

Mack Shelley's Grants Experience:

1. Received travel grant from Mississippi State University to attend 1978 ICPSR Summer Program in Ann Arbor, Michigan (\$800).
2. Authored computer equipment purchase research grant submitted to the National Science Foundation, August 1978 (Mississippi State University).
3. Co-authored instructional grant for purchase of mini-computer system submitted to the National Science Foundation, November 1978 (Mississippi State University).
4. Worked under institutional grant received from the U.S. Department of Health, Education, and Welfare and co-authored part of successful request for renewal, 1977-1979 (Mississippi State University).
5. Iowa State University Research Grant for the period June 1, 1980-May 31, 1981 (\$2,300).
6. Assisted in drafting of Title IX fellowship grant application to the U.S. Department of Education, February 1983; also reapplication of January 1984.
7. Assisted in drafting of grant proposal for cooperative agreement with the Council on Governmental Ethics Laws, October 1983.
8. Assisted in drafting of National Science Foundation grant proposal to fund research in applied decision theory, January 1984. Title: "Improving the quality of decision making in local government units." Submitted to the Decision and Management Science Program.
9. Co-principal investigator for grant application submitted to the Iowa Department of Substance Abuse, April 1985.
10. Co-principal investigator on National Science Foundation grant proposal to the Biological, Behavioral, and Social Sciences Division of Social and Economic Sciences: "Rural Stagnation, Urban Structure Development, and Fiscal Imbalance;" through the College of Design Research Institute, Omer Ertur principal investigator.
11. Contributed to Concept Paper prepared for the United States Information Agency Central American University Partnership Program, June 1987.
12. Participated, as a member of the Iowa State University Ethical Issues in Biotechnology Committee, in a three-year grant from the Joyce Foundation (Chicago) to support research assistantships, visiting faculty, and seminar speakers, 1987-1989 (\$75,000).
13. Participated, as a member of the Iowa State University Ethical Issues in Biotechnology Committee, in drafting portions of a proposal funded for two years by the Northwest Area Foundation, 1987-1988 (Minneapolis) (\$50,000).
14. Received research grant from the Dorfman Fund (Alumni Association and Department of Political Science), 1987 (\$500).
15. Statistical consultant for grant application submitted to the Iowa Legislative Extended Assistance Group: "Determining Factors of Industrial Location Decisions in Iowa: Policy Implications for Economic Development;" through the College of Design Research Institute, Mary Kihl principal investigator (\$1,000 funding obtained for graduate student thesis research), 1988.
16. Participated, as a member of the Iowa State University Ethical Issues in Biotechnology Committee, in drafting a proposal to the Ethics and Values Studies division of the National Science Foundation for a National Agricultural Bioethics Center, 1988.
17. Statistical consultant for the Council of State Governments under a contract from the Urban Mass Transportation Administration to study state legislators' views of the privatization of public transit, 1988 (\$1,000).
18. Authored Iowa State University Research Grant proposal to obtain Macintosh IIcx hardware and related statistical software, 1988.
19. Co-authored state of Iowa economic development (EARD) preproposal to support

- continued research on the political, social, economic, and structural effects of biotechnology, 1989.
20. Statistical consultant to the Council of State Governments for research on positive guidance in transportation policy, sponsored by the Martin School of Public Administration, University of Kentucky, with grant support from Minnesota Mining and Manufacturing, 1989.
 21. Statistical consultant for grant application submitted to the U.S. Department of Agriculture: "Effect of Local Office Practices on Certification Costs;" William F. Woodman (Sociology) principal investigator, 1989.
 22. Statistical consultant for grant application submitted to the U.S. Department of Agriculture: "Food Stamp Program Participation;" Jerry Stubben (Political Science) principal investigator, 1989.
 23. Co-principal investigator (with Stephen Aigner, Department of Sociology and Anthropology) on proposal submitted to the Iowa Department of Human Services, to evaluate the impact of Medicaid cost containment, 1990.
 24. Co-author of successful proposal to obtain a DEC workstation for the social sciences faculty of the Iowa State University Statistical Laboratory, 1990.
 25. Co-principal investigator (with Joyce Mercier (Human Development and Family Studies) on proposal submitted to the National Institute of Aging for a multi-wave study of intergenerational geographic mobility and familial stress, with Jacques Lempers (Human Development and Family Studies), and Lori Paulson (Human Development and Family Studies), 1991.
 26. Co-principal investigator (with William G. Miller (Professional Studies in Education) and Daniel J. Mundfrom (Statistics)) on "Estimating Course Difficulty," a research proposal submitted to the Spencer Foundation Small Grants Program, 1991.
 27. Co-principal investigator on proposal to the National Institute of Aging to establish a Center for Applied Gerontology to Study the Oldest Old, at Iowa State University (principal investigator: Peter Martin, Department of Human Development and Family Studies), 1992.
 28. Co-principal investigator on preproposal, "An Investigation of Injury Trauma Among Older Vehicular Accident Victims," submitted to Midwest Transportation Center (with Cletus R. Mercier, College of Engineering; Joyce M. Mercier, Department of Human Development and Family Studies; and Lonnie R. Mercier, M.D. (orthopedic surgery, private practice)), 1993.
