



## **ECONOMIC ANALYSIS, MODELING, & FORECASTING ACTIVITIES OF THE PENN STATE WORKFORCE EDUCATION & DEVELOPMENT INITIATIVE THROUGH 2005**

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Penn State Workforce Education & Development Initiative staff have extensive experience with economic and demographic analysis, modeling, and forecasting. To illustrate this experience, listed below are titles of various activities, projects, and publications that have resulted from Penn State's work with these techniques or from theory and tool development necessary to advance the uses of these models at Penn State through 2005.

## PUBLICATIONS

### ***Monographs, Book Chapters, & Contributions To Proceedings***

Passmore, D. L. Educational investments critical to industrial growth and change. In G. M. Papadourakis (Ed.), *New horizons in industry and education* (pp. 185-189). Crete: Technological Educational Institute of Crete, 2001.

Passmore, D. L. Identifying skills critical to economic growth and development. In *Proceedings of the international conference of scholars on technology*. Braunschweig, Germany: Technical University Braunschweig, 2001.

Passmore, D. L., Use of social accounting models to plan vocational and technical education. In *Proceedings of the 2000 meeting of the International Vocational and Technical Education Association*, Hong Kong: International Vocational Education and Training Association, 2000.

Passmore, D. L., J. Wall, K. Tucker, & C. Pellock. Community costs of technical skills deficits: A Pennsylvania case study. In *Proceedings of Conference on Strengthening Postsecondary Education's Contribution to Economic Development*. University Park, PA: The Pennsylvania State University, Australian-New Zealand Studies Center, 1997.

Passmore, D. L. A regional policy simulation of economic outcomes of educational reform. In M. Mulder & W. J. Nijhof (Eds.), *Education for training and work* (pp. 15-17). Twente, The Netherlands: University of Twente, 1994.

Passmore, D. L. Strategic planning of employment and training for regional economic development. In G. Cheek (Ed.), *Regional strategic planning for employment and training: Reality or fantasy?* (Research Series No. 2). Knoxville, Tennessee: The University of Tennessee, Office for Human Resources Development, 1988.

### ***Papers and Reviews of Literature in Refereed Publications***

Passmore, D. L., J. Wall, C. Pellock, H. Tucker, & C. Lin. Lost opportunities: A case study of the worth of technical skills to a community. *Central Business Review*, 2002, 21(2), 27-32.

Passmore, D. L., J. Nelson & W. Anderson. Economic development and air pollution abatement: A state-level simulation of the 1990 Clean Air Act. *Journal of Environment and Development*, 1997, 6(1), 61-84.

Passmore, D. L., C. Pellock & G. Wang. Ballpark estimates: Impact of the 1994 baseball strike on the Pennsylvania economy. *Journal of Sport & Social Issues*, 1996, 20(2), 161-172.

Passmore, D. L., W. D. Anderson. What if it all works? The economic stakes for Pennsylvania school reform. *Pennsylvania Educational Leadership*, 1994, 14(1), 32-38.

Passmore, D. L. Employment and economic development. *Journal of Technical and Vocational Education*, 1990, 7, 1-19.

Passmore, D. L. The occupational supply structure of the firm. *Occupational Education Forum*, 1989, 17(2), 25-37.

### ***Articles Written for Popular Press and Media Participation Resulting from Research***

Passmore, D. L. Machinist shortage is potential ray of hope for Corning workers (op-ed). *Centre Daily Times*, May 10, 2003, p. A6.



Passmore, D. L. Vehicle emissions tests: Cleaner air, at a price (op-ed). *Centre Daily Times*, January 18, 2003, p. A6.

Skilled worker supply shapes manufacturing destiny (Interview with Passmore). *Eastern Pennsylvania Business Journal*, September 15, 1997, p. 9.

Toolmakers: Craftsmen in increasingly short supply (Interview with Passmore). *The Cincinnati Enquirer*, July 23, 1997, p. 1.

The costs of ignorance (article about research report, *Community Costs of Technical Skills Deficits: A Pennsylvania Case Study*). *Training*, April, 1997, p. 12.

