

William E. Becker  
Department of Economics  
Indiana University  
Bloomington, IN 47405  
(TEL: 812/855-3577) (FAX: 812/855-3736) (E-MAIL: BECKERW@INDIANA.EDU)

## **EDUCATION BACKGROUND**

University of Pittsburgh, Ph.D. (Economics), April 1973

University of Wisconsin, Masters (Economics), June 1970

College of St. Thomas, Baccalaureate (Mathematics), June 1967

## **EMPLOYMENT BACKGROUND**

### **Academic and Research Positions**

Indiana University, Professor of Economics, May 1984 to present.

University of South Australia, Adjunct Professor of International Business, August 1996 to present.

Universities of Adelaide, Melbourne, and South Australia, Visiting Professor of Economics, July 1995-December 1995.

University of Minnesota, Visiting Professor of Public Affairs, Hubert Humphrey Institute, September, 1988 - August, 1989.

Princeton University, Pew Summer Visiting Fellow, Department of Economics, August 1 to August 31, 1987, 1988.

Indiana University, Associate Professor of Economics, August 1979 to May 1984; University Graduate School Status: Full member in Economics, tenured, August 1979.

Indiana University, Visiting Associate Professor of Economics, January 1979 - May 1979.

University of Minnesota, Associate Professor of Economic Education; University Graduate School Status: Full member in Education and Associate member in Economics, tenured, May 1976 - August 1979.

University of Minnesota, Assistant Professor of Economic Education; Associate membership in Education and Economics University Graduate School, non-tenured, May 1973 to 1976.

Federal Deposit Insurance Corporation, Research Fellow, May 1972 - April 1973.  
University of Pittsburgh, Teaching Fellow, Economics, September 1970 - April 1972.

University of Wisconsin, Teaching Assistant, Economics, September 1969 - August 1970.

Kenosha Technical Institute, Mathematics Instructor, September 1967 - August 1969.

### **Administrative and Elected Offices**

President-Elect, Midwest Economic Association, 2004.

Executive Editor, Economic Research Network Educator, November 2002 to present.

Executive Editor, Journal of Economic Education, August 1989 to present.

Member, Editorial Board of the Economics of Education Review, October 1989 to present.

Member, Standing Committee on Economic Education, American Economic Association, July 1989 to present.

Member/chair, nominating committee, Midwest Economic Association, 1999 – 2001.

First Vice-President, Midwest Economic Association, 1999.

Coordinator, Introductory Business and Economics Statistics, Indiana University, August 1996 - December 1997.

Coordinator, Introductory Business and Economics Statistics, Indiana University, August 1989 - May 1993.

Acting Director, Management Information Division, University of Minnesota, September 1988 - August 1989.

Managing Partner, Alter Becker Software, December 1984 - January 1990.

Chairman, Labor Economics Recruiting Committee, Department of Economics, Indiana University, 1984-85, 1986-87, and 1987-88.

Associate Editor for Research, Journal of Economic Education, 1981 - 1989.

Coordinator, Introductory Business and Economics Statistics, Indiana University, January 1979 - December 1987.

Member, Committee on Economic Education, American Economic Association, 1978 - 1981.

Member, Executive Committee and Board of Directors, Joint Council on Economic Education, New York, November 1976 - November 1979.

Secretary-Treasurer, Minnesota Economic Association, 1973 - 1978.

Executive Director, Minnesota State Council on Economic Education, 1973 - 1979.

Director, University of Minnesota Center for Economic Education, May 1973 - Aug 1979.

### **Other Related Work**

Referee for Accounting Forum, American Economic Review, American Journal of Agricultural Economics, Economics of Education Review, Education Economics, Journal of the American Statistical Association, Journal of Economics and Business, Journal of Economic Literature, Journal of Economic Education, Journal of Money, Credit, and Banking, Journal of Economic Perspectives, Journal of Human Resources, Journal of Political Economy, Journal of Risk and Insurance, Review of Higher Education, Review of Industrial Organization and Social and

Economic Studies, and Southern Economic Journal (1974 to present).

Economics/Statistics consultant for U.S. Congressional Advisory Committee on Student Financial Assistance, 2003.

Member, external review committee, Department of Economics, United States Naval Academy, 2000-2001.

Member, external review committee, newly proposed graduate program, Department of Economics, University of Kuwait, 2000.

Member, external review committee, Department of Economics, Wabash College, 2000-2001.

Member, National Bureau of Economic Research Study Group on Higher Education (1995 to present).

Economics/Statistics consultant for Barnes & Thornburg, Indianapolis, IN, on behalf of Aerogo Inc., *et al.*, 2000.

Economics/Statistics consultant for Barnes & Thornburg, Indianapolis, IN, on behalf of BET Plant Service, Inc., *et al.*, 1999-2000.

Consultant and project advisory board member of the Federal Reserve Bank of Minneapolis and Minnesota Public Radio Civic Journalism Initiative on Economic Literacy, 1999.

Economics/Statistics consultant for Barnes & Thornburg, Indianapolis, IN, on behalf of Winona Memorial Hospital, 1999.

Economics/Statistics consultant for Barnes & Thornburg, Indianapolis, IN, on behalf of General Hotels, 1998.

Economics/Statistics consultant for Barnes & Thornburg, Indianapolis, IN, on behalf of Komatsu Forklifts, *et al.*, 1995-96.

External Committee to Review the Department of Economics in the College of LS&A at the University of Michigan, fall 1994.

External Evaluation Team, Department of Economics, Washington State University, spring 1994.

Panelist for the National Science Foundation on education and the work place, December, 1993.

Economics/Statistics consultant to the United States Attorney's Office, on behalf of the U.S., 1993.

