneider. 2019. How to create data analytic cases as design science, American Accounting Association Accounting Information Systems Section Midyear Meeting, San Antonio, TX. (January).

Borthick, A. F., and G. P. Schneider. 2018. How to create data analytic cases as design science: Illustrated. American Accounting Association Annual Meeting, Washington, DC. (August).

Sargent, C. S., and A. F. Borthick. 2018. Digital Butler: Cognitive conflict tasks to prompt higher order skill in principles of accounting. American Accounting Association Annual Meeting, Washington, DC. (August).

Borthick, A. F., and L. N. Smeal. 2018. Distinguishing independent contractors from employees: Analyzing company practices and compensation data to assess compliance with IRS factors. American Accounting Association Intensive Data and Analytics Summer Workshop (Invited), Orlando, FL. (June).

Borthick, A. F., and L. N. Smeal. 2018. Distinguishing independent contractors from employees: Analyzing company practices and compensation data to assess compliance with IRS factors. American Accounting Association Accounting Information Systems Bootcamp (Invited), Minneapolis, MN. (May).

Borthick, A. F., and L. N. Smeal. 2018. Distinguishing independent contractors from employees: Analyzing company practices and compensation data to assess compliance with IRS factors. Newport Beach. (January).

Borthick, A. F., and L. N. Smeal. 2017. Distinguishing independent contractors from employees: Analyzing company practices and compensation data to assess compliance with IRS factors. American Accounting Association Annual Meeting, San Diego, CA. (August).

Borthick, A. F. 2017. Discussion of Customer profitability analysis at Picture Frames Unlimited, American Accounting Association Annual Meeting, San Diego, CA. (August).

Borthick, A. F., and G. P. Schneider. 2017. Minimizing cognitive load in representing processes in a business process diagram: Capturing the process and making inferences about it, American Accounting Association Accounting Information Systems Section Midyear Meeting, Orlando, FL. (January).

Borthick, A. F. 2017. Discussion of "Ranking accounting journals by topical area and methodology," American Accounting Association Accounting Information Systems Section Midyear Meeting, Orlando, FL. (January).

Borthick, A. F., and J. M. Fine. 2016. From an unstructured business situation to business insights: Making data give up their secrets with database querying. American Accounting Association, New York, NY. (August).

Sargent, C. S., and A. F. Borthick. 2016. Developing skill in finding disconfirming evidence for internal control testing. American Accounting Association, New York, NY. (August).

Borthick, A. F., Schneider, G. P., Viscelli, T. R. 2016. American Accounting Association Accounting Information Systems Section Midyear Meeting, "Building skills in data analytics: Bridging the gap between spreadsheet modeling and database querying," Houston, TX. (January).

Borthick, A. F., Newmark, R., Janvrin, D., Raschke, R. 2016. American Accounting Association Accounting Information Systems Section Midyear Meeting, "Data visualization in teaching," Houston, TX. (January).

Borthick, A. F. 2016. American Accounting Association Accounting Information Systems Section Midyear Meeting, "Developing spreadsheet expertise through guided modeling experience," Houston, TX. (January).

Borthick, A. F. 2015. American Accounting Association Annual Meeting, "Developing spreadsheet expertise through guided modeling experience," American Accounting Association, Chicago, IL. (August).

Borthick, A. F., and J. M. Fine. 2015. From an unstructured business situation to business insights: Making data give up their secrets with database querying. AAA AIS Section Mid-Year Meeting, Charleston, SC. (January).

Sargent, C. S., and Borthick, A. F. 2015. Developing skill in finding disconfirming evidence in internal control testing. AAA Auditing Section Mid-Year Meeting, Miami, FL. (January).

Borthick, A. F., and G. P. Schneider. 2014. Developing expertise in representing business processes and making inferences about them. American Accounting Association Annual Meeting, American Accounting Association, Atlanta, GA. (August).

Borthick A. F., S. A. Lockhart, M. DeAngelis, R. Nehmer, and K. Moffitt. 2014. The spreadsheet expertise graduates need but don't have: The practitioner's view and an action plan. American Accounting Association Annual Meeting, American Accounting Association, Atlanta, GA. (August).

Borthick, A. F., and G. P. Schneider. 2014. Business process representations: Creating diagrams, detecting errors, making inferences and identifying accounting entries. AAA AIS Section Mid-Year Meeting, Raleigh, NC. (January).

Borthick, A. F. 2014. Discussant: Developing a framework for the role of Big Data in auditing: A synthesis of the literature. AAA AIS Section Mid-Year Meeting, Raleigh, NC. (January).

Borthick, A. F., Schneider, G. P., and T. R. Viscelli 2013. Analyzing transaction data for improving business management: Bridging the gap between spreadsheet models and database querying. American Accounting Association Annual Meeting, American Accounting Association, Anaheim, CA. (August)

Borthick, A. F., G. P. Schneider, and T. R. Viscelli. 2013. Analyzing transaction data for improving business management: On the path to business analytics for responding to business opportunities and threats. AAA IS Section Mid-Year Meeting, Fort Lauderdale, FL. (January).

Borthick, A. F. 2013. Education and case research in accounting information systems. New Scholars Program of the AAA IS Section Mid-Year Meeting, Fort Lauderdale, FL. (January).

Borthick, A. F. 2013. Lessons from teaching from an IT audit and assurance perspective. Workshop on IT Governance and Assurance (WITGA) of the AAA IS Section Mid-Year Meeting, Fort Lauderdale, FL. (January).

Borthick, A. F., and Schneider, G. P. (2012, August). Business process representations: Creating diagrams, detecting errors, and making inferences. American Accounting Association Annual Meeting, American Accounting Association, Washington, DC.

Boritz, J. E., Borthick, A. F., and A. Presslee. (2012, January). Does the type of business process representation affect auditors' ability to assess control risk?. American Accounting Association Auditing Section Mid-Year Meeting, American Accounting Association, Savannah, GA.

Boritz, J. E., A. F. Borthick, and A. Presslee. 2012. Does the type of business process representation affect auditors' ability to assess control risk? American Accounting Association Auditing Section Mid-Year Meeting, Savannah, GA (January 14).