 29. Co-principal investigator (with Richard W. Mansbach and Steffen W. Schmidt) on proposal submitted to the United States Information Agency to support the development of an American-style department of political science in the Soviet Union, 1993.
 30. Principal investigator of survey to evaluate program performance for the Mid-America Association of Educational Opportunity Program Personnel, for a 10-state region, 1995. (\$1,000).
 31. Co-principal investigator (with Clete Mercier and Joyce Mercier) on study, "An Investigation of Injury Trauma Among Older Vehicular Accident Victims," sponsored by the Iowa State University Gerontology Program.
 32. Principal investigator on subcontract with the Iowa Department of Public Health, to evaluate the consequences for well contamination of the 1993 floods, 1995. (\$10,506 10/20/95 – 11/30/95)
 33. Co-principal investigator of survey of Iowa businesses related to a study by the International Agriculture Programs office at Iowa State University entitled "International Needs Assessment of Iowa Business: The Implication for Iowa State University's 1995-2000 Strategic Plan." (\$3,000)
 34. Co-principal investigator of proposal, "Private Water Well Survey Analysis (Flood

- Data)," submitted to the Iowa Environmental Health Association, March 28, 1996, to extend a study begun under the auspices of the Iowa Department of Public Health to conduct statistical analysis of data collected by the Centers for Disease Control and IDPH on well contamination associated with the 1993 Midwest floods. (\$1,800 requested)
35. Co-principal investigator (with Jan Stone, Mark Hanna, and H. M. Stahr) for proposal "Playground Tires: Are They Safe?," to determine contamination levels on used tractor tires that might be recycled for playground equipment. (\$2,250)
 36. Statistical consultant (with Paula Dail) on contract from the Iowa Department of Economic Development on study of homelessness in Iowa. (\$3,000)
 37. Subcontract supervisor on "Evaluation Grant of a 5-a-Day Nutrition Program," Iowa Department of Public Health, Division of Substance Abuse and Health Promotion (original funding from Centers for Disease Control and Prevention), October 1, 1996-September 30, 1997. Principal Investigator, Warren Franke, Iowa State University, Department of Health and Human Performance. (\$55,205)
 38. Statistical consultant (with Paula Dail) on grant from the Iowa Department of Education to study homelessness in Iowa. (\$30,000)
 39. Co-principal investigator (with Joyce Mercier) on proposal "Migration Decisions of Rural Elderly in Iowa" submitted to the Iowa Agricultural and Home Economics Experiment Station, March 1997 (revised July 1997). [\$10,000 provided by the College of Liberal Arts and Sciences and the College of Family and Consumer Sciences.]
 40. Co-principal investigator on Special Project Research Initiation Grant (PI: Joyce Mercier, Iowa State University, Department of Human Development and Family Studies), "Migration Decisions of Rural Elderly in Iowa," submitted October, 1997. (\$40,000 requested-not funded).
 41. Principal investigator on "Diabetes Data Analysis" contract from the Iowa Department of Public Health (\$3,800, 10/15/99-4/15/00)
 42. Co-principal investigator (with Mari Kemis, Iowa State University, Research Institute for Studies in Education) on "Child and Youth Development Project" grant from Heartland Area Education Agency 11 (\$5,250 4/1/00-6/30/00)
 43. Co-principal investigator (with Paul Lasley and William Woodman, Iowa State University, Department of Sociology) on grant from the Department of Sociology, Iowa State University, to study food safety and quality, value added concerns in food production, and biotechnology (\$11,000 funded).
 44. Co-principal investigator (with Steffen W. Schmidt, and Jane Clayton—undergraduate research assistant) on Iowa State University distance education experiment grant for an introductory course in American national government targeted to high school Advanced Placement, senior, and Honors students who wish to earn college credit while still in high school, delivered via the World Wide Web and supported by BRAVO! courtesy of Wadsworth publishing.
 45. Statistical adviser for proposal, "Evaluation of Health-Care Worker Gloves," submitted to Centers for Disease Control and Prevention, July 23, 1998. Principal investigator, Janis Stone, Iowa State University, Department of Textiles and Clothing (\$351, 478 requested-accepted, but not funded)
 46. Statistical consultant for proposal, "Household Well-Being After the Polish Transformation, 1994-1999," submitted to the National Science Foundation. Principal investigators: Mary Winter and Earl Morris, Iowa State University, College of Family and Consumer Sciences. (\$202,389 requested-not funded.)
 47. Statistical consultant for proposal, "Comparison of Protective Gloves for Health Care Workers," submitted to the Carver Trust. Principal investigator: Janis Stone, Iowa State University, Department of Textiles and Clothing.