Economics/Statistics consultant for Barnes & Thornburg, Indianapolis, IN, on behalf of Ford Motor Corporation, 1993.

Economics/Statistics consultant for Schoone, Fortune & Leuck, on behalf of Meisner in a personnel matter against Oakes, 1993.

Panelist for the National Science Foundation Graduate Research Fellowship Program, 1993.

Evaluation committee member for U.S. Department of Education annual field study proposal review, 1992.

Economics/Statistics consultant to the United States Attorney's Office, on behalf of the U.S. Agency on Alcohol, Tobacco and Firearms, 1992.

Economics/Statistics consultant for Barnes & Thornburg, Indianapolis, IN, on behalf of Nissan Motor Corporation of the U.S.A., 1992.

Economics/Statistics consultant to Wyatt, Tarrant, Combs & Orbison, New Albany, IN, on behalf of Hanover Insurance Company of America, 1992.

Economics/Statistics consultant to Ferguson, Ferguson & Lloyd, Bloomington, IN, on behalf of the Norris family, 1991.

Economics/Statistics consultant and expert witness for Ernest T. Rossiello & Associates, P.C., Chicago, IL, on behalf of American National Bank employees, 1991.

Economics Consultant to Inter-University Center in Economics, University of Indonesia, through a contract with The Ohio State University Research Foundation, sponsored by the World Bank Midwest Universities Consortium for International Activities, 1990.

On-site evaluator of Department of Economics proposed Ph.D. program, Graduate School, University of Delaware, Newark, Delaware, 1991.

Economics/Statistics consultant to the United States Department of Justice on behalf of the United States Air Force (1989 to 1990).

Member, Executive Committee, Princeton University/Joint Council on Economic Education/Pew Memorial Foundation Education Research Project (1986 to 1989).

On-site program evaluator, Graduate School, Memphis State University, Memphis, TN, 1988.

Economics/Statistics consultant for Hill, Fulwider, Mcdowell, Funk & Matthews, Indianapolis, IN, 1988.

Program Consultant, National Science Foundation/Denison University, Granville, OH, 1987 to 1990.

Economics/Statistics consultant and expert courtroom witness for Cohen, Stark and Burchett, Chicago, IL, 1987.

Economics/Statistics consultant and expert courtroom witness for Barnes & Thornburg, Indianapolis, IN, 1987 to 1990.

Economics/Statistics consultant and expert courtroom witness for Cohen, Bullard, Foss, Schuman and Drake, Chicago, IL, 1982-1987.

Economics/Statistics consultant and expert courtroom witness for Dorsey, Windhorst, Hannaford, Whitney & Halladay, Minneapolis, MN, 1980-1982.

Economics consultant and expert courtroom witness for Thomas Barr & Associates, Nashville, IN, 1980.

Economics consultant to College of Education, University of Minnesota, on Faculty Salary Determination (1979 to 1980).

On-site program consultant, Karl Marx University, Budapest, Hungary. 1978.

Economics consultant to Minnesota Bankers Association on Minnesota State Legislation Issues (1977 - 1978).

Consultant to Policy Studies in Education: Department of Education, Research Council of America for "Effectiveness of Economic Education in Secondary Schools" (1975).

Statistics consultant to College of Pharmacy, University of Minnesota and U.S. Drug Enforcement Administration for "Evaluation of the Impact of Drug Control Scheduling" (1974 - 1975).

Member, National Advisory Committee for Test of Economic Literacy (1985).

Consulting Editor, The Social Studies, (1976 - 1984).

Economics consultant to Agency for Instructional Television, for "Trade-Offs" television series (1976 - 1978).

## **PUBLICATIONS**

### **Journal Articles Involving Editorial Referees**

"Economics for a Higher Education," International Review of Economics Education, Forthcoming 2004.

"Changing Incentives and Time Allocations for Academic Economists: Results From 1995 and 2000 National Surveys," with C. Harter and M. Watts Journal of Economic Education, 35(1), Winter 2004: 87-95.

"Undergraduate Choice: Sexy or Non-Sexy," Southern Economic Journal, Vol. 70(1), 2003, pp. 219-223.

"How to Make Economics the Sexy Social Science," Southern Economic Journal, Vol. 70(1), 2003, pp. 195-196, reprinted from The Chronicle of Higher Education, December 7, 2001, pp. B10-B11.

"Teaching Quantitative Methods in Economics: Alternatives to Theorem and Proof and Chalk and Talk," Economic Analysis and Policy, 32(2), September 2002: pp. 159-180.

"Teaching Statistics and Econometrics to Undergraduates," with W. Greene, Journal of Economic Perspectives, Vol 15, 4, Fall 2001: 169-182. Translated into Spanish by Andrea Contreras and reprinted as "Enseñar estadística y econometría a estudiantes de pregrado," Oikos, No. 16, noviembre de 2002: 75-91.

"Student Performance, Attrition, and Class Size Given Missing Student Data," with J. Powers, Economics of Education Review, Vol. 20, August 2001: 377-388.

"Teaching Methods in U.S. Undergraduate Economics Courses," with M. Watts, Journal of Economic Education, Vol. 32, Summer 2001: 269-280.

"Teaching Economics in the 21<sup>st</sup> Century," Journal of Economic Perspectives, Vol. 14, Winter 2000: 109-119.

"The Relationship Between Multiple Choice and Essay Response Questions in Assessing Economics Understanding," with C. Johnston, Economic Record (Economic Society of Australia), Vol. 75, December 1999: 348-357. Recipient of the "Australia Anne Hawke Prize" awarded by the University of South Australia for the best article published in 1999.

"Who Teaches with More than Chalk and Talk?" with C. Harter and M. Watts, Eastern Economic Journal, Vol. 25, 3, Summer 1999: 343-356.

