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Dr. Gary W. Phillips. Ph D
Vice President & Chief Scientist
American Institutes for Research
Washington, D.C. 20007-3835
(202) 403 – 6916
gwphillips@air.org
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Current Position

Vice President & Chief Scientist, American Institutes for Research – Directs a team of psychometricians and statisticians on large scale assessment projects. These projects include state assessments and state alternate assessments, *National Assessment of Educational Progress (NAEP)*, *Trends in International Mathematics and Science Study (TIMSS)*, *Progress in International Reading Literacy Study (PIRLS)*, *Program for International Student Assessment (PISA)* and *National Assessment of Adult Literacy (NAAL)*. Dr. Phillips has recently published several reports that involve statistically linking NAEP to TIMSS. The first report compared U.S. state-NAEP results to TIMSS in math and science (*Chance Favors the Prepared Mind*, 2007), the second compared U.S. School District results to TIMSS (*Counting on the Future*, 2008) and the newest report compared states and school district to TIMSS using letter grades (*The Second Derivative: International Benchmarks in Mathematics for U.S. States and School Districts*, 2009). Prior to that Dr. Phillips was the Acting Commissioner at the National Center for Education Statistics.

Dr. Phillips also provides senior-level guidance on statistical and psychometric procedures used through out AIR. Dr. Phillips has a doctorate degree and many years of experience applying procedures related to item response theory, equating, statistical linking, classical test theory, differential item functioning, standard setting, reliability, validity, generalizability, item banking, distributional projections, value-added modeling, hierarchical linear modeling, structural equation modeling, and estimation of statistical power for clustered data. He has published or presented over 200 papers, taught dozens of advanced graduate level statistics courses, and presented hundreds of workshops on advanced statistical and psychometric topics. Dr. Phillips is nationally and internationally known for his expertise in large-scale assessments and complex surveys. He has presented at many national press conferences, conducted press interviews, and Congressional hearings. His main research interest is, on the one hand, the use of advanced statistical analyses to address difficult research questions, and on the other hand, providing clear communication to policy makers in order to help them make better evidence-based decisions.

Education

Ph.D. University of Kentucky: (Emphasis in Applied Statistics and Psychometrics, 1983)
M.A. Marshall University Graduate College: (School Psychology, 1977)
B.A. West Virginia State College: (Psychology-Philosophy, 1971)

Professional Experience

2003-Present: *Vice President & Chief Scientist*, American Institutes for Research, Washington, DC.

1999- 2002: *Acting Commissioner*, National Center for Education Statistics, U.S. Dept. of Education.

1998-1999: *Deputy Commissioner*, National Center for Education Statistics, U.S. Dept. of Education.

1991-1997: *Associate Commissioner*, Education Assessment Division, National Center for Education Statistics, U.S. Dept. of Education.

1986-1990: *Branch Chief*, Education Assessment Branch, U.S. Department of Education. Responsible for the National Assessment of Educational Progress (NAEP), and Trends in International Mathematics and Science Study (TIMSS).

1980-1986: *Branch Chief*, Research and Evaluation Branch, Maryland State Department of Education.

1977-1983: *Adjunct Instructor* at West Virginia State College, West Virginia College of Graduate Studies, University of Kentucky, University of Maryland.

1976-1977: *School Psychologist*, Regional Education Service Agency (RESA).

1971-1975: *Social Worker*, Kanawha County Department of Welfare, Charleston West Virginia.

Teaching Experience

Department of Educational Research, University of Maryland

Analysis of Variance and Research Design (4 semesters)

Applications of Item Response Theory Models (2 semesters)

Department of Educational Psychology and Counseling, University of Kentucky

Regression and Factor Analysis (2 semesters)

Research Design and Analysis of Variance (4 semesters)

Research Methods (2 semesters)

Structural Equations (LISREL) and Path Analysis (2 semesters)

Tests and Measurement (2 semesters)

Department of Psychology, West Virginia College of Graduate Studies

Elementary Statistics (4 semesters)

General Psychology (8 semesters)

Intermediate Statistics (8 semesters)

BASIC Computer Programming (2 semesters)

Consultations

1995-1999: Prince George's County Public Schools - Hierarchical Linear Analysis as part of a school effectiveness evaluation. Contact Person - Eugene Adcock.

1989: Anne Arundel County Public Schools. Scanned and produced item response tapes for 5067 (12-page) California Achievement Test booklets, Level 13C. Contact Person - Dr. Adam Milam.

1989: Albuquerque School District - Wrote proposal on how school district can comply with State mandated curriculum objectives. Contact Person - Dr. Sandra O'Neal.

1989: Albuquerque School District - Rasch analyses of two alternate test forms.

1989: Albuquerque School District - Item/objective congruence study for all subjects and grades in Albuquerque. Contact Person - Dr. Carol Robinson.

1988: CTB/McGraw-Hill. Replicated a previous equating study involving 12 grades and 30 equipercentile and linear equatings of CTBS/S and CAT/E for the Cleveland Public School System. Contact person - Dr. Robert Sykes.

1988: Albuquerque School District - Content item review for proficiency tests in biology, algebra, English, and U.S. History. Also calibrated and equated items on a common scale. Contact person - Dr. Carol Robinson.

1987: Workshop on Item Response Theory Models and item banking for the Tennessee State Testing and Evaluation Center. Contact person - Dr. Sara Strouss.

1987: Maryland State Department of Education. Psychometric consultation on equating procedures for the Maryland Functional writing test. Contact person - Dr. Steven Ferraro.

1987: CTB/McGraw-Hill. Conducted Item Response Theory Bias analyses on the CTBS/S and CAT/E for the Cleveland Public School System. Contact person - Dr. Robert Sykes.

1987: CTB/McGraw-Hill. Conducted 30 equipercentile and linear equatings for 12 grades of the CTBS/S and CAT/E for the Cleveland Public School System.

1987: Clay County, Florida. Designed analyzed and wrote report on Gallup Poll Survey. Contact person - Dr. Joan Barralotto.

