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Publications and Presentations

A. Publications

Recent Trends in Engineering Communication (with K. Neeley), American Society for Engineering Education Annual Conference Proceedings, June, 2020.

Communication across Divisions: Trends Emerging from Papers Presented at the 2015 Annual Conference of ASEE (with K. Neeley), American Society for Engineering Education Annual Conference Proceedings, June 2015.

Final Results of Reliability Testing for the Norback-Utschig Scoring System and Implications for Instruction (with T. Utschig, A. Bonifonte & G. Ross), American Society for Engineering Education Annual Conference Proceedings, June 2014.

Student Reflections on Capstone Design: Experiences with Industry-Sponsored Projects (with P. Rhoad, S. Howe, & L. Riley), International Journal of Engineering Education, 2014, Vol. 30, No. 1, pp. 39-47.

Insights into the Process of Building a Presentation Scoring System for Engineers (with T. Utschig & J. Bryan, American Society for Engineering Education Annual Conference Proceedings, June 2013.

Workplace Communication Instruction: Preliminary Inter-Rater Reliability Data for an Executive-Based Oral Communication Rubric (with T. Utschig & J. Bryan), American Society for Engineering Education Annual Conference Proceedings, June 2012.

Nifty Ideas in Capstone Design Education (with S. Howe, K. Caves, C. Kleiner, G. Livesay, R. Rogge, C. Turner, & T. Utschig). International Journal of Engineering Education, Fall 2011.

Refinement and Initial Testing of an Engineering Student Presentation Scoring System (with T. T. Utschig). American Society for Engineering Education Annual Conference Proceedings, June 2010.

Integrating an Executive Panel on Communication in Senior Design (with E. Leeds & K. Kulkarni). IEEE Transactions on Professional Communication, December 2010. Also invited to produce podcast and completed it, winter 2010 (online).

Building a Stakeholder-based Rubric to Enhance Student Communication Skills (with T. T. Utschig). International Journal of Process Education, Spring 2009.

Developing a Workforce Presentation Rubric at Georgia Tech, (with R. Burnett, A. Cooper, T. Utschig, & G. Forehand). American Society for Engineering Education Annual Conference Proceedings, June 2009.

Engineering Communication—Executive Perspectives on the Necessary Skills for Students (with E. M. Leeds & G. A. Forehand). International Journal of Modern Engineering. Vol. 10, No. 1, Fall/Winter 2009.

Managerial Presentations of Analytical Work, (with T. Grossman & J. Hardin). INFORMS Transactions on Education. Vol. 8, No. 3, May 2008.

An Evaluation of Workforce Presentation Instruction in Industrial Engineering Capstone Design (with P. Griffin & G. Forehand). American Society for Engineering Education Annual Conference Proceedings, June 2008.

Communication Instruction in an Engineering Introductory Statistics Course (with N. Serban, N. Gebrael & G. Forehand). American Society for Engineering Education Annual Conference Proceedings, June 2008.

Making a Program Work: Integrating Workforce Communication Instruction into Capstone Design. 2007 Proceedings for the Council of Programs for Technical and Scientific Communication, fall 2007.

Students' Values and Self-Perceptions Regarding Capstone Design Workforce Presentation Instruction (with P. Griffin, G. Forehand, & L. Gruppen). American Society for Engineering Education Annual Conference Proceedings, June 2007.

Comparing Senior Design Students' Audience Analyses to their Clients' Self-Descriptions (with R. Billings & G. Forehand). American Society for Engineering Education Annual Conference Proceedings, June 2006.

Engineering Workplace Communication (with J. Sokol, P. McGuire & G. Forehand) in P.K. Raju and Chetan Sankar (eds.), revised and expanded, prepared for CD. Introduction to Engineering through Case Studies. New York, NY: McGraw-Hill, 2006.

Improving Audience Analysis of Real-World Clients in Industrial Engineering Senior Design (with L. McNair and G. Forehand). American Society for Engineering Education Annual Conference Proceedings, June 2005.

Integrating Discipline-Specific Writing Instruction based on Workforce Data into Technical Communication Courses (with L. McNair). American Society for Engineering Education Annual

Conference Proceedings, June 2005.

