

RESUME
ARLEN R. GULLICKSON
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OFFICE ADDRESS

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ACADEMIC DEGREES 1971

Ph.D. University of Colorado Boulder, CO
Major: Educational Research

1967 M.A. University of Northern Iowa Cedar Falls, IA
Major: Physics

1963 B.A. University of Northern Iowa Cedar Falls, IA
Major: Mathematics
Minor: Physics

PROFESSIONAL RECORD

2002-present Director, The Evaluation Center, and Professor with tenure in the College of Education, Western Michigan University (WMU)

1991-2002 Chief of Staff, The Evaluation Center, and Professor with tenure in the College of Education, Western Michigan University

2001-present Director, the evaluation of the American Association for the Advancement of Science (AAAS) Project 2061 (Next Generation of Curriculum Materials in Science, Mathematics, and Technology)

1999-present Director, Project ATE, a National Science Foundation project to assess the effectiveness and impact of the Advanced Technological Education program

1999-present Editorial board member for *Practical Assessment, Research and Evaluation* (PARE), an online journal published by the ERIC Clearinghouse on Assessment and Evaluation (ERIC/AE) and the Department of Measurement, Statistics, and Evaluation at the University of Maryland, College Park

1998-present Chair, Joint Committee on Standards for Educational Evaluation

1998-2000 Member, Board of Directors, Consortium for Research on Educational Accountability and Teacher Evaluation (CREATE)

1998 Project director, project to develop a statewide teacher evaluation program in Hawaii

1997-1998 Past-president, Consortium for Research on Educational Accountability and Teacher Evaluation, and program chair for the 1998 CREATE National Evaluation Institute

1996-1997, 1999, 2001	Project director, studies to assess compulsive gambling in the state of Michigan
1996-1997	President, Consortium for Research on Educational Accountability and Teacher Evaluation
1995-present	Project director, MTS project
1995-1998	Vice chair, Joint Committee on Standards for Educational Evaluation
1993-present	Editorial board member, <i>Educational Policy Analysis Archives</i> , published by the Education Policy Studies Laboratory, Arizona State University
1992-1994	Director, National Board for Professional Teaching Standards Technical Analysis Group project
1991-1996	Associate Director, Center for Research on Educational Accountability and Teacher Evaluation
1973-1991	Assistant/Associate/Full Professor, University of South Dakota
1987-1991	Professor; dual appointment in School of Education and Department of Computer Science, University of South Dakota
1990-1991	Coordinator, South Dakota Rural Science and Math School Without Walls project
1986-1987	Recipient of Northwest Foundation grant to study computer science at the University of Colorado; visiting professor in the School of Education, University of Colorado
1983-1986	Project evaluator, Bush grant for faculty development, University of South Dakota
1982 (Summer)	Visiting Professor, University of British Columbia, Vancouver
1979-1980	Interim Director, Educational Research and Service Center, University of South Dakota
1978-1979	Director of Graduate Studies, School of Education, University of South Dakota
1977-1980	Coordinator of grant activities, School of Education, University of South Dakota
1976-1977	Project manager (Science Education and Evaluation Specialist), National Science Foundation, Washington, DC
1974-1976	Director, Project TAPE, a National Science Foundation grant to the University of South Dakota
1972-1973	Project director, National Science Foundation research project, College of Education, University of Minnesota
1971-1973	Research Associate, College of Education, University of Minnesota
1969-1971	Full-time doctoral student on a Title IV Fellowship, University of Colorado Laboratory of Educational Research

1967-1969	Physics teacher, St. Paul Park High School, St. Paul Park, Minnesota
1966-1967	Full-time student, majoring in physics, as a participant in the University of Northern Iowa's Academic Year Institute for physics
1965-1966	High school teacher of mathematics, physics, and chemistry, Department of Defense, Bitburg Air Force Base, Bitburg, Germany
1963-1965	High school teacher of mathematics, physics, and chemistry, St. Ansgar High School, St. Ansgar, Iowa