1987: Albuquerque School District. Calibrated and equated items on proficiency tests in biology, algebra, English, and U.S. History. Contact person - Dr. Carol Robinson.

1986: Workshop on the use of Rasch models in Criterion Referenced Testing for the Fairfax School System, Virginia. Contact person - Dr. Gary Skaggs.

1986: CTB/McGraw Hill. Performed item bias analysis for pilot math tests used in the Cleveland Public School System. Contact person - Dr. Robert Sykes.

1986: Tennessee State Testing and Evaluation Center. Calibrated and equated items on basic skills testing program, set up item banks, examined items for sex and ethnic bias, and produced

camera ready copy of test booklets. Over 10,000 items were processed for 1,000,000 students in grades 1, 2, 3, 6, and 8, in reading and math tests for a period of four years. Contact person - Dr. Sara Strouss.

1985: Washington, D.C. Public School District. Equipercentile equating of old version of CTBS to new version of CTBS, CAT and SAT. Contact person - Dr. Valeria Ford.

1985: Richardson Independent School District, Texas. Calibrating, equating and item banking for math, reading, and language arts tests (K-12). Contact person - Dr. Blyth Riegel.

1985: Charleston South Carolina School District. Performed 1986: calibrating, equating and bias analysis using Item Response Theory Methods for grade 7-12.

1984: Tennessee State Department of Education. Consultant services on Item Response Theory methods. Contact person - Dr. Joyce McLarty.

1984: Instructional Objectives Exchange (IOX). Psychometric and statistical analysis of teacher proficiency tests and high school basic skills test. Contact person - Dr. W. James Popham.

1984: Information Consultants, Inc., Washington, D.C. SPSS programming for government contracts. Contact person - J.C. Lasmanis.

1984: Georgia State Department of Education. Consultant services on multiple-matrix sampling and use of negative hypergeometric distribution. Contact person - Dr. Stan Berkнопf.

1984: East San Gabriel Valley (California) Hart Law Consortium. Calibrating and equating basic skills tests in reading, mathematics, and writing using Item Response Theory models for nine California school districts. Contact person - Dr. Elaine Lindheim.

1983: Workshop on Rasch Models for the Albuquerque Public School System.

1983: SPSS technical assistance for Westinghouse, Baltimore, Maryland. Contact person - Dan Woomeer.

1983: Charleston South Carolina School District. Performed 1984 calibrating, equating and bias analysis using Item-Response Theory Methods for grades 1-6. Contact person - Dr. Janet Rose.

1983: Albuquerque School District. Performed calibrating, 1985 equating, and bias analysis using Item Response Theory Models. Contact person - Dr. Carol Robinson.

Major Computer Programs

EQUATE: Performs an equipercentile and linear equating of two tests. Also calculates various descriptive statistics and performs the Tukey-Cureton seven point rolling average smoothing procedure on both frequency distributions. Published in the journal of Applied Psychological Measurement, 1984, 8, 306.

DOMAIN: Program uses the Rasch model to estimate domain scores on a criterion-referenced test. Uses calibrated from 1 to 10 tests constructed from an item bank. The Newton-Raphson iteration to obtain ability and standard error estimates. A binary search routine is used to estimate

domain scores. Published in the Journal of Applied Psychological Measurement, 1983, 7, 56.

RKAPPA: Program uses the Rasch model to estimate classification consistency of mastery tests. The sampling distribution of ability, theta, is used as the error distribution rather than the conditional distribution of raw scores. Published in the journal of Applied Psychological Measurement, 1984, 8, 286.

BINOM: Interactive program which provides probabilities and cumulative probabilities associated with the binomial, Pascal, and beta distributions. All three distributions arise from a Bernoulli process (1982).

Professional Review Activities

1989: Reviewer. Educational Measurement: Issues and Practice (Editor - Anthony Nitko).

1989: Reviewer. Educational Evaluation and Policy Analysis (Editor - James Guthrie).

1985: Reviewer. Educational Researcher (Editor - William J. Russell).

1984: Reviewer. Division D (Measurement and Research Methodology), American Educational Research Association.

1984: Reviewer for the journal of Educational Evaluation and Policy Analysis (Editor - Eva L. Baker).

1982: Reviewer. Journal of Educational Statistics (Associate editor - Huynh Huynh).

Publications

Phillips, G. W. (2009), *The Second Derivative: International Benchmarks in Mathematics for American States and School Districts*. Washington, DC: American Institutes for Research, June, 2009.

Phillips, Gary W., *Linking NAEP to NAAL: Adult Literacy Using High School Standards in Mathematics and Reading*, American Institutes for Research: Washington, DC, (under review), 2009.

Phillips, G., and Dossey, J., *Counting on the Future: International Benchmarks in Mathematics for Comparing Cities and Nations*, American Institutes for Research: Washington, DC, October 23, 2008.

Ferrara, S., Phillips, G., Williams, P., Leinwand, S., Mahoney, S., & Ahadi, S. *Vertically articulated performance standards: An exploratory study of inferences about achievement and growth*. In R. Lissitz (editor), *Assessing and modeling cognitive development in school: Intellectual growth and standard setting*, JAM Press: Maple Grove, Minnesota, 2007.

Phillips, Gary W., *Chance Favors the Prepared Mind: Mathematics and Science Indicators for Comparing States and Nations*, American Institutes for Research: Washington, DC, November 14, 2007.

Phillips, G. W., *Expressing International Educational Achievement in Terms of U.S. Performance Standards: Linking NAEP Achievement Levels to TIMSS*, American Institutes for Research: Washington, DC, April 23, 2007.

Elliott, E. and Phillips, G. W., *History of NAEP-The Federal Perspective*, In L. V. Jones & I. Olkin (editors), *The Nation's Report Card: Evolution and Perspective*, Phi Delta Kappa Education Foundation, 2004.

Phillips, G W and Adcock, E P. *Practical Applications of Hierarchical Linear Models to District Evaluations*, Journal of Multi-Linear Regression Viewpoints, (spring, 1997).