The dearth of skilled workers (Interview with Passmore). *Pennsylvania Business Central*, December 20, 1996, p. 1; p. 4.

Passmore, D. L., & C. Pellock. Altoona should use caution when looking at baseball deal (guest editorial), *Altoona Mirror*, February 11, 1996, p. B7.

Pennsylvania job gains predicted in health care, publishing (Interview with Passmore). *Centre Daily Times*, February 21, 1995, p. 6B.

Outlook for the state's economy: Chinks in the competitive armor (Interview with Passmore). *Pennsylvania Business Central*, February 3, 1995, p. 1; p. 7.

Passmore, D. L. Has the baseball strike hurt the State's economy (op-ed). *Philadelphia Inquirer*, February 6, 1995, p. A7.

Interview with Passmore on WPSX-TV program, *Take Note*, about research on history and prospects for Pennsylvania manufacturing, first broadcast on January 23, 1994, and rebroadcast on Pennsylvania Public Television during 1995.

Interview with Passmore about status and forecast for the Pennsylvania economy on *Two-Way Talk Radio*, a live call-in program on WRTA-AM radio, Altoona, Pennsylvania, January 11, 1995.

No baseball? No problem (Interview with Passmore). *Philadelphia Inquirer*, November 30, 1994, business section.

Passmore, D. L. State must reverse trends in manufacturing decline (op-ed). *The Patriot-News*, (Harrisburg, Pennsylvania), November 7, 1994, p. A9.

### **Other Publications and Reports**

Passmore, D. L. *Effects of landfills on local social and economic bases*. Report for Citizens for the Environment, Dauphin County, Pennsylvania, April, 2001.

Passmore, D. L. *Economic impact of landfills*, Report for Old Forge, Pennsylvania, city government, August, 2000.

Passmore, D. L. A "boy scout" strategy for economic development. *Dimensions*, Summer, 1997, pp. 1-3.

Passmore, D. L., L. E. Goss & J. K. Hoeveler. *The Pennsylvania ski industry, 1995-1996: Its contribution to the state's economy*. White Haven, Pennsylvania: Pennsylvania Ski Area Association, 1996.

Passmore, D. L. *Economics of the Pennsylvania highway construction sector*. University Park, Pennsylvania: The Pennsylvania State University, Smeal College of Business Administration, Center for Regional Business Analysis, 1995.

Passmore, D. L. *Evaluation of an economic analysis of unemployment in the Pennsylvania construction industry*. Harrisburg, Pennsylvania: Commonwealth of Pennsylvania, Office of Attorney General, 1995.

Passmore, D.L., C. Pellock & G. Wang. Cost of taking Pennsylvania out of the old ball game. *Dimensions*, Spring 1995, pp. 2; 4.

Passmore, D. L., C. Pellock & G. Wang. *Ballpark estimates: Impact of foregone gate receipts during the 1994 baseball strike on the Pennsylvania economy*. University Park, Pennsylvania: The Pennsylvania State University, Smeal College of Business Administration, Center for Regional Business Analysis, 1995.

Passmore, D. L. *Outlook for the 1995 Pennsylvania economy*. University Park, Pennsylvania: The Pennsylvania State University, Smeal College of Business Administration, Center for Regional Business Analysis, 1995.



Passmore, D. L. *Economics of printing and publishing in Pennsylvania: Evidence from the Pennsylvania Economic Model*. University Park, Pennsylvania: The Pennsylvania State University, Smeal College of Business Administration, Center for Regional Business Analysis, 1995.

Passmore, D. L. *The statewide impact of higher education on the Pennsylvania economy*. University Park, Pennsylvania: The Pennsylvania State University, Smeal College of Business Administration, Center for Regional Business Analysis, 1995.

Passmore, D. L., G. Wang. *Requirements for health care and service workers in Pennsylvania under alternate patterns of national spending in health-related industries*. University Park, Pennsylvania: The Pennsylvania State University, Smeal College of Business Administration, Center for Regional Business Analysis, 1994.