Integrating Workplace Communication into Senior Design (with J. Hardin). IEEE Transactions on Professional Communication, Vol. 48, No. 4, December 2005.

Engineering Workplace Communication (with J. Sokol, P. McGuire & G. Forehand) in P.K. Raju and Chetan Sankar (Eds.), Introduction to Engineering through Case Studies. Anderson, SC: Tavener Publishing Company, 2004.

Teaching Workplace Communication in Senior Design (with G. Forehand, S. Jernigan & A. Quinn). American Society for Engineering Education Annual Conference Proceedings, June 2002.

Integrating Workplace Communication into Undergraduate Engineering Curricula (with D. Llewellyn & J. Hardin). OR/MS Today, Vol. 28, No. 4, August 2001.

Literacy Skills Analysis for Job Training. Philadelphia, PA: National Center on Adult Literacy, University of Pennsylvania, 1997.

An Investigation of Problem Solving Tasks in Different Graduate Disciplines (with M. Enright). GRE Board Professional Report No. 92-04P, ETS Research Report 96-23. Princeton, NJ: Educational Testing Service, 1997.

Print Use Profiles (with G. Forehand) in P. Barton (Ed.) Occupations and the Printed Word, ETS Policy Information Center, 1997.

Using O*NET to Define Workplace Literacy (with J. Philippi, L. Mikulecky, & T. Sticht). Washington, D.C.: U.S. Department of Labor and the North Carolina Occupational Analysis Field Center, 1997.

Collecting Workplace Literacy Data for O*NET (with J. Philippi, L. Mikulecky, & T. Sticht). Washington, D.C.: U.S. Department of Labor and the North Carolina Occupational Analysis Field Center, 1997.

Workplace Literacy Project for O*NET: A Summary (with J. Philippi, L. Mikulecky, & T. Sticht). Washington, D.C.: U.S. Department of Labor and the North Carolina Occupational Analysis Field Center, 1997.

Conceptualizing Workplace Literacy for O*NET (with J. Philippi, L. Mikulecky, & T. Sticht). Raleigh, NC: U.S. Department of Labor/North Carolina Occupational Analysis Field Center, 1996.

Strategy Paper for the National Skill Standards Board entitled Skill Levels and Equivalencies: Related Projects and Issues. Washington, D.C.: Institute for Educational Leadership, Inc., 1996.

Job Literacy: A Framework for Categorizing Skills and Assessing Complexity. (with G. Forehand). Princeton, NJ: Center for Skills Enhancement, Inc., 1995.

The Norback Job Literacy Structure. Princeton, NJ: Center for Skills Enhancement, Inc., 1995.

The New Standards Applied Learning Framework: Tying Workplace Literacy to Schools (with A. Lesgold, S. Katz & G. Eggan). National Reading Conference Yearbook. Chicago, IL: National Reading Conference, 1995.

Identifying the literacy skills needed by entry-level and mid-to-executive level secretaries (with S. Wilson & D. Wattay). Princeton, NJ: Center for Skills Enhancement, Inc., 1994.

Job Literacy Analysis: A practical methodology for use in defining, assessing, and treating job-related literacy problems. (with M. Rosenfeld & S. Wilson) Princeton, NJ: Center for Skills Enhancement, Inc., 1994.

Job analysis of the knowledge important for newly licensed physical education teachers. (with D. Wattay) Journal of Teaching Physical Education, Vol. 14, No. 1, October 1994.

Job analysis of the knowledge important for newly licensed/certified teachers of art. (with S. Wesley, M. Rosenfeld & D. Wattay) (ETS Research Report 93-38) Princeton, NJ: Educational Testing Service, July 1993.

Evolving a blueprint for certification: The responsibilities and knowledge comprising American professional oncology nursing practice. (with M. Ropka, M. Rosenfeld, C. Miller & B. Nielsen) Oncology Nursing Forum, 19(5), June 1992.

Workplace literacy: An overview of current major projects. (with M. Rosenfeld & S. Wilson) Human Resources Yearbook. Englewood Cliffs, NJ: Prentice-Hall, 1990.