Phillips, Gary W. (Editor) *Technical Issues in Large Scale Performance Assessments*. U.S. Department of Education, Washington, DC, 1995.

Williams, Paul L., Reese, Clyde M., Campbell, Jay R., Mazzeo, John and Phillips, Gary W. *NAEP 1994 Reading Report Card for the Nation and the States*. US Department of Education, Washington, DC, 1995.

Williams, Paul L., Reese, Clyde M., Campbell, Jay R., Mazzeo, John and Phillips, Gary W. *1994 NAEP Reading: A First Look - Findings from the National Assessment of Educational Progress*, U.S. Department of Education, Washington, DC, 1995.

Phillips, G., *Methods and Issues in Setting Performance Standards* (book chapter in *Monitoring The Standards of Education*, edited by Albert C. Tuijnman and T. Neville Postlethwaite), Pergamon, 1994

Pashley, P., and Phillips. *Toward World Class Standards: A Research Study Linking National and International Assessments*. Educational Testing Service, Princeton, NJ, 1993.

Mullis, Ina V.S., Dossey, J.A., Owen, E.H., and Phillips, G.W. *NAEP 1992 Mathematics Report Card For The Nation and The States: Data From The National and Trial State Assessments*. U.S. Department of Education, Washington, DC, 1993.

Mullis, Ina V.S., Owen, E.H., Phillips, G.W. *America's Challenge: Opportunities for Higher Standards-A Summary of Findings From 22 Years of NAEP*. U.S. Department of Education, Washington, DC, 1993.

Phillips, G.W., Mullis, Ina V.S., Bourque, M.L., Williams, P.L., Hambleton, R.K., Owen, E.H., and Barton, P.E. *Interpreting NAEP Scales*. U.S. Department of Education, Washington, DC, 1993.

Mullis, I.V.S., Dossey, J.A., Owen, E.H., and Phillips, G.W., *The State of Mathematics Achievement: NAEP's 1990 Assessment*. Center for Education Statistics, U.S. Department of Education, Washington, DC, 1991.

Phillips, G.W., *Benefits of State-By-State Comparisons*. Educational Researcher, 1991, 20, 17-19.

Mullis, I. V. S., Owen, E. H., and Phillips, G. W. *America's Challenge: Accelerating Academic Achievement-A Summary Of Findings From 20 Years of NAEP*, Educational Testing Service,

Princeton, N.J., 1990.

Finn, Chester E., and Phillips, G.W. *State-by-State Comparisons Can Benefit Education*, *Education Leadership*, Volume 47, Number 7, April, 1990, pages 43-55.

Phillips, G.W. *The Lake Wobegon Effect*. Educational Measurement: Issues and Practice, 1990, 9, 3-14.

Truby, R. and Phillips, G. *State Comparable Assessments: At Last The Good News*. The School Administrator, 1989, February, 63-66.

Lapoint, A., Mead, N. and Phillips, G. *A World of Differences: The International Assessment of Educational Progress*, Educational Testing Service, Princeton, N.J.,1989. Phillips, G. W., and Finn, C. The NAEP Trial State Assessment: Will Education Benefit? Education Leadership, 1990, 47, 43-55.

Elliott, Emerson, and Phillips, Gary W. *Response of the National Center for Education Statistics to the Report of NAEP Technical Review Panel*. International Journal of Educational Research, (1991).

Phillips, Gary W., *The NAEP Perspective*. The National Assessment of Educational Progress and the Longitudinal Studies Program: Together or Apart. U.S. Department of Education, U.S. Government Printing Office; Washington, D.C., 1986.

Phillips, Gary W. and Finn, Chester E. Jr., *The Lake Wobegon Effect: A skeleton in the Testing Closet?* Educational Measurement: Issues and Practice, 1988, 7, 10-12.

Phillips, G. *Word and Number Assessment Inventory* (review). The Ninth Mental Measurement Yearbook. Volume II. The Buros Institute of Mental Measurements; Lincoln, Nebraska, 1985, pp.1768-1769.

Phillips, Gary W., and Gedeik, Sandra K. *EQUATE: linear and equipercentile equating*. Applied Psychological Measurement, 1984, 8, 306.

Phillips, Gary W., and Gedeik, Sandra K. *RKAPPA: reliability of mastery tests, an application of the Rasch model*. Applied Psychological Measurement, 1984, 8, 286.

Phillips, G. High School Subjects Tests (Review). The Ninth Mental Measurements Yearbook. Volume I. The Buros Institute of Mental Measurements; Lincoln Nebraska, 1985, pp. 657-658.

Barclay, James R., and Phillips, Gary W. *The development of predictive index of giftedness*. Measurement and Evaluation in Guidance, 1983, 16, 25-35.

Phillips, Gary W., and Gedeik, Sandra S. *DOMAIN: estimation of domain scores using the Rasch model*. Applied Psychology Measurement, 1983, 7, 56.

Phillips, Gary W., and Paskewicz, Charles W. *The effects of knowledge of research on rate of retention in elementary schools*. School Psychology, 1982, 3, 16-21.

Conference Presentations

Psychometric Underpinnings of the 2009 High School Longitudinal Study (HSLs), American Education Research Association, 2008.

Distributional Projection: Solution to Small Sample Size. Paper presented at the 21st Annual Conference of the Society for Industrial and Organizational Psychology, Dallas Texas, 2006

Accountability Evaluation of Magnet Schools: A Value-added Approach. Paper presentation at the American Educational Research Association, New Orleans, 2000

Estimating Value-added indices using Hierarchical Linear Models, Workshop at the annual meeting of the American Educational Research Association, 1998, Montreal, Canada.

Using Hierarchical Linear Models to Evaluate Schools. Paper presentation at the American Educational Research Association, 1997.

Hierarchical Linear Models. Workshop at the annual conference of the American Educational Research Association, 1997.

Analytic Issues in Complex Surveys and Assessments. Discussant at the annual meeting of the American Statistical Association, Orlando, 1995.