Passmore, D. L. M. Butler, N. Palladino, & C. Sanogo. *Pennsylvania employment outlook for cosmetologists: Implications for training*. University Park, Pennsylvania: The Pennsylvania State University, Smeal College of Business Administration, Center for Regional Business Analysis, 1995.

Passmore, D. L., J. Nelson & W. Anderson. *The environment vs. jobs dilemma: A simulation study of the low-emissions vehicles program*. University Park, Pennsylvania: The Pennsylvania State University, Smeal College of Business Administration, Center for Regional Business Analysis, 1994.

*Performance and competitiveness of the Pennsylvania economy*. University Park, Pennsylvania: The Pennsylvania State University, Smeal College of Business Administration, Center for Regional Business Analysis, 1994.

Passmore, D. L., & W. Anderson. *Regional policy outcomes of educational reform*. University Park, Pennsylvania: The Pennsylvania State University, Smeal College of Business Administration, Center for Regional Business Analysis, 1994.

Passmore, D. L., & W. Anderson. *Assessing Pennsylvania's competitive edge: A retrospective and prospective view of the manufacturing sector* (Pennsylvania Economic Study No. 9).

University Park, Pennsylvania: The Pennsylvania State University, Smeal College of Business Administration, Center for Regional Business Analysis, 1994.

Passmore, D. L., & W. Anderson. *Economic impact of proposed Pennsylvania vehicle emissions testing program*. University Park, Pennsylvania: The Pennsylvania State University, Smeal College of Business Administration, Center for Regional Business Analysis, 1993.

Passmore, D. L. & W. Anderson. *Economic structure of and northern Pennsylvania and its sensitivity to federal defense expenditures*. University Park, PA: Ben Franklin Technology Center of Central and Northern Pennsylvania, Inc., 1993.

## PRESENTATIONS

### *By Invitation*

Passmore, D. L. *The sex life of the economy: How unfettered lust for goods and services creates jobs*. Invited presentation to the College of Technology, Bowling Green State University, Bowling Green, Ohio, February 2003.

Passmore, D. L. *Educational reform and economic performance*. Invited paper presented at Northeast Regional Economic Modeling Conference, Philadelphia, PA, April, 2000.

Passmore, D. L. *Workforce development and economic development*. Keynote speech at meeting of Maryland Chapter of the American Society for Training & Development, Baltimore, MD, April, 1999.

Passmore, D. L. *Manufacturing and workforce development*. Invited presentation to Manufacturers Council of Altoona-Blair County Development Corporation, Altoona, PA, July, 1998.

Passmore, D. L. *Documenting the skills gap and impact on productivity*. Keynote speech at National Coalition for Advanced Manufacturing Annual Washington Conference, "Using Skills Standards in Workforce Development: Best Practices, New Methods, & Successful Partnerships," Washington, DC, March 1998.

Passmore, D. L. *Opportunities Lost: How much are technical skills worth to a community?* Open Public Forum, "Critical Issues in Human Resource Development: Driving Forces for



Future Development,” presented at St. John Fischer College, Rochester, New York, April, 1998.

Passmore, D. L. *Econometric models for linking economic development and training*. Keynote presentation at meeting of Omicron Tau Theta at Virginia Tech, Blacksburg, Virginia, May, 1997.

Passmore, D. L. *Lost opportunities without school-to-work*. Keynote speech at “Complete Career Curriculum,” a symposium sponsored by York County School-to-Work, York, Pennsylvania, October, 1997.

Passmore, D. L. *Opportunities lost: How much are technical skills worth to a community?* Keynote speech at the 1997 Fall Conference of the Pennsylvania Economic Development Association, University Park, Pennsylvania, October, 1997.

Passmore, D. L. *Missed opportunities: How Pennsylvanians are losing chances for economic security*. Keynote speech at School-to-Work Symposium sponsored by Milton Area Chamber of Commerce and Union County Chamber of Commerce, Milton, Pennsylvania, August, 1997.