Borthick, A. F., 2012. Designing continuous auditing for a highly automated procure-to-pay process. Accounting Association IS Section Mid-Year Meeting, Scottsdale, AZ (January 7).

Borthick, A. F., and U. Murthy. (2012, January). Fraud examination using data analysis and querying techniques in Microsoft Access. American Accounting Association Information Systems Section Mid-Year Meeting, American Accounting Association, Scottsdale, AZ.

Borthick, A. F., and Schneider, G. P. 2011. Vicarious learning through guided initial learning experiences. American Accounting Association Annual Meeting, American Accounting Association, Denver (August 7-10).

Borthick, A. F. 2011. Business analytics: Developing your expertise. Institute of Management Accountants Atlanta Chapter Monthly Meeting, Atlanta (May 17).

- Boritz, E., Borthick, A. F., and Presslee, A. 2011. Narratives versus diagrams: The impact of alternative business process representations on auditor risk and control assessments. American Accounting Association IS Section Mid-Year Meeting, Atlanta, GA (January 4-6).
- Borthick, A. F., and G. P. Schneider. 2011. Developing expertise in representing business processes and making inferences about them. American Accounting Association IS Section Mid-Year Meeting, Atlanta, GA (January 4-6).
- Borthick, A. F., and Springer, C. W. 2010. Cognitive conflict tasks in accounting courses predict improvements in general academic achievement. American Accounting Association Annual Meeting, American Accounting Association, San Francisco (August 8-11).
- Sargent, C. S., and A. F. Borthick. 2010. Using "drill and practice" versus "cognitive conflict tasks" with accounting principles students. Georgia Association of Accounting Educators Annual Meeting, Macon, GA (February 5-6).
- Borthick, A. F., G. P. Schneider, and A. O. Vance. 2009. Extending and using graphical representations of business processes in evaluating internal control. University of Waterloo Centre for Information Systems Assurance Sixth Symposium on Information Systems Assurance, Toronto, Canada (October 2-4).
- Springer, C. W., and A. F. Borthick. 2009. Improving success rates for principles of accounting students: Ultra-short digital tutorials for motivating effort to improve performance. American Accounting Association National Meeting, New York (August 2-5).
- Springer, C. W., and A. F. Borthick. 2009. "Just three minutes": A learning innovation for struggling students. Georgia Association of Accounting Educators Annual Meeting, Pine Mountain, GA (February 6-7).
- Borthick, A. F., G. P. Schneider, and A. O. Vance. 2009. Preparing graphical representation of business processes and making inferences from them. Present at the 2009 AAA IS Section Mid-Year Meeting, Charleston, SC (January 8-10).
- Borthick, A. F., P. L. Bowen, G. J. Gerard, J. Perkins, and A. Robb. 2008. Using statistical metadata to adjust for variances and systematic biases; An exploratory approach. International Research Symposium on Accounting Information Systems, Paris, France (December 13).
- Borthick, A. F., G. P. Schneider, and A. O. Vance. 2008. Extending and using graphical representations of business processes in evaluating internal control. American Accounting Association National Meeting, Anaheim, CA (August 3-6).
- Borthick, A. F., P. L. Bowen, and G. J. Gerard. 2008. Modeling a business process and querying the resulting database: Analyzing RFID data to develop business intelligence. American Accounting Association IS Section Midyear Conference, Redondo Beach (January 10-12).
- Borthick, A. F., and P. L. Bowen. 2007. Auditing system development: Constructing the meaning of "systematic and rational" in the context of legacy code migration for vendor incentives. University of Waterloo Centre for Information Systems Assurance Fifth Symposium on Information Systems Assurance, Toronto, Canada (October 11-13).

Borthick, A. F., and A. O. Vance. 2007. Preparing graphical representation of business processes and making inferences from them. American Accounting Association National Meeting, Chicago, IL (August 5-8).

Borthick, A. F., and P. L. Bowen. 2007. Auditing system development: Constructing the meaning of "systematic and rational" in the context of legacy code migration for vendor incentives. American Accounting Association Information Systems Section Midyear Conference, Savannah, GA (January 4-6). Received Outstanding Education Paper Award.

Borthick, A. F., P. L. Bowen, and G. J. Gerard. 2007. Modeling a business process and querying the resulting database: Analyzing RFID data to develop business intelligence. American Accounting Association Semantic Modeling of Accounting Phenomena Conference, Savannah, GA (January 4).

Borthick, A. F., H. L. Dangel, and C. W. Springer. 2006. Going public with evidence of learning in discipline-specific research journals. Seventh Colloquium on the Scholarship of Teaching and Learning: Evidence, Impact and Momentum. Carnegie Foundation for the Advancement of Teaching, Madison, WI (April 1-2).

Borthick, A. F., and D. R. Jones. 2006. Creating a business process diagram and database queries to detect billing errors and analyze calling patterns for cell phone service. American Accounting Association Auditing Section Midyear Conference, Los Angeles, CA (January 12-14).

Borthick, A. F., and D. R. Jones. 2006. Creating a business process diagram and database queries to detect billing errors and analyze calling patterns for cell phone service. American Accounting Association Information Systems Section Midyear Conference, Scottsdale, AZ (January 5-7).

Borthick, A. F., and G. P. Frank. 2005. Experiencing e-learning from learners' perspectives. Onlin Educa Berlin, Berlin, Germany (November 30-December 2).

Borthick, A. F., and M. B. Curtis. 2005. Due diligence on fast-fashion inventory through data querying. University of Waterloo CISA Symposium on Information Systems Assurance (October 20-22). Received Case Competition Award.

Borthick, A. F., and M. B. Curtis. 2005. Constructing situation models as preparation for situated action: The case of inexperienced auditors designing audit objectives. International Society for the Scholarship of Teaching and Learning 2nd Annual Conference, Vancouver, BC (October 14-16).

Borthick, A. F., and C. W. Springer. 2005. Using readiness questions to foster engagement from Net Generation learners. American Accounting Association National Meeting, San Francisco, CA (August 7-10).