Job Literacy Analysis: A new methodology for designing literacy testing and training specifications. (with M. Rosenfeld & S. Wilson) Princeton, NJ: Educational Testing Service, April 1990.

Needs Analysis for ARA services: 27 food service directors nationwide. (with M. Rosenfeld) Princeton, NJ: Educational Testing Service, January 1990.

Workplace literacy. (with M. Rosenfeld) Human Resources Yearbook. Englewood Cliffs, NJ: Prentice-Hall, 1989.

A national study of the profession of therapeutic recreation specialist. (with P. Oltman & M. Rosenfeld) Therapeutic Recreation Journal, Vol. 23, No. 2, 2nd quarter 1989.

A national study of the function of treasury management. (with M. Rosenfeld & K. Emens) Journal of Cash Management, Vol. 9, No. 3, May/June 1989.

Preliminary telephone survey for ARA services: 10 local food service directors. (with M. Rosenfeld)
Princeton, NJ: Educational Testing Service, August 1989.

A national study of the profession of oncology nursing. (with M. Rosenfeld & A. Gallagher)
Princeton, NJ: Educational Testing Service, November 1989.

Published (Cont.):

B. Published Books

Oral Communication Excellence for Engineers and Scientists: Based on Executive Input, book
published by Morgan & Claypool, fall 2013.

The Complete Computer Career Guide. Blue Ridge Summit, PA: TAB Books, 1987.

C. Reviewing

Articles for Journal of Engineering Education, 06 through 17.

Articles for INFORMS Transactions on Education, 06 through 11.

Papers for ASEE Conference (Divisions: Industrial Engineering, Educational Research and Measurement, Liberal Education, Women in Engineering, General Engineering, and Freshman Design Best Papers), Spring 04 through 23.

Textbook Communicating for Results, 9th edition, published by Thomson/Wadsworth

Articles for IEEE Transactions on Professional Communication, 08.

Papers for Frontiers in Education conference (co-sponsored by ASEE and IEEE), Fall 03, 05, 06 and Spring 07.

Journal article for Journal of STEM Education: Innovations and Research, Spring 05.

D. Presentations

Communication across Divisions: Trends Emerging from Papers Presented at the 2015 Annual Conference of American Society for Engineering Education (with K. Neeley), Session presented at ASEE Annual Conference, June 2015.

Final Results of Reliability Testing for the Norback-Utschig Scoring System and Implications for Instruction (with T. Utschig, A. Bonifonte & G. Ross), Session presented at ASEE Annual Conference, June 2014.

Insights into the Process of Building a Presentation Scoring System for Engineers (with T. Utschig & J. Bryan). Session presented at ASEE Annual Conference, June 2013.

Workplace Communication Instruction: Preliminary Inter-Rater Reliability Data for an Executive-Based Oral Communication Rubric (with T. Utschig & J. Bryan). Session presented at ASEE Annual Conference, June 2012.

Improving Students' Oral Presentation Skills Using an Executive-Based Rubric developed at Georgia Tech (with T. Utschig). Workshop accepted by PIC Chair Committee for ASEE Conference, ERM Division, Vancouver, June 2011.

Georgia Tech Workforce Presentation Instruction Based on Executive Input (with T. Utschig). Session presented for Capstone Design Conference, June 2010.

Refinement and Initial Testing of an Engineering Student Presentation Scoring System (with T. Utschig). Session presented for American Society for Engineering Education Conference, ERM Division, Nashville, June 2010.

Communication Experts Network and Answer your Questions, panel assembled and led for American Society for Engineering Education Conference, LED Division, Nashville, June 2010.

Communication Instruction in Industrial Engineering and Business Schools (with E. Leeds). Assembled and chaired two sessions including Cornell, USC, Texas Tech, University of San Francisco Masegung School of Business, Kennesaw State Coles College of Business, Berkeley. INFORMS Annual Meeting, San Diego, Fall 2009.

Preliminary Scoring System for Engineering Student Presentations (Based on Executive Input)" (with T. Utschig). Session presented for the INFORMS Annual Meeting, San Diego, Fall 2009.

Developing a Workforce Presentation Rubric at Georgia Tech (with R. Burnett, A. Cooper, T. Utschig & G. Forehand). Session presented at American Society for Engineering Education, LED Division, San Diego, June 2009.