LONG-TERM PROFESSIONAL EXPERIENCE

1995-present	Reviewer for <i>Evaluation Practice</i>
1989-present	Reviewer for the <i>Journal of Applied Measurement in Education</i>
1988-1989	Served as a USD President's Fellow to assist in the study of faculty development issues
1986-1988 (1998?)	Member, Program Effectiveness Panel (formerly the Joint Dissemination Review Panel) for the U.S. Department of Education Office of Educational Research and Improvement
1987-present	Reviewer, <i>Educational Measurement Issues and Practice</i>
1987	Review panelist, Office of Educational Research and Improvement's Science Content Learning and Teaching Center competition for establishing a national science center
1982-1986	Member, Graduate Council, University of South Dakota
1982-1988	Member, General Research Advisory Committee, University of South Dakota
1979-1987	Member, editorial board, <i>Journal of Special Education</i>
1983-1985	Reviewer, <i>The American Educational Research Journal</i>
1980-1984	Reviewer, <i>Rural Educator</i>
1979-1982, 1989	Consultant to the Science Education Directorate, National Science Foundation
1979-1981	Consultant to the Mid-Continent Regional Educational Laboratory for the design and conduct of a 5-year longitudinal study of public school education in a 7-state region
1977-1979	Consultant to Project Synthesis, an NSF-supported study to synthesize recent major research studies in the field of science education
1971, 1972, 1973, 1975, 1978, 1979	National Science Foundation panelist for the review of NSF grant proposals
1973-1976	Consultant to the Minnesota Research and Evaluation project, University of Minnesota

1973-1976 Consultant to the National Assessment of Educational Progress (NAEP) and member of a 10-member advisory board to NAEP for the Year 8 national science assessment of 9-, 13-, and 17-year-old children

PUBLICATIONS

Gullickson, A. (1993). Matching measurement instruction to classroom-based evaluation. *Educational Assessment*. Lincoln, NE: Buros Institute.

Gullickson, A. (1992). [Review of the *Cultural Literacy Test*]. In J. C. Conoley & J. J. Kramer (Eds.), *The mental measurements yearbook*. Lincoln, NE: Buros Institute.

Gullickson, A. (1992). [Review of *Diagnostic Mathematics Profiles*]. In J. C. Conoley & J. J. Kramer (Eds.), *The mental measurements yearbook*. Lincoln, NE: Buros Institute.

Gullickson, A. (1990). Faculty evaluation in higher education: Is it taking us where we want to go? In R. L. Emans (Ed.), *Understanding undergraduate education*, pp. 345-359. Vermillion: University of South Dakota Press.

Gullickson, A. R. (1986). Teacher education and teacher-perceived needs in educational measurement and evaluation. *Journal of Educational Measurement*, 23(4), 347-354.

Gullickson, A. R. (1985). Student evaluation techniques and their relationship to grade and curriculum. *Journal of Educational Research*, 79(2), 15-18.

Gullickson, A. R. (1984). Teacher perspectives of their instructional use of tests. *Journal of Educational Research*.

Gullickson, A. R. (1984). The 5-by-8 card: A good friend of the teacher. In N. N. Bridgeford, V. Spandel, & R. Stiggins (Eds.), *Classroom assessment: A key to educational excellence*. Portland, OR: Northwest Regional Educational Research Laboratory.

Gullickson, A. R. (1978). [Review of Comprehensive Tests of Basic Skills Science Form, Levels 2 and 3]. In O. K. Buros, (Ed.), *The eighth mental measurements yearbook*. **New York**: McGraw-Hill.

Gullickson, A. R. (1978). [Review of Tests of Basic Experiences, Levels K and C]. In O. K. Buros (Ed.), *The eighth mental measurements yearbook*. **New York**: McGraw-Hill.

Gullickson, A. R. (1978). The impact of short-term high intensity efforts to disseminate elementary science curricula. *Journal of Research in Science Teaching*, 15, 325-333.

Gullickson, A. R. (1978). Elementary science curriculum dissemination in the Midwest. *Journal of Research in Science Teaching*, 15(6), 479-484.

Gullickson, A. R. (1971). [Review of the Carver Darby Chunked Reading Test]. In O. K. Buros (Ed.), *The seventh mental measurements yearbook*. **Lincoln, NE: Buros Institute**.