Borthick, A. F. 2005. Generating evidence of learning from learner performance on authentic tasks. Sixth Colloquium on the Scholarship of Teaching and Learning: Evidence of Student Learning. Carnegie Foundation for the Advancement of Teaching and the American Association for Higher Education, Atlanta (March 16-17).

Borthick, A. F., and M. B. Curtis. 2005. Due diligence on fast-fashion inventory through data querying. American Accounting Association Auditing Section Midyear Conference, New Orleans, LA (January 13-15).

Borthick, A. F., and M. B. Curtis. 2005. Due diligence on fast-fashion inventory through data querying. American Accounting Association Information Systems Section Midyear Conference, New Orleans, LA (January 6-8).

Borthick, A. F., and M. B. Curtis. 2004. Evaluating the competence of novice information system auditors: Analyzing performance to motivate learning experiences for developing audit expertise. International Research Symposium on Accounting Information Systems, Washington, DC (December 15-16).

Borthick, A. F., and M. B. Curtis. 2004. Evaluating the competence of novice information system auditors: Analyzing performance to motivate learning experiences for developing audit expertise. International Society for the Scholarship of Teaching and Learning Inaugural Meeting, Bloomington, IN (October 21-24).

Borthick, A. F., and C. W. Springer. 2004. Developing business simulations to prepare students for situated action. American Accounting Association National Meeting, Orlando, FL (August 8-11).

Borthick, A. F. 2004. Designing learning experiences for technology-mediated environments. Florida International University, Miami, FL (April 16).

Borthick, A. F., and H. L. Dangel. 2004. Developing learning objectives for discipline-specific critical thinking and assessing their outcomes. Fifth Colloquium on the Scholarship of Teaching and Learning: Building Knowledge, Improving Learning. Carnegie Foundation for the Advancement of Teaching and the American Association for Higher Education, San Diego (March 31-April 1).

Borthick, A. F., and D. R. Jones. 2004. Analyzing a potential warranty call center budget overrun: Using database queries to solve business problems. American Accounting Association Information Systems Mid-Year Conference, Clearwater, FL (January 9-10). Received Best Paper—Education Award.

Springer, C. W., and A. F. Borthick. 2003. Cultivating critical thinking in accounting principles while increasing mastery of traditional accounting knowledge: Tradeoff not required. American Accounting Association National Meeting, Honolulu (August 3-6).

Borthick, A. F., C. W. Springer, and R. S. Barden. 2003. Learning to develop student capability for critical thinking. American Accounting Association National Meeting, Honolulu (August 3-6).

Springer, C. W., and A. F. Borthick. 2003. Cultivating critical thinking in accounting principles while increasing mastery of traditional accounting knowledge: Tradeoff not required. American Accounting Association National Meeting, Honolulu (August 3-6).

Borthick, A. F., C. W. Springer, and R. S. Barden. 2003. Learning to develop student capability for critical thinking. American Accounting Association National Meeting, Honolulu (August 3-6).

Borthick, A. F., H. L. Dangel, and C. W. Springer. 2003. Pedagogy and assessment that support critical thinking. Community of Practice, American Association for Higher Education Learning to Change Conference, Washington DC (March 14-17).

Borthick, A. F., H. L. Dangel, and C. W. Springer. 2003. Overcoming barriers to critical thinking.

Colloquium on the Scholarship of Teaching and Learning Collaborating for Change. Carnegie Foundation for the Advancement of Teaching and the American Association for Higher Education, Washington DC (March 13-14).

Springer, C. W., and A. F. Borthick. 2003. Critical thinking cases in principles of accounting: Results. Georgia Association of Accounting Educators Annual Meeting, Rome, GA (February 7-8).

Axelsen, M. S., A. F. Borthick, and P. L. Bowen. 2003. A model for and the effects of information request ambiguity on query development. American Accounting Association Information Systems Mid-Year Conference, San Diego (January 10-11).

Borthick, A. F. 2003. Designing AIS learning experiences. American Accounting Association Information Systems Doctoral Consortium, San Diego (January 8-9).

Curtis, M. B., and A. F. Borthick. 2002. Accelerating the acquisition of knowledge structure to improve performance in internal control evaluation. American Accounting Association Accounting, Behavior and Organizations Research Conference, Dallas (October 18-19).

Springer, C. W., and A. F. Borthick. 2002. Safe Night Out: Critical thinking for solving ill-structured business problems in an introductory accounting course. American Accounting Association National Meeting, San Antonio (August 14-17).

Sullivan, M. C., A. F. Borthick, P. L. Bowen, and T. H. Lehmann. 2002. The effects of intrinsic motivation on knowledge work: Performance in database query construction. American Accounting Association National Meeting, San Antonio (August 14-17).

Borthick, A. F. 2002. Engaging in data analysis: Learning from a social constructivist perspective. American Accounting Association Accounting Programs Leadership Group Annual Meeting. Austin, TX, February 3-5.

Borthick, A. F. 2002. Learning from a social constructivist perspective. University of Nebraska School of Accountancy. Lincoln, NE, January 18.

Borthick, A. F., T. Hall, B. Huchteman, J. Mulloy, and S. D. Rehberg. 2002. Making business processes visible: Animating EDI and JIT procurement. American Accounting Association Information Systems Mid-Year Conference, January 10-12.

Axelsen, M., Borthick, A. F., and Bowen, P. L. 2001. A model for the effects of information request ambiguity on end-user query performance. Twenty Second International Conference on Information Systems, New Orleans, December 16-19.

Borthick, A. F. 2001. Designing and facilitating online courses. American Accounting Association National Meeting (August 12-15).

Borthick, A. F. 2001. Data analysis: A first step toward data mining. Claude Rodgers/FSA Faculty Consortium. St. Charles, IL (May 18-19).

Borthick, A. F. 2001. Designing learning experiences for enabling collaborative discovery learning online. Twelfth International Conference on College Teaching and Learning (April 17-21).

Springer, C. W., and Borthick, A. F. 2001. Collaboration in WebCT: Instructors coalescing into a learning community. Georgia State University Teaching and Learning with Technology Expo (April 10).