Passmore, D. L. *To get the big fish, you gotta have bait: How technical skills deficits can impede economic development*. Public lecture sponsored by the Downtown Center, The Pennsylvania State University, Harrisburg, Pennsylvania, April, 1997.

Passmore, D. L. *Opportunity is always knocking quietly: Will you hear it?* Keynote presentation at a career development conference, “Preparing Students and Adults for a Changing Economy,” Sponsored by the Bureau of Vocational-Technical Education of the Pennsylvania Department of Education and the Pennsylvania Department of Labor and Industry, May, 1997.

Passmore, D. L. *Structural economic forecasting for Pennsylvania*. Present at “Regional Strategies for Pennsylvania’s Economic Competitiveness” co-sponsored by the Legislative Office of Research Liaison of the Pennsylvania House of Representatives and the Penn State Institute for Policy Research and Evaluation, Harrisburg, Pennsylvania, May, 1996.

Passmore, D. L. *Forecasting requirements for managers: Selected U.S. methods and experience*. Invited address at the Symposium

National Sur La Formation Des Cadres sponsored by the Moroccan Ministère de l’Enseignement Supérieur de la Formation des Cadres et de la Recherche Scientifique, Rabat, Morocco, March, 1996.

Passmore, D. L. *Pennsylvania health care and service employment and training through 2005: Prospects and uncertainties*. Invited Plenary Session at “Strategies for Successful Health Care Providers” sponsored by the School of Nursing and Center for Professional Development in Vocational Education at The Pennsylvania State University, University Park, Pennsylvania, October, 1995.

Passmore, D. L. *Economic implications of growth and change in Pennsylvania printing and publishing: Evidence from the Pennsylvania economic model*. Paper presented at the Government Affairs Conference of the Pennsylvania Newspaper Publishers Association, Harrisburg, Pennsylvania, January, 1995.

Passmore, D. L. *The outlook for the 1995 Pennsylvania economy*. Paper presented to the Altoona Chamber of Commerce, Altoona, Pennsylvania, January, 1995.

Passmore, D. L. *The statewide impact of higher education on the Pennsylvania economy: A research précis*. Paper presented to the Secretariat of the Pennsylvania Association of Colleges and Universities, Harrisburg, Pennsylvania, December, 1994.

Passmore, D. L. *How healthy is national health care reform For Pennsylvania employment?* Luncheon Address to Harrisburg Trade Association Executives, Harrisburg, Pennsylvania, November, 1994.

*Economics of printing and publishing in Pennsylvania*. Passmore, D. L. *Pennsylvania: Evidence from the Pennsylvania Economic Model*. Invited paper presented at the Annual Meeting of the Pennsylvania Newspaper Publishers Association, Valley Forge, Pennsylvania, October, 1994.

Passmore, D. L. *Pennsylvania manufacturing: Performance and prospects*. Public Lecture sponsored by Penn State Downtown Center, Harrisburg, Pennsylvania, October, 1994.

Passmore, D. L. *Research opportunities available with the Pennsylvania economic model*. Paper presented at a meeting of the



Pennsylvania MILRITE Council, Harrisburg, PA, June, 1994.

Passmore, D. L. *Performance and competitiveness of the Pennsylvania economy, 1969-2000*. Invited paper presented to the Futures Council, Office of the Governor, Commonwealth of Pennsylvania, Harrisburg, PA, March, 1994.

Passmore, D. L., & W. Anderson. *Modeling the effects of the defense conversion in a Pennsylvania economic region*. Invited presentation at Conference on Regional Effects of National Policies sponsored by Regional Economic Models, Inc., Washington, DC, June, 1993.

#### **At International and National Meetings**

Passmore, D. L. *Educational investments critical to industrial growth and change*. Paper presented at Second International Conference on New Horizons in Industry and Education, Milos Island, Greece, September 2001.

Passmore, D. L. *Identifying skills critical to economic growth and development: A social accounting approach*. Paper presented at International Conference of Scholars on Technology Education and World Council of Associations for Technology Education, Braunschweig, Germany, September 2000.

