

## CURRICULUM VITA

### Robert Morris Jones

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### EDUCATION

- Ed.D. Oklahoma State University, Stillwater, Oklahoma  
Major in Elementary Science Education, 1973
- M.T. East Central University, Ada, Oklahoma  
Major in Secondary Education, 1964
- B.S. University of Oklahoma, Norman, Oklahoma  
Major in Mathematics, 1960

### PROFESSIONAL EXPERIENCE

- 1991-present Professor, School of Education,  
University of Houston-Clear Lake
- 1997-2003 Program Chair, Educational Foundations, School of Education,  
University of Houston-Clear Lake
- 1978-1991 Associate Professor, School of Education,  
University of Houston-Clear Lake
- 1978-1990 Director, Energy Awareness Project,  
University of Houston-Clear Lake
- 1980-1982 Director, SACS Self-Study Program  
University of Houston-Clear Lake
- 1976-1978 Assistant Professor, School of Education,  
University of Houston-Clear Lake
- 1975-1976 Assistant Professor, School of Education,  
University of Houston
- 1974-1975 Visiting Associate Professor, School of Geology, University of  
Oklahoma

1973-1975	<u>Assistant Project Director</u> , Oklahoma Earth Sciences Educational Improvement System Project, University of Oklahoma
1971-1973	<u>Curriculum Specialist</u> , Educational Systems Support Center, Stillwater, Oklahoma
1970-1971 Stillwater,	<u>Space Science Education Specialist</u> , Oklahoma State University, Oklahoma
1969-1970	<u>Public Information Specialist</u> , National Aeronautics and Space Administration, Johnson Space Center, Houston, Texas
1965-1968 Stillwater,	<u>Space Science Education Specialist</u> , Oklahoma State University, Oklahoma
1960-1965	<u>Teacher of Mathematics</u> , Pasadena Independent School District, Pasadena, Texas

### **CERTIFICATION**

Texas Life Professional Secondary Mathematics, 1964  
Texas Life Professional Supervisor, 1986

### **RECENT PUBLIC SCHOOL EXPERIENCE**

Teacher, Gifted and Talented (Alpha) Program, Clear Creek Independent School District, 1981-1984, 1993-1994.

### **CURRENT PROFESSIONAL MEMBERSHIPS**

Association for Science Teacher Education  
Houston Area Science Supervisors Association (Founding Member)  
National Association of Environmental Education (Life Member)  
Texas Science Education Leadership Association  
Texas Association for Environmental Education (Charter Member)  
Trout Unlimited (Life Member)

### **HONORS AND AWARDS**

National Aeronautics and Space Administration, Doctoral Fellowship in Aerospace Education, 1970-1973.

- National Junior Chamber of Commerce, Outstanding Young Men of America, 1971
- National Association for Aerospace Education, Outstanding Institute Director Award, 1977
- Hobby Industry of America, Merit Award for Service, 1977
- Association for Education of Teachers in Science, Presidential Citation, 1987
- American Lung Association (Houston Chapter), Health Educator of the Year, 1987
- Southwest Region Association for Education of Teachers in Science, Service Award, 1989
- Texas Council for Elementary Science, Rebecca Sparks Award for Excellence, 1991
- Texas Student Teacher Association (UHCL Chapter), Outstanding Teacher Award, 1993
- National Science Teachers Association, Recognition Award for Contributions to Aerospace Education 2001

### **PUBLICATIONS**

#### **JOURNAL ARTICLES:**

- Jones, R.M. and Thomas, L. Teacher-Centered Inservice: The Development of a CCTV Model. Audiovisual Instruction. January 1974.
- Jones, R.M., Stoever, E. and Graham, P. Resource Banking. The Science Teacher. September 1974.
- Jones, R.M. and Wiggins, K. Aerospace Activities in the Elementary School. The Journal of Aerospace Education. December 1974.
- Jones, R.M., Kellogg, D., Mills, T. and Rusch, J. Environmental Immersion for Oklahoma Teachers. The Science Teacher. May 1975.
- Jones, R.M. and Piper, M. Aerospace Activities and Language Development in the Elementary School. The Journal of Aerospace Education. May 1975.
- Jones, R.M. and Wiggins, K. Affective Consequences of Aerospace Education. The Journal of Aerospace Education. May 1976.
- Jones, R.M. and Steinbrink, J. Energy Education as Decision Making. Texas Energy Reporter, October 1976.
- Jones, R.M. Practice and Dreams. The Journal of Aerospace Education. March 1977.