"Turning Merit Scores into Salaries," Journal of Economic Education, (Vol. 30, 4, Fall 1999): 420-26.

"Standards and Testing: Another View," Journal of Economic Education, (Vol. 29, 2, Spring 1998): 183-87.

"The National Research Council Graduate Program Ratings: What Are They Measuring?" with R. Toutkoushian and H. Dundar. The Review of Higher Education. 21(4), 1998: 427-43.

"Teaching Economics to Undergraduates," Journal of Economic Literature, (Vol. 35, Sept 1997): 1347-1373.

"Teaching Methods in Undergraduate Economics," with M. Watts, Economic Inquiry, (Vol. 33, Oct. 1995): 692-700.

"The Measurement and Cost of Removing Unexplained Gender Differences in Faculty Salaries," with R. Toutkoushian, Economics of Education Review, (Vol. 14, No. 3, Sept. 1995): 209-219.

"The Utility of Death and Wrongful Death Compensation," with R. Stout, Journal of Forensic Economics, (Fall 1992): 197-208. Reprinted in Hedonics Primer for Economists and Attorneys. Edited by J. Ward. Tucson, AZ: Lawyers and Judges Publishing (1992): 155-68.

"A Lesson in Least Squares and R Squared," with P. Kennedy, American Statistician, (November, 1992): 282-283. Portions reprinted in Dale Poirier, Intermediate Statistics and Econometrics (Cambridge: MIT Press, 1995), pp. 562-63.

"The Learning Effect of Assessment and Evaluation in High School," with S. Rosen, Economics of Education Review, 11, (June, 1992): 107-118.

"A Graphical Exposition of the Ordered Probit," with P. Kennedy, Econometric Theory, 8, 1992, 127-131.

"The Semilogarithmic Earnings Equation and Its Use in Assessing Salary Discrimination in Academe," with R. Goodman, Economics of Education Review, Vol. 10, No. 4, 1991: 323-33.

"Course Withdrawals: A Probit Model and Policy Recommendations," with J. Adams, Research in Higher Education, 31(6), 1990: 519-538.

"Data Loss From Pretest to Posttest As a Sample Selection Problem," with W. Walstad. Review of Economics and Statistics, 72, (February 1990): 184-188.

"Graphical Interpretation of Probit Coefficients," with D. Waldman. Journal of Economic

Education, (Fall 1989): 371-378.

"Estimating Lost Future Earnings Using the New Worklife Tables: A Reply," with G. Alter. Journal of Risk and Insurance, (September, 1988):545-547.

"Assessing Personnel Practices In Higher Education: A Misleading Note of Caution." Economics of Education Review, Vol. 7, No.4, 1988: 445-449.

"The Probabilities of Life and Work Force Status in the Calculation of Expected Earnings," with G. Alter. Journal of Risk and Insurance, 54, (June, 1987): 364-375.

"Assessing Personnel Practices in Higher Education: A Case Study in the Hiring of Females," with A. Williams, Economics of Education Review, Vol. 5, No. 3, 1986: 265-272.

"Estimating Lost Future Earnings Using the New Worklife Tables," with G. Alter. Monthly Labor Review, (February, 1985): 39-42.

"A Misrepresentation of Econometric and Educational Research," with W. Walstad. Educational Researcher, (November, 1984): 23-25.

"Economic Education Research: Part III, Statistical Estimation Methods." Journal of Economic Education, 14 (Summer, 1983): 4-15.

"Economic Education Research: Part II, New Directions in Theoretical Model Building." Journal of Economic Education, 14 (Spring, 1983): 4-10. Reprinted with modification as "Building Theoretical Models." In Econometric Modeling in Economic Education Research, pp. 19-26. Edited by W. Becker and W. Walstad. Boston: Kluwer-Nijhoff Publishing, 1987.

"Economic Education Research: Part I, Issues and Questions." Journal of Economic Education, 14 (Winter, 1983): 10-17.

"An Economic Model of Training in an Industrial Setting." Journal of Instructional Development, with R. Davis, 6 (Winter, 1983): 27-32.

"Behavior and Productivity: Implications of Institutional and Project Funding of Research." American Journal of Agricultural Economics, 64 (August, 1982): 595-598.

"The Educational Process and Student Achievement Given Uncertainty in Measurement." American Economic Review 72 (March, 1982): 229-236.

"Professorial Behavior Given a Stochastic Reward Structure," American Economic Review 69 (December, 1979): 1010-1017.

"The Learning and Cost Effectiveness of AVT Supplemented Instruction: Specification of Learning Models," with M. Salemi. Journal of Economic Education 8 (Spring, 1977): 77-92. Reprinted as "The Learning and Cost Effectiveness of AVT Supplemented Instruction: Specification of Learning Models." In Research on Teaching College Economics Selected Readings, pp. 202-217. Edited by R. Fels and J. Siegfried. New York: Joint Council on Economic Education, 1982.

"Programmed Instruction in Large-Lecture Courses: A Technical Comment." Journal of Economic Education 8 (Fall 1976): 38-40.

"What Economics Should the Educator Know?" with R. Reinke. Social Studies 66 (Sept./ Oct.,

1975): 195-204. Reprinted with modifications as "What Vocational Educators Should Know About Economics." In Vocational Education and the Nation's Economy, pp. 195-210. Edited by Warren Meyer. Washington, DC: American Vocational Association, 1977.

"A Theoretical and Statistical Analysis of the Determinants of the Currency-Demand Deposit Ratio for the U S, 1952 to 1971," Abstract, Journal of Finance 30 (September, 1975): 1144. "An Evaluation of a Developmental Economic Education Project Given Limited Data," with J. Helmerger and J. Thompson. Journal of Economic Education 6 (Spring, 1975): 120-125.