Some Theoretical Issues in National Assessment. Chair of symposium at the annual conference of the American Educational Research Association, San Francisco, 1995.

Multilevel-modeling With NAEP data. Discussant at the annual meeting of the American Educational Research, San Francisco, 1995.

Measuring Standards in The National Assessment of Educational Progress. Paper presentation at the annual meeting of the National Council for Measurement in Mathematics, New Orleans, 1994.

International Indicators of Educational Outcomes. Paper presentation at the annual meeting of the American Educational Research Association, New Orleans, 1994

Standards for International Indicator Data. Paper presentation at the annual meeting of the American Educational Research Association. New Orleans, 1994.

Analysis of Innovative Data Structures in NAEP. Chair of symposium at the annual meeting of the American Educational Research Association, Atlanta, Georgia, 1993.

After A Decade of Authentic Writing Assessment, What Advice Do We Have For Other Subject Areas. Chair of symposium at the annual meeting of the National Council of Educational Measurement, Atlanta, Georgia, 1993.

Technical Issues in International Assessments. Paper presentation at the annual meeting of the American Educational Research Association, Atlanta, Georgia, 1993.

Results from the NAEP Data Reporting Program. Discussant at the annual meeting of the

American Educational Research Association, Atlanta, Georgia, 1993.

Analysis and Reporting Issues in the U.S. Data for the IEA Reading Literacy Study. Discussant at the annual meeting of the American Educational Research Association, Atlanta, Georgia, 1993.

Advanced Studies in National Databases. Presentation at the annual meeting of the American Educational Research Association, Atlanta, Georgia, 1993.

Interpreting NAEP Scales. Paper presentation at the annual meeting of the American Educational Research Association, Atlanta, Georgia, 1993.

Educational Testing and School Reform: Carts and Horses. Presentation at the annual meeting of the Association For Public Policy Analysis and Management (APPAM), Denver, Colorado, 1992.

Assessment and the Federal Perspective. Presentation at the annual meeting of the Directors of State Testing Programs, New York, 1992.

What Students are Learning in School: Results from the National Assessment of Educational Progress. Presentation at the National Alliance of Business, Washington, DC, 1992.

Current Psychometric Issues in NAEP. Chair of symposium at the annual meeting of the American Educational Research Association, San Francisco, 1992.

OECD International Indicators Project-Student Achievement Outcomes; Report of the Ongoing Work of the OECD Network A. Chair of Symposium at the annual meeting of the American Educational Research Association, San Francisco, 1992.

How Can Policy makers and Educators Make Better Use of NAEP Results? Symposium presentation at the annual meeting of the American Educational Research Association, San Francisco, 1992.

How Can The 1990 State-By-State NAEP Results Be Used?. Chair of symposium at the annual meeting of the American Education Research Association, San Francisco, 1992.

Standards and Criteria for Education Outcome Indicators. Paper presentation at the annual meeting of the American Statistical Association, Atlanta, 1991.

Implications of Foreign Assessment Programs for the U.S. National Examination. Chair of symposium at the annual meeting of the Education Commission of the States, Breckenridge, Colorado, 1991.

NAEP: 1994 and Beyond. Paper presentation at the annual meeting of the Education Commission of the States, Breckenridge, Colorado, 1991.

Will Increasing Demands on NAEP Make Lake Wobegon It's New Address. Paper presentation at the annual meeting of the Education Commission of the States, Breckenridge, Colorado, 1991.

1990 NAEP Trial State Assessment Results: An In Depth Review. Chair of symposium at the annual meeting of the Education Commission of the States, Breckenridge, Colorado, 1991.

The NAEP Mathematics Scales - A Useful and Innovative Way to Describe State and National Mathematics Achievement. Chair of symposium at the annual convention of the American Educational Research Association (AERA), Chicago, 1991

The IEA Reading Literacy Study: National and International Perspectives. Discussant at a symposium at the annual convention of the American Educational Research Association (AERA), Chicago, 1991.

Developing International Indicators of Student Performance: A Report on the Ongoing Work of OECD Network A. Chair of symposium at the annual convention of the American Educational Research Association (AERA), Chicago, 1991.

Testimony Session on the Validity of National Assessment of Educational Progress (NAEP). Chair of panel discussion at the annual convention of the National Council on Measurement in Education, Chicago, 1991

The OECD International Indicator Project. Paper presentation at the annual convention of the National Council on Measurement in Education, Chicago, 1991.

Technical Issues in Education Indicators. Paper presentation at the annual convention of the National Council on Measurement in Education (NCME), Chicago, 1991.

Some Measurement Issues in Performance Assessments. Paper presentation at the annual convention of the American Educational Research Association (AERA), Chicago, 1991 (with Paul Williams).

An Update on the NAEP Reading Anomaly. Discussant for the symposium at the annual conference of the American Educational Research Association (AERA), Boston, 1990.

The NAEP Scales: A Triumph of Utility Over Complexity. Chairman for the symposium at the annual meeting of the American Educational Research Association (AERA), Boston, 1990.

Why NAEP State Comparable Assessments? Paper presentation in a symposium titled "Implementing NAEP's 1990 Trial State Assessment Program" at the annual meeting of the American Educational Research Association (AERA), Boston, 1990.

Progress Report on the NAEP Trial State Assessment. Paper presentation at the annual conference of Large Scale Testing Directors, New York, 1989.

The Bad News About Our Elementary and Secondary Schools. Paper presentation at the University of Maryland Board of Visitors, University of Maryland, College Park, 1989.

Implications of the U.S. Education System for Productivity and International Competitiveness. Paper presentation at the Graduate School Colloquium Series, University of Maryland, College Park, 1989.

Improving our Schools: Can it be Done? Paper presentation at the Washington Journalism

Conference, Washington, D.C., 1989.

The NAEP State Field Test and the 1990 Trial State Assessment. Symposium presentation at the annual conference of the Education Commission of the State (ECS), Boulder, Colorado, 1989.

New Options in International Assessment. Symposium presentation at the annual conference of the Education Commission of the States (ECS), Boulder, Colorado, 1989.