An Evaluation of Workforce Presentation Instruction in IE Capstone Design (with P. Griffin & G. Forehand). Session presented at American Society for Engineering Education, IE Division, Pittsburgh, June 2008.

Communication Instruction in an Engineering Introductory Statistics Course (with N. Serban, N. Gebrael & G. Forehand). Session presented at American Society for Engineering Education, LED Division, Pittsburgh, June 2008.

Workforce Communication Program: Instruction that Works and Assessment Built from Executive Input (with T. Utschig, R. Burnett & G. Forehand). Organized session on Georgia Tech

Undergraduate and Graduate Communication Instruction and presented paper at INFORMS Annual Meeting, Austin, TX, Fall 08.

Making a Program Work: Integrating Workforce Communication Instruction into Capstone Design. Session presented at Council of Programs for Technical and Scientific Communication, South Carolina, Fall 07.

Workforce Communication Instruction in Capstone Design and Introduction to Statistics (with N. Serban, N. Gebrael & P. Griffin). Session presented at INFORMS Annual Meeting, Seattle, WA, Fall 07.

Georgia Tech Workforce Communication Program: Students' Values and Self-Perceptions Regarding Capstone Design Workforce Presentation Instruction (with P. Griffin, G. Forehand, & L. Gruppen). Session presented for LED Division at ASEE Annual Meeting, Hawaii, June 2007.

Keynote speaker at "Bringing Theory and Practice Together in Engineering Classrooms," conference at Auburn University. Sponsored by NSF and the Laboratory for Innovative Technology and Engineering Education, March 2007.

Integrating Workforce Communication into an Engineering Introduction to Statistics Course (with Serban). Session presented for the INFORMS Annual Meeting, Pittsburgh, PA, November 2006.

Effective Managerial Presentations of Analytical Work (with Grossman). Session presented for the INFORMS Annual Meeting, Pittsburgh, PA, November 2006.

Georgia Tech IE Workforce Communication: Comparing Senior Design Students' Audience Analyses to their Clients' Self-Descriptions (with R. Billings & G. Forehand). Session presented for IE Division at ASEE Annual Meeting, Chicago, IL, June 2006.

Georgia Tech IE Workforce Communication: Lessons Learned from Senior Executives (with G. Forehand). Session presented for LED Division at ASEE Annual Meeting, Chicago, IL, June 2006.

Workforce Communication for Undergraduate IE Schools and for Analytical Work in Business Schools INFORMS Annual Meeting, November 2005. Session organized and presented (with J. Watson Research Center, IBM and University of San Francisco).

Presented two papers: How to Bring Workforce Communication Skills into Undergraduate Industrial Engineering Curricula (with P. McGuire & L. McNair), and How Should Business Students Give Managerial Presentations of Analytical Work? (with T. Grossman & J. Hardin).

Improving Audience Analysis of Real-World Clients in Industrial Engineering Senior Design (with L. McNair and G. Forehand). Session presented at IE Division at ASEE Annual Meeting, Portland, OR, June 2005.

Incorporating Workplace Communication in Science and Engineering Courses (with L. McNair). Invited workshop given for the Annual Meeting of the American Association for the Advancement of Science (AAAS), Washington, DC, February 2005.

Targeting ABET Communication Outcomes: Strategies That Get Results (with R. Harvey and J. Williams). Workshop given for the Liberal Education Division for ASEE Annual Meeting, Portland, OR, June 2005.

Improving Audience Analysis of Real-World Clients in Industrial Engineering Senior Design (with L. McNair and G. Forehand). Session presented at IE Division at ASEE Annual Meeting, Portland, OR, June 2005.

Integrating Discipline-Specific Writing Instruction based on Workforce Data into Technical Communication Courses (with L. McNair). Session presented in Liberal Education Division at ASEE Annual Meeting, Portland, OR, June 2005.

Bringing Workplace Communication into a Technical Communication Course for Industrial and Electrical Engineers (with L. McNair, P. McGuire, M. Laughter, B. Sutley-Fish & G. Forehand). Poster presented at NSF CCLI Meeting, Washington, DC, April 2004.

