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Current Affiliations

Director of Evaluation and Research Associate, Penn State Center for Evaluation and Education Policy Analysis, College of Education at The Pennsylvania State University, University Park, Pennsylvania.

Assistant Professor of Education, Workforce Education & Development academic program (see <http://www.ed.psu.edu/wfed>) in the College of Education at The Pennsylvania State University, University Park, Pennsylvania. Member of Penn State Graduate Faculty.

Credit Courses: WFED597 *Data Analysis for Workforce Education and Development*, WFED5471 *Lean Sigma*, WFED405 *Project Management for Professionals*, WFED597 *Working Close Apart*, WFED543 *Evaluation of Workforce Education and Development Investments*, WFED597 *Diffusion and Utilization of Innovations (now titled Innovation and Change in Workforce Education and Development)*, and WFED544 *Analysis of Policies in Workforce Education and Development*.

Continuing Education Courses: MDEV6497-OP *Minitab for Operational Improvement*, STAT5005 *Statistical Process Control for Frontline Employees* and STAT5006 *Statistical Process Control and Applied Process Improvement*.

Faculty Affiliate, Bennett Pierce Prevention Research Center and the Justice Center for Research at The Pennsylvania State University, University Park, Pennsylvania.

Faculty Associate, Institute for Energy and the Environment, Duquesne University, Pittsburgh, Pennsylvania.

Member of Advisory Group, Multi-State Shale Collaborative composed of research and policy organizations in New York (Fiscal Policy Institute), Ohio (Policy Matters Ohio), Pennsylvania (Keystone Research Center/Pennsylvania Budget and Policy Center), Virginia (Commonwealth Institute), and West Virginia (West Virginia Center on Budget and Policy).

Professional Organization memberships: *American Educational Research Association*, Division H—Research, Evaluation, and Assessment in Schools; *International Society for Performance Improvement*; and *Project Management Institute*.

Education

PhD

Doctor of Philosophy in Instructional Systems from The Pennsylvania State University in University Park, Pennsylvania in May 2006. *Dissertation*: A meta-analytic assessment of the use of rehearsal strategies in the Program of Systematic Evaluation (available in the ProQuest database, see <http://baker-thesis.notlong.com>).

MEd

Master of Education in Adult Education from The Pennsylvania State University in University Park, Pennsylvania in August 1998. *Research Paper*: Designing computer-based instruction for adult learners.

BA

Bachelor of Arts in Mathematics and Chemistry from Washington and Jefferson College in Washington, Pennsylvania, in May 1987.

Additional Certifications, Education & Training

Completed courses in applied educational theory, educational expectations, and computer applications in education at Duquesne University, Shippensburg University, The Pennsylvania State University, and Wilkes University; completed certification requirements for the Pennsylvania Department of Education Instructional II teaching certificate for mathematics and chemistry; completed certification requirements for the Project Management Institute Project Management Professional certificate; and received certificate of completion for “U.S. Bureau of Statistics Confidentiality Training for National Longitudinal Surveys Researchers.”

Personal Information

- *Home postal address*: 280 Oak Lane, State College, Pennsylvania, 16801–7219.
- *Work postal address*: 310F Keller Building, University Park, Pennsylvania 16802.
- *E-mail address*: rmb194@psu.edu for Penn State business; otherwise, rosework123@gmail.com.

- *Web presence:* Penn State Center for Evaluation and Education Policy Analysis web site—<http://ceepa.psu.edu>; Institute for Research in Training and Development web site—<http://irted.ed.psu.edu>; Personal web site—<http://www.personal.psu.edu/rmb194>.
- *Telephone:* 1.814.865.9919.
- *Fax:* 1.814.865.0128.
- *Voice-over-IP:* AIM/iChat—rosebakerpmp; Skype—rmb194.

Awards and Honors

Induction into Trinity Area Sports Hall of Fame, with Trinity High School 1982 and 1983 Western Pennsylvania Interscholastic Athletic League Champion teams. Inducted November 2014.

Climate Enhancement Award from Penn State College of Education. Presented April 2013.

Pennsylvania Business Central's 25 Women Making a Difference from the Pennsylvania Business Central in collaboration with St. Francis University. Presented September 2011.

Impact Pennsylvania, Serve the Nation, Reach the World Award with J. Gido and K. Matsueda from Penn State Continuing and Professional Education. Presented August 2009.

Chapter contributed with D. L. Passmore (“Sampling strategies and power analysis”) to *Research in Organizations: Foundations and methods of inquiry*. (R. A. Swanson & E. F. Holton III, editors, San Francisco: Berrett-Koehler, 2005.) which won 2005 Outstanding Book of the Year Award from the Academy of Human Resource Development.

Best Quality Award from Penn State Continuing Education. Presented April 2005.

Dean of the College of Education Research Initiation Grant Award from the Penn State College of Education. Presented September 2002.

Lavanda Mueller Award for Outstanding Academic Achievement from the Penn State College of Education. Presented May 2000.

Andrew V. Kozak Award for Leadership, Research, and Service to Public Education awarded by Phi Delta Kappa. Presented May 2000.

Paul W. Welliver Outstanding Graduate Student of the Year from the Pennsylvania Chapter of the Association for Educational Communications and Technology. Presented October 1999.

Distinguished Alumni Graduate Student Scholarship for Outstanding Performance in School and Community awarded by the Penn State College of Education. Presented September 1999.

Distinguished Research Paper for 1999 presented by the Pennsylvania Educational Research Association at the 1999 meeting in Harrisburg, Pennsylvania. The paper was presented at the 2000 American Educational Research Association meeting in New Orleans, Louisiana.

District VI Student Council Advisor of the Year awarded by the Pennsylvania Association of Student Councils. Presented at the 1996 state conference.

NRA Smallbore Silhouette National Long Run Record, Women, Chickens 53, Pigs 55, Turkeys 18, Rams 36, 1991 (note: scores under the name Rose Trew).

Girl Scout Gold Award, Girl Scouts of America. Presented in May 1983.

Previous Professional Work Experience

Contributing Columnist with D. L. Passmore for regional business newspaper, *Pennsylvania Business Central* (see <http://PBCBriefing.notlong.com>), June 2008 through June 2013. Column was titled, *Economic and Workforce Briefing*.

Professional Associate, Academic Outreach, The Pennsylvania State University, University Park, Pennsylvania, November 2006 through June 2013.

Director, Center for Regional Economic and Workforce Analysis, Office of Public Partnerships and Engagement, Penn State Outreach, The Pennsylvania State University, University Park, Pennsylvania, November 2006 through June 2011. The Center was the direct partner with the Institute for Research in Training and Development in the Penn State College of Education Learning and Performance Systems Department in the three-year memorandum of agreement that established the Penn State Workforce Education and Development Initiative (see <http://irted.ed.psu.edu>).

Project Manager, Faculty Member, and Instructional Designer, Management Development Programs and Services, Penn State Continuing Education, July 2001 through October 2006.

Web-based Course Evaluator, Educational Technology Integration Program, World Campus, The Pennsylvania State University, University Park, Pennsylvania, August 2000 through May 2001.

Continuing Education Instructor, University of Phoenix, Michigan Campus, Troy, Michigan, May to June 2000.

Training, Technology, and Systems Development Intern, General Motors University, Warren Michigan, January 2000 through April 2000.

World Campus Survey Research Assistant, World Campus, The Pennsylvania State University, University Park, Pennsylvania, August 1999 through January 2000.

Research Assistant, Instructional Systems Program, College of Education, The Pennsylvania State University, University Park, Pennsylvania, May 1999 through February 2002.

Teaching Assistant, Instructional Systems Program, College of Education, The Pennsylvania State University, University Park, Pennsylvania, May 1999 through December 2000.

Continuing Education Instructor, Computer Literacy, Huntingdon County Career and Technology Center, Mill Creek, Pennsylvania, August 1988 through May 1991.

Mathematics, Chemistry, and Computer Applications Teacher and Student Council Advisor, Southern Huntingdon County School District, Three Springs, Pennsylvania, August 1987 through August 1999.

Chemistry Laboratory and Instrument Manager, Washington and Jefferson College, Washington, Pennsylvania, August 1985 through May 1986.

Editorial Work

Article Reviewer of *IEEE Transactions on Emerging Topics in Computing*, 2015 through current date.

Article Reviewer of *New Horizons in Adult Education and Human Resource Development*, 2014 through current date.

Article Reviewer of *Frontiers of Environmental Science and Engineering*, 2013 through current date.

Co-Editor with D. L. Passmore of *International Journal of Vocational Education and Training*, July 2011 through June 2013.

Article Reviewer of *American Journal of Education*, 2008 through current date.

Article Reviewer of *International Journal of Training and Development*, 2007 through current date

Manuscript Reviewer for Corwin Press, California, 1997 through 1999.

Publications

Books, Monographs, Book Chapters, & Contributions To Proceedings

McLaughlin, J. S., and Baker, R. M. (2014). Environmental Science Education in the 21st Century: Addressing the Challenges and Opportunities both Globally and at Home through Online Multimedia Innovation. In M. Thomas (Ed.), *Pedagogical Considerations and Opportunities for Teaching and Learning on the Web*, Hershey, Pennsylvania: IGI Global.

Coyle, M. S., Baker, R. M., and McLaughlin, J. S. (2013). Transforming an undergraduate biology laboratory experience into a research environment. *Proceedings of the National Association of Biology Teachers Conference*: Atlanta, Georgia.

Kumar, S. A., Baker, R., Coyle, M., and McLaughlin, J. (2012). Using inquiry-based activities to transform undergraduate science education: A model lab for understanding cell growth and viability. *Proceedings of the National Association of Biology Teachers Conference*: Dallas, Texas.

Baker, R. M., and Passmore, D. L. (2008). Failure to earn a high school diploma: Correlates and consequences. In Central Pennsylvania Workforce Development Corporation (Ed.), *Increasing education and employment outcomes for youth in transition: Research on school dropouts and youth who have aged out of foster care in central Pennsylvania* (pp. 132–150). Lewisburg, Pennsylvania: Author. (see <http://wedi.psu.edu/joomla15/index.php/component/content/article/39-researchreportscategory/128-failure-to-earn-a-high-school-diploma-correlates-and-consequences-for-central-pennsylvania>)

Baker, R. M., and Passmore, D. L. (2005). Self-organizing social learning through the monastery gates. In V. Uskov (Ed.), *Web-based education*. Anaheim, CA: ACTA Press.

Passmore, D. L., and Baker, R. M. (2005). Sampling strategies and power analysis. In R. A. Swanson & E. Holten (Eds), *Research in organizations: Foundations and methods of inquiry*. San Francisco: Berrett-Koehler, 2005.

Dwyer, F. M., and Baker, R. M. (2000). A systemic meta-analytic assessment of the instructional effects of varied visuals on different types of educational objectives. *International Visual Literacy Association Conference Proceedings*: Iowa.

Baker, R. M., and Dwyer, F. M. (2000). A meta analysis assessment of the effect of visualized instruction. *Association for Educational Communications and Technology (AECT) Conference Proceedings*: Long Beach, California.

Conceptual Papers and Reviews of Literature in Refereed Publications

Passmore, D. L., Cebeci, E., and Baker, R. (2005). Potential of idea future markets in educational technology. *Journal of Derivatives Markets*, 2(4), 56-66.