"Determinants of the United States Currency-Demand Deposit Ratio," Journal of Finance 30 (March, 1975): 57-74. Abstracted in Journal of Economic Literature (September, 1975).

"The University Professor as a Utility Maximizer and Producer of Learning, Research, and Income." Journal of Human Resources, 10, (Winter, 1975): 107-115. Abstracted in Journal of Economic Literature (September, 1975). Reprinted in The International Library of Critical Writings in Economics: The Economics of Higher Education Mark Blaug, Clive Belfield and Henry Levin (Eds), Cheltenham, UK: Edward Elgar Publishing. Forthcoming 2004.

### **Proceedings and Commissioned Journal Articles**

"Omitted Variables and Sample Selection Problems in Studies of College-Going Decisions," Public Policy and College Access: New Directions in Research on the Effects Federal and State Policy, Edward St. John (ed),. Readings on Equal Education, Volume 19. New York: AMS Press. Forthcoming.

"The Instructional Use and Teaching Preparation of Graduate Students in U.S. Ph.D.-Granting Economics Departments, " With W. Walstad, American Economic Review, 93(2), May 2003: 449-454.

"Measuring Gender Bias in the Salaries of Tenured Faculty Members," With R. Toutkoushian in R. Toutkoushian (ed.), Unresolved Issues in Salary Equity Studies, New Directions for Institutional Research, number 117, San Francisco: Jossey-Bass, 2003: 5-20.

"The Next Big Thing: The Cutting Edge in Economics," The Chronicle of Higher Education, September 20, 2002: p. B6.

"Economic Education," in N. J. Smelser and Paul B. Baltes (Eds) International Encyclopedia of the Social & Behavioral Sciences. Pergamon, Oxford, 2001: 4078-4084.

"How to Make Economics the Sexy Social Science," The Chronicle of Higher Education December 7, 2001: B10-B12.

"Teaching Economics at the Start of the 21<sup>st</sup> Century: Still Chalk and Talk," with M. Watts, American Economic Review, Vol 91, May 2001: 446-451.

"Online Teaching Resources," with K. Sosin. Journal of Economic Education, Vol. 31, Winter 2000: 3-8.

"Technology and the Teaching of Economics to Undergraduates," with A. Katz, Journal of Economic Education (Vol. 30, 3, Summer 1999): 194-199.

"How Departments of Economics Evaluate Teaching," with M. Watts, American Economic Review Papers and Proceedings (Vol.89, 2, May 1999): 344-349.

"Engaging Students in Quantitative Analysis with Short Case Examples from the Academic and Popular Press," American Economic Review Papers and Proceedings, May 1998, 88(2), pp. 480-487. Expanded version with full examples appeared as "Engaging Students in Quantitative Analysis with the Academic and Popular Press," in W. Becker and M. Watts (Eds), Teaching Economics to Undergraduates: Alternatives to Chalk and Talk, Cheltenham UK: Edward Elgar Publishing, LTD, 1998, pp. 241-267.

"Economics, Education and Economists: A View from the United States," Australian Economic Papers (September 1997): pp. 5 - 17.

"Full-Fee Students: Are We Having a Lend?" with Jonathan Pincus, Campus Review (July 2 - 8, 1997): p. 14.

"Chalk and Talk: A National Survey of Teaching Undergraduate Economics," with M. Watts, American Economic Review (May 1996): 448-454.

"Achievement Differences on Multiple Choice and Essay Tests in Economics," with W. Walstad, American Economic Review, (May 1994): 193-197.

"What Works and What Doesn't: A Practitioner's Guide to Research Findings in Economic Education," With K. Hallows, International Journal of Social Education, Vol 8, No. 3, (Winter 1993-94): 87-93.

"Twenty-Five Years of Scholarship," Journal of Economic Education (Winter 1994): 3-4.

"An Agenda for Economic Education Research In Colleges and Universities," with P. Kennedy, R. Highsmith and W. Walstad, American Economic Review (May, 1991): 26-30, and an expanded version in Journal of Economic Education (Summer 1991): 241-250.

"Research on High School Economic Education," with W. Greene and S. Rosen, American Economic Review (May 1990): 14-23, and an expanded version in Journal of Economic Education (Summer 1990): 231-253.

"Teaching Statistical Methods to Undergraduate Economics Students," American Economic Review (May 1987): 18-24.

"Measurement or Finding Things Out in Economics: A Comment," Journal of Economic Education, (Spring 1987): 208-212.

"Pooled Cross Sectional and Time Series Evaluation: Source, Result and Correction of Serially Correlated Errors," with M. Morey. American Economic Review 70 (May, 1980): 35-40.

"Faculty Productivity and the Use of Rewards in Higher Education," with D. Lewis. Improving University Teaching: Proceedings of Fifth International Conference. University of Maryland Press. 1979, pp. 1522-1531. Reprinted with modifications as "Adaptability to Change and Academic Productivity." In Academic Rewards in Higher Education, pp. 298- 312. Edited by D. Lewis and W. Becker. Cambridge: Ballinger Publishing Company, 1979.

"The Effectiveness of Regulation Q and the Implicit Rate of Return on Demand, Saving and Time Deposits," Journal of the Midwest Finance Association (1976): 41-54. Reprinted with modifications as "Regulation Q and the Effective Rate of Return," Commercial West (July 24, 1976): 6-12.

"The Teacher Training Program for New Ph.D.'s," with D. Lewis. American Economic Review 66 (May, 1976): 229-233. Reprinted with modifications as "Teacher Training in the Graduate Education of Economists." In Improving University Teaching: Proceedings of Second International Conference, pp. C112-C121. Edited by T. B. Massey. Heidelberg, Germany: University of Maryland, 1976.