 48. Collaborator, with Keith K. Knapp (Iowa State University, Department of Civil and

- Construction Engineering), on "Application for University Research Grant Spring 1999 Competition: Comparison of Sport Utility Vehicle/Pick-Up Truck and Passenger Car Speeds on Winter Roadways" (February 1, 1999). (\$14,340 requested)
49. Assistant Project Director, "Developing a Framework for Iowa State University-Cuba Links: Promoting Outreach Programs at Iowa State University While Globalizing Faculty, Staff, and Students," April 5, 1999. Funded by the Iowa State University Council on International Programs. (\$41,640)
 50. Statistical consultant on proposal submitted to the Iowa Department of Public Health, Division of Substance Abuse and Health Promotion, for follow-up "New Century Challenge" evaluation grant to study the effects of a 5-a-day nutrition program (RFP from the Centers for Disease Control and Prevention). Principal investigator: Warren Franke, Iowa State University, Department of Health and Human Performance. (\$55,000 requested-not funded)
 51. Co-principal investigator (with Susan Pohl, Iowa Department of Public Health) on a proposal "1999 Special Project Grant: Child Obesity Prevention Project," submitted to the U.S. Department of Agriculture for a statewide evaluation study of obesity among child participants in the Women, Infants, and Children nutrition program in Iowa. (\$294,182 requested-not funded)
 52. Principal investigator on Special Project Research Initiation Grant (co-PIs: Sue R. Crull, Chris Cook, and Joyce Mercier, Iowa State University, Department of Human Development and Family Studies), "Migration and Settlement in Iowa," submitted October 11, 1999. \$19,637 funded).
 53. Principal investigator on "Diabetes Data Analysis" contract from the (CALT) Program" contract from Des Moines Area Community College. (\$7,776 funded 10/15/00-11/30/00)
 54. Statistical consultant for "Project (HOME) Home Observation to Measure Effectiveness: An Evaluation of Mid-Iowa Community Action Inc.'s Early Head Start Program." Funded by Administration for Children and Families, United States Department of Health and Human Services (Local Research Partnerships for Early Head Start Programs). Susan L. McBride (Project Director/Principal Investigator), Carla A. Peterson (Project Faculty member), Susan Hegland (Project Faculty Advisor), and Dianne C. Draper, all of the Department of Human Development and Family Studies.
 55. Statistical consultant for proposal "Preparing Professionals for Inclusive Classrooms: Early Childhood Education Unified Program 2000-2003," submitted to the United States Department of Education, November 1999. Principal investigators: Carla A. Peterson (Human Development and Family Studies) and Geoffrey Abelson (Curriculum and Instruction).
 56. Co-principal investigator (with Susan Carlson, Jackie Litt, and Connie Post, Iowa State University, Departments of English, Sociology and Women's Studies program, and English, respectively) on Learning Community Request for Funding for "Ways of Knowing" Learning Community, 2000-2001. \$19,525 funded.
 57. Statistical consultant on National Research Initiative Competitive Grants proposal submitted to the U.S. Department of Agriculture by Mary Winter (Associate Dean, College of Family and Consumer Sciences), Camilo Garcia (Department of Human Development and Family Studies), Jan Flora (Department of Sociology), and Cornelia Flora (Department of Sociology): "Sustaining Rural Communities through Effective Assimilation of Latinos." \$312,899 requested—not funded.
 58. Faculty leader for University Computation Advisory Committee proposal, "Horizons Advanced Computing and Instructional Lab," submitted by the Department of Industrial Education and Technology, Iowa State University (Graduate student leader: Dominic Fazarro; Faculty leaders: Dennis Field, Michael Dyrenfurth, Mack Shelley)—not funded.
 59. Co-Principal investigator, with Stuart Shulman (Drake University-Department of

Environmental Studies), on the National Science Foundation Information Technology Research for National Priorities (ITR) grant (award #0113718), “Digital Citizenship: Expanding Information Technology Literacy with a Service-Learning Approach.” Date: 10/01/01 to 9/30/04. Funding total = \$400,000 funded, of which \$179,893 for Iowa State University.

60. Statistical consultant for Project HOME reauthorization proposal, submitted by Carla Peterson (Department of Human Development and Family Studies) to the Administration for Children and Families, United States Department of Health and Human Services (Local Research Partnerships for Early Head Start Programs).
61. Research team member for “Iowa Tobacco Prevention Demonstration Project” proposal submitted to the Iowa Department of Public Health, David Wright (Ankeny public schools), principal investigator. \$194,993 requested—not funded.
62. Co-Principal investigator on “Citizen Satisfaction in the City of Des Moines” contract with City of Des Moines, Iowa. (\$13,365 funded 3/1/01-8/30/01)
63. Co-principal investigator (with Grace Marquis (Iowa State University—Department of Food Science and Human Nutrition), Mary Jane Oakland (Iowa State University—Department of Food Science and Human Nutrition), and Helen Jensen (Iowa State University—Department of Economics), on “Improving How WIC Teaches Nutrition: Using Stages of Change Criteria and Critical Thinking Skills to Teach About Vegetables” (grant # 478-24-06), from Iowa Department of Public Health, on nutrition education for mothers of children ages 2-5 to increase diet intake of vegetables, \$114,483 funded for year 1, \$127,139 for year 2 (10/1/03-9/30/04).