Passmore, D. L., Cebeci, E., and Baker, R. (2005). Market-based information for decision support in human resource development. *Human Resource Development Review*, 4(1), 33-48.

Empirical Research Published in Refereed Publications

Kim, K.-N., & Baker, R. (2014). The Assumed Benefits and Hidden Costs of Adult Learners' College Enrollment. *Research in Higher Education*, 1-24. doi:10.1007/s11162-014-9351-x.

Semali, L. M., Baker, R., and Freer, R. (2013). Multi-institutional partnerships for higher education in Africa: A case study of assumptions of international academic collaboration. *International Journal of Higher Education*, 2(2), 53-66.

Baker, R. M. and Dwyer, F. M. (2005). A meta-analytic assessment of the effects of instructional strategies and individual differences in reducing achievement differences in between FI/FD learners. *International Journal of Instructional Media*, 32(1), 69-84.

Baker, R. M. and Dwyer, F. M. (2000). The meta-analytic effects of using visualization in instruction, *International Journal of Instructional Media*, 27(4), 417-426.

Economic and Workforce Brief Series

The Economic and Workforce Brief is a product developed for Penn State's Workforce Education and Development Initiative to provide workforce planners, educators, and journalists a quick-response report that describes the macroeconomic effect of a change in industry employment (e.g., plant closing or opening or a natural disaster) on total county jobs, employee compensation, and local property taxes (see <http://PSUBrief.notlong.com/> for additional information about the Economic and Workforce Brief series and for downloadable copies of each Brief report).

Baker, R. M., Dixon, D. L. and Passmore, D. L. (May 7, 2010). *Role of plastics manufacturing in the economy of Carbon, Monroe, Pike, & Wayne counties*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see <http://ssrn.com/abstract=1602151>)

Baker, R. M., and Passmore, D. L. (April 30, 2010). *Role of fabricated structural steel manufacturing in the economy of Luzerne county*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see <http://ssrn.com/abstract=1598291>)

Baker, R. M., Dixon, D. L. and Passmore, D. L. (April 30, 2010). *Role of employment services in the economy of Franklin county*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see <http://ssrn.com/abstract=1598424>)

Baker, R. M., Dixon, D. L. and Passmore, D. L. (April 30, 2010). *Role of plastics products manufacturing in the economy of Erie county*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see <http://ssrn.com/abstract=1598411>)

Baker, R. M., Dixon, D. L. and Passmore, D. L. (April 16, 2010). *Role of glass container manufacturing in the economy of Clarion, Jefferson, & Clearfield counties*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see <http://ssrn.com/abstract=1589144>)

Baker, R. M., Dixon, D. L. and Passmore, D. L. (April 9, 2010). *Role of glass and glass products manufacturing in the economy of Huntingdon County*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see <http://ssrn.com/abstract=1587035>)

Baker, R. M., Dixon, D. L. and Passmore, D. L. (April 2, 2010). *Role of fruit and vegetable canning in the economy of Blair County*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see <http://ssrn.com/abstract=1581304>)

- Baker, R. M., and Passmore, D. L. (March 30, 2010). *Role of poultry and egg production in the economy of the United States*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see <http://ssrn.com/abstract=1581500>)
- Baker, R. M., Dixon, D. L. and Passmore, D. L. (March 26, 2010). *Role of mining machinery and equipment manufacturing in the economy of Blair County*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see <http://ssrn.com/abstract=1576681>)
- Baker, R. M., Dixon, D. L. and Passmore, D. L. (March 19, 2010). *Role of poultry and egg production in the Pennsylvania economy*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see <http://ssrn.com/abstract=1574335>)
- Baker, R. M., Dixon, D. L. and Passmore, D. L. *Role of paper mills in the economy of Blair County*. (March 19, 2010). University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see <http://ssrn.com/abstract=1572843>)
- Baker, R. M., Dixon, D. L. and Passmore, D. L. (March 12, 2010). *Role of manufacturing textile products from purchased materials in the economy of Lebanon County*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see <http://ssrn.com/abstract=1567615>)
- Baker, R. M., Dixon, D. L. and Passmore, D. L. (March 5, 2010). *Role of support activities for transportation in the economy of Philadelphia & Delaware Counties*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see <http://ssrn.com/abstract=1565592>)
- Baker, R. M., Dixon, D. L. and Passmore, D. L. (February 25, 2010). *Role of nursing and residential care facilities in the Pennsylvania economy*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see <http://ssrn.com/abstract=1559099>)
- Baker, R. M., Dixon, D. L. and Passmore, D. L. (February 23, 2010). *Role of hospitals in the Pennsylvania economy*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see <http://ssrn.com/abstract=1557864>)
- Baker, R. M., Dixon, D. L. and Passmore, D. L. (February 18, 2010). *Role of ambulatory health care services in the Pennsylvania economy*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see <http://ssrn.com/abstract=1555084>)
- Baker, R. M., Dixon, D. L. and Passmore, D. L. (February 10, 2010). *Role of nursing & residential care facilities in the economy of Potter & Tioga counties*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see <http://ssrn.com/abstract=1550837>)
- Baker, R. M., Passmore, D. L., and Gardner, B. J. (September 25, 2009). *Role of motorcycle, bicycle, and parts manufacturing in the economy of York County*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative.
- Baker, R. M., Passmore, D. L., Tenny, K. L., and Yoo, J. W. (March 9, 2009). *Role of soft drink & ice manufacturing in the economy of Washington County*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see <http://tinyurl.com/Softdrink-Washington>)
- Baker, R. M., Passmore, D. L., Tenny, K. L., and Yoo, J. W. (March 9, 2009). *Role of resilient floor covering manufacturing in the economy of Lancaster County*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see <http://tinyurl.com/FloorCovering-Lancaster>)
- Baker, R. M., Passmore, D. L., Tenny, K. L., and Yoo, J. W. (March 9, 2009). *Role of general medical & surgical hospitals in the economy of Cumberland & Dauphin counties*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see <http://tinyurl.com/Hospitals-CumberlandDauphin>)
- Baker, R. M., Passmore, D. L., Tenny, K. L., and Yoo, J. W. (March 6, 2009). *Role of motorcycle, bicycle, and parts manufacturing in the economy of York County*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://irted.psu.edu:5000/pdfnew/harley_york.pdf)
- Baker, R. M., Passmore, D. L., Tenny, K. L., and Yoo, J. W. (March 2, 2009). *Role of nondepository credit intermediation in the economy of Montgomery County*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see <http://nondepcredit-mont.notlong.com>)
- Baker, R. M., Passmore, D. L., Tenny, K. L., and Yoo, J. W. (February 27, 2009). *Role of general medical & surgical hospitals in the Economy of Dauphin, Lancaster & Lebanon Counties*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see <http://Med-Surg-Daugh-Lan-Leb.notlong.com>)
- Baker, R. M., Passmore, D. L., Tenny, K. L., and Yoo, J. W. (February 19, 2009). *The role of motor and generator manufacturing in Chester and Montgomery counties*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see <http://notor-ches-mont.notlong.com/>)

- Baker, R. M., and Passmore, D. L. (December 4, 2008). *Role of motor vehicle and parts dealerships in the Pennsylvania economy*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see <http://PA-AutoSales.notlong.com>)
- Baker, R. M., and Passmore, D. L. (December 4, 2008). *Forecast of the economic impact of purchases of vehicles & parts by Pennsylvania households, 2008*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see <http://PA-AutoPurchases.notlong.com>)
- Baker, R. M., Passmore, D. L., Tenny, K. L., and Yoo, J. W. (November 14, 2008). *Role of research and development in the physical, engineering, and life sciences in the economy of Allegheny and Westmoreland counties*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1478065f)
- Baker, R. M., Passmore, D. L., Tenny, K. L., and Yoo, J. W. (October 31, 2008). *Role of commercial banking in the economy of Allegheny County*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1478031)
- Baker, R. M., Passmore, D. L., Tenny, K. L., and Yoo, J. W. (October 31, 2008). *Role of cable and other subscription programming in the economy of Philadelphia County*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://irted.psu.edu:5000/pdfnew/Cable_Philadelphia.pdf)
- Baker, R. M., Passmore, D. L., Tenny, K. L., and Yoo, J. W. (October 31, 2008). *Role of pharmaceutical preparation manufacturing in the economy of Montgomery & Philadelphia counties*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1481962)
- Baker, R. M., Passmore, D. L., and Yoo, J. W. (October 21, 2008). *Role of newspaper publishers in the economy of Cumberland & Dauphin counties*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://irted.psu.edu:5000/pdfnew/Newspaper_CumbDauph.pdf)
- Baker, R. M., Passmore, D. L., and Yoo, J. W. (October 21, 2008). *Role of machine shops in the economy of Lancaster County*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1477960)
- Baker, R. M., Passmore, D. L., and Yoo, J. W. (October 21, 2008). *Role of miscellaneous general purpose machinery manufacturing in the economy of York County*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1477982)
- Baker, R. M., Passmore, D. L., Tenny, K. L., and Yoo, J. W. (October 10, 2008). *Role of electric power generation, excluding hydroelectric & fossil fuels, in the economy of Columbia & Luzerne counties, Pennsylvania*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://irted.psu.edu:5000/pdfs/Electric_Columbia_Luzerne.pdf)
- Baker, R. M., Passmore, D. L., Tenny, K. L., and Yoo, J. W. (October 10, 2008). *Role of natural gas distribution in the economy of Allegheny County, Pennsylvania*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1481894)
- Baker, R. M., Passmore, D. L., Tenny, K. L., and Yoo, J. W. (October 10, 2008). *Role of computer storage device manufacturing in the economy of Allegheny County, Pennsylvania*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1477955)
- Baker, R. M., Passmore, D. L., Tenny, K. L., and Yoo, J. W. (October 10, 2008). *Role of newspaper publishing in the economy of Allegheny County, Pennsylvania*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1481905)
- Baker, R. M., Passmore, D. L., Tenny, K. L., and Yoo, J. W. (September 22, 2008). *Role of upholstered household furniture manufacturing in the economy of Lancaster County, Pennsylvania*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative.
- Baker, R. M., Passmore, D. L., and Yoo, J. W. (September 16, 2008). *Role of real estate credit in the economy of Montgomery & Philadelphia counties*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1478035)
- Baker, R. M., Passmore, D. L., and Yoo, J. W. (September 12, 2008). *Role of the general medical & surgical hospitals industry in the economy of Lehigh & Northampton counties*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1478077)
- Baker, R. M., and Passmore, D. L. (September 12, 2008). *Role of soap & detergent manufacturing in the economy of York County, Pennsylvania*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1481975)