## **Books**

The Scholarship of Teaching and Learning in Higher Education: Contributions of the Research Universities. Edited with Moya Andrews, Indiana University Press, Forthcoming 2004. (12 Chapters)

Incentive Based Budgeting Systems in Public Universities, Edited with D. Priest, D. Hossler and E. St. John. Cheltenham, UK: Edward Elgar Publishing, LTD, 2002. 11 Chapters, 250 pages.

Teaching Economics to Undergraduates: Alternatives to Chalk and Talk, Edited with Michael Watts, Cheltenham UK: Edward Elgar Publishing, LTD, 1998. 12 Chapters, 274 pages. Reprinted as a soft cover edition, 1999, with second printing in 2000. Reviewed by Craig Swan, Journal of Economic Education, (Summer 1999), 30(3): 427-28; Richard Torz, Eastern Economics Journal (Summer 2000), 26(3): 374-75; Bernard Saffran, Journal of Economic Perspectives, (Winter 2000), 14(1): 217.

Statistics for Business and Economics Using Microsoft Excel 97, S.R.B. Publishing, 1997, 14 chapters, 571 pages.

Assessing Educational Practices: The Contribution of Economics. Coedited with William Baumol. MIT Press, Cambridge MA, 1995. 9 chapters, 283 pages. Reviewed by Anna J. Schwartz as "Recommended Reading," Phi Beta Kappa The Key Reporter 61(4), 1996, p. 12. George Psacharopoulos called it "a very welcome addition to the libraries of practitioners," Finance and Development, 33(4), December 1996, p. 52. Dan Goldhaber said it was "a good choice as a text for courses in the economics of education," Industrial and Labor Relations Review, 50(3), April 97. Although its intended audience is noneconomists, Cynthia Benzing said that it provides an "excellent starting point for any economist newly interested in this area," Eastern Economics Journal, 23(3), Summer 1997. Princeton University's Industrial Relations Section selected our book for its 1996 distinguished list of "Noteworthy Books in Industrial Relations and Labor Economics."

Statistics for Business and Economics, Cincinnati: South-Western Publishing an International Thomson Publishing Company, 1995, 18 chapters, 945 pages.

American Higher Education and Economic Growth, edited with D. Lewis. The Netherlands: Kluwer, 1993, 8 chapters, 182 pages. Reviewed by J.R. Hough, Economics of Education Review, 15(1), 1996: 91-2; J. Siegfried, Industrial and Labor Relations Review, 47(3), 1994: 523-5; M. Woodhall, Studies in Higher Education, 19(1), 1994: 113-15.

The Economics of American Higher Education, edited with D. Lewis. The Netherlands: Kluwer Academic Press, 1992, 12 chapters, 349 pages. (Translated into Arabic by Anwar G. Al-saud,

University of Jordan, 1994.) Reviewed in Studies in Higher Education, 18(2), 1993: 245-46; Journal of Economic Education 24(2):188-92; Southern Economic Journal , 59(4), 1993: 852-54; Journal of Higher Education, 65(1), 1994: 116-18; Australian Journal of Education, 36(3), 1992: 333-34.

Econometric Modeling in Economic Education Research, edited with W. Walstad. Boston: Kluwer-Nijhoff Publishing, 1987, 255 pages. Reviewed in Journal of Economic Education, Vol 20, No 2, 1989, pp. 223-27; Kyklos, Vol 40, No 3, 1987, pp. 415-16.

Business and Economics Statistics with Computer Applications, with D. Harnett. Reading: Addison-Wesley Publishing, 1987, 739 pages. Reviewed in Journal of Business and Economic Statistics, Vol 6, No 2, 1988, pp. 283-86.

Academic Rewards in Higher Education, edited with D. Lewis. Cambridge: Ballinger Publishing Company, 1979, 341 pages. Reviewed in Journal of Higher Education (September/October, 1981), Industrial and Labor Relations Review (October, 1980), Journal of Economic Literature (September, 1980) and Educational Researcher (April, 1981).

### Chapters in Books Edited by Others

"Economic Education," in N. J. Smelser and Paul B. Baltes (Eds) International Encyclopedia of the Social & Behavioral Sciences. Pergamon, Oxford, 2001: 4078-4084.

"The Role of Education and Training in Economic Development" in Education and the Arab World: Challenges of the Next Millennium, Jamal S. Al-Suwaidi (ed). United Arab Emirates Centre for Strategic Studies and Research, Chapter 1, 1999: 23-50. Published both in an Arabic and an English translation volume.

"The Role of Mathematics and Statistics in the Teaching of Economics." In Teaching Undergraduate Economics: A Handbook for Instructors, Edited by W. Walstad and P. Saunders. New York: McGraw-Hill, 1998, pp. 127 - 140.

"Different Fees for Degree Courses in Australian Universities: Commentary," in Funding Higher Education: Performance and Diversity, Edited by P. W. Miller and J. J. Pincus. Canberra: AGPS, 1997, pp. 63-69.

"Economic Issues from the Perspective of Economists, Economic Educators, Teachers, and Journalists," with W. Walstad and M. Watts. In Secondary Economics and Business Education, pp. 253-67. Edited by W. Walstad. London: The Economics and Business Education Association, 1996.

"Comparison of Views of Economists, Educators, and Journalists on Economic Issues," with W. Walstad and M. Watts. In An International Perspective on Economics Education, pp.65-87. Edited by W. Walstad. The Netherlands: Kluwer Press, 1994.

"Research on High School Economic Education in the United States: Further Considerations," with W. Greene and S. Rosen. In An International Perspective on Economics Education, pp. 89-108. Edited by W. Walstad. The Netherlands: Kluwer Press, 1994.