Borthick, A. F., Dangel, H. F., Moore, J. F., and Somers, J. A. 2001. Panel: Supporting faculty when technology goes mainstream. Georgia State University Teaching and Learning with Technology Expo (April 10).

Borthick, A. F., Jones, D. R., and Kim, R. 2001. Developing database query proficiency: Assuring compliance for responses to Web site referrals. Fourth Annual AIS Teaching Symposium (February 15).

Borthick, A. F., Bowen, P. L., and Rohde, R. 2000. The effects of normalization and query complexity on end-user query errors: An experimental evaluation. International Research Symposium on Accounting Information Systems, Brisbane, Australia (December 14).

Borthick, A. F. 2000. Living on the Net: Ordinary people learning extraordinary things. Villanova University, Philadelphia, PA (November 30).

Borthick, A. F. 2000. Technology-enabled learning for business and accounting: Living on the Net. Georgia Society of CPAs, Buckhead Chapter, Atlanta, GA (November 21).

Borthick, A. F., Crosson, S., Savage, K., and Solomon, P. 2000. Current distance learning practices: Roundtable panel discussion. Fourth Annual Colloquium on Change in Accounting Education, Sedona, AZ (October 11-14).

Borthick, A. F. 2000. How to implement collaborative discovery learning in an online classroom environment. Fourth Annual Colloquium on Change in Accounting Education, Sedona, AZ (October 11-14).

Borthick, A. F. 2000. The motivation for and application of collaborative discovery learning online. Georgia Distance Learning Association Conference, Jekyll Island, GA (September 27-29).

Borthick, A. F. 2000. AAA Innovations in Accounting Education Award presentation: Collaborative discovery learning online. American Accounting Association National Meeting, Philadelphia (August 13-16).

Borthick, A. F., Wakai, S., and Jones, D. R. 2000. The motivation for and application of collaborative discovery learning online. WebCT 2000 International Conference, Athens, GA (July 7-10).

Borthick, A. F., Bowen, P. L., Jones, D. R., and Tse, M. H.-K. 2000. The effects of information request ambiguity and construct incongruence on query development. The Pacific Asia Conference on Information Systems 2000, Hong Kong (June 1-3).

Borthick, A. F. 2000. Enabling online learning through task configuration in learners' ZPDs. Georgia State University Teaching and Learning with Technology Expo (April 28).

- Borthick, A. F., Jones, D. R., and Bowen, P. L. 2000. Prompting to generate possible causes of business problems. University of North Texas, Denton, TX (April 14).
- Borthick, A. F., Jones, D. R., and Wakai, S. 2000. Configuring tasks within learners' zones of proximal development (ZPDs): Enabling collaborative discovery learning online in an information systems assurance course. Third Annual AIS Teaching Symposium (February 17).
- Borthick, A. F., Curtis, M. B., and Sriram, R. S. 2000. Comprehension in internal control evaluation: Performance as a function of knowledge structure and text structure compatibility. AAA Auditing Section 2000 Midyear Conference (January 13-15).
- Borthick, A. F. 1999. Auditing a paperless system. Information Systems Audit and Control Association, Atlanta Chapter (October 19).
- Borthick, A. F., Curtis, M. B., and Sriram, R. S. 1999. Comprehension in internal control evaluation: Performance as a function of knowledge structure and text structure compatibility. University of Alabama, Tuscaloosa, AL (October 8).
- Borthick, A. F. 1999. Analysis of a community of practice dialog: The learning of concepts situated in a system development audit. University of Waterloo CISA Symposium on Information Systems Assurance (September 30-October 2).
- Borthick, A. F. 1999. Designing and facilitating synchronous courses on the web. American Accounting Association National Meeting, San Diego (August 15).
- Borthick, A. F. 1999. Collaborative discovery learning online. Georgia State University Teaching and Learning with Technology Expo (April 20).
- Curtis, M., and Borthick, A. F. 1999. Evaluation of internal control from a control objective narrative. Third Annual AIS Teaching Seminar, Phoenix AZ (February 18).
- Borthick, A. F. (moderator), Braun, G., Graham, L., Hillison, W., Kronzek, R., Mattson, S., and Scheiner, J. 1999. Technology and audit education: Evaluating distance learning in a virtual course. American Accounting Association Auditing Section Midyear Conference, Atlanta (January 15-16).
- Borthick, A. F., Jones, D. R., and Bowen, P. L. 1998. Hypothesizing the causes of budget overruns. American Accounting Association National Meeting, New Orleans (August 16-19).
- Borthick, A. F., Jones, D. R., and Bowen, P. L. 1998. Improving hypothesis generation in variance investigation. Southeast Summer Accounting Research Colloquium (July 30-31).
- Borthick, A. F., and Kiger, J. E. 1998. Audit of a ticketless travel agency. Rutgers University Online Auditing and Reporting Conference (January 16).
- Borthick, A. F., Curtis, M. B., and Sriram, R. S. 1997. Accelerating the acquisition of knowledge structure to improve performance in internal control evaluation. American Accounting Association National Meeting, Dallas (August 17-20).

Borthick, A. F., Criste, T., Hollander, A. S., Cummings, W. 1996. Accounting systems. Federation of Schools of Accountancy Director of Masters Programs Conference, St. Louis (October 11-12, 1996).

Borthick, A. F., Curtis, M. B., and Sriram, R. S. 1996. The interaction of knowledge structure and task structure in the evaluation of internal control. Southeast Summer Accounting Research Colloquium (September 13-14).

Borthick, A. F. 1996. Challenges for information systems auditing professionals. Atlanta Chapter of the Information Systems Audit & Control Association (March 4).

Borthick, A. F., Finn, D., Leech, S., Sutton, S. G. 1996. Editors' panel: Accounting information systems research. Third Annual Accounting Information Systems Research Symposium, Phoenix (February 15-17).

Borthick, A. F., Friedberg, A. H., Rockwell, S. R., and White, C. E., Jr. 1995. Panel: Data base availability for auditing research. Southeastern Regional Meeting of the American Accounting Association, Fort Lauderdale (April 6-10).