- Baker, R. M., Passmore, D. L., and Yoo, J. W. (September 10, 2008). *Role of pressed and blown glass and glassware manufacturing in the economy of McKean County, Pennsylvania*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see <http://Glass-McKean.notlong.com>)
- Baker, R. M., and Passmore, D. L. (August 29, 2008). *Role of gasket, packing, and sealing device manufacturing in the economy of Monroe County, Pennsylvania*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1481870)
- Baker, R. M., and Passmore, D. L. (July 18, 2008). *Role of outpatient care centers, medical and diagnostic laboratories, and other ambulatory care services in the economy of Centre County, Pennsylvania*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1478071)
- Baker, R. M., and Passmore, D. L. (July 1, 2008). *Role of sheet metal manufacturing in the economy of Bedford County, Pennsylvania*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1478682)
- Baker, R. M., and Passmore, D. L. (July 1, 2008). *Role of paper & paperboard mills in the economy of Elk County, Pennsylvania*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1481949)
- Baker, R. M., and Passmore, D. L. (June 18, 2008). *Role of dairy production in the economy of Huntingdon, Lancaster, & Mifflin counties, Pennsylvania*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1481877)
- Baker, R. M., and Passmore, D. L. (June 18, 2008). *Role of home manufacturing in the economy of Clarion County, Pennsylvania*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1479713)
- Baker, R. M., and Passmore, D. L. (June 18, 2008). *Role of cement manufacturing in the Pennsylvania*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1478706)
- Baker, R. M., and Passmore, D. L. (June 18, 2008). *Role of concrete manufacturing in the Pennsylvania*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1479781)
- Baker, R. M., and Passmore, D. L. (June 12, 2008). *The role of paperboard container manufacturing in the economy of Lancaster & York counties, Pennsylvania*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1481883)
- Baker, R. M., and Passmore, D. L. (May 15, 2008). *The role of apparel accessories & other apparel manufacturing in the economy of Lancaster County, Pennsylvania*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1478643)
- Baker, R. M., and Passmore, D. L. (May 1, 2008). *The role of gas & oil drilling, extraction, refining, & support activities in the economy of Wyoming County, Pennsylvania*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1481976)
- Baker, R. M., and Passmore, D. L. (March 27, 2008). *Role of retail trade in the economy of Mercer County, Pennsylvania*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1478021)
- Baker, R. M., and Passmore, D. L. (February 8, 2008). *Role of hospitals in the economy of Luzerne County, Pennsylvania*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1478093)
- Baker, R. M., and Passmore, D. L. (February 8, 2008). *Role of airports in the economy of Luzerne County, Pennsylvania*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1479655)
- Baker, R. M., and Passmore, D. L. (February 2, 2008). *The role of the nonferrous foundry and forging industry in the economy of Centre County, Pennsylvania*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1481917)
- Baker, R. M., Loiacono, M., and Passmore, D. L. (January 11, 2008). *Role of hospitals in the economy of Butler County, Pennsylvania*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative. (see http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1478068)
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Columns Published in *Pennsylvania Business Central*

Starting in June 2008, David Passmore and Rose Baker became contributing columnists for Pennsylvania Business Central (PBC) for which they write a monthly article about economic and workforce issues that affect a 16-county region in western and central Pennsylvania. The Economic & Workforce Briefing blog at <http://PBCBriefing.notlong.com> is an extension of their PBC column. Each column that appears in PBC is posted to this blog in its original form before any edits for length might have occurred to facilitate PBC publication. At times, data tables or charts, which were too lengthy to appear in PBC, or which support or amplify PBC columns, are posted on this blog. PBC readers and others engage in dialogue about economic and workforce issues in western and central Pennsylvania by responding to postings on this blog. At times, polls of PBC readers are posted on this blog so that columns for PBC about economic and workforce issues can be created that interest readers.

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- Interview about research on offshorability of Pennsylvania jobs. Broadcast on Radio Pennsylvania Roundtable, a 30-minute radio program featuring in-depth reporting on the top news stories of the week produced by Radio PA and distributed to radio stations around the Commonwealth. Aired between July 22–25, 2010.
- Appeared on web sites: gantdaily.com, <http://live.psu.edu/story/47509>, outside.in, ethiopianreview.com, msnbc.com, and paontheweb.com. Appeared in newspapers: The Republic (Columbus, Indiana), The Mercury (Pottstown, Pennsylvania), York Daily Record (York, Pennsylvania), The Philadelphia Inquirer (Philadelphia, Pennsylvania), Public Opinion (Chambersburg, Pennsylvania), Intelligencer (Doylestown, Pennsylvania), and The New–Times (Danbury, Connecticut). Reported on news programs: WHP Television (Harrisburg, Pennsylvania) and WFMJ TV (Youngstown, Ohio).

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- Coshocton Tribune (Coshocton, Ohio; <http://www.coshoctontribune.com/article/20090407/UPDATES01/90407013>)
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- Plonko, R. B. The Pennsylvania plastics initiative: Meeting technology, training needs of state's plastics manufacturers and entrepreneurs (Interview). *Pennsylvania Business Central*, March 28, 2008, p. 8, p. 14. (<http://PBC-Plastics-28Mar08.notlong.com>)
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- Zimblar, H. 2008: A period of great uncertainty (Interview). *Pennsylvania Business Central*, January 18, 2008, p. 6. (see <http://forecast2008.notlong.com>).
- Schreiber, M. (Interview). Boom in oil and gas drilling paying big dividends across McKean County. *Bradford Era*, December 3, 2007. (see http://www.ed.psu.edu/educ/news/media-coverage-folder/news/media-coverage-folder/BradfordEra_4Dec07.pdf)

Zimble, H. Despite “pork” criticism, I-99 seen as major economic boost ((Interview). *Pennsylvania Business Central*, August 17, 2007, p. 6. (see http://www.personal.psu.edu/dlp/pdfs/Pennsylvania_Bus_Centr_I-99_17Aug07.pdf)

Baker, R. M. and Passmore, D. L. Plan now to capture opportunities: Communities should prepare now for I-99 opportunities (Op-Ed). *Altoona Mirror*, August 5, 2007, p. A6. (see http://www.personal.psu.edu/dlp/pdfs/Baker_Passmore_altmir_5Aug07.pdf)

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Swain, J. 2007 *Symposium interview: Rose Baker and David Passmore on educational uses of social bookmarking* (Interview). June 2007. To launch an iTunes version of this interview, navigate to <http://SocialCompItunes.notlong.com>.

Gilbert, S. New report shows ripple effect of Hershey job cuts in the midstate (Interview). Broadcast on WITF-FM public radio, May 15, 2007. (See <http://tinyurl.com/2pu7hl> for summary and audio clip; see also, Ripple effect of job loss in confectionery industry examined in Penn State report on Penn State Live at <http://train.ed.psu.edu/documents/11May2007Hershey.pdf>)

Piatek, S. Freightcar exit would cost entire region (Interview). *The Tribute-Democrat*, January 24, 2007, p. A1.

Management Development Programs have multi-million dollar impact on state economy (Interview). Penn State Live at <http://train.ed.psu.edu/documents/21Nov2006MDEV.pdf>.

Non-Refereed Publications and Reports

Baker, R. M., Kelsey, T., and Passmore, D. L. (March 2015). Assessing potential regional economic & demographic impacts of base realignment and closure: A background report. University Park, Pennsylvania: Institute for Research in Training and Development.

Baker, R. M., and Passmore, D. L. (October 2013). Monetizing MOOCs. University Park, Pennsylvania: Institute for Research in Training and Development.

Assessment Committee, The Penn State Commission for Women. (February 2013). Status of women at Penn State. University Park, Pennsylvania: Penn State University, Office for Educational Equity. (see <http://equity.psu.edu/cfw/docs/cfw-status-report-2001-2011>)

Baker, R. M., Passmore, D. L., and Patterson, P. (September 2012). *Economic impact of breaker and shell egg production in Pennsylvania*. University Park, Pennsylvania: Institute for Research in Training & Development. (see <http://goo.gl/Tsg6s> and <http://goo.gl/OOjBM>)

Baker, R. M., Fuller, E., and Smith, D. (August 2012). *Factors associated with loan defaults of community college students in developmental education*. Round Rock, Texas: TG Center for Financial Aid Policy in Community Colleges.

Murray, O., Villberg, J., Clausen, R. L., and Baker, R. M. (September 2011). *Engaging one Pennsylvania student at a time: An evaluation of a five-year technology driven school reform initiative, year 5 of Classrooms for the Future evaluation*. University Park, Pennsylvania: College of Education.

Rosenfeld, S., Broun, D., Beacham, C., Bryant, J., Archer-Rosenthal, D., Baker, R., Passmore, D., Riley, D., and Liston, C. (Spring 2011). *Energy workforce trends and training requirements*. Washington, D.C.: Appalachian Regional Commission.

Rosenfeld, S., Broun, D., Beacham, C., Bryant, J., Archer-Rosenthal, D., Baker, R., Passmore, D., Riley, D., and Liston, C. (March 2011). *Green schools and sustainability in Appalachia: Case studies in rural practice*. Washington, D.C.: Appalachian Regional Commission. (see http://www.arc.gov/research/researchreportdetails.asp?REPORT_ID=91)

Baker, R. M., and Passmore, D. L. (May 2011). *Potential Pennsylvania economic impact of four natural gas severance tax/fee proposals*. University Park, Pennsylvania: Institute for Research in Training & Development. (see <http://tax-fee-impacts.notlong.com> and <http://ssrn.com/abstract=1846543>)

Baker, R. M., and Passmore, D. L. (May 2011). *Potential regional and economic impacts of Liberty Bell Motorsports Park and Campground*. University Park, Pennsylvania: Institute for Research in Training & Development. (see <http://ssrn.com/abstract=1831492>)

Baker, R. M., Dixon, D., and Passmore, D. L. (October 2010). *A review of The Pennsylvania Green Jobs Report*. University Park, Pennsylvania: Institute for Research in Training & Development.

Baker, R. M., Dixon, D., and Passmore, D. L. (September 2010). *Blair County's competitive economic advantage*. University Park, Pennsylvania: Institute for Research in Training & Development. (see <http://BlairCounty.notlong.com> and <http://ssrn.com/abstract=1677927>)