Joint Committee on Standards for Educational Evaluation (A. R. Gullickson, Chair). (2003). *The student evaluation standards*. Thousand Oaks, CA: Corwin Press.

Airasian, P., & Gullickson, A. (1996). *Teacher self-evaluation tool kit*. Thousand Oaks, CA: Corwin Press.

Airasian, P., & Gullickson, A. (1994, Fall). Teacher self-assessment: Potential and barriers. *Kappa Delta Pi Record*, 31(1), 6-10.

- Airasian, P., & Gullickson, A. (1994). Examination of teacher self-assessment. *Journal of Personnel Evaluation in Education*.
- Eicher, C. E., Wood, R. D., & Gullickson, A. R. (1986). Self-perceived adequacy of student teachers and its relationship to supervising-teacher ratings. *The College Student Journal*, 20(3), 299-305.
- Farland, D., & Gullickson, A. (1996). *Handbook for developing a teacher performance evaluation manual: A metamanual*. Kalamazoo: The Evaluation Center, Western Michigan University.
- Gullickson, A. R., & Ellwein, M. C. (1985). The goodness-of-fit between prescription and practice: Post hoc analysis of teacher-made tests. *Educational Measurement: Issues and Practice*, 7(1), 15-18.
- Gullickson, A., & Farland, D. (1990, December). Computer management of student grade records: Gradebooks versus spreadsheets. *Educational Technology*, 30(12), 47-51.
- Gullickson, A., & Farland, D. (1990). Test development for classroom purposes: Using item bank software versus word processing. *Tech Trends*, 35(2), 22-27.
- Gullickson, A. R., & Hopkins, K. D. (1976, March). Interval estimation of correlation coefficients corrected for restriction of range. *Educational and Psychological Measurement*, 36, 9-25.
- Gullickson, A. R., & Hopkins, K. D. (1987). Perspectives on educational measurement instruction for preservice teachers. *Educational Measurement Issues and Practice*, 6(3), 12-16.
- Gullickson, A. R., & Horn, J. G. (1976, January). A strategy for disseminating elementary science curricula. *School Science and Mathematics*, 57-62.
- Gullickson, A. R., & Stufflebeam, D. L. (2000). *Noteworthy practices by the Western Michigan University Evaluation Center in conducting National Science Foundation-funded evaluation training projects*. Kalamazoo: Western Michigan University Evaluation Center.
- Hopkins, K., & Gullickson, A. (1993). Response rates of mailed questionnaires and the effects of monetary gratuities: A meta-analysis. *Journal of Experimental Education*.
- Lawrenz, F., Keiser, N., & Gullickson, A. R. (Eds.). (in press). Evaluating the upgrading of technical courses at two-year colleges: NSF's technological education program. *Advances in Program Evaluation*, 9. Oxford, England: Elsevier.
- Stufflebeam, D., & Gullickson, A. (1993). [Review of *Understanding educational evaluation*]. In N. Norris (Ed.), *Economics of education review*.
- Welch, W. W., & Gullickson, A. R. (1973, Spring). A strategy for evaluating the NSF comprehensive program for teacher education. *School Science and Mathematics*.
- Wood, R., Eicher, C., Webster, L., & Gullickson, A. (1988). Readers accept challenge. *ACCESS the Information on Global, International, and Foreign Language Education*, 82, 6.

SELECTED PRESENTATIONS AT PROFESSIONAL MEETINGS

- Gullickson, A. R., & Howard, B. (2004, July). Conducted four sessions on the Joint Committee standards. National Evaluation Institute, Colorado Springs.