64. Statistical consultant for proposal submitted to National Science Foundation, The Children’s Research Initiative: Integrative Approaches (CRI): “Center for Children and Migration.” Mary Winter (Iowa State University—College of Family and Consumer Sciences Associate Dean for Research) principal investigator. (\$100,000 requested—not funded)
65. Planning team member for grant proposal submitted to the Pew Foundation Grant Program in Course Redesign for revising delivery of Discrete Mathematics. Wolfgang Kliemann (Iowa State University—College of Liberal Arts and Sciences Associate Dean for Research) principal investigator. (\$199,814.87 funded)
66. Principal Investigator (with Barbara Ohlund, Iowa State University, Department of Curriculum and Instruction, Co-Principal Investigator) on “Evaluation of Special Education Programs in the State of Iowa” contract from the Iowa Department of Education, Bureau of Children, Family and Community Services. (\$13,365 funded 3/1/01-9/30/01)
67. Principal Investigator (with Barbara Ohlund, Iowa State University, Department of Curriculum and Instruction, and Mari Kemis, Iowa State University, Research Institute for Studies in Education, co-principal investigators) on “Addendum to the Evaluation of Special Education Programs in the State of Iowa” contract from the Iowa Department of Education, Bureau of Children, Family and Community Services. (\$19,080 funded 3/1/01-9/30/01)
68. Principal investigator on “Collaborate with Department of Education Personnel on the Development of an AEA Cost Efficiency Study” contract with the Iowa Department of Education (Judy Jeffrey, Administrator, Division of Early Childhood, Elementary and Secondary Education; Jeff Berger, AEA Accreditation, Bureau of Administration and School Improvement Services). (\$3,920 funded 3/15/01-5/31/01)
69. Co-Principal investigator on “Citizen Agenda Setting: The Electronic Collection and Synthesis of Public Commentary in the Regulatory Rulemaking Process,” submitted to the CISE program of the National Science Foundation. Stuart Shulman (Drake University), principal investigator; other co-PIs include Sarah Nusser (Iowa State

- University). (\$1,499,646 requested—\$414,574 for Iowa State University [\$180,115 for RISE]) (not funded)
70. Principal investigator on response to the United States Department of Education, Office of Civil Rights' (OCR) request that Iowa students requiring special education be assigned categorical disability labels for purposes of OCR's data collection requirements. Iowa Department of Education. (\$9,500 funded)
 71. Co-Principal investigator on "Impact of Supplemental Physical Education on Home School Children," resubmitted to the National Institute of Child Health and Human Development. Gregory Welk (Iowa State University, Department of Health and Human Performance), principal investigator; Katherine Thomas (Iowa State University Department of Health and Human Performance, co-principal investigator. (\$145,816 requested)
 69. Consultant to Marcia Rosenbusch (Iowa State University—Department of Curriculum and Instruction Adjunct Associate Professor) on the design of and subsequent analysis of data from a New Visions in Foreign Language Education survey for the National K-12 Foreign Language Resource Center at Iowa State University and the American Council on the Teaching of Foreign Languages, to assist in bringing together K-12 foreign language professionals and those in postsecondary institutions to produce graduates of U.S. schools who demonstrate foreign language competence. (\$404,457 funded)
 70. Co-principal investigator, with Sarah Lubienski (Iowa State University, Department of Curriculum and Instruction) on National Center for Education Statistics, U.S. Department of Education, grant, "A Closer Look at Mathematics Achievement and Instructional Practices: Examinations of Race, SES, and Gender in a Decade of NAEP Data." Date: 6/15/02 to 12/15/03. Funding total = \$99,928. (no-cost extension to 6/15/04)
 71. Principal Investigator on "Survey of Graduate Students and Postdoctorates in Science and Engineering," Technical Proposal RFP# CPO-02-00002 submitted to the National Science Foundation. (\$4,000,000 requested—not funded)
 72. Principal Investigator on "Amazing Marie, Scientist Extraordinaire: Classroom Materials, Video Instructional Set, Text Books, and Materials Fielding for K-8 Science Instruction," preproposal submitted to the National Science Foundation. (\$3,274,553 requested—not funded)
 73. Co-Principal Investigator, with Warren D. Franke (Iowa State University—Department of Health and Human Performance Associate Professor), Scott A. Chadwick (Iowa State University—Greenlee School of Journalism and Mass Communication Assistant Professor), and Panteleimon Ekkekakis (Iowa State University—Department of Health and Human Performance Assistant Professor) on "Job-related stress and CVD in law enforcement officers," proposal submitted to the National Institutes of Health. (\$182,500 requested—not funded)
 74. Consultant to Sarah Lubienski (Iowa State University—Department of Curriculum and Instruction Assistant Professor) on the design and analysis of data for the "Traditional or *Standards*-Based Mathematics? The Choices and Outcomes in One District" preproposal submitted to the National Science Foundation. (\$450,000 requested—not funded).
 75. Co-Principal Investigator, with Carl Smith (Drake University), Marion Panyan (Drake University), and Kelli Tallman (Iowa State University, Extension), on the Iowa Department of Education grant, "Iowa Positive Behavioral Supports for Children and Youth," Date: 1/01/02 to 12/31/06. Funding total = \$2,300,000, of which \$607,100.77 for Iowa State University, of which \$222,716.14 for RISE.
 76. Co-Principal Investigator, with Mari Kemis (Iowa State University—Research Institute for Studies in Education, on the Iowa Association of School Boards grant, with funding from the U.S. Department of Education, "Evaluation of the Lighthouse Project." Date: 7/1/02 to 6/30/07. Funding total = \$75,720.