- Baker, R. M., and Passmore, D. L. (September 2010). *Benchmarks for assessing the potential impact of a natural gas severance tax on the Pennsylvania economy*. University Park, Pennsylvania: Institute for Research in Training & Development. (see <http://PA-SevTax.notlong.com>)
- Baker, R. M., Jeon, K., and Passmore, D. L. (June 2010). *Susceptibility of Pennsylvania service-producing occupations to offshoring*. University Park, Pennsylvania: Institute for Research in Training & Development. (see <http://train.ed.psu.edu/offshore>)
- Baker, R. M., and Passmore, D. L. (July 2009). *Global competitiveness of powdered metallurgy part manufacturing in north central Pennsylvania*. University Park, Pennsylvania: Penn State Workforce Education & Development Initiative. (see <http://ssrn.com/abstract=142626> and web site at <http://PSU-MetalPowder.notlong.com>)
- Baker, R. M., and Passmore, D. L. (January 2009). *Benchmark employment in representative Pennsylvania green occupations, 2005–2008*. University Park, Pennsylvania: Penn State Workforce Education & Development Initiative. (see <http://pa-greenjobs-bench.notlong.com/>)
- Baker, R. M., and Passmore, D. L. (November 2008). *Measuring the economic impact of youth in transition: Linking information from education, training, and social programs to unemployment insurance records*. University Park, Pennsylvania: Penn State Workforce Education & Development Initiative. (available at the Social Science Research Network: <http://ssrn.com/abstract=1406557>)
- Baker, R. M., and Passmore, D. L. (October 2008). *Forecasted economic impact of the operation of Cheswicke Towne Centre in East Hempfield, Pennsylvania*. University Park, Pennsylvania: Penn State Workforce Education & Development Initiative. (see http://irted.ed.psu.edu:5000/pdfs/BakerPassmore_Cheswicke_FINAL15Oct08.pdf)
- Baker, R. M., and Passmore, D. L. (October 2008). *Economic impact of industries including the Pennsylvania Association for the Blind*. University Park, Pennsylvania: Penn State Workforce Education & Development Initiative. (see <http://PSU-PABlind.notlong.com>)
- Baker, R. M., and Passmore, D. L. (June 2008). *Benchmarks for the plastics industry in Pennsylvania, the United States, and selected global markets*. University Park, Pennsylvania: Penn State Workforce Education & Development Initiative. (available at <http://irted.blogsome.com/2008/06/28/pennsylvania-plastics-manufacturing-benchmark-report-released/>)
- Baker, R. M., and Passmore, D. L. (June 2008). *Forecast of the potential impact of increased royalty income on the Pennsylvania economy, 2008–2011*. University Park, Pennsylvania: Penn State Workforce Education & Development Initiative. (available at <http://PA-Royalty-Gas.notlong.com>)
- Baker, R. M., and Passmore, D. L. (April 2008). *Effect of visitor spending in Pike County*. University Park, Pennsylvania: Penn State Workforce Education & Development Initiative. (available at <http://PikeCountyTourism.notlong.com>)
- Baker, R. M., and Passmore, D. L. (February 2008). *Powdered metals in north central Pennsylvania: A précis for analysis of the global competitive position of powdered metallurgy part manufacturing in the North Central Workforce Investment Area of Pennsylvania*. University Park, Pennsylvania: Penn State Workforce Education and Development Initiative, February 2008. (see <http://PMPrecis-Report.notlong.com>)
- Baker, R. M., and Passmore, D. L. (January 2008). *Forecast of economic, population, and employment consequences of the Closing of the Willow Grove Naval Air Station Joint Reserve Base*. University Park, Pennsylvania: Penn State University, Workforce Education and Development Initiative. (available at <http://WillowGrove-BRAC.notlong.com>)
- Baker, R. M., Loiacono, M., and Passmore, D. L. (January 2008). *Benchmarking the economic impact of construction of electric power transmission lines in selected eastern Pennsylvania counties*. University Park, Pennsylvania: Workforce Education and Development Initiative.
- Baker, R. M., Passmore, D. L., and Ward, S. (November 2007). *Performance assessment of frontline workers and managers of Femco Machine*. University Park, Pennsylvania: Penn State University, Workforce Education and Development Initiative.
- Baker, R. M., Passmore, D. L., and Ward, S. (October 2007). *Education & training opportunities in the finance and insurance sector in northeast Pennsylvania*. University Park, Pennsylvania: Penn State University, Workforce Education and Development Initiative.
- Baker, R. M., and Passmore, D. L. (September 2007). *Current and anticipated labor market for long-term care in Bucks and Montgomery counties*. University Park, Pennsylvania: Penn State University, Workforce Education and Development Initiative. (available at <http://Pennsylvania-LTCJobs.notlong.com>)
- Baker, R. M., Passmore, D. L., and Ward, S. (September 2007). *Performance assessments for direct care workers and managers*. University Park, Pennsylvania: Penn State University, Workforce Education and Development Initiative.

Baker, R. M., and Passmore, D. L. (September 2007). *Forecast of employment and job openings in Pennsylvania plastics manufacturing, 2004–2017*. University Park, Pennsylvania: Penn State University, Workforce Education and Development Initiative. (available at <http://PaPlasticsJobs.notlong.com>)

Baker, R. M., Passmore, D. L., and Donahue, W. E. (September 2006). *Client reports of the impact of customized contract training, 2002-2006*. University Park, Pennsylvania: The Pennsylvania State University, Penn State Outreach, Management Development Programs and Services.

Baker, R. M., and Passmore, D. L. (July 2005). *Industry cluster analysis and forecasting*. University Park, Pennsylvania: The Pennsylvania State University, Penn State Outreach, Management Development Programs and Services.

Baker, R. M., and Passmore, D. L. (July 2005). A précis for industry cluster analysis and forecasting: Technical summary and capabilities. University Park, Pennsylvania: The Pennsylvania State University, Penn State Outreach, Management Development Programs and Services.

Presentations

By Invitation

Baker, R. M., and Passmore, D. L. (April 2015). Forecasting financial benefits of education and training investments. Meeting of Penn State Network of Trainers, University Park, Pennsylvania. Slides available at <http://tinyurl.com/financial-forecasting>

Baker, R. M., and Passmore, D. L. (May 2014). The business of MOOCs. Presented at Centre for Online Learning, Institute of Technology Sligo, Sligo, Ireland.

Baker, R. M., and Passmore, D. L. (May 2014). Marcellus shale natural gas development in Pennsylvania. Public lecture presented at Institute of Technology Sligo, Sligo, Ireland.

Baker, R. M., and Passmore, D. L. (March 2013). *The MOOCs are coming to get you!* Invited keynote speech at the Penn State Shenango Teaching Conference: “Meeting the Challenges of the 21st Century Classroom 2013,” Sharon, Pennsylvania, (see <http://davidpassmore.wix.com/shenango>)

Baker, R. M., and Passmore, D. L. (September 27, 2012). *Economic impact of egg production*. Invited presentation at the annual meeting of the Pennsylvania Poultry Industry Research Check-Off Program, State College, Pennsylvania. (see <http://goo.gl/TSG6s> and <http://goo.gl/OOjBM>)

Baker, R. M., and Passmore, D. L. (September 20, 2012). *Dissecting economic impact*. Invited keynote presentation at “Constant Streams of Data....The 2012 Pennsylvania Data User Conference,” the Annual Data User Conference sponsored by the Pennsylvania State Data Center, Grantville, Pennsylvania. (see <http://pasdc2012.tumblr.com>)

Baker, R. M., and Passmore, D. L. (August 16, 2012). *Cracking the ethane cracker*. Invited presentation at the Annual WIB Symposium, “Innovation through Integration: Re-Inventing the Workforce System,” sponsored by the Pennsylvania Association of Workforce Investment Boards, State College, Pennsylvania. (see <http://pawib2012.tumblr.com>)

Baker, R. M., and Passmore, D. L. (August 31, 2011). *Dissecting economic impact*. Invited keynote presentation at “Constant streams of data....The 2012 Pennsylvania data user conference,” the Annual Data User Conference sponsored by the Pennsylvania State Data Center, Grantville, Pennsylvania. (see <http://pasdc2012.tumblr.com>)

Baker, R. M., and Passmore, D. L. (August 16, 2012). *Cracking the ethane cracker*. Invited presentation at the Annual WIB Symposium, “Innovation through Integration: Re-Inventing the Workforce System,” sponsored by the Pennsylvania Association of Workforce Investment Boards, State College, Pennsylvania. (see <http://pawib2012.tumblr.com>)

Baker, R. M., Fuller, E., and Smith, D. (June 26, 2012). *Factors associated with loan defaults of community college students in developmental education*. Invited presentation at the 2012 TG Student Success Symposium for Community Colleges sponsored by TG Center for Financial Aid Policy in Community Colleges, Round Rock, Texas.

Baker, R. M., and Passmore, D. L. (November 16, 2011). 2011 *Blair County economic outlook*. Invited presentation to the Blair County Chamber Breakfast Club, a joint initiative of the Altoona-Blair County Development Corporation, the Allegheny Mountains Convention & Visitors Bureau, and the Blair County Chamber of Commerce and sponsored by Sparks Business Institute, Altoona, Pennsylvania.

Baker, R. M. (September 22, 2011). *Expert Testimony to the Marcellus Shale Citizen’s Commission*. Invited presentation to the Marcellus Shale Citizen’s Commission, Williamsport, Pennsylvania.

- Baker, R. M., and Passmore, D. L. (August 31, 2011). *Taxes on Marcellus Shale natural gas production?* Invited presentation at Town Hall Meeting organized by Mike Folmer, Senator for Pennsylvania's 48th District, Lebanon, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (May 18, 2011). *Evaluating fiscal impacts: The example of an oil and gas severance tax.* Paper presented at Regional Economic Models Seminar, "Revitalizing the U.S. Economy: Policies for Regional Growth and Development" Harrisburg, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (April 28, 2011). *Impact of natural gas severance tax in Pennsylvania.* Paper presented at REMI Spring Training Conference, "Developing Economic Policy under Tight Fiscal Conditions" sponsored by Regional Economic Modeling, Inc, Amherst, Massachusetts.
- Baker, R. M. (December 4, 2010). *Where the Jobs Are and How to Find Them.* Symposium for Women in Science, State College, Pennsylvania. (see <http://www.slideshare.net/rmb194/where-the-jobs-are-and-how-to-get-them>)
- Baker, R. M., and Passmore, D. L. (November 30, 2010). REMI webinar: *Impact of a natural gas severance tax in Pennsylvania.* An invited webinar sponsored by Regional Economic Models, Inc., Amherst, Massachusetts. (see webinar recording at <https://remi.webex.com/remi/ldr.php?AT=pb&SP=MC&rID=16142262&rKey=2a27c6492e3d7de5>)
- Baker, R. M., and Passmore, D. L. (November 4, 2010). *Economic development tools for planners.* Invited presentation at the County Planning Directors Association of Pennsylvania Training Workshop, State College, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (September 20, 2010). *Industries with competitive advantage in Blair County.* Invited presentation at the 2010 Economic Summit sponsored by the Altoona Blair Development Corporation, Altoona, Pennsylvania. (see <http://BlairCounty.notlong.com>)
- Baker, R. M., and Passmore, D. L. (June 29, 2009). *Competition affecting powdered metallurgy part manufacturing.* Invited presentation at PowderMet2009—The Metal Powder Industry Federation and Advanced Particulate Materials Institute International Conference on Powder Metallurgy & Particulate Materials, Las Vegas, Nevada. (see <http://PSU-MetalPowder.notlong.com>)
- Baker, R. M., and Passmore, D. L. (June 5, 2009). *Sex life of the economy: Where do jobs come from?* Invited presentation at Penn State's 59th Alumni Institute, University Park, Pennsylvania.
- Baker, R. M. (June 3, 2009). *Developing a green workforce.* Invited presentation at Penn State Community and Economic Development Summer Institute, University Park, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (May 7, 2009). *Jobs related to solar energy: Benchmarks and prospects.* Paper presented at Solar Energy: Awareness, Challenges, and Opportunities, University Park, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (April 22, 2009). *The future of business and industry in central Pennsylvania.* Invited presentation at Employer Luncheon for Penn State Continuing Education Career Fair, University Park, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (November 4, 2008). *Elimination of electricity rate caps in Pennsylvania, 2011-2015.* Paper presented at Regional Economic Models Seminar, "Modeling the Current Economic Crisis," Harrisburg, Pennsylvania. (see <http://PSU-RateCap-REMI.notlong.com>)
- Baker, R. M., and Passmore, D. L. (May 13, 2008). *Working close apart: Web 2.0 tools for collaboration.* Invited presentation at the Annual Career Services Conference, University Park, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (May 2, 2008). *The future of plastics manufacturing employment in Pennsylvania.* Invited presentation to the Northeastern Pennsylvania Plastics Cluster Workforce Development Team, Hazleton, Pennsylvania. (see <http://live.psu.edu/story/30291>)
- Baker, R. M., and Passmore, D. L. (April 18, 2008). *Data-driven decisions for workforce investment.* Invited presentation to the Tri-County Workforce Investment Board, Kittanning, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (April 9, 2008). *Forecasts of macroeconomic impacts of elimination of electricity rate caps in Pennsylvania by 2011.* Invited presentation at Regional Economic Models Seminar, "Regions as the Building Blocks of the Global Economy," Harrisburg, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (April 3, 2008). *Design of a study of the global competitiveness in powdered metallurgy part manufacturing in north central Pennsylvania.* Invited presentation to the North Central Powdered Metals Industry Consortium, Ridgway, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (March 27, 2008). *Information about local economies in Pennsylvania.* Invited presentation to the Mercer County Township Officials School, Mercer, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (April 9, 2008). *Simulation of the economic, demographic, and workforce effects of elimination of electricity rate caps in the Pennsylvania economy in 2010.* Invited presentation at the REMI Seminar on Economic Modeling and Policy Analysis, Harrisburg, Pennsylvania.