Using a Communication Lab to Integrate Workplace Communication into Senior Design (with J. Sokol, G. Forehand & B. Sutley-Fish) Session presented at IE Division at ASEE Annual Meeting, Salt Lake City, UT, June 2004.

Teaching Workplace Communication in Industrial and Electrical Engineering (with L. McNair, M. Laughter, G. Forehand & B. Sutley-Fish). Session presented at Liberal Education Division at ASEE Annual Meeting, Salt Lake City, UT, June 2004.

Incorporating Communication in Engineering Undergraduate Education, INFORMS Annual Meeting Atlanta, GA, November 2003. Session organized and presented (with Virginia Commonwealth University and University of Pittsburgh)

Communication in Undergraduate Curriculum, INFORMS Annual Meeting, San Jose, CA, November 2002. Session organized and presented (with Virginia Commonwealth University and University of Pittsburgh.)

Teaching Workplace Communication in Senior Design. Session presented at ASEE Annual Meeting, Montreal, Canada, June 2002.

Using Workplace Context to Improve Undergraduate Communication Skills. Session presented for the INFORMS Annual Meeting, Miami Beach, FL, November 2001.

Using a Web-Based System to Integrate Workplace Communication Skills into Engineering Curriculum (with D. Llewellyn, J. Donnell, & A. Quinn). Session presented at the Frontiers in

Education Conference (co-sponsored by IEEE and ASEE), Reno, NV, October, 2001.
Integrating Workplace Communication into the IE Curriculum (with D. Llewellyn). Session presented at the 6 Simposium Internacional de Ingenieria Industrial Instituto Tecnologico de la Laguna Torreon, Mexico, May 2001.

Current Research on Workplace Literacy: Implications for Grades 8 - 12. Part I: Literacy Profiles for the New U.S. Department of Labor Occupational Information Network (O*NET), Part II: Workplace Literacy Skills Common across Jobs, Part III: Literacy Skills for Workplace Interaction. (Symposium developed jointly with J. Philippi, G. Forehand, L. Mikulecky, T. Sticht, & S. Katz) Symposium presented at the International Reading Association's 43rd Annual Convention, Orlando, FL, May, 1998.

Advances in Conceptualizing Workplace Literacy: Part I: An Empirically-Based Workplace Literacy Structure, Part 2: The U.S. Department of Labor O*NET Workplace Literacy Structure, Part 3: Literacy Skill Structure for Workplace Communication. (with J. Philippi, G. Forehand, S. Katz, T. Sticht, & L. Mikulecky) Symposium presented at the 1996 National Reading Conference, Charleston, SC, December, 1996.

U. S. DOL O*NET Workplace Literacy Project (with J. Philippi). Paper presented at The Center on Education and Work's Conference on Workplace Learning: The Strategic Advantage, Milwaukee, WI, April, 1996.

Current U.S. Research on Literacy and the Workplace: Part 1: The U.S. Steel Industry's Initiative on Skills Enhancement for the Future; Part 2: The U.S. Department of Labor Workplace Literacy Project; Part 3: Complexity and Basic Communication: Two Common Themes. (with J. Philippi and G.. Forehand) Panel presentation given at the 1996 World Conference on Literacy, Philadelphia, PA, March, 1996.

An Update on Job Literacy Analysis Research: Implications for Adult Education. Paper presented at the International Reading Association's 4th North American Conference on Adolescent/Adult Literacy, Washington, DC, February, 1996.

The Initiative on Skills Enhancement for the Future: Job Literacy Analysis in a Unionized Setting. (with R. Smith) Showcase at the International Reading Association's 4th North American Conference on Adolescent/Adult Literacy, Washington, DC, February, 1996.

Job Literacy Issues in Unionized and Other Settings. (with J. Evans and R. Smith) Roundtable given at the International Reading Association's 4th North American Conference on Adolescent/Adult Literacy, Washington, DC, February, 1996.

An Update on Job Literacy Analysis Research: Implications for Adult Education. Paper presented at the AAACE 1995 Annual Adult Education Conference, Kansas City, KS, November, 1995.