 77. Principal Investigator on "Survey of Science & Engineering Research Facilities - 2003

- and 2005 Survey Cycles,” proposal submitted to the National Science Foundation. (\$3,562,416 requested—not funded)
78. Statistical consultant on “Enhancing Science Learning by Improving Cognition,” proposal submitted to the U.S. Department of Education (Brian Hand, principal investigator). (\$741,124 requested—not funded).
 79. Statistical consultant for proposal, “Science Comprehension Improvement,” proposal submitted to the University of Missouri-St. Louis (U.S. Department of Education) Brian Hand (Iowa State University, Department of Curriculum and Instruction), principal investigator. (\$514,807 requested—not funded).
 80. Statistical consultant for proposal, “Local Housing Decisions and the Economic Vitality of Rural Communities,” National Research Initiative Rural Development Program (United States Department of Agriculture). Principal investigators: Chris Cook and Sue Crull, Iowa State University, Department of Human Development and Family Studies (\$164,000 funded).
 81. Statistical consultant for proposal, “An Examination of Mathematics Experiences and Performance of Students with Disabilities” (Sarah Lubienski and Anne Foegen, principal investigators), submitted to the National Center for Education Statistics (U.S. Department of Education). (\$99,824 requested—not funded)
 82. Statistical consultant for proposal, “An Analysis of the Effects of a Professional Development Model on the Instructional Practices of First Grade Reading Teachers and on the Reading Achievement of their Students,” submitted to the United States Department of Education. Principal investigator: Shirley Stow, Director of the School Improvement Model Center, Iowa State University, Department of Educational Leadership and Policy Studies. (\$1,192,224 requested—not funded).
 83. Statistical consultant for proposal submitted to the National Institute on Child Health and Development for a longitudinal 4-year study of the precursors of risky behavior in an in-home interview sample of approximately 800 9-12 year old children in Oklahoma and Iowa. Principal investigators: Cathy Hockaday (Iowa State University, Institute for Social and Behavioral Research) and Stacy Thompson (Oklahoma State University)—not funded.
 84. Co-principal investigator on proposal, “Addressing the Math Needs of Disadvantaged Students in an Urban Setting: A Case Study,” to be submitted to the Small Research Grants Program, The Spencer Foundation (with Comfort Akwaji, graduate student, Department of Curriculum & Instruction, and Mathematics and Technology Coordinator, King Academy of Mathematics and Science, Des Moines, Iowa; Ann Thompson, Director, Center for Technology in Learning and Teaching, and Professor, Department of Curriculum & Instruction; and Thomas Simmons, Elementary Principal, King Academy of Mathematics and Science). (\$36,050 requested—not funded).
 85. Statistical consultant for proposal, “Traditional or *Standards*-Based Mathematics? A Study of Parent/Student Choices and Student Outcomes,” submitted to the National Science Foundation (Sarah Theule Lubienski and Beth Herbel-Eisenmann—Iowa State University, Department of Curriculum and Instruction, Principal Investigators)—not funded.
 86. Co-Principal Investigator on proposal “Measuring the Progress toward the New Social Contract for Science: A Survey of American Scientists and Engineers on their Attitudes toward the Civic Role of Science,” resubmitted to the National Science Foundation (Yong S. Lee—Iowa State University, Department of Political Science, Principal Investigator). (\$172,488 requested—not funded)
 87. Co-Principal Investigator (with Mari Kemis—Iowa State University, Research Institute for Studies in Education) on “Proposal for Data Management and Analysis for the Study of Employment Preparation Received by Iowa Youth,” submitted to the Iowa Department

- of Education. (\$28,546 requested—not funded)
88. Co-Principal Investigator on proposal “Diagnostic Instrument for Quantitative Problem-Solving Skills,” submitted to the National Science Foundation, October 29, 2003 (Principal Investigator: Craig Ogilvie—Iowa State University, Department of Physics). (\$322,720 requested 10/1/04-9/30/07—not funded)
 89. Statistical consultant on AREA grant for National Institute of Nursing Research entitled “Cardiovascular Risk Reduction Efforts Targeted Toward Law Enforcement Officers,” Principal Investigator, Sandra L. Ramey (Marquette University College of Nursing). (\$112,000 requested—not funded)
 90. Statistical consultant on proposal, “An Analysis of the Effects of a Professional Development Model on Practices of First Grade Teachers Who Teach Critical Reading Skills and the Impact of These Practices on Student Achievement after the Professional Development,” submitted to the United States Department of Education. Principal investigator: Shirley Stow, Director of the School Improvement Model Center, Iowa State University, Department of Educational Leadership and Policy Studies. (\$2,913,995 requested—not funded)
 91. Statistical consultant on “Resources to Enhance Interdisciplinary Learning in Engineering Design” proposal submitted to the National Science Foundation (Principal Investigator, Diane Rover ; Co-Principal Investigators, Julie Dickerson and Robert Weber—Iowa State University, all of the Department of Electrical and Computer Engineering). (\$451,195 requested for 6/01/04-5/31/07)—not funded.
 92. Statistical consultant on Mathematics and Science Education Research Grants proposal, “Improving Science Literacy Through Writing,” submitted to the U.S. Department of Education (Principal Investigator—Brian Hand, Iowa State University, Department of Curriculum and Instruction). (\$2,208,749 requested—not funded).