- Jones, R.M. Forest Critters: An Interdisciplinary Outdoor Education Activity. Science Activities. March 1977.
- Jones, R.M. and Steinbrink, J. Curriculum Development in Aerospace Education: Teaching for Behavior, Skills and Values. The Journal of Aerospace Education. May 1977.
- Jones, R.M. Aerospace Education and the Elementary Teacher? The Journal of Aerospace Education. February 1978.
- Jones, R.M. and Steinbrink, J. Confluent Curriculum Development in Geographic Education. Journal of Geography. March 1979.
- Jones, R.M. and Steinbrink, J. Checklists for Administrators: Developing Energy Conservation Programs. Bulletin of the National Association of Secondary School Principals. April 1980.
- Jones, R.M. and Steinbrink, J. Policy Concepts: Energizing Your Curricula. Social Education. April 1980.
- Jones, R.M. and Fitzmaurice, R. Confluent Activity Cards for Outdoor Education. Science Activities. October 1981.
- Jones, R.M. and Steinbrink, J. Humanistic Learning Environments: The Development of a Local Energy Institute Model. Contemporary Education. Winter 1981.
- Jones, R.M. Teaming Up. Science and Children. May 1985.
- Jones, R.M. and Steinbrink, J. Curriculum Institutes for Teachers: Utilizing Local Resources. Science Education. Vol. 70, No. 2, 1986.
- Jones, R.M. and Steinbrink, J. Infusing Cooperative Learning Into Teacher Education: The Jigsaw Model. Texas Teacher Educational Forum. Spring, 1987.
- Jones, R.M. and Steinbrink, J. Confluent Curriculum Development: A Logical Proposal. Journal of Curriculum Theorizing. Vol. 8, No. 1, 1988.
- Jones, R.M. and Steinbrink, J. Concept Learning Strategies: Using Cooperative Groups in Science and Social Studies, Southwest Journal of Educational Research into Practice, Vol. 2, 1988.
- Jones, R.M. and Steinbrink, J. Using Cooperative Groups in Science Teaching, School Science and Mathematics, Vol. 89, No. 7, November 1989.
- Jones, R.M. Cooperative Learning in the Elementary Science Methods Course, Journal of Science Teacher Education, Vol. 1, No. 1, 1989.
- Jones, R. M. and Steinbrink, J. Team Learning in Social Studies, Social Studies and the Young Learner, Vol. 2, No. 3, 1990.

- Jones, R.M. and Johnson, Lizbeth C. Cooperative Test Review Groups: Improving At-Risk Students' Test Scores, Southwest Journal of Educational Research into Practice. Vol. 3, 1990.
- Jones, R.M. Curriculum Considerations in Elementary Science Textbook Selection, Texas Science Teacher, Vol. 19, No. 3, September 1990.
- Jones, R.M. and Steinbrink, J. Focused Test Review Items, The Social Studies, Vol. 82, No. 2, March/April, 1991.
- Jones, R.M. and Steinbrink, J. Home Teams: Cooperative Learning in Elementary Science, School Science and Mathematics, Vol. 91, No. 4, April 1991.
- Jones, R.M. Teaming Up in the Science Classroom, Cooperative Learning, Vol. 11, No. 3, April 1991.
- Jones, R.M. and Brown, S. Group Management in the Mathematics Classroom, The Arithmetic Teacher, Vol. 39, No. 5, January 1992.
- Jones, R.M. Making Tests Teach, The National Teaching & Learning Forum, Vol. 2, No. 2, 1993.
- Jones, R.M. and Steinbrink, J. E., Assessment Planning: Measuring the Improvement in Teaching, The National Teaching & Learning Forum, Vol. 2, No. 2, 1993.
- Jones, R.M., Innovations in Science and Mathematics Teaching, Ellipse, Vol. 1, No. 3, Spring, 1993.
- Jones, R.M. and Steinbrink, J.E. Cooperative Test-Review Teams Improve Student Achievement, The Clearing House, Vol. 66, No. 5, May/June, 1993.
- Jones, R.M. The Moon Tunes Project: Just Another Way of Knowing, The Hoosier Science Teacher, Vol. 32, No. 4, Summer 2007.
- Jones, R.M., Bowers, G., and SeEVERS, R. Technology and Students With Special Needs, Academic Exchange Quarterly, Vol. 13, No. 1, Spring 2009.