- Baker, R. M., and Passmore, D. L. (March 13, 2008). *Sustainability: A forecast of employment and job openings in plastics manufacturing in Pennsylvania*. Invited presentation at the 2008 Pennsylvania Plastics SourceNet Symposium, "Alliances for a Sustainable Future," University Park, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (February 29, 2008). *Your electrifying utility bill: A forecast of Pennsylvania economic and workforce changes resulting from removal of electricity rate caps*. Symposium presented to the Society for Workforce Education & Development, University Park, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (February 22, 2008). *Workforce analysis standards for the high performance Workforce Investment Board*. Presentation to the Tri-County Workforce Investment Board, Kittanning, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (February 19, 2008). *Structure and competitiveness of powdered metallurgy part manufacturing*. Invited presentation to the North Central Powdered Metals Industry Consortium, Ridgway, Pennsylvania.
- Baker, R. M. (November 23, 2007). *Clearfield County and human performance improvement*. Presented to the Clearfield Vision 20-20 team. Clearfield, Pennsylvania.
- Baker, R. M. (November 9, 2007). *Performance assessment outcomes and recommendations for the DuBois and Jefferson County Consortium*. Presented to the DuBois and Jefferson County Consortium and guests. DuBois, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (September 2007). *Analysis of regional economic and workforce development opportunities*. Presented to the Northeast Region Outreach Council, Wilkes Barre, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (June 2007). *Workforce data: Its meaning and use*. Invited presentation to the Tri-County Workforce Investment Board, Kittanning, Pennsylvania.
- Baker, R. M., Jamrog, J., and Passmore, D. L. (November 2006). *Information futures markets for human resource planning and management*. Invited presentation at the 2006 CEO's Conference on Human Resources Metrics and Analytics, "Measuring Your Talent and Organization: Beyond the Basics," sponsored by the Marshall School of Business, University of Southern California, Los Angeles, California.
- Baker, R. M., and Passmore, D. L. (November 2006). *Applications of stock markets for information in instruction*. Invited presentation at the Innovators Speakers Series sponsored by Educational Technology Services, Teaching and Learning with Technology, Penn State University, University Park, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (October 2006). *Financial forecasting of benefits of training and development*. Invited presentation to the Voluntary Hospital Association of Pennsylvania, State College, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (September 2006). *Information markets: Exciting new possibilities for organization strategy through future forecasting*. Invited presentation to the Rocky Mountain Human Resource Planning Society, Denver, Colorado. (see <http://rmhrps.notlong.com> and <http://www.personal.psu.edu/dlp/rmhrps/>)
- Baker, R. M., and Passmore, D. L. (June 2006). *Forecasting return on investment for continuing education services and programs*. Invited presentation at the Continuing Education Professional Development Conference, University Park, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (June 2006). *Research and analysis of local economies*. Invited presentation at Moving a Demand-Driven Innovation System Forward through Industry Partnerships: A Symposium for Planners in Workforce Development, Education, and Economic Development, University Park, Pennsylvania. (see <http://www.personal.psu.edu/dlp/wib2006/>)
- Baker, R. M., and Passmore, D. L. (June 2006). *Potential uses of economic markets for aggregating and diffusing information about patient-focused care*. Invited presentation at the Patient-Focused Care Symposium sponsored by the AMD3 Research and Education Foundation and the University of Pittsburgh Medical Center at Magee Women's Hospital, Pittsburgh, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (May 2006). *Nuts and bolts of your regional economy*. Invited presentation to the Pennsylvania Capital Region Outreach Council, Middletown, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (April 2006). *The power of information markets*. Invited presentation at the "Thought Leaders Breakfast" at the 2006 Global Conference of the Human Resource Planning Society, Tucson, Arizona.
- Baker, R. M. (April 2006). *Web logs and other technology tools for educators*. Invited presentation at the Huntingdon County Teachers' In-service Day, Huntingdon, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (April 2006). *A tool for identifying training needs*. Invited workshop presented at the WEDnet Pennsylvania Training and Development Conference, Williamsport, Pennsylvania.

- Baker, R. M., and Passmore, D. L. (February 2006). *A market for HR ideas: An invitation to put your assets where your thoughts are*. Invited paper presented at the 34th Annual Human Resource Institute Issue Management Conference, St. Pete Beach, Florida. (see <http://www.personal.psu.edu/dlp/hrinstfl/>)
- Baker, R. M., and Passmore, D. L. (January 2006). *Data analysis in workforce education and development: An example in design of blended learning*. Invited presentation at Exploring Blended Learning Symposium, University Park, Pennsylvania. (see <http://bli.psu.edu/bli/winterfest.html#passmore>)
- Baker, R. M., and Passmore, D. L. (November 2005). *Self-organizing learning opportunities*. Invited presentation at Faculty Development Seminar for Penn State Online, University Park, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (November 2005). *Employment in Pennsylvania health care and service occupations conditional on two national health care spending scenarios: A structural economic simulation*. Invited presentation at the REMI Seminar on Economic Modeling and Policy Analysis, Harrisburg, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (October 2005). *Playing the market in human resource futures*. Paper presented at HR Futures Symposium sponsored by Nike and HRInstitute at Nike World Headquarters, Beaverton, Oregon. (see <http://www.personal.psu.edu/dlp/hrfutures>).
- Baker, R. M. (April 2005). *When will we use this: Business applications of concepts in education*. Invited presentation at the Huntingdon County School Districts' In-Service Day, Alexandria, Pennsylvania.
- Baker, R. M. (March 2005). *Nine steps to making an ethical decisions*. Invited presentation at Juniata College, Huntingdon, Pennsylvania.
- Baker, R. M. (April 2004). *Using web-based space information in science and math*. Invited presentation at the Huntingdon County Teachers' In-Service Day, Huntingdon, Pennsylvania.
- Baker, R. M. (February 2004). *Using style guides to increase customer service*. Invited presentation at the Penn State TLC Outreach Conference, University Park, Pennsylvania.
- Baker, R. M. (April 2003). *Using technology in science and applied math*. Invited presentation at the Huntingdon County Teachers' In-Service Day, Three Springs, Pennsylvania.
- Baker, R. M. (April 2002). *Using graphing calculators in the classroom*. Invited presentation at the Huntingdon County Teachers' In-Service Day, Huntingdon, Pennsylvania.
- Baker, R. M. (April 2001). *Using boolean operators to effectively and efficiently search the Internet*. Invited presentation at the Huntingdon County Teachers' In-Service Day, Alexandria, Pennsylvania.
- Baker, R. M. (April 2000). *The Factory Floor Assistant: An EPSS Performance Solution*. Invited presentations at General Motors University to the Web-Based Instruction Design Team and to the General Motors University Leadership Team, Warren, Michigan.
- Baker, R. M. (April 1999). *Performance assessment and virtual tour of Interforest, Inc.*. Invited presentation at the Huntingdon County Teachers' In-Service Day, Three Springs, Pennsylvania.

At International and National Meetings

- McLaughlin, J. S., Coyle, M., & Baker, R. M. (December 2014). Inquiry-based Research Strategies, Student Independence and Time Help Transform an Undergraduate Biology Laboratory Experience into a Research Environment. Presented in the Symposium, Envisioning Educational Change in the Digital Age, at the 2014 American Society for Cell Biology (ASCB)/International Federation for Cell Biology (IFCB) Meeting, December 2014, Philadelphia, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (May 2014). Economic and financial features of MOOCs. Presented at Eurovision 2020: Technology Enhanced Learning for a New Horizon, the 2014 Meeting of the Irish Learning and Technology Association, Dublin, Ireland. Video available at <https://media.heanet.ie/page/db9559d9e5da44a6aba479f9775134a6>
- Baker, R., Coyle, M., and McLaughlin, J. (November 2013). *Transforming an undergraduate biology laboratory experience into a research environment*. 2013 NABT Professional Development Summit: Atlanta, Georgia.
- Baker, R., and McLaughlin, J. (January 2013). *Global environmental science education in the 21st Century: Addressing the challenges and opportunities that face China through online innovation*. 2013 EDUCAUSE Conference: Baltimore, Maryland.
- Kumar, S. A., Baker, R., Coyle, M., and McLaughlin, J. (November 2012). *Using inquiry-based activities to transform undergraduate science education: A model lab for understanding cell growth and viability*. National Association of Biology Teachers Conference: Dallas, Texas.
- Baker, R. M., and Passmore, D. L. (October 2012). *Graph-theoretic links between production, demand, and employment in Pennsylvania*. Presentation at the 27th Annual REMI Users' Conference, Washington, DC.