State-By-State Comparisons: How will Education Benefit? Paper presented at the annual conference of the Education Commission of the States (ECS), Boulder, Colorado, 1989.

A Note on Obtaining International Education Indicators Through Ongoing International Surveys. Paper presented at a conference on the OECD International Education Indicators Project, Washington, DC, 1989.

Plans for the 1990 NAEP Assessment. Meeting of the Association of State Assessment Programs, Tampa, Florida, 1989.

Testing in our Nations Schools. Education Today on the Learning Channel. George Washington University, March, 1989, Washington, DC.

Are All The States Above the National Average on Nationally Standardized Norm-Referenced Achievement Tests? Chairman for the symposium at the annual conference of the American Educational Research Association (AERA), San Francisco, California, 1989.

State Comparable Assessments: New Technical Challenges for NAEP, the Nations Report Card. Chairman for the symposium at the Annual Conference of the American Educational Research Association (AERA), San Francisco, California, 1989.

Statistical Issues in Equating Writing Assessments. Paper presented at a symposium titled "Issues In Measuring Growth and Change in Direct Writing Assessment" at the Annual meeting of the American Educational Research Association (AERA), San Francisco, California, 1989.

The NAEP International Study: How Does it compare with other International Studies? Paper presented at a symposium titled "NAEP International. An Experiment in Using NAEP Technology" at the Annual meeting of the American Educational Research Association (AERA), San Francisco, California, 1989.

Causal Modeling: Predicting writing Achievement in Five Countries. Discussant for the Symposium at the Annual Conference of the American Educational Research Association (AERA), San Francisco, California, 1989.

Psychometric procedures used in the IEA International Reading Literacy Study. National Center for Education Statistics, 1989.

IEA International Reading Literacy Study: Sample Design For The U.S.: National Center for Education Statistics, 1989.

Re-design of NAEP: Issues an answers. Meeting of the Association of State Assessment Programs, Orlando, Florida, 1989.

State-by-State Comparisons/Redesign of NAEP. Symposium at the Annual meeting of Directors of State Testing Programs, New York, October, 1988.

Curriculum Driven Instruction versus Measurement Driven Instruction. Key note speaker at the Annual Maryland Testing Conference, Baltimore, Maryland, November, 1988.

NAEP Information Session: Plans for the 1990 Assessment. Presentation at the Annual Conference of the Education Commission of the States (ECS), Boulder, Colorado, 1988.

The NAEP Technical Review Panel: Investigating Anomalies, Maintaining Trends, and Comparing States. Symposium at the Annual Conference of the Education Commission of the States (ECS), Boulder Colorado, 1988.

Status of the Redesign of NAEP. Annual meeting of the Education Commission of the States, Boulder, Colorado, 1988.

What's New in International Assessments: Symposium at the annual meeting of the American Education Research Association, New Orleans, 1988.

NAEP Update. Panel discussion at the annual Maryland Assessment Conference, Ocean City, Maryland, 1987.

National Indicators: Current Status Report. Symposium at the Virginia Educational Research Association. Charlottesville, Virginia, 1987.

Plans For the National Assessment of Educational Progress. 1987 Meeting of the Association of State Assessment Programs, Tampa, Florida, 1987.

Assessment and State-by-State Comparisons. Policy workshop at the annual meeting of Education Commission of the States, Boulder, Colorado, 1987.

The Role of NAEP at the Local, State and National Level. Symposium at the Los Angeles conference on Measurement and Evaluation, Los Angeles, California, 1987.

State-by-State Comparisons and the Redesign of NAEP. Presentation to the Maryland Governor's Commission on School Enhancement, Annapolis, Maryland, 1987.

The Redesign of the National Assessment of Educational Progress (NAEP). Symposium at the Annual meeting of the Directors of State Testing, New York, 1987.

Update on the Redesign of the National Assessment of Educational Progress (NAEP). Symposium at the Annual Convention of the American Educational Research Association (AERA), Washington, D.C., 1987.

Item Response Theory Models. Seminar conducted for the U.S. Department of Education, Washington, D.C., 1987.

The Binomial Error Model. Seminar conducted for the U.S. Department of Education, Washington, D.C. 1987.

Classical Measurement Theory and Equating Models. Seminar conducted for the U.S. Department of Education, Washington, D.C., 1987.

Training session titled "Equating Direct Writing Assessments." At the Annual Convention of the National Council on Measurement in Education (NCME), Washington, D.C., 1987.

Teacher Supply and Demand in Maryland: Methodological Improvements. Paper presented at the Annual Convention of the American Educational Research Association (AERA), Washington, D.C., 1987 (with Shelly Clemson and Mary Crovo).

Training session titled "Equating Direct Writing Assessments." At the Annual Convention of the National Council on Measurement in Education (NCME), San Francisco, 1986 (with Mary Crovo Clark).

Training session titled "Advanced Applications of the Rasch Model." At the Annual Convention of the American Educational Research Association (AERA), San Francisco, 1986.

Setting a Passing Standard on Direct Writing Assessments Using a Minimax Procedure. Paper presented at the Annual Convention of the American Educational Research Association (AERA), San Francisco, 1986.

Meta-analysis of Piagetian Conservation Training. Paper presented at the annual convention of the American Educational Research Association (AERA), San Francisco, 1986.

Derivation of the Variance - Covariance Structure of Karl Joreskog's LISREL Model Through Multivariate Path Analysis. Paper presented at the annual convention of the American Educational Research Association (AERA), San Francisco, 1986.

Statistical Equating of Direct Writing Assessments. Paper presented in a symposium titled, "Solving Problems in a Large Scale Direct Writing Assessment Program." Presented at the annual convention of the American Educational Research Association (AERA), Chicago, April, 1985. Published in Resources In Education, February, 1986. ED 262-084.

An Investigation of Piaget's Theory of Probabilistic Thinking in Children. Paper presented at the annual convention of the American Educational Research Association (AERA), Chicago, April, 1985. (Phillips, G.W. and Grodsky, M.) Published in Resources in Education, February, 1986. ED 262-076.