Birnberg, J. G., Borthick, A. F., Bamber, L. S., Kramer, S. S., Magee, R. P., and Shields, M. D. 1995. Editors' panel: The mission of journals and role of editors in the American Accounting Association Journals. Southeastern Regional Meeting of the American Accounting Association, Fort Lauderdale (April 6-10).

Birnberg, J. G., Borthick, A. F., Hopwood, A. G., Kramer, S. S., and Shields, M. D. 1995. Panel: What would the editor do if . . .? American Accounting Association Southeast Region Doctoral Consortium, Fort Lauderdale (April 5-6).

Borthick, A. F., O'Leary, D. E., Sangster, A., and Sutton, S. G. 1995. Editors' panel: Is there a future for AIS research? Second Annual Accounting Information Systems Research Symposium, Phoenix (February 2-4).

Borthick, A. F., Sullivan, M. C., and Bowen, P. L. 1994. Group problem solving: Learning to use asymmetric, role-specific information. American Accounting Association National Meeting, New York (August 10-13).

Borthick, A. F. 1994. The editorial process. American Accounting Association Southwest Region Doctoral Consortium, San Antonio (March 25-26).

Borthick, A. F., O'Leary, D. E., and Sutton, S. G. 1994. Research in information and intelligent systems: An editors' panel. American Accounting Association Southwest Regional Meeting, Dallas (March 2-5).

Boland, R. J., Borthick, A. F., O'Leary, D. E., and Sutton, S. G. 1994. Editors' panel: Research directions in accounting information systems. First Annual Accounting Information Systems Research Symposium, Phoenix (February 3-5).

O'Leary, D. E., Borthick, A. F., Brown, C., Watkins, P., Srivastava, R. P., and Meservy, R. 1993. Panel: Research strategies and journal selection. Second Annual Research Workshop on AI/ES in

Accounting, Auditing and Tax. American Accounting Association Annual Meeting (August 7), San Francisco.

Borthick, A. F. and Schneider, G. P. 1993. Analogical reasoning in spreadsheet error detection and correction: Separating content and structure. American Accounting Association Western Region Annual Meeting, San Diego (April 29-May 1).

Borthick, A. F. and Sullivan, M. C. 1993. Group problem solving: Learning to use asymmetric, role-specific information. American Accounting Association Southeast Region Doctoral Consortium, Atlanta (April 22).

Massingale, C. S. and Borthick, A. F. 1992. Employee monitoring—A legal/ethical framework. Annual Meeting of the Southeastern Region of the Academy of Legal Studies in Business, Jacksonville, FL (November 5).

Borthick, A. F. and Schneider, G. P. 1992. Analogical transfer in spreadsheet models: The case of professionals. Southeastern Regional Meeting of the American Accounting Association, Charlotte, North Carolina (April 23-25).

Arnold, J. L., Borthick, A. F., Neumann, F. L., Outsley, E., St. Pierre, K. 1992. Accounting journal editors panel. Southeastern Regional Meeting of the American Accounting Association, Charlotte, North Carolina (April 23-25).

Borthick, A. F. and Schneider, G. P. 1992. Analogical transfer in spreadsheet models: Identifying and correcting design errors. University of Missouri, Columbia (March 30).

Borthick, A. F., O'Leary, D. E. and Sutton, S. G. 1992. Accounting information systems: Future research directions (panel discussion). Southwestern Regional Meeting of the American Accounting Association, San Antonio (March 5-7).

Contracts, Grants and Sponsored Research

Vaishnavi, V. K., R. J. Welke, and A. F. Borthick. CPATH EAE: Collaborative learning to build systems of systems. National Science Foundation. July 1, 2007-June 30, 2012. \$306,285.

Fox, W. F. and Borthick, A. F. A Methodology for Collecting and Distributing Payments by Noncustodial Parents, State of Tennessee, September 1, 1989-October 31, 1990, \$88,248.

Teaching

Teaching Experience

Undergraduate courses: accounting information systems; cost/managerial accounting; principles of accounting; business data processing; COBOL programming; introduction to computer science; numerical analysis; FORTRAN programming

Graduate courses: IT auditing; accounting information systems; cost/managerial accounting; database systems; systems issues and policies; expert systems in business; doctoral seminars in information systems and managerial accounting

Developing critical thinking capabilities: Learning experiences for critical thinking in accounting, at www.gsu.edu/~www301/

Developing information systems audit and query skills: Learning experiences and evidence of learning, at www.gsu.edu/~wwwsys/learn/

Directed Student Learning

Doctoral Committees: Chair

M. Cathy Sullivan, 1994: An investigation of agency theory's assumption of strict effort aversion: The role of intrinsic motivation. University of Tennessee.

Gary P. Schneider, 1993: Escalation behavior in information systems development: Alternative motivations, experience, and the sunk cost effect. University of Tennessee.

Paul L. Bowen, 1992: Managing data quality in accounting information systems: A stochastic clearing system approach. University of Tennessee.

Doctoral Committees: Member

Carol W. Springer (Department of Educational Psychology and Special Education, College of Education, Georgia State University). 2009.

Anthony O. Vance (Department of Computer Information Systems, Georgia State University), 2008. Trust in information systems: Artifacts, the effect of trust on user adoption of anonymizing systems, and free accountability.

Jefferson T. Davis, 1993. Auditor experience in preliminary control risk assessments: Neural network models of auditors' knowledge structures. University of Tennessee

John C. Anderson, 1987. The selection decision for microcomputer general ledger software: An investigation using a knowledge-based system. University of Tennessee.

Anita S. Hollander, 1987. A rule-based approach to variance analysis. University of Tennessee.