"Foreword." pp. v-vi, In Working & Schooling Decisions, by K. Yasuda. Concord: New Hampshire Department of Employment Security, 1990.

"The Demand For Higher Education." In The Economics of American Universities, pp. 155-188. Edited by S. Hoenack and E. Collins. NY: State University of New York Press, 1990.

"The Use of Mathematics and Statistics in the Teaching of Economics." In The Principles of Economics: A Handbook for Instructors, pp. 180-189. Edited by P. Saunders and W. Walstad. New York: McGraw-Hill, 1990.

"In Search of Economic Ideals and Policies," with D. Van Hoose. In Social Studies and Social Sciences: A Fifty-year Perspective, pp. 85-96. Edited by Stanley Wronski and Donald Bragaw. Washington DC: National Council for the Social Studies, 1986.

"Maintaining Faculty Vitality Through Collective Bargaining." In Faculty Vitality in American Higher Education, pp. 198-223. Edited by S. Clark and D. Lewis. New York: Columbia University Teachers College Press, 1985

"Evaluating Student Learning in Economics: An Investment-Good and Consumer-Good Rationale," with W. Walstad. In Economic Education: Links to the Social Studies, pp. 53-65. Edited by S. Symmes. Washington DC: National Council for the Social Studies, 1981.

"The Rationale and Impact of Corporate Giving to Universities: Advancing Free Enterprise." In Subsidies To Higher Education: The Issues, pp. 250-261. Edited by Howard Tuckman and Edward Whalen. New York: Praeger Publishers, Inc., 1980.

"Investment in Human Capital." In Vocational Education and the Nation's Economy, pp. 59-76. Edited by Warren Meyer. Washington, DC: American Vocational Association, 1977.

"Teacher Resource Guide for Social Organization in Shantung Compound," with R. Reinke. In Economic Education Experiences of Enterprising Teachers 14: pp. 86-89. New York: Joint Council on Economic Education, 1977.

"A Student Oriented Real Problem Solving Approach in Economics," with C. Swan. In Goals and Objectives of the Introductory Course in Economics, pp. 19-25. Edited by A. Nappi and A. Larsen. Minneapolis: Ninth Federal Reserve District, 1976.

## **Monographs**

Student Solutions Manual with Practice Tests to Accompany Statistics for Business and Economics Using Microsoft Excel 97, S.R.B. Publishing, 1997, 14 chapters, 174 pages.

Instructor Solutions Manual with Practice Tests to Accompany Statistics for Business and Economics Using Microsoft Excel 97, S.R.B. Publishing, 1997, 14 chapters, 281 pages.

Test Bank for William E. Becker's Statistics for Business and Economics, with J. Brannon and B. Peterson, Cincinnati: South-Western Publishing, 1995.

Instructor Solution Manual for William E. Becker's Statistics for Business and Economics, with C. Chung, Cincinnati: South-Western Publishing, 1995.

Student Solution Manual for William E. Becker's Statistics for Business and Economics, with C. Chung, Cincinnati: South-Western Publishing, 1995.

Student Problem Guidebook to Accompany Business and Economics Statistics, with C. Melfi. Reading: Addison-Wesley Publishing Company, 1987.

Test Bank for Business and Economics Statistics, with C. Melfi. Reading: Addison-Wesley Publishing Company, 1987.

Instructor's Manual for Business and Economics Statistics, with D. Harnett. Reading: Addison-Wesley Publishing Company, 1987.

Test Bank for Statistical Analysis for Business and Economics. Reading: Addison-Wesley Publishing Company, 1985.

Does Minnesota Need a Local Government Pooled Investment Fund? Minneapolis: Minnesota Bankers Association, 1978.

A Training System for Graduate Student Instructors in Economics, edited with D. Lewis and others. Minneapolis: University of Minnesota Center for Educational Development, 1975. Parts reprinted with modification as "Development and Evaluation of Teaching Skills through the Use of Video Tapes." In Resource Manual for Teacher Training Programs in Economics, pp. 269-282. Edited by Phillip Saunders, Arthur Welsh, and W. Lee Hansen. New York: Joint Council on Economic Education and The American Economic Association, 1978. Abstract published as "A Training System for Graduate Student Instructors in Economics," with D. Lewis, Development and Experiment in College Teaching, 1976.

Educational Games and Simulations in Economics, with D. Lewis, R. Reinke and D. Wentworth. New York: Joint Council on Economic Education, 1974, 144 pages.

A Complement to Choice. New Jersey: Prentice-Hall, Inc., 1971, 146 pages.

## **Book Reviews**

"The Student Aid Game: Meeting and Rewarding Talent" (Princeton University Press, 1998) in Economics of Education Review, vol. 19, no. 3, June 2000: pp. 301-302.

"Information Rules" (Harvard Business School Press, 1999), in Journal of Economic Education Vol. 30, Spring 1999: pp. 189-190.

"A Guide To Econometrics" (MIT Press, 1988), in Journal of Economic Education, Vol 30, Winter 1999, pp. 89-90.

"Paying the Piper: Productivity, Incentives, and Financing in U.S. Higher Education" Economics of Education Review Vol 15, No 4, 1996, pp. 445-446.

"Studies of Supply and Demand in Higher Education." Economics of Education Review, Vol 14, No 1, 1995, 93-94.

"A Dictionary of Finance." Journal of Economic Education Vol. 25, No. 1, 1994, 90--91.

"Educating Economists." Journal of Economic Education Vol. 23, No. 4, 1992, 380-383.

"Game Theory and Economic Modelling." Journal of Economic Education Vol. 23, No. 2, 1992, 189-191.

"Financing Higher Education: A Review." Economics of Education Review Vol. 4, No. 2, 1985, 153-155.