#### MONOGRAPHS AND CURRICULA:

- Nonrenewable Resources, a unit in Investigating The Environment, U.S. Office of Environmental Education, Harris County Department of Education, Houston, Texas, 1977.
- A Survey of Precollege Energy Education Curricula at the State Level, with John Steinbrink, Energy Monograph Series, University of Houston Energy Institute, Houston, Texas, 1977.
- Energy Education Materials Inventory, Volume I, U.S. Department of Energy, Washington, D.C., 1978.

Flight, Curriculum Guides, National Air and Space Museum of the Smithsonian Institution, Washington, D.C., 1979.

Critical Thinking on Energy, a unit in Project for an Energy Enriched Curricula, U.S. Department of Energy, National Science Teachers Association, Washington, D.C., 1981.

Appropriate Technology for Energy Production, a unit in Project an Energy Enriched Curriculum, Department of Energy, for National Science Teachers Association, Washington, D.C., 1981.

Higher Cognitive Comprehension of Physical Science Curriculum: Teacher Training Module, Region IV Service Center, Houston, Texas, 1982.

Abstracts of Presented Papers and the Proceedings: SW-AETS 1983 Conference,  
Energy Awareness Project, University of Houston-Clear Lake, Houston, Texas, 1983.

Energy Curriculum Institute: Directors Handbook, with John Steinbrink, Energy Awareness Project, University of Houston-Clear Lake, Houston, Texas, 1984.

Conservation Concepts: Saving Energy and Dollars-Teachers Guide, with D. J. Finnell. Houston Lighting and Power Company, Houston, Texas, 1984.

Resource Agent Manual, with Rachele Mills. Houston Lighting and Power Company, Houston, Texas, 1985.

Young Astronaut Program Curriculum Poster Series, Young Astronauts Council, Washington, D.C., 1985-1987.

The Essential Elements Science Unit Modules, K-6, Delta Education, Inc., Nashua, New Hampshire, 1987.

A Quick Reference Guide for Conducting Essential Elements Activities, Delta Education, Inc., Nashua, New Hampshire, 1987.

Correlation Tables: The EESUM Activities and Essential Elements I-X, Delta Education, Inc., Nashua, New Hampshire, 1987.

Energy and the Essential Elements (K-5), A science and social studies curriculum. Houston Lighting and Power Company, Houston, Texas, 1988.

Teaming Up: The ITGMS User's Guide, IT GROUP, Houston, Texas, 1990.

Energy and the Essential Elements (6-8), A science and social studies curriculum. Houston Lighting and Power Company, Houston, Texas, 1991.

The Inquiry Task Group Management System, a unit in Hands Across Texas, Vol. 8, Texas Council for Elementary Teachers, Austin, Texas, 1992.

Rotating Cylindrical Airframes, a unit in the NSF Hands-on Science and Engineering Outreach Program, National Science Foundation, Washington, D.C., 1992.

Prentice Hall Science Correlation To Texas Essential Elements and TAAS Skills: Science I, Prentice Hall Science, Englewood Cliffs, New Jersey, 1993.

Prentice Hall Science Correlation To Texas Essential Elements and TAAS Skills: Science II, Prentice Hall Science, Englewood Cliffs, New Jersey, 1994.