The Institute for Career Development and Innovation in Adult Literacy: The Initiative on Skills Enhancement for the Future. Paper presented at the AAACE 1995 Annual Adult Education Conference, Kansas City, KS, November, 1995.

The Institute for Career Development and Innovation in Adult Literacy: Designing Customized Basic Skills. Paper presented at the AAACE 1995 Annual Adult Education Conference, Kansas City, KS, November, 1995.

The Institute for Career Development and Innovation in Adult Literacy: Motivating Adult Learners to Learn. (with R. Smith) Paper presented at the AAACE 1995 Annual Adult Education Conference, Kansas City, KS, November, 1995.

The U.S. Steel Industry Initiative and What It Means for You. Paper presented at the National Center on Adult Literacy (NCAL) Adult Literacy Leadership Summer Seminar, Philadelphia, PA, July, 1995.

Training for the Future: Curriculum Design using Results from the Initiative on Skills Enhancement for the Future. (with P. Berns) Paper presented at the 4th Annual Conference of the Institute for Career Development, Baltimore, MD, June, 1995.

The Initiative on Skills Enhancement for the Future. Paper presented at the 4th Annual Conference of the Institute for Career Development, Baltimore, MD, June 1995.

A Framework for Categorizing Job Literacy Skills. (with G. Forehand) Paper presented at the 1994 National Reading Conference 44th Annual Meeting, San Diego, CA, December 1994.

A Framework for Operationalizing Job Literacy Complexity. (with G. Forehand) Paper presented at the 1994 National Reading Conference 44th Annual Meeting, San Diego, CA, December 1994.

The New Standards Applied Learning Framework: Tying Workplace Literacy to the Schools.(with A. Lesgold, S. Katz, & G. Eggen) Paper presented at the 1994 National Reading Conference 44th Annual Meeting, San Diego, CA, December 1994.

An Update on Job Literacy Analysis Research: Implications for Adult Education. Paper presented at the Annual Adult Education Conference of the American Association of Adult and Continuing Education, Nashville, TN, November 1994.

Job Literacy Analysis in the U.S. Steel Industry: Initiative on Skills Enhancement for the Future. (with S. Ingram) Paper presented at the Annual Adult Education Conference of the American Association of Adult and Continuing Education, Nashville, TN, November 1994.

Focus on the Future: The Initiative on Skills Enhancement. Paper presented at the 3rd Annual Conference of the Institute for Career Development, Pittsburgh, PA, June 1994.

Hands-On Practice in Customizing Basic Skills Classes. (with P. Berns) Workshop presented at the 3rd Annual Conference of the Institute for Career Development, Pittsburgh, PA, June 1994.

How to Select Basic Skills Training Vendors. (with P. Berns and H. Rubenstein) Presentation at the 3rd Annual Conference of the Institute for Career Development, Pittsburgh, PA, June 1994.

Job Literacy Analysis: the adult literacy implications of identifying the literacy skills of jobs. Paper presented at the International Reading Association's 3rd North American Conference on Adult and Adolescent Literacy, Washington, DC, February 1994.

Tying Job Literacy Analysis to the National Adult Literacy Survey (NALS). Paper presented at the International Reading Association's 3rd North American Conference on Adult and Adolescent Literacy, Washington, DC, February 1994.

Job Literacy Analysis Working in a Union Setting. Paper presented at the International Reading Association's 3rd North American Conference on Adult and Adolescent Literacy, Washington, DC, February 1994.

Workplace Literacy. Chair of symposium at the International Reading Association's 3rd North American Conference on Adult and Adolescent Literacy, Washington, DC, February 1994.

Job Literacy Analysis: Identifying the literacy skills required by jobs and job clusters. Paper presented at the national meeting of the American Association of Adult and Continuing Education, Washington, DC, May 1993.

Job Literacy Analysis: A workshop. Workshop presented at the American Society for Training and Development National Meeting, New Orleans, LA, May 1992.

Job Literacy Analysis: A new methodology for determining the literacy requirements of jobs. Invited presentation at the American Psychological Association convention on "Workplace Literacy: Preliminary Research and Potential Solutions," Boston, MA, August 1990.

The analysis of literacy requirements of jobs. Paper presented at the National Workplace Literacy Convention, Rochester, NY, November 1989.