"Three Introductory Business and Economics Statistics Books: A Review." Journal of the American Statistical Association (September, 1984):

"Monetary Theory and the Demand for Money: A Review." Journal of Economic Literature XVII (September, 1979): 1048-1049.

"Publication, Teaching and the Academic Reward Structure: A Review." Journal of Economic Literature XVI (March, 1978): 150-152.

## **HONORS, FELLOWSHIPS AND AWARDS**

2003 Bower Award, from the National Council on Economic Education, for a scholar whose contributions to economic education have been exemplary.

Recognized in Blaug and Vane, Who's Who in Economics (Cheltenham, UK: Edward Elgar Publish, 4th edition, 2003) as one of 1,200 most often cited and influential economists in the world.

"Australia Anne Hawke Prize" awarded in 2000 to W. E. Becker for the best article published in 1999 by a University of South Australia faculty member, for "The Relationship between Multiple Choice and Essay Questions in Assessing Economics Understanding" Co-authored with Carol Johnston, *Economic Record* (Economic Society of Australia), December 1999: 348-357.

Indiana University Teaching Recognition Award, 1997 and 1998.

Indiana University Teaching Excellence Recognition Award, April 1997.

Kentucky Economics Association Distinguished Speaker Award, 1990.

The Henry H. Villard Research Award, presented by the National Association of Economic Educators and the Joint Council on Economic Education, 1987.

Minnesota State Council on Economic Education Service Award, 1979.

International Paper Company Foundation Award for Teaching Economics, 1976.

Omicron Delta Epsilon; Honor Society in Economics, 1973.

American Bankers Association Harold Stonier Fellowship in Banking, 1972-73.

Federal Deposit Insurance Corporation Research Fellowship, 1972 to 1973.

Federal Reserve Bank of Cleveland Dissertation Fellowship, 1972 to 1973.

National Science Foundation Traineeship, 1971.

Two-Year Scholarship, College of St. Thomas, 1963 to 1965.

## **GRANTS FOR RESEARCH AND CURRICULUM DEVELOPMENT**

Journal of Economic Education, Editorial supplement, National Council on Economic Education, since 1989, currently \$20,000 per year, and Helen Dwight Reid Educational Foundation, since 1994, currently \$5,500 per year.

What Does the Quantitative Research Say about Teaching? Scholarship of Teaching and Learning Grant, Indiana University, 2000, \$1,500.

Advancing the Integration of New Technologies in the Teaching of Economics, co-principal investigator with A. Katz. National Science Foundation (DUE 9653421), \$55,286, 1997-99.

Mathematics Throughout the Curriculum, National Science Foundation (DUE 955408), sub part for Statistics for Business and Economics, 1997 to 1999.

"Teaching Undergraduate Economics: Alternatives to Chalk and Talk" with M. Watts, Kazanjian Foundation, \$7,000, 1996-98.

"Assessing Educational Practices: The Contribution of Economics," co-principal investigator with W. Baumol, Russell Sage Foundation, \$17,600, 1991 - 1994.

"U.S. Higher Education and Economic Growth," co-director with D. Lewis, Humphrey Institute and College of Education, University of Minnesota, \$6,000, 1989.

"A Literature Search and Data Base Analysis of High School Student Preparation and Post High School Plans," co-principal investigator with W. Walstad, the National Science Foundation, \$27,700, 1988 - 1990.

"Econometrics," prospectus development grant, D C Heath Publishing, \$2,000, 1987.

"The Demand for Higher Education," author and investigator, contracted by the National Science Foundation, \$3,000, 1986.

"Econometric Modeling in Economic Education Research," coauthor and director with W. Walstad, Joint Council on Economic Education, \$12,000, 1984 to 1986.

"Statistical Interpretation of Business and Economic Data," authored and directed with D. Harnett. Addison-Wesley Publishing Company, \$5,000, 1984.

"Interactive Information Processing System," principle investigator, the National Science Foundation, \$30,000, 1981 to 1984.

"Twin Cities Market Penetration," author/director, St. Paul Foundation, \$13,000, 1979.

Trade-Off Workshop Series, author and director, funded by Burlington Northern; The Donaldson Company, Minnesota Mining and Manufacturing; The First Bank System; The Pillsbury Co.; and The St. Paul Companies, \$24,000, 1979.

"A Proposal for Preparing a Comprehensive Evaluation Design for Measuring the Input of JCEE Efforts," one year research project, coauthored with Jack Soper, funded by Joint Council on Economic Education, \$15,000, 1977 to 1978.

Developing Economics-Business Based Case Studies for Classroom Use: A Minneapolis Public



"Omitted Variables and Sample Selection Problems in Studies of the College-Going Decision," Mini-Conference on Evaluation Methods and Practices Appropriate for Faith-Based and Other Providers of Social Service, Indiana University, Bloomington IN, October 3, 2003.

"Updating What is Taught in Tertiary Economics," Keynote Address Second Biennial Developments in Economics and Business Education, Heriot-Watt University Edinburgh Scotland, September 16, 2003.

"Undergraduate Choice – Sexy or NonSexy?" Keynote Address Tenth Annual Teaching Conference Auckland University of Technology, Auckland New Zealand, July 1, 2003

"Quantitative Research on Teaching Methods in Tertiary Education," University of South Australia, Adelaide Australia, July 31, 2003.

"Omitted Variables and Sample Selection Issues in the NCES Research on Financial Aid and College Participation," Macalester College, St Paul, Minnesota, June 12, 2003

"A Critique of Quantitative Research on Teaching Methods in Tertiary Education." Keynote Address Second Conference for the Teaching of Economics, University of Evora, Evora Portugal, February 20, 2003.

"Teaching Quantitative Methods in Economics: Alternatives to Theorem and Proofs and Chalk and Talk." Keynote Address Second Conference for the Teaching of Economics, University of Evora, Evora Portugal, February 21, 2003.