Two Statistical Approaches for Equating Direct Writing Assessment. Paper presented in a symposium titled, "Research on Large Writing Assessment". Presented at the annual convention of the American Educational Research Association (AERA), Chicago, April, 1985.

Equating Direct Writing Assessments With the Polychotomous Rasch Model. Presented at the annual convention of the National Council on Measurement in Education (NCME), Chicago, April, 1985.

Distributional Projections: An Application of the Rasch Model. Presented at the annual convention of the National Council on Measurement in Education (NCME), Chicago, April,

1985. (Huynh, Huynh, and Phillips, G.W.) Published in Resources in Education, February, 1986. ED 262-062.

Estimating ability in the Three-Parameter Logistic Model Using SPSS. Presented at the annual convention of the National Council on Measurement in Education (NCME), Chicago, April, 1985.

Pretechnical and philosophical issues with item response theory. Paper presentation at the annual convention of the National Council on Measurement in Education (NCME), Chicago, 1985.

Evaluation of A Statewide Criterion-Based Testing Program. Symposium Discussant at the annual convention of the American Education Research Association, Chicago, 1985.

Equating Procedures for Direct Writing Assessments. Presented at the annual convention of American Educational Research Association (AERA), New Orleans, 1984 (Williams, Paul and Phillips, G.) Statistical Procedures for Equating Scores on Direct Writing Assessments. Educational Commission of the States annual conference on large scale assessments, Boulder, Colorado, 1984.

The TABS tests: practical applications of the RASCH model to a statewide minimum competency testing program. Symposium Discussant At the annual convention of the National Council on Measurement In Education, New Orleans, 1984.

Use of the general polychotomous form of the Rasch model as a means of calibrating and equating indirect and direct assessments of writing achievement. Paper presented in a symposium titled, "Designing effective statewide writing assessment: is it possible to please psychometricians, practitioners, and the public? Presented at the annual convention of the American Educational Research Association (AERA), Montreal, Canada, 1983. (Phillips, G., Meade, Ron and Ryan, Joseph).

Detection of Biased Test Items Using Item Response Theory. Paper presented at a symposium titled, "Technical Advances in Assessment Programs." Presented at the annual convention of the National Council on Measurement in Education (NCME), Montreal, Canada, April, 1983. (Crovo, M. and Phillips, G.W.)

Applications of Item Response Theory to Criterion-Referenced Reliability. Presented at a symposium titled, "Technical Development in the Maryland Functional Testing Program." Presented at the annual convention of the Eastern Educational Research Association (EERA), Baltimore, Maryland, February, 1983.

Item Response Theory Applications in Maryland: The Integration of Item Response Theory and Criterion- Referenced Testing. Presented in a symposium titled, "Applications of Item Response Theory in Statewide Testing Programs." Presented at the annual convention of the National Council on Measurement in Education (NCME), Montreal, Canada, April, 1983.

Rasch Analysis Using SPSS. Presented at the annual convention of the National Council on Measurement in Education (NCME), Montreal, Canada, April, 1983. Published in Resources in Education, February, 1986. ED 263-124.

Program Evaluation. Chairman of Symposium at the annual convention of the Eastern

Educational Research Association (EERA), Baltimore, Maryland.

Applications of the Rasch Model to Criterion-Referenced Testing: Domain Score Estimation; Reliability; Test Length and Item Selection. Presented at the annual convention of the National Council on Measurement in Education (NCME), Montreal, Canada, April, 1983.

The Use of Latent Trait Models in the Estimation of Domain Scores. Presented at the annual convention of the American Educational Research Association (AERA), New York, March, 1982. Published in Resources in Education, February, 1988. ED 262-050.

Path Analysis of Regression, Factor Analysis and Several LISREL Models. Presented in a symposium titled "Path analysis, structural equations, and robust regression." Presented at the annual convention of the American Educational Research Association (AERA), New York, March, 1982. Published in Resources in Education, February, 1986. ED 263-121.

Degrees of Freedom Revisited. Presented in a symposium titled, "Understanding, teaching and using statistics." Presented at the annual convention of the American Educational Research Association (AERA), New York, March, 1982.

Test Scores Interpretations Using Item Response Theory: Problems, Practices, and Pitfalls. Presented at the annual Large School Systems Invitational Conference on Measurement in Education. Atlanta, May, 1981. (Williams, P.L., and Phillips, G.W.)

Overview of path analysis, structural equations and LISREL models. Invited Lecturer at the Department of Measurement and Statistics, University of Maryland, College Park, Maryland, 1981.

Calibrating and Equating Procedures Used in the Maryland Functional Testing Program. Occasional Report, 82-3, Maryland State Department of Education, 1981.

Basic Mathematical and Statistical Derivations in the Rasch Model. Maryland State Department of Education, 1981

Path analysis. Invited Lecturer at the Educational Testing Service (ETS), Princeton, New Jersey, 1980.

Meta-Theory and Meta-Analysis; Implications for School Psychology. Symposium conducted at the convention of the National Association of School Psychologists (NASP), Washington, D.C., April, 1980. (Barclay, J.R., and Phillips, G.W.)

Techniques of Multiple-Matrix Sampling. Center for Educational Research and Development, University of Kentucky, 1980.

A Case Study in Gifted Education for Elementary Children. Presented at the annual convention of the American Personnel and Guidance Association (APGA) Atlanta, March, 1980. (Barclay, J.R., Phillips, G. W., Cole, H., and Remar, R.)

The Purpose of Educational Systems. Presented at the annual convention of the American Educational Research Association (AERA), March, 1977. (Grotsky, M., Applefield, J., Phillips, G., and Whited, M.)

Learned Avoidance Behaviors in Children: School Phobia and Effective Mutism. Presented at the annual convention of the National Association of School Psychologists (NASP), March, 1978. (Paskiewicz,C., and Phillips, G.)