Service

Georgia State University

School of Accountancy

Chair, School of Accountancy Technology Implementation Committee, 2013-

Chair, School of Accountancy AACSB Accreditation Maintenance Committee, 2008-

Chair, School of Accountancy Assessment Committee, 1999-2001, 2008-

Chair, School of Accountancy GSU Academic Program Review Self-Study Committee, 2010-

Member, School of Accountancy Undergraduate Program Retention Committee, 2010-2011

Member, Search and Screen Committee for Director of the School of Accountancy, 2006

Co-chair, School of Accountancy Assessment Committee, 2005-2008

Chair, School of Accountancy Program/Curriculum Committee, 1999-2001

Liaison, School of Accountancy Advisory Council Program Committee, 1999-2001

Liaison, School of Accountancy Advisory Council Technology Committee, 1998-1999

Coordinator, School of Accountancy Master of Professional Accountancy (MPA) Program, 1998-1999

Member, School of Accountancy Director Search and Screening Committee, 1998-1999

Coordinator, School of Accountancy Self-Study for AACSB Reaccreditation, 1998-2000

Chairperson, School of Accountancy Faculty Recruiting Committee, 1996-99, 2002-2003;
member 2000-2002

Member, School of Accountancy Assessment Committee, 1996-1999, 2001-2005

Chairperson, School of Accountancy Semester Conversion Implementation Committee, 1996-1999

Robinson College of Business

Member, BBA Area F Business Analytics Task Force, 2016-2018

Member, Committee to Improve the Work Environment of Faculty Women. (2015-2016).

Member, Search Committee for the Zwerner Chair of Economic Forecasting. (2015)

Member, Robinson College of Business Committee to Evaluate Technology Fee Proposals, 2014-2015

Member, Committee to Develop an MS Degree in Analytics, 2012-2013

Chair, Robinson College of Business myRobinson Steering Committee, 2009-2010

Member, Robinson College of Business Online Task Force, 2006

Chair, Learning Outcomes Assessment Data Committee, 2004-2015

Coordinator, Accreditation Self Study for Robinson College of Business On-Line MBA Courses for the Southern Association of Colleges and Schools (SACS), 2001-2002

Member, Robinson College of Business E-Commerce Committee, 2000

Member, Robinson College of Business Student Activity Fee Review Committee, 1999-2001

Chair, Robinson College of Business Graduate Program Council, 1999-2001

Coordinator, Robinson College of Business Online MBA Courses, 1999-2004

Chair, Robinson College of Business Online Task Force, 1999

Member, College of Business AACSB Reaccreditation Program Management Group, 1998-1999

Chair, College of Business Administration Ad Hoc Committee for the Development of Computer Skills Prerequisites for Internet Use, 1998

Member, College of Business Administration Promotion and Tenure Committee, 1997-2000, 2001-2002

Member, College of Business Administration Undergraduate Program Council, 1997-1999

Member, College of Business Administration Information Technology Coordinating Committee, 1996-1998

University

Chair, University Senate Committee on Academic Programs Academic Program Review Committee, 2014-

Chair, University Senate *Ad Hoc* Evaluation Committee for the Evaluation of the GSU Dean of Libraries, 2018-2019

Member, University Senate *Ad Hoc* Evaluation Committee for the Evaluation of the GSU Vice President for Enrollment Management and Student Success and Vice Provost, 2015-2016

Developer and presenter, Seminar developer and presenter for the Georgia State Global Training Program for Auditors in China, 2015

Chair, University Senate *Ad Hoc* Evaluation Committee for the Evaluation of the GSU Vice President for Development, 2013-2014

Member, University Senate Committee on Policies and Procedures for Academic Program Review, 2012-2013

Chair, University Senate Committee on Academic Programs Academic Program Review Subcommittee for the Department of Middle, Secondary and IT Education, 2012

Chair, University Senate Committee on Academic Programs Academic Program Review Subcommittee for the Department of Geoscience, 2011

Chair, University Senate Committee on Academic Programs Academic Program Review Subcommittee for the Department of Anthropology, 2010

Chair, University Senate Committee on Academic Programs Academic Program Review Subcommittee for the Department of Philosophy, 2009

Chair, University Senate Committee on Academic Programs Academic Program Review Subcommittee for the Department of History, 2008

Chair, University Senate Committee on Academic Programs Academic Program Review Subcommittee for the Department of Computer Science, 2007

Chair, University Senate Committee on Academic Programs Academic Program Review Subcommittee for the Department of Psychology, 2006

Chair, University Senate Committee on Academic Programs Evaluation Committee for Programs in Kinesiology and Health, 2005

Member, GSU Instructional Delivery Plan Committee, 2006-2007

Member, GSU Faculty Awards Selection Committee, 2006

Member, GSU Academic Affairs Staff, 2002-2007

Leader, GSU Web Instructional Support Planning Team, 2001-2002

Member, GSU Enrollment Management Strategic Planning Committee, 2001-2003

Member, GSU Internal Grants Programs Review Committee, 2001-2004

Member, GSU Banner Implementation Team, 2000-2003

Member, GSU Center for Teaching and Learning/Teaching and Learning with Technology Advisory Committee, 2000-2007

Member, Search and Screening Committee for University Director of Internal Audit, 1999

Member, University Committee on Computer-Based Instruction in the General Education Core, 1999-2001; Member, AAHE Summer Academy Team, 1999

Member, Search and Screening Committee for Director of University Computing and Communications Services, 1999

Member, University E-Mail System Selection Committee, 1999

Member, University Advisory Committee on the GSU Urban Portfolio Project, 1998-2000

Member, University Senate 1998-2002, 2004-

Member, University Senate Information Systems and Technology (IS&T) Committee 1998-2002, 2012-; member, IS&T Ad Hoc Planning Committee 1998-99; member, IS&T and CAP Teaching and Learning with Technology Subcommittee, 1999-2005; member, IS&T Ad Hoc Committee to Evaluate the University IT Budget, 2000; member, IS&T Committee on Technology Fee Requests, 2000-2005

Member, University Senate Committee on Academic Program (CAP) 1998-2002, 2004-; member, CAP Undergraduate Council, 1998-99, 2000-; member, CAP Quality Improvement Funds Committee, 1998-99; member, CAP Graduate Council, 1999-2002, CAP Academic Program Review Committee, 2004-

Member, University Senate Budget Committee 2004-2012; member, Budget Priorities Subcommittee 2004-2006; member, Budget Subcommittee on Out-of-State Tuition 2010-2011

Member, University Academic Web Server Committee, 1997-1999

Member, University Web-Based Courseware Review Group, 1997

University of Tennessee

College of Business

Member, College of Business Administration Computer Resources Advisory Committee, 1988-1994