Prentice Hall Science Correlation To Texas Essential Elements and TAAS Skills: Earth Science, Prentice Hall Science, Englewood Cliffs, New Jersey, 1994.

“Water Log,” “Water Models” and “Money Down the Drain,” Project WET Curriculum Guide, The Watercourse, Bozeman, Montana, 1995.

Essential Elements Correlations for Biology I, Prentice Hall Science, Englewood Cliffs, New Jersey, 1997.

Teachers Planning Guide for Biology I, Prentice Hall Science, Englewood Cliffs, New Jersey, 1997.

Correlation of Concepts and Skills in Harcourt Science to the National Science Standards. Harcourt School Publishers, Orlando, Florida, 1999

Correlation of Concepts and Skills in Harcourt Science to the Texas Essential Knowledge and Skills (TEKS), Harcourt School Publishers, Orlando, Florida, 1999.

#### TEXTBOOKS: AUTHORSHIP

Harcourt Science 2000 Student Edition, Harcourt School Publishers; Orlando, Florida; 1999. (Seven volumes, Grades K-6).

Harcourt Science 2000 Teacher Edition, Harcourt School Publishers; Orlando, Florida; 1999. (Seven volumes, Grades K-6).

Harcourt Science 2002 Student Edition, Harcourt School Publishers; Orlando, Florida; 2002. (Seven volumes, Grades K-6).

Harcourt Science 2002 Teacher Edition, Harcourt School Publishers; Orlando, Florida; 2002. (Seven volumes, Grades K-6).

#### TEXTBOOKS: EDITORSHIP

Harcourt Science 2007 Student Edition, Harcourt School Publishers; Orlando, Florida; 2006. (Seven volumes, Grades K-6).

Harcourt Science 2007 Teacher Edition, Harcourt School Publishers; Orlando, Florida; 2006. (Seven volumes, Grades K-6).

Harcourt Science 2007 Challenge Readers, Harcourt School Publishers; Orlando, Florida; 2006. (Six volumes, 93 titles, Grades 1-6).

#### TESTS AND ASSESSMENT MATERIALS:

Texas Assessment of Academic Skills (TAAS): Practice and Preparation Tests (1-6), Silver Burdett & Ginn, Morristown, New Jersey, 1990.

Science Horizons Student Assessment Program, Silver Burdett & Ginn, Morristown, New Jersey, 1992.

TAAS Preparation Program: Science I and II, Prentice Hall Science, Englewood Cliffs, New Jersey, 1993.

Preparation Program For Texas Assessment of Academic Skills (TAAS): Earth Science, Prentice Hall Science, Englewood Cliffs, New Jersey, 1994.

End of Course Preparation Program for Biology I, Prentice Hall Science, Englewood Cliffs, New Jersey, 1997.

BHSSC Program Evaluation Instruments, (20 instruments) The Harris Foundation, Houston, Texas, 2007.

EMBHSSC Program Evaluation Instruments, (25 instruments) The Harris Foundation, Houston, Texas, 2008.

EMBHSSC Program Evaluation Instruments, (30 instruments) The Harris Foundation, Houston, Texas, 2009

EMBHSSC Program Evaluation Instruments, (30 instruments) The Harris Foundation, Houston, Texas 2010.

EMBHSSC Program Evaluation Instruments, (25 electronic instruments) RM Jones, Consultant, La Porte, Texas 2011.

EMBHSSC Program Evaluation Instruments, (20 electronic instruments) RM Jones, Consultant, La Porte, Texas. 2012

EMBHSSC Program Evaluation Instruments, (20 electronic instruments) RM Jones, Consultant, La Porte, Texas. 2013

EMBHSSC Program Evaluation Instruments, (40 electronic instruments) Azimuth LLC. Houston, Texas. 2014



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Houston, Texas. 2015

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Houston, Texas. 2016

#### CHAPTERS IN BOOKS:

"Teacher Centered In-Service: The Development of a CCTV Model," in Planning and Operating Media Centers, Association for Educational Communications and Technology, Washington, D.C., 1975.