- Gullickson, A. (2001, July). Chair and discussant for a panel discussion entitled *Professors' evaluations of students; A family of studies aimed at improving student evaluations and the student evaluation standards*. Annual National Evaluation Institute, Wilmington, NC.
- Gullickson A. (2001, April). Chair of invited symposium, *Canadian perspectives on research in classroom assessment*. Presented at the annual meeting of the American Educational Research Association, Seattle.
- Gullickson, A. (2000, November). Panel member, *Evaluation checklists as a vital tool for strengthening evaluation practice*. Annual meeting of the American Evaluation Association, Honolulu.
- Gullickson, A. (2000, November). Panel member, *Preparing mathematics, science, and technology education evaluators*. Annual meeting of the American Evaluation Association, Honolulu.
- Lawrenz, F., & Gullickson, A. (2000, November). Participant in a round table entitled *Development of a Web based evaluation system for the Advanced Technology Education Program*. Annual meeting of the American Evaluation Association, Honolulu.
- Gullickson, A. (2000, November). Panel member and discussant, *Training evaluators: What's needed*. Annual meeting of the American Evaluation Association, Honolulu.
- Gullickson, A., Stufflebeam, D., & Horn, J. (2000, July). *Lessons learned in teacher evaluation*. Presented at the CREATE National Evaluation Institute, San Jose, CA.
- Stufflebeam, D., & Gullickson, A. (2000, July). *Evaluation checklists as a vital tool for strengthening evaluation practice*. Presented at the CREATE National Evaluation Institute, San Jose, CA.
- Gullickson, A., & Rogers, T. (2000, July). *Introducing the student evaluation standards*. Presented at the CREATE National Evaluation Institute, San Jose, CA.
- Gullickson, A. (2000, April). *Evaluation summer institutes*. Presented at the annual meeting of the National Council on Measurement in Education, New Orleans.
- Gullickson, A. (2000, April). Panel member, *Designing a comprehensive evaluation training strategy*. Presented at the annual meeting of the American Educational Research Association, New Orleans.
- Gullickson, A. (1999, April). Symposium participant, *Issues in designing digital libraries using Web-based technology to advance evaluation*. Annual meeting of the American Educational Research Association, Montreal.
- Gullickson, A. (1999, April). *Project MTS: Evaluation training and support services*. Presented at the annual meeting of the American Educational Research Association, Montreal.
- Gullickson, A., Glass, G. & Scriven, M. (1998, July). *Implications of technology innovations for evaluation purposes*. Presented at the CREATE National Evaluation Institute, Denver.
- Smith, B., & Gullickson, A. (1998, July). *Issues in developing a scattered site evaluation intern program*. Presented by Brian Smith, CREATE National Evaluation Institute, Denver.
- Katzenmeyer, C., Gullickson, A., Horn, J., & Nevo, D. (1998, April). *Metaevaluation: Methodology and recent applications*. Presented at the annual meeting of the American Educational Research Association, San Diego.

- Gullickson, A. (1997, July). *Web surveys: The changing landscape of data collection*. Presented at the CREATE National Evaluation Institute, Indianapolis.
- Airasian, P., Gullickson, A., Hahn, L., & Jones, A. (1994, July). *A tool kit for teacher self-assessment*. Presented at the CREATE National Evaluation Institute, Gatlinburg, TN.
- Hopkins, K., & Gullickson, A. (1992, April). *Response rates of mailed questionnaires and the effects of monetary gratuities: A meta-analysis*. Presented at the annual meeting of the American Educational Research Association, San Francisco.
- Gullickson, A. (1992, February). *A description of the CREATE project*. Presented as part of a symposium, Michigan School Testing Conference, Ann Arbor.
- Gullickson, A. (1992, July). *Opening and closing*. First annual CREATE Evaluation Institute, Snowmass, CO.
- Gullickson, A. (1992, July). Presenter on synthesis panel. First annual CREATE Evaluation Institute, Snowmass, CO.
- Gullickson, A., & Farland, D. (1990, April). *Computer gradebooks: Do they facilitate recommended grading practices?* Presented at the annual meeting of the National Council on Measurement in Education, Boston.
- Gullickson, A. (1989, November). *Matching measurement instruction to classroom-based evaluation; Perceived discrepancies, needs, and challenges*. Invited address to the Buros-Nebraska Symposium, University of Nebraska, Lincoln.
- Hopkins, K., & Gullickson, A. (1989, April). *Monetary gratuities in survey research: A meta-analysis of their effects on response rates*. Presented at the annual meeting of the American Educational Research Association, San Francisco.
- Hadley, M., & Gullickson, A. (1987, April). *Teacher evaluation practices from an observational viewpoint*. Presented at the annual meeting of the National Council on Measurement in Education, Washington, DC.
- Farland, D., & Gullickson, A. (1984, October). *Cooperative test taking*. Presented at the annual meeting of the Northern Rocky Mountain Regional Educational Research Association.
- Monroe, J. D., & Gullickson, A. (1984, October). *Problems in generalizing social skills taught to developmentally disabled*. Presented at the annual meeting of the Northern Rocky Mountain Regional Educational Association.
- Gullickson, A. R. (1984, April). *Matching teacher training with teacher needs in testing*. Paper presented at the annual meeting of the National Council on Measurement in Education, New Orleans.
- Gullickson, A. R. (1982). *The practice of testing in elementary and secondary schools*. Presented at the annual Rural and Small Schools Conference, Kansas State University.
- Gullickson, A. R. (1973). *The effects of reward in large-scale data gathering*. Presented at the annual meeting of the American Educational Research Association.
- Lawrenz, F., & Gullickson, A. R. (1973). *A comparison of CHEM study cases and traditional curriculum classes with respect to achievement and attitudinal measures*. Presented at the annual meeting of the National Association for research in Science Teaching, Detroit.