Member, College of Business Administration Management Information Systems Task Force, 1985-1986

Member, College of Business Administration MBA Entrepreneurship and New Venture Analysis Advisory Committee, 1985

University

Chairperson, University Administrators' Review Committee for Director of the Office of Administrative Computing, 1993-1994

Member, University Search Advisory Committee for Vice-Chancellor for Academic Affairs, 1992-1993

Member, University Instructional Technology Advisory Committee, 1992-1994

Chairperson, Joint Chancellor/Faculty Senate Committee to Review Campus Chest Policies and Procedures, 1991-1992

Member, University Faculty Senate (College of Business Representative), 1991-1994

Member, Budget Committee of the Faculty Senate, 1991-1994

Member, Committee on Committees of the Faculty Senate, 1992-1993

Member, University Computing Center Academic/Research Advisory Committee, 1990-1994

Chairperson, Computer Resources and Services Subcommittee, and Member, University Southern Association of Colleges and Schools Accreditation Self-Study Committee on Academic and Student Support Services, 1990-1991

Member, University Task Force on the Next Online Library Information System, 1990

Member, University Computer Platform Review Committee, 1989-1990

Member, College of Business Administration Undergraduate Curriculum Task Force, 1989-1991

Member, University Computing Advisory Council, 1988-1990

Member, Technical Advisory Committee to the University Computing Center, 1985-1990

Member, University Artificial Intelligence Working Group, 1985-1990

Member, University Faculty Research Council Committee on Computers and Computing, 1986-1988

Member, University Professional Leave Award Panel, 1986

University of Georgia

J. M. Tull School of Accountancy

Member, Search and Screening Committee for Director, J. M. Tull School of Accounting, 1983-1984

Chairperson, J. M. Tull School of Accounting Microcomputer Committee, 1982-1984

College of Business Administration

Member, College of Business Administration Computer Users Group, 1982-1984

Chairperson, College of Business Administration Microcomputer Subcommittee, 1982-1984

Member, College of Business Administration Undergraduate Student Petitions Committee, 1983-1984

University

Member, University Computer Advisory Committee Microcomputer Subcommittee, 1983-1984

Professional Service

Editorial Service

Editor, *Issues in Accounting Education*, 2017-

Member, editorial board, *Journal of Information Systems*, 2019-

Senior Editor, *Journal of Information Systems*, 2012-2018

Editor, *Issues in Accounting Education*, 2004-2007

Senior Editor, *Journal of Information Systems (JIS)* (American Accounting Association), 1991-1999

Editor, *Proceedings of the ACM SIGUCC User Services Conference IV*, Tucson, Arizona, 1976

Editor, *University of Tennessee Computing Center Newsletter*, 1971-1980

Editor, *University of Tennessee Computing Center User's Guide*, 1970-1979

Member, editorial board, *Issues in Accounting Education*, 1989-1995, 2001-2004, 2013-2017

Member, editorial board, *Accounting Horizons*, 2006-2008

Member, editorial board, *IS Audit & Control Journal*, 1995-2001

Reviewer, American Accounting Association Accounting Information Systems Section Midyear Meeting, 1985-

Reviewer, Americas Conference on Information Systems, 2010-2015

Reviewer, American Accounting Association Strategic and Emerging Technologies Section Midyear Meeting, 2010-

Reviewer, American Accounting Association Auditing Section Midyear Meeting, 2002-2009, 2015

Reviewer, *Journal of Emerging Technologies in Accounting*, 2012-

Reviewer, *Managerial Auditing Journal*, 2017

Reviewer, *Journal of Financial Education*, 2017

Reviewer, *Decision Sciences*, 2015

Reviewer, *Accounting Horizons*, 2014

Reviewer, *SIGMIS Database*, 2014

Reviewer, *Journal of Accounting Education*, 2013-2014

Reviewer, *Journal of Data and Information Quality*, 2010-2015

Reviewer, *Journal of Information Systems*, 2012

Reviewer, *International Journal of Accounting Information Systems*, 2012

Reviewer, *Journal of Emerging Technologies in Accounting*, 2012

Reviewer, *Journal of Accounting Education*, 2013, 2016

Reviewer, Americas Conference on Information Systems, 2010-present

Reviewer, *International Journal of Accounting*, 2010

Member, review board, *Behavioral Accounting Research: Foundations and Frontiers*, American Accounting Association Research Monograph Series, 1997

Member, editorial board, *Applications of Fuzzy Set Theory and the Theory of Evidence to Accounting*, 1994-1998

Member, editorial board, *Auditing: A Journal of Practice & Theory*, 1999-2002

Member, editorial board, *Advances in Accounting Information Systems*, 1990-1998

Member, editorial board, *Advances in Accounting*, 1989-1995

Member, editorial board, *Journal of Accounting Education*, 1988-1994

Member, editorial board, *Journal of Information Systems*, 1987-1991

Reviewer, American Accounting Association Annual Meeting, 1985-present

Reviewer, *Journal of Financial Education*, 2017

Reviewer, International Conference on Information Systems (ICIS), 1986, 2001, 2003, 2004, 2015

Reviewer, *The Accounting Review*, 1984, 1985, 2007

Reviewer, *Accounting Education an International Journal*, 2006

Reviewer, *Contemporary Accounting Research*, 2002

Reviewer, American Accounting Association Southeastern Regional Meeting, 1999, 2002

Reviewer, *Client/Server Control Objectives*, Information Systems Audit and Control Foundation, 1999

Reviewer, *Information Resources Management Journal*, 1996

Reviewer, IS'95: Model Curriculum and Guidelines for Undergraduate Degree Programs in Information Systems, 1994

Reviewer, *Financial Practice and Education*, 1991

Reviewer, *Advances in International Accounting*, 1990

Reviewer, National Science Foundation, 1989, 2000

Reviewer, *Journal of Accounting Education*, 1987, 1988

Reviewer, *MIS Quarterly*, 1986-1990

Reviewer, *Georgia Journal of Accounting*, 1986, 1987

Service: Professional Associations

Member, AAA Notable and Distinguished Contributions to Accounting Literature Award Screening Committee, 2018-2019