National Press Conferences, Interviews, Articles and Congressional Testimony¹

USA Today, October 23, 2008, *U/ S. Cities' Math Scores Split Compared to Rest of the World.*

New York Post, October 23, 2008, *NYC Kids Not Exactly World-Beaters in Testing.*

Education Week, October 22, 2008, *U.S. Urban Students Middling vs. Foreign Peers*

Chicago Sun-Times, October 23, 2008, *3rd-World math scores in Chicago.*

New York Times, Nov. 14, 2007, *Study Compares States' Math and Science Scores With Other Countries'*

USA Today, Nov. 14, 2007, *U.S. students 'middle of the pack' compared with world*

Christian Science Monitor, Nov. 14, 2007, *World's Schools Teach U.S. a Lesson*

Chicago Tribune, Nov. 14, 2007, *Illinois math, science scores compare favorably with world*

The Columbus Dispatch, Nov. 14, 2007, *Study condemns old-school ways*

Salt Lake Tribune, Nov. 14, 2007, *Utah students fare well in international report*

Education Week, Nov. 14, 2007, *Top-Achieving Nations Beat U.S. States in Math and Science*

Bloomberg, Nov. 14, 2007, *Math, Science Pupils in U.S. Trail Singapore, Hong Kong, Korea*

International Herald Tribune, Nov. 15, 2007, *East Asian students shine in study of math and science scores*

The Washington Post, December 17, 2007, *Are U.S. Benchmarks for Reading and Math Too High? It's Debatable.*

The New York Times, November 14, 2007, *Study Compares States' Math and Science Scores With Other Countries.*

USA Today, November 14, 2007, *U.S. Children are 'Middle of the Pack' in Global Terms.*

International Harold Tribune, November 15, 2007, *Study Compares American Students with Other Countries.*

Education Week, March 15, 2000, *NAEP Drops Long-Term Trend Writing Data.*

Education Week, March 13, 2002, *National Assessment Can Be Used to Verify State Test Scores.*

¹ Please see attached Appendix for a complete list of media coverage of recent reports.

Education Week, October 11, 2000, *Panel Mulls Offering School-level NAEP Data*.

Education Week, May 2, 2007, *Most Nations Seen Falling Short of NAEP “Proficiency”:
Global-test Analysis Helps Fuel Debate on Standards*, Vol. 26, No. 35.

Education Week, December 3, 1997, *Odyssey of a National Test: From Napkin to Classroom?*

Press Conference: The Condition of Education-2001. US Department of Education, Washington, DC, May 31, 2001.

Press Conference: The Nations Report Card in Mathematics (2000), US Department of Education, Washington, DC, August 2, 2001.

Press Conference: Nations Report Card on Reading from the National Assessment of Educational Progress, National Press Club, Washington, DC, April 6, 2001.

Press Conference: Early Childhood Longitudinal Study – The Kindergarten Year, US Department of Education, Washington, DC, December 1, 2000.

Press Conference: NAEP 1999 Trends in Academic Progress, US Department of Education, Washington, DC, August 24, 2000.

Press Conference: The Condition of Education, US Department of Education, Washington, DC, June 1, 2000.

Congressional testimony: US House of Representatives Committee on Education and the Workforce related to the reauthorization of the National Center for Education Statistics (NCES), the National Assessment of Educational Progress (NAEP), the National Assessment Governing Board (NAGB), and the Voluntary National Test (VNT), May 11, 2000, Washington, DC

Press Conference: First Report of the Early Childhood Study, US Department of Education, Washington DC, February 12, 2000.

Press Conference: Distance Education in Postsecondary Institutions, US Department of Education, Washington DC, December 17, 1999.

Press Conference: Nations Report Card in Civics from the National Assessment of Educational Progress, US. Department of Education, Washington, DC, November 18, 1999.

Press Conference: Nations Report Card on Writing from the National Assessment of Educational Progress, National Press Club, Washington, DC, September 28, 1999.

Press Conference: Nations Report Card in US History, National Press Club, Washington DC, March 29, 1995.

Press Conference: Nations Report Card in Science from the National Assessment of Educational Progress, US Department of Education, Washington DC, March 23, 1992.

Press Conference: Trends in Academic Achievement, US Department of Education, Washington DC, January 1, 1992.

Press Conference: Nations Report Card in Mathematics (the First Report of the NAEP Trial State Assessment), National Press Club, Washington DC, June 6, 1991.

Appendix
Complete List of Newspaper, Radio, TV, and Blog coverage of Recent Reports

“Counting on the Future” Media Coverage - October 2008

Print

Cleveland students post lowest scores on math in international study
The Cleveland Plain Dealer, OH
October 22, 2008

US Urban Students Middling vs. Foreign Peers
Education Week
October 22, 2008

Chicago Schools Score Millions for Science Education
Chicago Public Radio, IL
October 23, 2008

3rd-World math scores in Chicago
Chicago Sun-Times, IL
October 23, 2008

NYC Kids not Exactly World-Beaters in Testing
New York Post, NY
October 23, 2008

Math study gives Austin students pat on back
Austin American-Statesman, TX
October 23, 2008

Houston in center of city math pack
Houston Chronicle, TX
October 24, 2008

BROADCAST

Fox News At 5
WNYW-TV CH 5 (FOX) New York
10/23/2008 05:00 PM - 06:00 PM

Newsradio 780
WBBM-AM 780 (CBS) Chicago
10/23/2008 04:00 PM - 05:00 PM

CBS 2 News At 11:00 AM
WBBM-TV CH 2 (CBS) Chicago
10/23/2008 11:00 AM - 11:30 AM

NBC 5 News At 6:00
WMAQ-TV CH 5 (NBC) Chicago
10/23/2008 06:00 PM - 06:30 PM

Newscenter 5 Eyeopener
WCVB-TV CH 5 (ABC) Boston
10/23/2008 05:00 AM - 06:00 AM

Newscenter 5 Eyeopener
WCVB-TV CH 5 (ABC) Boston
10/23/2008 06:00 AM - 07:00 AM

Good Morning Cleveland
WEWS-TV CH 5 (ABC) Cleveland/Akron
10/23/2008 05:00 AM - 06:00 AM