 93. Statistical consultant on “Classroom Research on the Effects of Science Teacher Preparation,” submitted to the U.S. Department of Education (Principal Investigator—Joanne Olson, Iowa State University, Department of Curriculum and Instruction). (\$759,201 requested for 9/1/04-8/31/07—not funded)
 94. Statistical consultant on proposal submitted to the National Science Foundation Research on Learning and Education program (Principal Investigator, Jared Danielson, Iowa State University, College of Veterinary Medicine)—not funded
 95. Principal Investigator (with Matthew Feldmann, Iowa State University, Research Institute for Studies in Education and Department of Educational Leadership and Policy Studies, on research grant proposal, “Congressional Earmarks and Higher Education: An impact study of federal pork funding,” submitted to the Association for Institutional Research. (\$29,849 requested)—not funded
 96. Statistical consultant on RO3 grant proposal, “CVD Risk Reduction Targeted Toward Law Enforcement Officers,” submitted to the National Institute of Occupational Safety and Health and the National Institute of Nursing Research (principal investigator—Sandra Ramey, Marquette University). (\$112,000 requested for 7/01/04-6/30/06—not funded)
 97. Co-Principal Investigator (with Anthony L. Pometto III, Department of Food Science and Human Nutrition and National Aeronautics and Space Administration Food Food Technology Commercial Space Center, Iowa State University; Cheryl Reitmeier, professor, Food Science and Human Nutrition; Denise Vrchota, Greenlee School of Journalism and Communication, Iowa State University; Gail Nonnecke, Department of Horticulture, Iowa State University; and Corly Brooke, Office of the Provost and Center for Teaching Excellence, Iowa State University), on “Center for Assessing Pedagogy and Optimizing Learning Outcomes,” proposal submitted to the National Science Foundation. (\$9,724,767 requested—not funded)

98. Assessment Coordinator on “Science and Technology Center for Combinatorial Materials Science” proposal submitted to the National Science Foundation (Principal Investigators: Marc D. Porter, Department of Chemistry, Iowa State University; Surya K. Mallapragada, Department of Chemical Engineering, Iowa State University; Robin L. McCarley, Louisiana State University; Krishna Ranjan, Rensselaer Polytechnic University; and Joseph Shinar, Department of Physics and Astronomy and Ames Laboratory, Iowa State University. (\$19,930,591 requested—not funded)
99. Co-Principal Investigator (with Diane Rover, Department of Electrical and Computer Engineering, Iowa State University; Julie Dickerson, Department of Electrical and Computer Engineering, Iowa State University; Mani Mina, Department of Electrical and Computer Engineering, Iowa State University; and Donald R. Flugrad; Department of Mechanical Engineering, Iowa State University on “Vertical Integration of Computer, Electrical and Mechanical Engineering Education” proposal submitted to the National Science Foundation. (\$99,986 funded for 7/01/04-6/30/05)
100. Statistical consultant on proposal, “FY 2004 Drug-Free Communities Support Program,” jointly with Des Moines, Ankeny, and Johnson, Iowa public school districts, submitted to the U.S. Department of Justice Office of National Drug Control Policy and Office of Juvenile Justice and Delinquency Prevention. (\$100,000 requested—not funded).
101. Principal Investigator (with Brian Hand, Department of Curriculum and Instruction, Iowa State University), “Education Research Meets the Gold Standard: Statistics and Mathematics Applications in Science, Reading, and Research Methodology.” Submitted to the National Science Foundation. (\$85,000 funded for 7/01/04-12/31/05)
102. Participant in “Integrated Interdisciplinary Research and Training on Emerging Interactive Technologies.” Submitted to the National Science Foundation (Principal Investigator: Carolina Cruz-Neira, Department of Industrial and Management Systems Engineering, Iowa State University). (\$100,000 requested)—not funded in 2004. Resubmitted in 2005.
103. Co-Principal Investigator, “Partnership for Prevention: HIV in Rural Black Life,” RO1 modular grant submitted to the National Institutes of Health (Principal Investigator: Emily Moore, Department of Educational Leadership and Policy Studies, Iowa State University) (\$933,443 requested for 1/02/05-1/01/08—not funded)
104. Statistical consultant for proposal, “The effects of impact patterns on bone strength during daily activity and exercise,” submitted to the National Institutes of Health (Bioengineering Research Grant; PA-02-011). Principal Investigator: Tim Derrick—Iowa State University, Department of Health and Human Performance). (\$839,829 requested for 7/01/05-7/01/09)
105. Statistical consultant on proposal, “A National Research and Development Center for Improving Interactions that Affect Low Achieving Schools”, submitted to the Institute of Education Sciences (Principal Investigator: Shirley Stow, Department of Educational Leadership and Policy Studies, Iowa State University). (\$9,480,810 requested for 9/01/04-8/31/09)—not funded
106. Co-Principal Investigator, “Laboratory Practices for Embedded Computing Systems and Laboratory Assessment Techniques,” submitted to the National Science Foundation (Principal Investigator: Diane Rover, Department of Electrical and Computer Engineering, Iowa State University). (\$74,998 requested—not funded)
107. Evaluator for grant, “Improving Elementary Science by Connecting Science Inquiry and Language Arts,” submitted to the Iowa Department of Education (original funding from Mathematics and Science Partnerships program of the U.S. Department of Education). Principal Investigator: Brian Hand, Department of Curriculum and Instruction, Iowa State University. (\$599,999 funded; 6/1/04-6/30/07)

108. Co-Principal Investigator for grant, “Evaluating the Integration of Sustainability into Engineering Curricula at U.S. Institutions of Higher Education,” submitted to the Environmental Protection Agency (Principal Investigator: Sarah Ryan, Department of Industrial and Manufacturing Systems Engineering, Iowa State University; Co-Principal Investigator: Kyung (Jo) Min, Department of Industrial and Manufacturing Systems Engineering, Iowa State University). (\$349,991 requested for 1/4/05-12/31/06—not funded).