Member, Pathways Commission II Task Force 3 (Technology) of Recommendation 4 (Curriculum), 2014-present

Chair, AAA Information Systems Section Notable Contribution to the Literature Committee, 2012

Member, AAA Information Systems Section Notable Contribution to the Literature Committee, 2011

Research Paper Coordinator, American Accounting Association Information Systems Section Midyear Meeting, 2009-2010

Member, AAA IS Section Research and Publications Committee, 2007-2009

Faculty member, AIS New Scholar consortium, American Accounting Association Information Systems Section Midyear Conference, 2007, 2008, 2009

Chair, AAA IS Section Research and Publications Committee, 2008-2009

Faculty member, *Journal of Information Systems* Research Workshop, American Accounting Association Information Systems Section Mid-Year Meeting, 2007

Synthesizer, American Association for Higher Education Research Forum, 2003

External reviewer, State of Georgia Nonpublic Postsecondary Education Commission, 2002-2015

Member, The Institute of Internal Auditors Academic Relations Committee, 2000-2001

Member, AAA Assessment Committee, 1999-2000

Member, AAA Accounting Education Committee, 1999-2001

Member, University of Alabama School of Accountancy Portfolio Review Committee, 1999-2000

Chair, AICPA Accounting Educators Conference, 2000

Member, ULT WebCT User Experience Board, 1999-2001

Member, AAA Notable Contributions to Accounting Literature Award Selection Committee, 1998-1999

Chairperson, AAA Auditing Section Communications Committee, 1997-1999

Finance Chair, Eighteenth Annual International Conference on Information Systems (ICIS), 1997-1998

Moderator, Claude Rodgers Fifteenth Annual Federation of Schools of Accountancy Faculty Consortium panel "Keeping pace with information systems," 1997

Member, IS Audit Model Curriculum Task Force, IS Audit and Control Association, 1995-1998

Reviewer, IS'95: Model Curriculum and Guidelines for Undergraduate Degree Programs in Information Systems, 1995-1996

Chairperson, AAA Southeastern Region Doctoral Consortium Planning Committee, 1995;
Member, 1994-1996

Member, AAA Notable Contributions to Accounting Literature Award Screening Committee, 1995-1996

Member, AAA IS/MAS Steering Committee, Accounting Information Systems Symposia, 1994, 1995

Instructor, Certified Information Systems Auditor (CISA) Review Course, Tennessee Valley Authority, 1994

Speaker, AAA New Faculty Consortium (editor rotation), 1992-1998

Member, AAA Screening Committee: Notable Contributions to Accounting Literature Award, 1992-1993

Chairperson, AAA Doctoral Fellowships Committee, 1990-1991

Chairperson, AAA IS/MAS Dissertation Award Committee, 1990-1991

Member, AAA Student Fellowships Committee, 1989-1990

Member, Organizing Committee, Fifth International Conference on Information Systems Methodologies for Intelligent Systems, 1990

Group leader, AAA New Faculty Consortium, 1989, 1990

Chairperson, AAA Information Systems/Management Advisory Services Section, 1988-1989

AAA Council Representative, Information Systems/Management Advisory Services Section, 1988-1989

Member, AAA Model Library-Print Media Committee, 1988-1989

Faculty member, Tennessee Executive Development Program, 1988-1990

Member, Federation of Schools of Accountancy Committee on Specialization, 1988

Chairperson-Elect, AAA Information Systems/Management Advisory Services Section, 1987-1988

Manuscript director, Knoxville Chapter of the National Association of Accountants, 1987-1995

Instructor, Certified Information Systems Auditor (CISA) Review Course, Tennessee Valley Authority, 1987

Secretary/Treasurer, AAA Information Systems/Management Advisory Services Section, 1986-1987

Member, EDP Auditors Foundation Research Advisory Committee, 1985-1990

Coordinator, Southeast AAA Regional Meeting Information Systems/MAS Section, 1986-1987

Member, Federation of Schools of Accountancy Professional Accounting Education Committee, 1983-1984

Faculty member, University of Georgia CPA Review Program, 1982-1984

President, Digital Equipment Corporation Users Society (DECUS) Southeast Area Local Users Group, 1976

Chairperson, Documentation Committee of DECUS Educational Working Group, 1977-1978

Treasurer, Mid-Southeast Chapter of ACM, 1975-1976

Service: Evaluator for Promotion and Tenure

2018: Loyola Marymount University
2017: University of North Carolina Charlotte
2017: Virginia Commonwealth University
2017: Oakland University
2016: Victoria University of Wellington
2016: University of Queensland
2014: Iowa State University
2014: West Virginia University
2014: University of North Texas
2014: Rutgers University
2013: Brigham Young University
2011: Middle Georgia State College
2010: University of New Hampshire
2009: North Carolina State University
2009: Baylor University
2009: University of California, Riverside
2008: University of Queensland
2008: University of Richmond
2008: University of Delaware
2008: University of Colorado, Denver
2005: Virginia Commonwealth University
2004: University of Massachusetts, Boston
2002: University of Saskatchewan

Professional Memberships

American Accounting Association Accounting Information Systems Section
American Accounting Association Strategic and Emerging Technologies Section
American Accounting Association Taxation Section
American Accounting Association Teaching, Learning and Curriculum Section
Information Systems Audit and Control Association (ISACA)
Institute of Internal Auditors (IIA)
Institute of Management Accountants (IMA)

Media Citations and Interviews

Walde, M. N. 2000. UAH to offer new track in computer security. *The Huntsville Times* (July 16): C1, C4.

Holsendolph, E. 1999. College exams taken by computer test skills for workplace. *The Atlanta Journal-Constitution* (December 19): H6.

Consulting Experience

Systems integration into accounting curricula
Information systems development
Litigation support
Systems training for accountants
Information systems auditing
Internal auditing

Public Service

Member, editorial advisory board, *The Journal of Professional Bookkeeping and Management*, 1991-1996

Co-chairperson, Computer Science Judging Team, 39th International Science and Engineering Fair, 1988