- Baker, R. M., Mulligan, B., Passmore, D. L., and Peck, K. (September 2012). *Open learning badges and higher education: Threats and opportunities*. Presentation at ALT-C, the 19th international conference of the Association for Learning Technology, Manchester, United Kingdom.
- Baker, R. M., and Passmore, D. L. (October 2011). *A graph theoretic approach to describing regional economic structure*. Presentation at the 26th Annual REMI Users' Conference, Lake Tahoe, Nevada.
- Baker, R. M., and Passmore, D. L. (October 2010). *Impact of a natural gas severance tax in Pennsylvania*. Presentation at the 25th Annual REMI Users' Conference, Austin, Texas. (see <http://PA-SevTax.notlong.com>)
- Baker, R. M., and Murray, O. (June 2011). *Teacher change: Survey results of a five-year school reform effort*. Presentation at the 32nd International Society for Technology in Education Conference, Philadelphia, Pennsylvania.
- Baker, R. M. (May 2010). *Examples of scaffolding and chunking in online and blended learning environments*. Presentation at the 10th Annual Irish Learning Technology Association Conference, EdTech 2010, Athlone, Ireland.
- Baker, R. M., and Passmore, D. L. (May 2010). *Prezi: A non-linear, rich media alternative to PowerPoint*. Paper presented at EdTech 2010 sponsored by the Irish Learning and Technology Association, Athlone, Ireland. (see <http://EdTech2010-Prezi.notlong.com>)
- Baker, R. M., and Passmore, D. L. (June 2009). *Economic and demographic consequences of eliminating price caps on electrical rates in Pennsylvania*. WebEx online seminar presented by Regional Economic Models, Inc., Amherst, Massachusetts.
- Baker, R. M., Loiacono, M., and Passmore, D. L. (October 2008). *Elimination of electricity rate caps in Pennsylvania, 2011-2015*. Presentation at 2008 Annual Regional Economic Modeling Users Conference, "PI+: The Next Generation of Policy Insight," Santa Fe, New Mexico.
- Baker, R. M., Passmore, D. L., and Yoo, J. W. (October 2008). *Benchmarking forecasted impacts against time-series variations in regional employment*. Presentation at 2008 Annual Regional Economic Modeling Users Conference, "PI+: The Next Generation of Policy Insight," Santa Fe, New Mexico.
- Baker, R. M., and Passmore, D. L. (October 2007). *Tossing the cap: Electrical rate changes in Pennsylvania starting in 2010*. Presentation at 2007 Annual Regional Economic Modeling Users Conference, "Regional Economies: the Building Block of the Global Community," La Jolla, California.
- Baker, R. M., and Passmore, D. L. (February 2005). *Self-organizing social learning through the monastery gates*. Paper presented at the 4th International Association of Science and Technology for Development International Conference on Web-Based Education, Grindelwald, Switzerland.
- Baker, R. M. (November 2003). *Integrating instructional design and project management*. Paper presented at the Association for Educational Communications and Technology (AECT) Conference, Anaheim, California.
- Baker, R. M., and Dwyer, F. M. (October 2002). *Relative effectiveness of individual differences in reducing achievement differences between FI/FD learners: A meta-analytic assessment*. Paper presented at the Association for Educational Communications and Technology (AECT) Conference, Dallas, Texas.
- Baker, R. M. (November 2000). *Using EPSS to support decisions for performance choices*. Paper presented at the Association for Educational Communications and Technology (AECT) Conference, Denver, Colorado.
- Baker, R. M., and Dwyer, F. M. (October 2000). *A systemic meta-analytic assessment of the instructional effects of varied visuals on different types of educational objectives*. Paper presented at the International Visual Literacy Conference, Iowa.
- Baker, R. M., and Dwyer, F. M. (April 2000). *The effects of varied types of instructional illustrations in facilitating student achievement of different educational objectives: A meta-analytic assessment*. Paper presented at the American Educational Research Association (AERA), New Orleans, Louisiana as the Pennsylvania Educational Research Association Distinguished Research Paper.
- Baker, R. M., and Dwyer, F. M. (February 2000). *A meta analysis assessment of the effect of visualized instruction*. Paper presented at the Association for Educational Communications and Technology (AECT) Conference, Long Beach, California.

At Regional Meetings

- Goedhart, C. M., Coyle, M., Baker, R. M., & McLaughlin, J. S., (November 2014). *Bringing an inquiry research experience to general biology laboratory course: A partnership between a 4-year university and 2-year college*. Presented at the 2014 National Association of Biology Teachers Professional Development Conference, Cleveland, Ohio.

- McLaughlin, J. S., Coyle, M., & Baker, R. M. (October 16, 2014). *Transforming and undergraduate laboratory experience into a research environment*. Presented at the 2014 Northeast Region Association for Science Teacher Education (NE-ASTE), October 2014, New York, New York.
- Baker, R. M., and Passmore, D. L. (October 15, 2014). *Birds do it, bee do it: The birth of jobs and income*. Presentation at the 2014 Pennsylvania Workforce Investment Board Symposium, University Park, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (October 8, 2014). *Sex life of the economy: Where jobs and income come from*. Workshop presented at the Osher Lifelong Learning Institute at Penn State, University Park, Pennsylvania.
- Baker, R. M., Chae, C., Donahue, W., Fu, I., and Passmore, D. L. (March 22, 2014). *Hybrid course design*. Presented at 2014 Symposium for Teaching and Learning with Technology, University Park, Pennsylvania.
- Baker, R. M., Passmore, D. L., and Fu, I. (October 24, 2013). *Monetizing MOOCs*. Paper presentation at the 44th Annual Meeting of the Northeastern Educational Research Association, Rocky Hill, Connecticut.
- Baker, R. M., and McLaughlin, J. S. (September 28, 2013). *Using environmental education in China as a learning laboratory*. Presentation at the Penn State 2013 Conference: "Internationalizing the Curriculum," University Park, Pennsylvania.
- Coyle, M., Baker, R. M., and McLaughlin, J. S. (March 16, 2013). *Implementation of Vision and Change to transform undergraduate Science education in the Biology laboratory*. Presentation at the Penn State Shenango Teaching Conference: "Meeting the Challenges of the 21st Century Classroom 2013," Sharon, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (March 15, 2012). *Workforce development and Marcellus Shale: Emerging needs*. Presentation at conference, "Understanding & Preparing for Marcellus Shale Impacts in Your District," sponsored by the Pennsylvania School Study Council, University Park, Pennsylvania. (see <http://Marcellus-EdImpact.notlong.com>)
- Baker, R. M., and Passmore, D. L. (August 18, 2011). *Marcellus Shale: Jobs and the Pennsylvania economy*. Presentation at 2011 Pennsylvania Workforce Investment Board Symposium, University Park, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (June 30, 2010). *Marcellus Shale gas drilling*. Presentation at *Business Before Hours* breakfast meeting sponsored by the Chamber of Business & Industry of Centre County, State College, Pennsylvania.
- Baker, R. M., Jeon, K. S., and Passmore, D. L. (June 17, 2010). *Offshoring Pennsylvania jobs: What Are the risks?* Presentation at 2010 Pennsylvania Workforce Investment Board Symposium, University Park, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (June 9, 2009). *What makes a job green?* Presentation at 2009 Pennsylvania Workforce Investment Board Symposium, University Park, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (June 25, 2008). *Cutting edge economic techniques for assessing regional innovations*. Presentation at 2008 PA WIB Symposium—Building an Innovation System for Pennsylvania: Industry Clusters as a Driver for Planning in Workforce Development, Education, and Economic Development, University Park, Pennsylvania.
- Baker, R. M., Blasdell, J., Conway, D., and Passmore, D. L. (May 6, 2008). *Using data for decision-making*. Continuing Education Professional Development Conference, University Park, Pennsylvania.
- Baker, R. M., Chambers, J., Passmore, D. L., and Wulfhorst, P. (May 2008). *Bio- and alternative energy: Community considerations*. Presentation to the 86th Annual Conference of the Pennsylvania State Association of Township Supervisors, Hershey, Pennsylvania.
- Baker, R. M., Figurelle, W., Franklin, T., Lawrence, M., Masisak, D., and Passmore, D. L. (March 2008). *Increasing global competitiveness in powdered metallurgy part manufacturing in north central Pennsylvania*. Presentation to Economic Development Administration, Philadelphia, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (November 2007). *Working close apart: Web 2.0 tools for collaboration and cooperation*. Presented at Living the Vision of a Student-Centered University Conference, University Park, Pennsylvania.
- Baker, R. M., Lawrence, M., Loiacono, M., and Passmore, D. L. (November 2007). *Job, income, and tax effects of agri-energy activity in Pennsylvania communities*. Presented at the 2007 Penn State Agri-Energy Extension In-Service, University Park, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (August 2007). *Performance and competitiveness of the Pennsylvania economy*. Presented at Regional Economic Modeling Seminar, Harrisburg, Pennsylvania. (see <http://REMI2007.notlong.com>)
- Baker, R. M., and Passmore, D. L. (July 2007). *Penn State's role in economic, workforce, and community development*. Presented to the National Surface Warfare Center, University Park, Pennsylvania.

- Baker, R. M., and Passmore, D. L. (July 2007). *Labor market for long-term care in Bucks and Montgomery counties*. Presented to Bucks County Long Term Care Consortium, Levittown, Pennsylvania. (see <http://train.ed.psu.edu/LTC/>)
- Baker, R. M., and Passmore, D. L. (June 2007). *Creating a snapshot of your local economy and workforce*. Paper presented at the Annual Meeting of the Pennsylvania Association of Workforce Investment Boards, University Park, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (June 2007). *Methods for analyzing regional workforces*. Paper presented at the Annual Meeting of the Pennsylvania Association of Workforce Investment Boards, University Park, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (May 2007). *Capabilities and opportunities in economic and workforce development*. Paper presented at Delta Development Corporation seminar, Mechanicsburg, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (April 2007). *mmm, del.icio.us: Social bookmarking in instruction and research*. Presented at the Penn State Symposium for Teaching and Learning with Technology: A Symposium of Faculty Excellence, University Park, Pennsylvania. (see related interview on iTunes by navigating to <http://SocialComplTunes.notlong.com>)
- Baker, R. M., and Passmore, D. L. (August 2006). *Nuts and bolts of your regional economy*. Presented to Duquesne Power and Light Company, Monaca, Pennsylvania. (Also presented at Penn State University, University Park, Pennsylvania, October 2005)
- Baker, R. M., and Passmore, D. L. (April 2006). *Wikis in instruction*. Presented at the Penn State Symposium for Teaching and Learning with Technology: A Symposium of Faculty Excellence, University Park, Pennsylvania. (see podcast at <http://tinyurl.com/jqfgx>, streaming video at <http://symposium.tlt.psu.edu/?p=98>, and social commentary about this presentation at <http://symposium.tlt.psu.edu/index.php?s=passmore>)
- Baker, R. M., and Passmore, D. L. (January 2006). *Data analysis in workforce education and development: An example in design of blended learning*. Presentation at Exploring Blended Learning Symposium, University Park, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (November 2005). *New labor market information for planning school-to-career programs*. Paper presented at the 14th Annual Conference on Integrated Learning: The School-To-Career Connection, University Park, Pennsylvania.
- Baker, R. M., and Passmore, D. L. (November 2005). *Employment in Pennsylvania health care and service occupations conditional on two national health care spending scenarios: A structural economic simulation*. Invited presentation at the REMI Seminar on Economic Modeling and Policy Analysis, Camp Hill, Pennsylvania.
- Baker, R. M., Jin, S., Kim, Y., Lu, H., and Passmore, D. L. (October 2005). *Use of labor force dynamics for planning and evaluating school-to-work programs*. Paper presented at the Annual Meeting of the Northeastern Educational Research Association, Kerhonkson, New York.
- Baker, R. M., and Passmore, D. L. (June 2005). *Using new information about the dynamics of labor markets for planning local workforce development*. Paper presented at Building a Demand-Driven Innovation System in Pennsylvania: A Symposium for Planners in Workforce Development, Education, and Economic Development sponsored by the Pennsylvania Association of Workforce Investment Boards, State College, Pennsylvania. (see: <http://www.personal.psu.edu/dlp/LED/>)
- Baker, R. M., and Passmore, D. L. (May, 2005). *Integrating media into ANGEL: Use of podcasts*. Presentation at ANGEL III Day: A symposium of faculty excellence, University Park, Pennsylvania. (see: <http://www.personal.psu.edu/dlp/podcast/>)
- Baker, R. M. (October 2003). *Integrating instructional design and project management*. Paper presented at the Pennsylvania Association for Educational Communications and Technology (PAECT) Conference, Hershey, Pennsylvania.
- Baker, R. M., and Dwyer, F. M. (November 2002). *Effect of instructional strategies and individual differences: A meta-analytic assessment*. Paper presented at the Northeastern Educational Research Association Conference, Kerhonkson, New York.
- Baker, R. M., and Dwyer, F. M. (March 2002). *Relative effectiveness of individual differences and varied instructional strategies: A meta-analytic assessment*. Paper presented at the Eastern Educational Research Association Conference, Sarasota, Florida.
- Baker, R. M., and Dwyer, F. M. (October 2001). *The effect of learning style on student achievement*. Paper presented at the Northeastern Educational Research Association Conference, Hudson Valley, New York.
- Baker, R. M. (October 2000). *Using EPSS to support decisions for performance choices*. Paper presented at the Pennsylvania Association for Educational Communications and Technology (PAECT) Conference, Hershey, Pennsylvania.