"Teaching Preparation in Graduate Economics Programs: A Survey of Economics Departments" (with William Walstad) American Economic Association, Washington DC, January 3, 2003.

"Making Economics the Sexy Social Science," Southern Economic Association, New Orleans, November 25, 2002.

"Teaching Advanced Economics Students: But Again It's John Nash Confronts Adam Smith," Centro de Investigacion y Docencia Economicas, Carretera Mexico, November 22, 2002.

"Teaching Economic Principles: John Nash Confronts Adam Smith," Centro de Investigacion y Docencia Economicas, Carretera Mexico, November 21, 2002.

"Economists' Views on Teaching: How Teaching Influences Research," Flinders University, Adelaide Australia, August 15, 2002.

"Teaching Quantitative Methods in Economics: Alternatives to Theorem and Proof and Chalk and Talk," Keynote Address, Conference on Teaching Economics, University of Queensland, Brisbane Australia, July 3, 2002.

"Teaching Quantitative Methods in Economics: Alternatives to Theorem and Proof and Chalk and Talk," Keynote Address, Conference on Teaching Economics in Latin America, Centro de Investigacion y Docencia Economicas (CIDE, Center for Research and Teaching of Economics) Mexico City, March 14, 2002.

"Using Active Learning Techniques in Economics" The University of The South, Sewanee TN, December 7, 2001.

"The Scholarship of Teaching and Learning in Economics" Illinois State University  
Normal, IL November 15, 2001

"Student Performance, Attrition, and Class Size Given Missing Data," Illinois State University  
Normal, IL November 15, 2001

"What Does the Quantitative Research Really Show?" Scholarship of Teaching and Learning  
Colloquium, Indiana University – Bloomington, March 2, 2001.

"Teaching Statistics and Econometrics to Undergraduates" American Economic Association Annual  
meetings, New Orleans, January 6, 2001.

"A National Survey of Teaching Methods in Advance Placement Economics Courses," American  
Economic Association Annual meetings, New Orleans, January 6, 2001.

"A Second National Survey of Teaching Economics to Undergraduates" American Economic  
Association Annual meetings, New Orleans, January 5, 2001.

"Student Performance, Attrition, and Class Size Given Missing Data," Department of Economics,  
University of Canterbury, Christchurch, New Zealand, December 8, 2000.

"Student Performance, Attrition, and Class Size Given Missing Data," International School of  
Business, University of South Australia, Adelaide, Australia, November 8, 2000.

"Peer Effects with Random Assignment: Results for Dartmouth Roommates: Comment," National  
Bureau of Economic Research, Harvard University, Cambridge, Massachusetts, May 5, 2000.

"Who Teaches with More than Chalk and Talk?" Midwest Economic Association, Chicago, Illinois,  
March 31, 2000.

"Estimation in Real Situations: Discussant Comments" Teaching Undergraduate Econometrics: Does  
Monte Carlo Work? Middlebury College, Vermont, November 6, 1999.

"Measuring Gender Bias in the Salaries of Tenured Faculty Members," Higher Education Group,  
National Bureau of Economic Research, Cambridge, Massachusetts, October 29, 1999.

"Scholarship of Teaching Economics: Methods and Assessment," University of Melbourne, Parkside  
Australia, August 5, 1999.

"Alternatives to Chalk and Talk," Northeastern University, Boston, May 3, 1999.

"How Departments of Economics Evaluate Teaching," American Economic Association meetings,  
New York, January 3, 1999.

"Issues in the Public Support of Higher Education: Discussant Comments," Higher Education Group,  
National Bureau of Economic Research, Cambridge, Massachusetts, December 11, 1998.

"Teaching Economics to Undergraduates: Practices and Assessment," Keynote Speaker, Stanford  
Institute for Economic Policy Research, Stanford University, Conference on Innovative Techniques for  
Teaching Principles of Economics, Palo Alto California, December 4, 1998.

"Publishing Opportunities in the Journal of Economic Education," Annual Meeting of the Decision

Science Institute, Las Vegas, Nevada, November 22, 1998.

“Publishing in Economic Education” National Council on Economic Education and National Association of Economic Educators Annual meeting, Washington, D.C., October 15, 1998.

“Teaching Economics to Undergraduates” Keynote Address, La enseñanza de la economía del siglo XXI, 40 años de la Facultad de Economía de la Universidad Autónoma de Nuevo León, Monterrey, N.L., Mexico, September 10, 1998.

“Teaching Economics to Undergraduates” Featured Speaker, Thammasat University, Bangkok, Thailand, August 17, 1998.

“The Role of Education and Training in Economic Development,” Glenelg Rotary, Adelaide, Australia, August 12, 1998.

“Engaging Students in Quantitative Analysis Using the Academic and Popular Press,” University of Adelaide, Adelaide Australia, June 18, 1998.

“Technology and the Teaching of Economics to Undergraduates: What is Our Next Step” Closing presentation at the NSF supported conference on Advancing the Integration of New Technologies in the Undergraduate Teaching of Economics, University of Pittsburgh, Pittsburgh PA, May 30, 1998.

“The Role of Education and Training in Economic Development,” conference on Challenges of the Next Millennium: Education and the Development of Human Resources, the Emirates Centre for Strategic Studies and Research, Abu Dhabi, United Arab Emirates, May 24, 1998.

“Teaching Regression Using the News Media” Midwest Economic Association, 62<sup>nd</sup> Annual Meeting, Chicago, IL, March 19, 1998.

“Academic Economists: Researchers, Teachers or Preachers?” Conference on Teaching Economics: Instruction and Classroom Based Research, Robert Morris College, Pittsburgh PA, February 20, 1998.