109. Statistical consultant and evaluator for “REU Site in Biological Materials and Processes (BioMaP),” submitted to the National Science Foundation. Principal Investigator: Balaji Narasimhan, Department of Chemical Engineering, Iowa State University).
110. Principal Investigator for proposal, “Barriers to Digital Citizenship: Community Links and Solutions,” submitted to the Iowa State Institute of Science and Society, September 15, 2004. (\$9,986 requested) (10/1/04-6/30/05—not funded)
111. Principal Investigator on subcontract for proposal, “An Interactive Pathway to Effective Learning and Innovative Problem solving in Science and Technology,” submitted to the U.S. Department of Education (through Actus Potentia, Inc.), Principal Investigators on main contract: Abhijit Chandra, Department of Mechanical Engineering, Iowa State University; Ambar K. Mitra, Department of Aerospace Engineering, Iowa State University. (\$253,313 requested for 6/1/05-5/31/08)
112. Statistical consultant for proposal, “Assessing Socioacademic Identity: A Comparison of Mexican Heritage English Language Learners’ Achievement in Rural and Urban Schools During the Implementation of Secondary NSF-funded Mathematics and Science Materials,” submitted to the U.S. Department of Education, November 18, 2004. Principal Investigators: Beth Herbel-Eisenmann, Lori Norton-Meyer, and Katherine Bruna (Department of Curriculum and Instruction, Iowa State University). (\$4,084,079 requested) (7/1/05/6/30/10)—not funded.
113. Consultant and evaluator for grant, “Tracking Student Solution-pathways in Complex Context-rich Physics Problems,” submitted to the National Science Foundation, December 2, 2004. Principal Investigators: Craig Ogilvie, David Atwood, and Paula Herrera-Siklody (Department of Physics and Astronomy, Iowa State University). (\$99,814 requested for 10/1/05-9/30/07)
114. Co-Principal Investigator for proposal, “A Research Study to Determine the Effectiveness of Combining Coaching Process, Data-Driven Decision-Making, and Critical Reading Concepts into a Professional Development Program,” submitted to the U.S. Department of Education, December 2, 2004. Principal Investigator: Shirley Stow (Department of Educational Leadership and Policy Studies and the School Improvement Model, Iowa State University). (\$1,411,597 requested for 6/1/05-5/31/08)—not funded.
115. Co-Principal Investigator for proposal, “Collaborative Research: Laboratory Practices for Embedded Computing Systems and Laboratory Assessment Techniques,” submitted to the National Science Foundation, December 8, 2004. Principal Investigator: Diane Rover (College of Engineering, Iowa State University). (\$244,998 requested for 6/1/05 to 5/31/08)—not funded.
116. Principal Investigator for proposal, “Evaluation Study of Board of Regents Title Iia,” submitted to the Iowa Board of Regents, December 1, 2004). (\$3,533 funded for 11/15/04 to 6/30/05)
117. Co-Principal Investigator for proposal, “Involved Families and Positive Behavioral Supports: Keys for Successful Outcomes (the Iowa Family Involvement Project,” submitted to the U.S. Department of Education, December 16, 2004. Principal investigator: Carl Smith (Department of Curriculum and Instruction, Iowa State University). (\$1,499,568 requested for 6/1/05 to 5/31/08—not funded).

118. Principal Investigator, with Matt Feldmann (Iowa State University, Research Institute for Studies in Education), for proposal, “Understanding the Impacts of Academic Earmarks on Postsecondary Institutions,” submitted to the 2005 Association for Institutional Research (AIR) Research Grant Proposal, January 14, 2005. (\$30,000 requested for 6/1/05 to 5/31/06)—not funded.
119. Principal Investigator for proposal, “Evaluation of the Aging and Disability Resource Center Project,” submitted to the Iowa Department of Elder Affairs, January 21, 2005. (\$84,821 funded for 1/1/05 to 6/30/07)
120. Co-Principal Investigator on DGE-IGERT preproposal, “IGERT: Building a Ph.D. in E-Government,” submitted to the National Science Foundation. Principal Investigator: Stuart Shulman (University of Pittsburgh)—not funded.
121. Co-Principal Investigator on STEM Talent Expansion Program (STEP) proposal, “Community Building for Student Success and Enhancement in Engineering,” submitted to the National Science Foundation, February 10, 2005. Principal Investigator: Diane Rover (Iowa State University, College of Engineering). (\$1,499,938 requested for 10/1/05 to 9/30/10)—not funded.