Baker, R. M. (November 1999). *Using technology to improve the skill/knowledge level of non-academic students*. Paper presented at the Pennsylvania Association for Educational Communications and Technology (PAECT) Conference, Hershey, Pennsylvania.

Baker, R. M. (November 1999). *County school districts unite for collaborative in-service*. Paper presented at the Pennsylvania Association for Educational Communications and Technology (PAECT) Conference, Hershey, Pennsylvania.

Baker, R. M. (November 1999). *Strategic planning in distance education*. Paper presented at the Pennsylvania Association for Educational Communications and Technology (PAECT) Conference, Hershey, Pennsylvania.

Baker, R. M., and Dwyer, F. M. (November 1999). *The effects of varied types of instructional illustrations in facilitating student achievement of different educational objectives: A meta-analytic assessment*. Paper presented at the Pennsylvania Educational Research Association (PERA), Hershey, Pennsylvania. Chosen as the Pennsylvania Educational Research Association Distinguished Research Paper.

Baker, R. M., and Dwyer, F. M. (October 1999). *A meta-analytic assessment of the effects of visualized instruction*. Paper presented at the Northeastern Educational Research Association (NERA), Ellenville, New York.

Funded Projects

2014

External Evaluator with P.K. Murphy, Principal Investigator. *Integrating Quality Talk Professional Development to Enhance Professional Vision and Leadership for STEM Teachers in High-Need Schools*. Research contract with the National Science Foundation, \$1,122,960.

External Evaluator, *Juniata Valley Consortium Rural Health Network Development Planning Program*, Health Resources and Services Administration planning program award to Skills of Central Pennsylvania and Juniata Valley Consortium, \$83,418.

Project Director. 2015 *Pennsylvania Youth Survey Design, Implementation, Analysis, and Reporting*. Research contract with Pennsylvania Commission on Crime and Delinquency. \$678,999.

Researcher with J. Frank, Principal Investigator. Phase III of *Mapping Effective Planning Board Service Delivery*. Research contract with Pennsylvania Commission on Crime and Delinquency. \$172,804.

2013

Project Director. 2013 *Pennsylvania Youth Survey Implementation, Analysis, and Reporting*. Research contract with Pennsylvania Commission on Crime and Delinquency. \$614,488.

2012

External Evaluator. 2012 *NABT Faculty Professional Development Summit Focuses On Vision and Change*. National Science Foundation professional development award with National Association of Biology Teachers, \$17,700.

External Evaluator. *STEPping Up: An Interdisciplinary Mentoring Network to Recruit and Retain STEM Majors*. National Science Foundation Science, Technology, Engineering, and Mathematics Talent Expansion Program (STEP) award to St. Francis University, Loretto, Pennsylvania, \$298,496.

Project Co-Director with E. Fuller. *Factors associated with loan defaults of community college students in developmental education*. Research contract between the Texas Guaranteed Student Loan Corporation and the Penn State College of Education, \$10,000.

Project Manager with D. Mackenzie. *Pennsylvania Youth Survey Design*. Research contract with Pennsylvania Commission on Crime and Delinquency and Penn State College of the Liberal Arts, \$47,968.89.

2011

Project Co-Director with R. L. Clausen. *Pennsylvania Title IID Program Evaluation*. Research contract between the Pennsylvania Department of Education and the Penn State College of Education, \$67,500.

Project Co-Director with R. L. Clausen. *Year 5 of Classrooms for the Future Evaluation*. Research contract between the Pennsylvania Department of Education and the Penn State College of Education, \$71,000.

Project Co-Director with D. L. Passmore. *National and regional economic impact of general aviation in the United States*. Research contract between the Aircraft Owners and Pilots Association and the Institute for Research in Training and Development, Penn State College of Education, \$133,000.

Project Co-Director with D. L. Passmore. *Social networks supporting business development of Centre County*. Research contract between the Centre County Industrial Development Corporation and the Institute for Research in Training and Development, Penn State College of Education, \$20,000.

Project Co-Director with D. L. Passmore. *Economic impact of Liberty Bell Motorsports Park and Campground*. Memorandum of Agreement between Liberty Bell Motorsports Park and Campground and the Center for Regional Economic and Workforce Analysis, Office of Public Partnerships and Engagement, Penn State Outreach, \$10,000.

Project Co-Director with D. L. Passmore. *Economic impact of table egg production in Pennsylvania*. Memorandum of Agreement between the College of Agricultural Sciences, Poultry Science Department and the Center for Regional Economic and Workforce Analysis, Office of Public Partnerships and Engagement, Penn State Outreach, \$8,000.

2010

Project Co-Director with D. L. Passmore. *Blair County's competitive economic advantage*. Memorandum of Agreement between the Altoona Blair County Development Corporation and the Center for Regional Economic and Workforce Analysis, Office of Public Partnerships and Engagement, Penn State Outreach, \$1,000.

Project Co-Director with D. L. Passmore. *Labor market analysis in support of litigation defense*. Memorandum of Agreement between Campbell Durrant Beatty Palombo & Miller PC and the Center for Regional Economic and Workforce Analysis, Office of Public Partnerships and Engagement, Penn State Outreach, \$1,500.

Project Co-Director with D. L. Passmore. *Cumberland county demographics, county projections by age, and market segmentation of residents and their families*. Memorandum of Agreement between the Claremont Nursing Home and Rehabilitation Center and the Center for Regional Economic and Workforce Analysis, Office of Public Partnerships and Engagement, Penn State Outreach, \$5,000.

Project Associate. *The GridSTAR Center (Smart Grid Training Application Resource Center)*. Contract between U.S. Department of Energy and the Penn State Center for Sustainability, \$5,000,000, Workforce Education and Development Initiative, \$110,000.

2009

Project Director. *Energy workforce trends and training requirements*. Memorandum of Agreement between Regional Technology Services, Inc. and the Office of Economic and Workforce Development within the contract (\$150,000) with the Appalachian Regional Commission, \$31,000.

Project Co-Director with D. L. Passmore. *Research and assessment of the transition path for health sciences careers*. Memorandum of Agreement between the Life Science Career Alliance and the Center for Regional Economic and Workforce Analysis, Office of Economic and Workforce Development, Penn State Outreach, \$22,000.

Project Co-Director with D. L. Passmore. *Analysis of the powdered metallurgy part manufacturing industry in northcentral Pennsylvania*. Memorandum of Agreement between North Central Pennsylvania Regional Planning and Development Commission and Center for Regional Economic and Workforce Analysis, Office of Economic and Workforce Development, Penn State Outreach, \$100,000.

Project Co-Director with D. L. Passmore. *Development of the Center for Labor Market Research and Recruitment*. Memorandum of Agreement between Worldclass Industrial Networks and the Center for Regional Economic and Workforce Analysis within contracts with Hillman Foundation, Benedum Foundation, and Mellon of New York Foundation, \$350,000.

2008

Project Co-Director with D. L. Passmore. *Estimation of economic impact of Cheswicke Town Centre in East Hempfield, Pennsylvania*. Memorandum of Agreement between Clark Resources and the Center for Regional Economic and Workforce Analysis, Office of Economic and Workforce Development, Penn State Outreach, \$9,000.

Project Co-Director with D. L. Passmore. *Analysis of the Impact of the Construction of a Natural Gas Pipeline in Southern Pennsylvania by Dominion Transmission, Inc.* Memorandum of Agreement between Dominion Gas and the Center for Regional Economic and Workforce Analysis, Office of Economic and Workforce Development, Penn State Outreach, \$5,000.

Project Co-Director with D. L. Passmore. *Estimation of economic impact of the Pennsylvania Association for the Blind*. Memorandum of Agreement between Pennsylvania Association for the Blind and the Center for Regional Economic and Workforce Analysis, Office of Economic and Workforce Development, Penn State Outreach, \$3,000.

Project Co-Director with D. L. Passmore. *Calculations of regional economic impact of construction of electricity line transmission in eastern Pennsylvania*. Memorandum of Agreement between PPL Corporation and Workforce Assessment Center, Office of Economic and Workforce Development, Penn State Outreach, \$3,000.

Project Co-Director with D. L. Passmore. *Economic, demographic, and workforce analysis and professional development for western Pennsylvania Workforce Investment Boards*. Memorandum of Agreement between Penn State Electro-Optics Center and Workforce Assessment Center, Office of Economic and Workforce Development, Penn State Outreach, \$50,000.

Project Co-Director with D. L. Passmore. *Measuring the economic impact of Pennsylvania youth in transition: An analysis of geocoded longitudinal data about the correlates of secondary school completion in central Pennsylvania*. Memorandum of Agreement between the Central Pennsylvania Workforce Development Corporation and Workforce Assessment Center, Office of Economic and Workforce Development, Penn State Outreach, \$10,000.

Project Co-Director with D. L. Passmore. *Measuring the economic impact of Pennsylvania youth in transition: Development of a protocol for merging information from education, training, and social programs in central Pennsylvania with QCEW and wage record reports from the UI program*. Memorandum of Agreement between the Central Pennsylvania Workforce Development Corporation and Workforce Assessment Center, Office of Economic and Workforce Development, Penn State Outreach, \$10,000.

Project Co-Director with D. L. Passmore. *Regional economic and workforce information about the energy sector in southwestern Pennsylvania and West Virginia*. Memorandum of Agreement between World Class Industrial Networks and Workforce Assessment Center, Office of Economic and Workforce Development, Penn State Outreach, \$9,000.

2007

Project Co-Director with D. L. Passmore. *Analysis of electrical rate cap data for Pennsylvania and United States*. Memorandum of Agreement between Regional Economic Models, Inc. and Workforce Assessment Center, Office of Economic and Workforce Development, Penn State Outreach, \$1,000.

Project Co-Director with R. M. Baker & W. Paletski. *Development of environmental, health, and safety workshops and educational needs assessment for the funeral home sector*. Project through Penn State's Thematic Initiative Fund, \$10,000.

Project Co-Director with D. L. Passmore. *Calculations of regional economic indicators for the Greater Upper Perkiomen Valley, Pennsylvania*. Memorandum of Agreement between Delta Development Group and Workforce Assessment Center, Office of Economic and Workforce Development, Penn State Outreach, \$6,000.

Project Co-Director with D. L. Passmore. *Calculations of regional economic and demographic indicators for Cranberry Township, Pennsylvania*. Memorandum of Agreement between Delta Development Group and Workforce Assessment Center, Office of Economic and Workforce Development, Penn State Outreach, \$9,000.