Gullickson, A. R., Nelson, L. R., & Glass, G. (1971). *Violation of homogeneity of variance assumption in the integrated moving averages time series model*. Presented at the annual meeting of the American Educational Research Association, New York.

WORKSHOPS

(January 22-25, 2001). Presenter at a four-day Hawaii Evaluation Institute sponsored by the MTS grant and cohosted by the Pacific Regional and Educational Learning Laboratory and Hawaii Department of Education, Honolulu.

(May 17-18, 2000). Presenter at an Appalachia Educational Laboratory two-day evaluation institute on *The Program Standards*, Charleston, WV.

(October 14, 1999). Presenter at a Mathematics and Science Education Network workshop entitled "A Simulation Exercise for Applying *The Program Evaluation Standards*." Chapel Hill: University of North Carolina.

(July 26, 1999). Presenter at a Pacific Regional Education and Learning Laboratory workshop. Saipan, North Mariana Islands.

(April 6, 1999). Presenter at a SERVE workshop entitled "MTS Evaluation Workshop." Columbia, SC.

(August 3, 1998). Presenter at a one-day institute entitled "Program Evaluation" for the 15th Annual Pacific Educational Conference organized by the Pacific Regional Educational Laboratories. Kauai, HI.

SELECTED EVALUATION REPORTS AND WORKING PAPERS

Gullickson, A., & Tressler, G. (2001). *Recruitment and retention in the ATE program*. Available from The Evaluation Center, Western Michigan University, and from The Evaluation Center Web site: <http://www.wmich.edu/evalctr/ate/ATEpapers/recrctfull.pdf>.

Keiser, N., Lawrenz, F., & Gullickson, A. (2001). *The effective use of site visits in the evaluation of a national program*. Annual meeting of the American Evaluation Association, St. Louis.

Gullickson, A. (2001, January). *Monitoring of ATE projects by NSF staff: A project ATE briefing paper*. Prepared as part of the project titled Assessing the Impact and Effectiveness of the Advanced Technological Education (ATE) Program. Submitted to Dr. Conrad Katzenmeyer, NSF Education Directorate's Division of Research, Evaluation, & Communications.

Gullickson, A., Lawrenz, F., & Keiser, N. (2001). *The status of ATE projects and centers*. Annual report to the National Science Foundation for the evaluation of its Advanced Technological Education (ATE) program. Full report available at The Evaluation Center Web site: <http://www.wmich.edu/evalctr/ate/survey2001.html>.

Tressler, G., Gullickson, A., & Keiser, N. (2000). Communication with recipients of a Web-based evaluation survey. *Proceedings of the 2001 Society for Engineering Education Annual Conference and Exposition, American Society for Engineering Education*.