122. Co-Principal Investigator for proposal, “Iowa Youth Survey, 2005,” submitted to the Iowa Department of Public Health—Division of Substance Abuse and Health Promotion, January 15, 2005. (\$56,260 funded)
123. Independent contractor with Marquette University to provide statistical consultation for Dr. Sandra Ramey in research on health and nursing.
124. Co-Principal Investigator for proposal, “Design across the curriculum,” submitted to the National Science Foundation, March 11, 2005. Principal Investigator: Donald Flugrad (Iowa State University, Department of Mechanical Engineering). (\$100,000 requested for 9/1/05 to 8/31/06).
125. Co-Principal Investigator for proposal, “VIE: Vertical Integration of Engineering Education and Cross-discipline Design,” submitted to the National Science Foundation, March 11, 2005. Principal Investigator: Diane Rover (Iowa State University, College of Engineering). (\$999,981 requested for 9/1/05 to 8/31/08).
126. Principal Investigator on parallel proposal also submitted by Stuart Shulman (University of Pittsburgh), “Collaborative Research: Modeling Barriers to Digital Citizenship,” submitted to the National Science Foundation, August 1, 2004. (\$12,000 requested for 1/1/05 to 12/31/06—not funded)
127. Principal Investigator on proposal, “Positive Behavioral Supports for Children and Youth,” submitted to the Iowa Department of Education, October 15, 2004. (\$12,472 funded for 1/1/04 to 12/31/04).
128. Principal Investigator on proposal, “Evaluation of Des Moines Independent Community School District Positive Behavioral Support Implementation,” submitted to the Iowa Department of Education, December 22, 2004. (\$42,184 funded for 1/1/05 to 9/30/06)
129. Statistical consultant for “Pick a Better Snack” program, Iowa Department of Public Health. With Mary Jane Oakland (ISU—Department of Food Science and Human Nutrition) and Doris Montgomery (Iowa Department of Public Health).
130. Evaluator for proposal, “College Algebra Project: Unified Representation of Function,” submitted to the National Science Foundation, May 19, 2005. Principal Investigator: Aaron Montgomery (Central Washington University, Department of Mathematics). Co-Principal Investigator: Bernadette Baker (Drake University, Department of Mathematics and Computer Science). (\$24,199 requested for 1/1/06 to 12/31/07—not funded).
131. With Mari Kemis (Iowa State University—Research Institute for Studies in Education Program Coordinator III), evaluator for proposal, “Universal Access to

- Reliable Health Information for Senior Citizens with Mood Disorders and their Caregivers,” submitted to the National Science Foundation, May 9, 2005. Principal Investigator: Stuart Shulman (University of Pittsburgh, School of Information Sciences, and University Center for Social and Urban Research). (\$5,000 requested)
132. Principal Investigator for proposal, “Evaluation of Judicial Branch Education Project,” submitted to the American Judicature Society and the Foundation for the Advancement of an Independent Judiciary and the Rule of Law. (\$25,000 funded for 6/01/05 to 9/30/06).
 133. Evaluator for proposal, “When Science and Literacy Meet: Creating Support for Teachers Implementing Writing in the Science Classroom,” submitted to the National Science Foundation. Principal Investigator: Brian Hand (University of Iowa). (\$1,485,408 funded for 01/01/2006-6/30/2011)
 134. Assessment Coordinator for proposal, “IGERT: Integrated Interdisciplinary Research and Training on Emerging Interface Technologies,” submitted to the National Science Foundation, 8/5/05. Principal Investigator: James Oliver (Department of Mechanical Engineering, Iowa State University). (\$3,100,000 requested for 8/16/06 to 8/15/11).
 135. Co-Principal Investigator (with Amanda Fales-Williams—Iowa State University Department of Veterinary Pathology) (Principal Investigator, Jared Danielson, Department of Veterinary Pathology) on Research on Learning and Education, “A study of problem solving using a cognitive tool called the Diagnostic Pathfinder.”
 136. Statistical consultant for proposal, “Impact of the Dynamics of Family and Business Systems on Family Business Sustainability Over Time,” submitted to the National Science Foundation. Principal Investigator: Sharon Danes (University of Minnesota). (not funded)
 137. External evaluator on ITEST preproposal, “Project Bridge-IT: From technologically and socially rich game play to IT education, research and careers in STEM disciplines” (Principal Investigator: Derrick Parkhurst—Iowa State University Department of Psychology) submitted to the National Science Foundation.
 138. Principal Investigator for “Evaluation of the Early Reading First Program for the Des Moines Independent Community School District.” (\$30,000 funded for 10/1/05 to 9/30/07)
 139. Principal Investigator for subcontract with the Des Moines Independent Community School District for proposal, “Des Moines Striving Readers Project,” submitted to the U.S. Department of Education. (approximately \$15,000,000 requested for 1/1/06-12/31/10)
 140. Research Advisor for proposal, “New Visions in Action” (Principal Investigator: Marcia Rosenbusch—Iowa State University Department of Curriculum and Instruction) submitted to the U.S. Department of Education. (\$537,896 requested for 6/1/06 to 5/31/09)
 141. Evaluator for proposal, “Graduate Assistance in Areas of National Need” (Principal Investigators: Balaji Narasimhan and Surya Mallapragada (ISU—Department of Chemical and Biological Engineering) submitted to the U.S. Department of Education. (\$501,864 requested)