Good Morning Cleveland
WEWS-TV CH 5 (ABC) Cleveland/Akron
10/23/2008 06:00 AM - 07:00 AM

Local Cut-in
WEWS-TV CH 5 (ABC) Cleveland/Akron
10/23/2008 08:25 AM - 08:30 AM

The Wave Morning Show
WNWV-FM 107.3 Cleveland/Akron
10/23/2008 06:00 AM - 07:00 AM

The Wave Morning Show
WNWV-FM 107.3 Cleveland/Akron
10/23/2008 08:00 AM - 09:00 AM

News 14 Carolina News Day
News 14 Charlotte CH 14 Charlotte 10/23/2008
12:00 PM - 12:30 PM

News 14 Carolina Your Evening News Now
News 14 Charlotte CH 14 Charlotte
10/23/2008 05:00 PM - 05:30 PM

NewsChannel 36 At 6:00
WCNC-TV CH 36 (NBC) Charlotte
10/23/2008 06:00 PM - 06:30 PM

NewsChannel 36 Today
WCNC-TV CH 36 (NBC) Charlotte
10/24/2008 05:00 AM - 06:00 AM
Real Estate Investor

KSEV-AM 700 (CBS) Houston
10/24/2008 02:00 PM - 03:00 PM

WAXN Action News at 10:00
DMA: 24
WAXN-TV CH 64 (IND) Charlotte
10/24/2008 10:00 PM - 10:35 PM

“Chance Favors the Prepared Mind” Media Coverage - November, 2007

Print

New York Times
Study Compares States' Math and Science Scores with Other Countries'
Nov. 14, 2007

USA Today
U.S. students 'middle of the pack' compared with world
Nov. 14, 2007

Christian Science Monitor
World's Schools Teach U.S. a Lesson
Nov. 14, 2007

Chicago Tribune
Illinois math, science scores compare favorably with world
Nov. 14, 2007

The Columbus Dispatch
Study condemns old-school ways
Nov. 14, 2007

Salt Lake Tribune
Utah students fare well in international report
Nov. 14, 2007

Education Week
Top-Achieving Nations Beat U.S. States in Math and Science
Nov. 14, 2007

Bloomberg
Math, Science Pupils in U.S. Trail Singapore, Hong Kong, Korea
Nov. 14, 2007

St. Petersburg Times
FSU and UF match wits on science shortfall
Florida needs math and science teachers.
Nov. 15, 2007

International Herald Tribune

East Asian students shine in study of math and science scores
Nov. 15, 2007

Chosun Ilbo (English Edition)
Korean Students Ranked 3rd Best in Math and Science
Nov. 15, 2007

Hawaii Reporter
Hawaii 8th Graders Lagging Far Behind Peers in Science and Math
Test Comparing Scores Worldwide Show Hawaii Students on Par with Jordan, Romania and
Serbia
Nov. 14, 2007

News Examiner-Enterprise
Oklahoma students ranked in global education report
Nov. 14, 2007

TV

WBZ-TV CH 4 (CBS) Boston
Nov. 16, 2007

WCVB-TV CH 5 (ABC) Boston
Nov. 16, 2007

KOKI-TV CH 23 (FOX) Tulsa
Nov. 16, 2007

KSBI-TV CH 52 (IND) Oklahoma City
Nov. 16, 2007

WITI-TV CH 6 (FOX) Milwaukee
Nov. 16, 2007

WTGS-TV CH 28 (FOX) Savannah
Nov. 16, 2007

Radio

Georgia News Network
Nov. 14, 2007

Arkansas Radio Network
Nov. 14, 2007

South Carolina Network
Nov. 14, 2007

WIBW-Kansas (Local & State)
Nov. 15, 2007

Oklahoma News Network
Nov. 15, 2007

Virginia News Network
Nov. 16, 2007

KFWB-AM 980 (IND) Los Angeles
Nov. 16, 2007

WLW-AM 700 (ABC) Cincinnati
Nov. 16, 2007

WBBM-AM 780 (CBS) Chicago
Nov. 16, 2007

Web sites

KTEN.com Channel 10
Oklahoma students compared in global education report
Nov. 14, 2007

KSWO.com Channel 7
Oklahoma students compared in global education report
Nov. 14, 2007

TCPalm.com
Treasure Coast schools look to catch up with international rivals
Nov. 13, 2007

ITBusiness Edge
Education Imperative for Future U.S. Competitiveness
Nov. 14, 2007

NewsOK.com
Where State fits in Global Education
Nov. 14, 2007

FinFacts Ireland
US math and science students perform well against counterparts in foreign countries but Asian

countries remain best performers
Nov 15, 2007

eNews 2.0
US, the 10th in Math and 12th in Science in a World-Wide Study
Nov. 15, 2007

Blogs

TexasEdEquity.blogspot.com
Top-Achieving Nations Beat U.S. States in Math and Science
Nov. 14, 2007

Docuticker.com
8th Graders in Most U.S. States Performing Better in Math and Science than Students in Most Foreign Countries
November 14, 2007

Byoolin's Trebuchet
The Land of the Free and the Home of the Not Very Well Informed
Nov. 14, 2007

CLSA Research Update
International Math and Science Study
Nov. 14, 2007

Gifted Exchange
We're Number 18!
Nov. 14, 2007

South Puget Sound Libertarian
Humor in Education
Nov.14, 2007

Corrections Sentencing
Polls, Study, and the Future
Nov.14, 2007

Degreeboard.com
Education Imperative for Future U.S. Competitiveness
Nov. 15, 2007

Beach Blurb
Where Florida stacks up internationally in math and science
Nov. 15, 2007

Clipmarks

Math, Science Pupils in U.S. Trail Singapore, Hong Kong, Korea

Nov. 15, 2007

OSIR.org.in

Korean Students Ranked 3rd Best in Math and Science

Nov. 15, 2007