Passmore, D. L. *Methods for identifying skill shortages*. Paper presented at the 2000 Meeting of the International Vocational and Technical Education Association, Hong Kong, July 2000.

Passmore, D. L. *Use of social accounting models to plan vocational and technical education*. Paper presented at the 2000 Meeting of the International Vocational and Technical Education Association, Hong Kong, July 2000.

Passmore, D. L., J. Wall, C. Pellock, & H. Tucker. *Community costs of technical skills deficits: A Pennsylvania case study*. Paper presented at "Strengthening Postsecondary Education's Contribution to Economic Development: An Australia-U.S. Conference," University Park, Pennsylvania, June 1997.

Passmore, D. L. *Ballpark estimates: Impact of the 1994 baseball strike on the Pennsylvania economy*. Paper presented at the Annual Users' Conference of Regional Economic Models, Inc., San Diego, California, October, 1995.

*Requirements for Pennsylvania health care and service workers under alternate regional patterns of spending in health-related industries*. Paper presented at the 1994 Regional Economic Models, Inc. Users' Conference, Minneapolis, Minnesota, October, 1994.

Passmore, D. L. *A regional policy simulation of economic outcomes of educational reform*. Paper presented at the 3rd International Interdisciplinary Conference of the International Research Network for Training and Development, University of Milan, Milan, Italy, June, 1994.

Passmore, D. L. W. Anderson. *The potential of world class technical education for developing a region's competitive edge: An econometric study*. Paper presented at the 31st National Conference on Technical Education sponsored by the American Technical Education Association, Albany, New York, March, 1994.

Passmore, D. L., & W. Anderson. *The Pennsylvania manufacturing sector—Retrospect and Prospect: Policy options for a stronger future*. Paper presented at the 1993 Regional Economic Models Inc. Users' Conference, Atlanta, Georgia, October, 1993.

Passmore, D. L. & W. Anderson. *Economic structure of central and northern Pennsylvania and its sensitivity to national defense expenditures*. Paper presented at the 1993 Regional Economic Models Inc. Users' Conference, Atlanta, Georgia, October, 1993.

Passmore, D. L., J. Nelson & W. Anderson. *The environment vs. jobs dilemma: A simulation study of the low emissions vehicle program*. Paper presented at the 1993 Regional Economic Models Inc. Users' Conference, Atlanta, Georgia, October, 1993.

Passmore, D. L., & A. Mohamed. *Reducing teen births in PA: What are the economic stakes?* Presentation at the conference, "Teen Pregnancy: An issue for everyone," University Park, Pennsylvania, November, 1997

Passmore, D. L., D. Pistner & R. Montgomery. *Emerging workforce development initiatives in Pennsylvania*. Presented at the 1997 Fall Conference of the Pennsylvania Economic Development Association, University Park, Pennsylvania, October, 1997.



Passmore, D. L., J. Wall, C. Pellock, & H. Tucker. *Lack of technical skills slows economic development*. Paper presented at Pennsylvania Partners 1997 Conference, Harrisburg, Pennsylvania, May, 1997.

Passmore, D. L., J. Wall, C. Pellock, & H. Tucker. *Opportunities lost: How much are technical skills worth to a community?* Paper presented at the Annual Meeting of the Pennsylvania School Counselors Association, Pittsburgh, Pennsylvania, April, 1997.

Passmore, D. L. *Improved career decision-making*. Pre-conference workshop at a career development conference, "Preparing Students and Adults for a Changing Economy," Sponsored by the Bureau of Vocational-Technical Education of the Pennsylvania Department of Education and the Pennsylvania Department of Labor and Industry, Camp Hill, Pennsylvania, May, 1997.

Passmore, D. L. J. Wall, C. Pellock, and H. Tucker. *Lack of technical skills slows economic development*. Paper presented at the 1997 Pennsylvania Partners Conference, Harrisburg, Pennsylvania, May 1997.