Gullickson, A., Lawrenz, F., & Tressler, G. (2000). *Assessing the impact and effectiveness of the Advanced Technological Education (ATE) Program: Status Report 2: Findings from a survey of ATE projects and centers*.

- Gullickson, A., Lawrenz, F., Barbour, S., & Keiser, N. (2000, May.). *Assessing the impact and effectiveness of the Advanced Technological Education (ATE) Program: Status Report 1: The nature of the program*. A report to the National Science Foundation. Available at The Evaluation Center Web site: <<http://www.wmich.edu/evalctr/ate/product.html>> or from The Evaluation Center, Western Michigan University.
- Airasian, P. W., & Gullickson, A. R. (1995). *Teacher self-evaluation tool kit*. Available from the Center for Research on Educational Accountability and Teacher Evaluation, The Evaluation Center, Western Michigan University, Kalamazoo.
- Airasian, P. W., & Gullickson, A. R. (1995). *Teacher self-evaluation: The literature in perspective*. Available from the Center for Research on Educational Accountability and Teacher Evaluation, The Evaluation Center, Western Michigan University, Kalamazoo.
- Gullickson, A. R. (1986). *Annual evaluation report of the USD Bush grant project*.
- Gullickson, A. R. (1985). *Annual evaluation report of the USD Bush grant project*.
- Gullickson, A. R. (1984). *Annual evaluation report of the USD Bush grant project*.
- Gullickson, A. R., & Monroe, J. D. (1984). *Sioux Vocational School social curriculum project: Evaluation report of the operational product field test*. Submitted to the Sioux Vocational School, Sioux Falls, SD, pursuant to statewide grant #82-313-4000.
- Gullickson, A. R., & Senne, R. (1980). *The School of Education grant writer's notebook*.
- Gullickson, A. R. (1980). *Stability issues in grant proposal reviews*. A report delivered to the National Science Foundation Directorate for Science Education.
- Gullickson, A. R., & Lawrenz, F. (1977). *The effect of differentially weighting CAUSE criteria and other evaluative possibilities for block program panels*. Presented to the National Science Foundation Directorate for Science Education.
- Gullickson, A. R., Froke, B., & Wick, J. (1976). *An evaluation of the South Dakota career education project*.
- Gullickson, A. R., Lawrenz, F., & Johnson, R. (1974, September). *An evaluation of the University of South Dakota collaborative elementary science project (EPS '73) as an implementation model*. The University of Minnesota research and evaluation project.
- Gullickson, A. R., Willson, V., & Lawrenz, F. (1973). *Project Report #24: Final evaluation report of the 1973 two-week curriculum workshops at the University of South Dakota*. University of Minnesota research and evaluation project.
- Gullickson, A. R., & Lawrenz, F. (1972). *Report of teacher characteristics, report of student characteristics, and report of school conditions for the Wyoming region*. Science needs assessment reports for the University of Minnesota research and evaluation project.
- Gullickson, A. R., & Lawrenz, F. (1972). *Report of teacher characteristics, report of student characteristics, and report of school conditions for the Mississippi region*. Science needs assessment reports for the University of Minnesota research and evaluation project.
- Gullickson, A. R., & Burton, N. (1970). *Progress report and evaluation of the Title IV Research Training Program of the University of Colorado*. Submitted to the U.S. Office of Education.

PROJECTS

Director of Project MTS, a National Science Foundation project to improve the quality and use of program evaluation in the sciences (1995-2004).

Director of the ATE evaluation project, a project of the National Science Foundation Advanced Technology Education Program (1999-2005).

Research and Faculty Development Grants Funded by University of South Dakota

Coauthor and principal investigator, *Teacher and student perspectives of faculty grading practices*, an investigation of collegiate grading practices. Funded by the USD Faculty Development Committee. (1990, November).

Author of proposal, *Introduction of a workstation environment for computer science courses*. Funded by the USD Faculty Development Committee. Approved (February 1990) with Mr. John Lushbough, Chair of the Computer Science Department, as the principal investigator.

Author and sole investigator for a project called *Collegiate testing practices and their relationship to testing practices in elementary and secondary classrooms of South Dakota*. Funded by the USD General Research Committee. (1982).