Project Co-Director with D. L. Passmore. *Forecast of economic, population, and employment consequences of the closing of the Willow Grove Naval Air Station Joint Reserve Base*. Contract from the Montgomery County Workforce Investment Board to the Workforce Assessment Center, Office of Economic and Workforce Development, Penn State Outreach, \$99,698.

Project Director. *Current and anticipated labor market for long-term care workers in Bucks and Montgomery counties*. Contract from the Bucks County Workforce Investment Board to the Workforce Assessment Center, Office of Economic and Workforce Development, Penn State Outreach, \$40,986.

2006

Project Co-Director with D. L. Passmore. *Benchmarking performance and competitiveness of the Pennsylvania plastics industry*, a project within *Pennsylvania plastics initiative: integrating workforce, economic development and education resources for a comprehensive industry response*. Contract from the U.S. Department of Labor, Employment and Training Administration to the Pennsylvania Workforce Investment Board and Penn State University, \$75,000 within a \$4,900,000 contract.

Project Co-Director with D. L. Passmore. *Occupational forecasts for Pennsylvania plastics industries*, a project within *Pennsylvania plastics initiative: integrating workforce, economic development and education resources for a comprehensive industry response*. Contract from the U.S. Department of Labor, Employment and Training Administration to the Pennsylvania Workforce Investment Board and Penn State University, \$50,000 within a \$4,900,000 contract.

Project Co-Director with D. L. Passmore. *Support for research and development of David L. Passmore and Rose M. Baker related to information markets*. Gift from Human Resource Institute to Management Development Programs & Services, Penn State Outreach, \$5,000.

Project Co-Director with D. L. Passmore. *A proposal for professional development presentation at a WEDnet Pennsylvania Training and Development Conference*. Memorandum of Agreement between WEDnet Pennsylvania and Management Development Programs & Services, Penn State Outreach, \$3,000.

Service

Paid Consulting

Consulting Editor, Instructional Designer, and Multimedia Developer for revision of Successful Project Management, Sixth Edition, Cengage Learning, Florence, Kentucky, March 2013 to December 2013.

Author of Project Management Educational Programs Design White Paper, Cengage Learning, Florence, Kentucky, December 2011 to January 2012.

Artifact Developer for Assessments, Cengage Learning, Florence, Kentucky, June 2011 to September 2011.

Consulting Editor, Instructional Designer, and Multimedia Developer for revision of Successful Project Management, Fifth Edition, Cengage Learning, Florence, Kentucky, May 2010 to March 2011.

National Institute for Metalworking Skills, Creation of integrated training web site for on-site assessment teams, December 2005 to June 2006.

Web and Print-based Researcher and Instructional Designer, PricewaterhouseCoopers, Florham Park, New Jersey from February 2001 to August 2001 and April 1999 to August 1999.

Instructional Designer and Instructor, Training and Educational Systems Associates, State College, Pennsylvania, June 2000 to June 2005.

Donated Professional Service

Nominations Committee member, International Society for Performance Improvement, Silver Springs, Maryland.

Proposal Reviewer, 2014 and 2015 Violence Prevention Programs, Pennsylvania Commission on Crime and Delinquency, Harrisburg, Pennsylvania.

Proposal Reviewer, Florida 21st Century Community Learning Centers, Florida Department of Education, Tallahassee, Florida, and The Children's Forum, reviewed proposals for RFP years: 2011-2012, 2012-2013, 2013-2014, 2014-2015, 2015-2016.

Concept paper reviewer, 2013 Programs to Prevent Violence and Delinquency, Pennsylvania Commission on Crime and Delinquency, Harrisburg, Pennsylvania.

Submitted two standards that contributed to the American National Standards Institute and the Joint Committee on Standards for Educational Evaluation, (2003). *The Student Evaluation Standards: How to Improve Evaluations of Students*. Thousand Oakes, California: Corwin Press, Inc.

University Service

Elected to the Penn State Faculty Senate as a College of Education senator; member of the Libraries, Information Science, and Technology committee and Parking Enforcement committee.

Co-Chair of the Penn State Commission for Women (2012–2013), Co-Chair Elect (2011–2012), Appointed member (2008–2014), co-chair of the Assessment Committee (2009–2011) and the Employment and Family Policies committee (2014–2015), and member of the Executive Committee (2009–2014), Assessment Committee (2008–2009) and Wage Equity Committee (2008–2011).

Member of the Diversity Framework Committee (2009–2010, and 2014–2015), Office of Educational Equity.

Guest lecturer for classes in the Learning and Performance Systems Department (2003–current)

- Research briefs and how to tailor the message for different audiences, Instructional Systems Program.
- Project management and mathematical skills, Workforce Education and Development Program.
- Labor market, demographic, and industry data, Workforce Education and Development Program.
- Economic and demographic policy analysis and simulation and input-output modeling, Workforce Education and Development Program.
- Project management applied to instructional design and development projects, Instructional Systems Program.
- Human performance improvement, Instructional Systems Program.

Member of Search Committee (2012-2014) for position of Open Rank Professor of Education and CTE Administration Certification, Learning and Performance Systems, Workforce Education and Development.

Interviewer with members of Presidential Equity Commissions and Search Committee (2012-13) for positions of Executive Vice President and Provost and Vice President for Marketing and Communications. Advised search firms for information related to diversity and the needs of the University for positions of University President, Executive Vice President and Provost, and Vice President for Marketing and Communications.

Served as a member of the Steering Committee for the Administrative Fellows program (2013).

Voluntary Research Services to Penn State Outreach Continuing Education and Cooperative Extension (2006–2013)

- Analyzed National Business Services Alliance online certification program.
- Provided information on skills assessments and types of questions to measure skills.
- Developed performance assessments for frontline workers and for managers.
- Facilitated GroupSystems session with continuing education directors and representatives at annual meeting.
- Analyzed industries in regions to produce 214 economic impact reports.
- Developed questions for assessing managerial skills that were implemented using radio-frequency response system equipment.
- Presented performance assessment theory and how to improve performance to industry consortium members.
- Implemented performance assessments, analyzed and presented results of the performance assessments, made recommendations for performance improvement.
- Analyzed Wall Street West region and provided data to support grant proposals.
- Analyzed regions for Keystone Innovation Zone and Keystone Innovation Grant applications.
- Analyzed regions for training solutions and community and economic development.
- Determined company contacts in regions related to specific industry codes.
- Developed training materials and instructed continuing education directors and representatives on how to use labor market and industry data to make training decisions.
- Mapped regional information and used geographical information systems to analyze regions and provide information for grant applications.
- Performed market segmentation to determine the target audience for training solutions.

Contributed to grant applications (2009–2010) to provide maps, economic impact information, and demographic data through the Office of the Vice President for Research and the Office of the Vice Provost for Information.

Member of Eliminate Duplication and Streamline Processes Committee (2009–2010), Penn State Outreach.

Facilitator of Project Management Skills and Process Development in Microsoft Project (2009), World Campus.

Contributed to the College of Education Associate Dean of Research Directors of Institutes and Centers Committee (2006–2009).

Member of the Project Working Group, Regional Engagement Team, and Community Readiness Dashboard/Metrics/Regional Asset Mapping Committee (2008–2009) of the Pennsylvania Prosperity Partnership project by Penn State Outreach.

Member of Search Committee (2009) for position of Director of Undergraduate Academic Affairs in the Penn State World Campus.

Member of Search Committee (2009) for Staff Assistant in the Office of Economic and Workforce Development in Penn State Outreach.

Affiliate member of the Penn State Commission for Women and member of its Assessment Committee and Wage Equity Committee (2008).

Community Service

Vice-Chair, Pennsylvania Human Relations Commission Centre County Advisory Council, (2014), member (2013–present).

Board of Directors, Mt. Nittany UMC Preschool, State College, Pennsylvania, (2014–present).

Staff-Parish Relations Committee, Mt. Nittany UMC, State College, Pennsylvania, (2014–present).

Mission Possible community housing repair projects, State College, Pennsylvania, (2009–2010).

Training Coordinator for Boy Scouts of America Troop 367, Juniata Council, State College, Pennsylvania, (2006–2010).

Director and Coach of Pennsylvania Junior Shooting Camp sponsored by the National Rifle Association and the Pennsylvania Rifle and Pistol Association, (1984–2005).

Junior Rifle Coach, Huntingdon County 4H, Huntingdon County Cooperative Extension, Huntingdon, Pennsylvania, (1990–2003).

Director of shooting events and planning committee, Pennsylvania Outdoor Heritage Days sponsored by Pennsylvania Game Commission, Westsylvania, Pennsylvania Heritage, Huntingdon, Pennsylvania, (2000–2003).

Girl Scout Leader, Hemlock Girl Scout Council, Orbisonia, Pennsylvania, (2000–2003).

Treasurer of Pennsylvania Sportsmen for Youth, Huntingdon, Pennsylvania, (1995–2003).

Director of Huntingdon County Youth Field Day, Pennsylvania Game Commission, Pennsylvania Fish Commission, National Wild Turkey Federation, Department of Conservation of Natural Resources, Huntingdon, Pennsylvania, (1995–1998).

Instructor of Hunter and Trapper Education courses, Pennsylvania Game Commission, (1994–2010).

Volunteer for Pennsylvania Blind Association, Washington, Pennsylvania, (1982–1987).

Student Work Directed

Doctoral Dissertation Committees

Ford, R. (2015). *Factors influencing clergy leadership effectiveness*. Doctor of Philosophy dissertation in workforce education and development, The Pennsylvania State University.

Park, J.Y. (2015). *Examination of impact of family size on investment in children's education and educational achievement In Kenya*. Doctor of Philosophy dissertation in workforce education and development, The Pennsylvania State University.

Huang, H. (2014). *Assessing civic engagement: A study of collaborative social entrepreneurship using a multiuser virtual environment*. Doctor of Philosophy dissertation in curriculum and instruction, The Pennsylvania State University.

Corby, M. (2014). *An examination of leadership development of women university administrators through participation in an administrative fellows program*. Doctor of Philosophy dissertation in workforce education and development, The Pennsylvania State University.

Scamacca, L. (2013). *Exploring intangible and non-financial success metrics for professionals in the meetings and events industry*. Doctor of Philosophy dissertation in workforce education and development, The Pennsylvania State University.

Nordstrom, P. (2013). *An evaluation of reported changes in teachers' practices in the Classrooms for the Future initiative based on levels of technology implemented*. Doctor of Philosophy dissertation in instructional systems, The Pennsylvania State University.

Demers, D. (2009). *The relationship between perceptions of learning organization characteristics and firm performance*. Doctor of Philosophy dissertation in workforce education and development, The Pennsylvania State University.

Pursel, B. K. (2009). *The role of virtual worlds as a collaborative environment for partially distributed teams*. Doctor of Philosophy dissertation in workforce education and development, The Pennsylvania State University.

Master Thesis & Papers Committees

Joung, G. S. (2011). *The effectiveness of informal learning and formal training on improving job competencies in small business*. Master of Science Research Paper in workforce education and development, The Pennsylvania State University.

Haynes, C. (2009). *Relationships between promoted supervisors and their former coworkers*. Master of Education Research Paper in workforce education and development, The Pennsylvania State University.