Passmore, D. L., C. Pellock, H. Tucker, M. R. Mohamood, & W. A. Wan Mohamed. *Education's role and stakes in reducing Pennsylvania's adolescent birth rates*. Paper presented at the Annual Meeting of the Northeastern Educational Research Organization, Portsmouth, New Hampshire, April, 1996.

Passmore, D. L., C. Pellock, H. Tucker, M. R. Mohamood, & W. A. Wan Mohamed. *Employment prospects and educational implications for Pennsylvania cosmetologists*. Paper presented at the Annual Meeting of the Northeastern Educational Research Organization, Portsmouth, New Hampshire, April, 1996.

Passmore, D. L., C. Pellock, H. Tucker, M. R. Mohamood, & W. A. Wan Mohamed. *Reducing adolescent birth rates in Pennsylvania: The role and economic stakes for education*. Paper presented at the Annual Meeting of the Eastern Educational Research Association, Cambridge, Massachusetts, February, 1996.

Passmore, D. L., C. Pellock, H. Tucker, M. R. Mohamood, & W. A. Wan Mohamed. *Employment forecasts for cosmetologists in*

*Pennsylvania: Implications for vocational education policy implementation, economics, and work*. Paper presented at the Annual Meeting of the Eastern Educational Research Association, Cambridge, Massachusetts, February, 1996.

Passmore, D. L. *Regional economic modeling*. Presentation to the Greater Johnstown Area Committee, Johnstown, Pennsylvania, November, 1995.

Passmore, D. L. *Demographics of the Pennsylvania workplace*. Presented at Vocational Administrators and Directors Academy, University Park, Pennsylvania, May, 1995.

Passmore, D. L., M. Butler, N. Palladino, & C. Sanogo. *Is use of public funds for cosmetology occupations training justified?* Paper presented at the Pennsylvania Vocational Education Conference, Seven Springs, PA, June 1994.

Passmore, D. L. W. Anderson. *Linking school reform and the economy in Pennsylvania*. Paper presented at the 1994 Meeting of the Pennsylvania Educational Research Association, University Park, PA, May, 1994.

Passmore, D. L. *Pennsylvania manufacturing: Retrospect and prospect*. Paper presented at a meeting of the Pennsylvania Manufacturing Association, Harrisburg, PA, February, 1994.

Passmore, D. L. *Potential for research on the economic impact of Pennsylvania highway construction and use*. Paper presented at the Annual Meeting of the Pennsylvania Highway Information Association, Harrisburg, PA, February, 1994.

Passmore, D. L. *Design of a study of Pennsylvania manufacturing performance and competitiveness*. Paper presented at a meeting of the Pennsylvania Manufacturing Association, Harrisburg, PA, December, 1993.

Passmore, D. L., W. Anderson & J. Li. *Improving Pennsylvania's competitive edge through education: A policy simulation of economic outcomes of education*. Paper presented at the Annual Meeting of the Northeastern Educational Research Association, Ellenville, NY, October, 1993.

Passmore, D. L. *What are the economic stakes for improving Pennsylvania's competitive edge through education?* Paper presented at the



Pennsylvania Vocational Education Conference,  
Mount Pocono, PA, June, 1993.

***Funded Projects at Penn State That Have  
Applied These Models***

**2002**

*Leadership in national manufacturing skill standards.* Grant-in-Aid from the National Institute for Manufacturing Skills, \$103,549.

**1999**

*National skills standards for manufacturing implementation project.* Contract between The Pennsylvania State University and Pennsylvania Department of Education, \$146,123.

**1997**

*National skills standards for manufacturing implementation project.* Contract between the Pennsylvania Department of Education, Office of School-to-Work Opportunities, and The Pennsylvania State University, \$227,915.

**1996**

*Economic impact of Pennsylvania skiing.* Contract between Northern Economic Planners and Penn State's Institute for Policy Research and Evaluation, \$4,000.

*Industry employment projections.* Contract between the Pennsylvania Department of Labor and Industry and Penn State's Institute for Policy Research and Evaluation, \$5,000.