Author and sole investigator for a project titled *Classroom testing practices in elementary and secondary schools in South Dakota*. Funded by the USD General Research Committee. (1981).

Externally Funded Grants

A study of compulsive gambling in the state of Michigan. Funded by the Michigan Bureau of State Lottery. September 1996-June 1997 - \$130,000.

Project MTS, a project to metaevaluate NSF projects to (a) identify ways to improve the use of evaluation in the sciences, (b) train science educators in evaluation practices, and (c) provide support services to assist in the improvement of evaluation practices. Funded by the National Science Foundation. September 1, 1995 - August 31, 1997 - \$615,558.

Center for Research on Educational Accountability and Teacher Evaluation. Funded by the U.S. Department of Education, Office of Educational Research and Improvement. Annual funding rates: November 1, 1991 - October 31, 1992: \$1,000,000; 1992-1993 - \$1,000,561.

National Board for Professional Teaching Standards/Technical Analysis Group. Funded by a subcontract with the University of North Carolina, Greensboro. February 1, 1992 - January 1, 1993 - \$52,835; 1993-1994 - \$27,554.

Coauthor and designated principal investigator of *Spreadsheet Applications in the Instruction of High School Physics*, a project designed to develop spreadsheet and instructional design applications to enhance physics instruction at the high school level. The grant was awarded to USD after I left to take my position at WMU. The principal investigator designee changed to Dr. Otto at USD. Funded by the National Science Foundation. 1991 - approximately \$100,000.

Collaboration on the preparation of a proposal presented to **FIRST** Office of Research and Improvement, U.S. Department of Education titled *The South Dakota Rural Science and Mathematics School Without Walls Project*. The award was made to the Mid Continent Regional Educational Laboratory in Denver, with a subcontract to the University of South Dakota. I collaborated in the preparation of the proposal and acted as project coordinator for that grant. This project was a collaborative arrangement of USD, McREL, the

South Dakota Division of Education, and 16 high schools in South Dakota. The project's objectives were to (a) provide advanced science and math courses (college credit) in the high schools, (b) enhance cooperation and communication between the University and the high schools, and (c) enhance cooperation and communication across high schools. The proposal was funded from October 1, 1989 - September 30, 1990 - \$481,000.

Elementary Science Implementation Project (ESIP '75). Coauthored with J. Horn, funded by the National Science Foundation. 1975 - approximately \$40,000.

An instructional grant in research design. Coauthored with V. Willson. Funded by the Exxon Foundation. 1976 - approximately \$5,000.

Project TAPE proposal for dissemination of science materials. Funded by the National Science Foundation. 1974 - approximately \$130,000.

Supplemental research proposal for the Minnesota Research and Evaluation Project. Funded by the National Science Foundation. 1973 - approximately \$90,000.

HONORS

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| 2002 | Awarded Western Michigan University's Distinguished Service Award |
| 1989-1990 | Biography included in Marquis, Inc.'s <i>Who's Who in American Education 1989-1990</i> |
| 1988 | Project Innovation's Special Merit Award for Excellence as Team Faculty Members at University of South Dakota (Team members included Dr. Charles Eicher, Dr. Robert Wood, and Dr. Arlen Gullickson). Award citation published in the <i>College Student Journal</i> 22(1), Spring 1988. |
| 1986 | Faculty Study Award to study computer science at the University of Colorado (funded jointly by the Northwest Foundation and the University of South Dakota) |
| 1976 | Listed in Marquis, Inc.'s <i>Who's Who in Child Development</i> |
| 1969-1971 | Awarded ESEA Title IV Fellowship for doctoral study at the University of Colorado |
| 1967 | Award to attend NSF Academic Year Institute at the University of Northern Iowa |
| 1964 | Award to attend NSF Summer Institute in Physics, Purdue University |
| 1963 | Purple Key Award, University of Northern Iowa |
| 1962-1963 | President, University of Northern Iowa student body |

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Educational Research Association
 American Evaluation Association
 National Council on Measurement in Education
 National Education Association