*Economic impact of Pennsylvania waste industries.* Contract between the Neimann + May Communications and Penn State's Institute for Policy Research and Evaluation, \$1,500.

**1994**

*Economic history and forecasts for the United States, Pennsylvania, and Franklin County (PA).* Memorandum of agreement between Delta Development Corporation and the Center for Regional Business Analysis, Smeal College of Business Administration, The Pennsylvania State University, \$2,500.

*Economic history and forecasts for Fayette County (PA).* Memorandum of agreement between Delta Development Corporation and the Center for Regional Business Analysis, Smeal College of Business Administration, The Pennsylvania State University, \$2,500.

*Population projection for Franklin County (PA).* Memorandum of agreement between Delta Development Corporation and the Center for Regional Business Analysis, Smeal College of Business Administration, The Pennsylvania State University, \$2,500.

**1993**

*Economic impact of proposed Pennsylvania vehicle emissions testing program.* Memorandum of agreement between Envirotech Systems Corporation and the Center for Regional Business Analysis, Smeal College of Business Administration, The Pennsylvania State University, \$5,000.

*Economic structure of central and northern Pennsylvania and its sensitivity to national defense expenditures.* Memorandum of agreement between Ben Franklin Technology Center of Central and Northern Pennsylvania, Inc. and the Center for Regional Business Analysis, Smeal College of Business Administration, The Pennsylvania State University, \$10,000.

*Economic impact of low emission vehicle program.* Memorandum of agreement between Pennsylvania Transportation Institute and the Center for Regional Business Analysis, Smeal College of Business Administration, The Pennsylvania State University, \$3,000.

*Pennsylvania manufacturing sector: Retrospect and prospect.* Memorandum of agreement between Sun Oil Company and the Center for Regional Business Analysis, Smeal College of Business Administration, The Pennsylvania State University, \$40,200

In addition, Passmore has provided consulting services using these economic and demographic models to: PECO Energy, Philadelphia, Pennsylvania (Analysis of economic impact of deregulation of electrical utility in five-county Philadelphia economic region), the Office of the Attorney General of Pennsylvania, Harrisburg, Pennsylvania (Analysis of construction industry employment and unemployment data), Labor Market Analysis Committee of the *Team Pennsylvania* Human Resource Investment Council (review employment need data), the Blue



Ribbon Panel, Pennsylvania Department of Labor and Industry, Bureau of Research and Statistics (Review of industry and occupational employment projections), and the *Pittsburgh Post-Gazette* (Pittsburgh daily newspaper; employment projections for real estate agents, brokers, and appraisers).

Passmore supervised the following Penn State doctoral and masters theses and masters research papers that have applied these economic and demographic models:

Pellock, C. *Sensitivity of PA labor market for teachers to economic and demographic policy change*. Doctor of Philosophy thesis in workforce education and development, The Pennsylvania State University, 1998.

Tucker, H. *Changes in employment in health care and service occupations as a result of consumer health care spending uncertainties*. Doctor of Philosophy thesis in workforce education and development, The Pennsylvania State University, 1997.

McGinley, T. *National infrastructure spending and construction trades employment in Pennsylvania*. Master of Science Research Paper in workforce education and development, The Pennsylvania State University, 1996.

Mohamed, W. *The role and economic stakes for education in reducing adolescent birth rates in Pennsylvania*. Master of Science Research Paper in workforce education and development, The Pennsylvania State University, 1996.

Mohamood, M. *Forecast of employment and job openings for cosmetologists in Pennsylvania*. Master of Science Research Paper in workforce education and development, The Pennsylvania State University, 1996.

Primarily on the basis of his work on the theory supporting and practice emerging from these economic and demographic models, Passmore was selected as “University Council Visiting Scholar for 1996–97” by the University Council for Vocational Education for “outstanding contributions as a scholar in the field of vocational and technical education” and received the Silver Anniversary Award from Center on Education and Training for Employment at The Ohio State University for “outstanding contributions to the field of education and training for employment.”