"Aerospace Education-Practices and Dreams," The Book of Aerospace Education, American Society for Aerospace Education, Washington, D.C., 1977.

"Quick Fix Energy Checklists for School Administrators," Energy Education, Texas Education Agency, Austin, Texas, 1979.

"Selling Energy," Playing With Energy: Classroom Games and Simulations, National Science Teachers Association, Washington, D.C., 1981.

"A Classroom Management System for Science Activities," with John Lord. Teaching About Energy, Enterprise for Education, Inc., Santa Monica, California, 1984.

"Using Inquiry Task Groups in Elementary Science," Stepping Into Successful Science Teaching, Texas Education Agency, Austin, Texas, 1986.

"Energy Resources and Technologies," Wind, Water, Fire and Earth: Energy Lessons for the Physical Sciences, National Science Teachers Association, Washington, D.C., 1986.

"Improving Student Scores: The Two Level Cooperative Group Learning Model," with John Steinbrink. What Works in Urban Education: A Compendium of Practitioner Identified Effective Practices. Pennsylvania Sciences Research Monograph, Bloomsburg, Pennsylvania, 1989.

"Cooperative Learning," with John Steinbrink. Science Horizons - Teacher's Edition (K-6), Silver Burdett & Ginn, Morristown, New Jersey, 1990.

"Cooperative Learning Makes Every Student a Winner!" Science Horizons Professional Handbook, Silver Burdett & Ginn, Morristown, New Jersey, 1992.

"Forming and Implementing Design Teams: A Guide For Teachers," A World In Motion, SAE International, Pittsburgh, Pennsylvania, 1992.

"Cooperative Learning: Applications in Science Education," Teachers Desk Reference,

Prentice Hall, Englewood Cliffs, New Jersey, 1992.

"The Inquiry Task Group Management System," Teaching Science Through Discovery, Merrill, New York, 1992.

"Cooperative Learning and Science-The Perfect Match," Texas Teachers Desk Reference, Prentice Hall, Englewood Cliffs, New Jersey, 1993.

"Cooperative Learning and Thematic Science, " Teacher's Desk Reference: Science II, Prentice Hall Science, Englewood Cliffs, New Jersey, 1994.

"Authentic Assessment: The Texas Answer is TAAS," Teacher's Desk Reference: Science II, Prentice Hall Science, Englewood Cliffs, New Jersey, 1994.

"Cooperative Learning and Science - The Perfect Match," Teacher's Desk Reference: Life, Earth, and Physical Science, Prentice Hall Science, Englewood Cliffs, New Jersey, 1994.

"The Jigsaw III Model = Jigsaw II + Cooperative Test Review: Applications to the Science Classroom," in Cooperative Learning in Science, Addison-Wesley, Menlo Park, California, 1995.

"The Inquiry Task Group Management System," Teaching Science Through Discovery, Merrill, New York, 1995.

"Cooperative Learning and Coordinated Thematic Science," Texas Teacher's Desk Reference, Science II Edition, Prentice Hall, Englewood Cliffs, New Jersey, 1995.

"Authentic Assessment: What Test? How to Test? These Are the Questions!" Texas Teacher's Desk Reference, Science II Edition, Prentice Hall, Englewood Cliffs, New Jersey, 1995.

"The Inquiry Task Group Management System," Teaching Science Through Discovery, Merrill, New York, 2000.

"Cooperative Learning," Science in Elementary Education, Merrill, Columbus, Ohio, 2006.

"Cooperative Learning," Teaching Science for All Children: Third Edition, Allyn & Bacon, Boston, 2006

"Cooperative Learning Groups," Teaching Science for All Children: Fourth Edition, Allyn & Bacon, Boston, 2008.

PROJECT REPORTS:

University of Houston-Clear Lake Self-Study Report, A report for the Southern Association of Colleges and Schools, University of Houston-Clear Lake, Houston, Texas, 1982.

Annual Progress Report to the National Science Foundation: Project BEAMS  
Brownsville  
Engineering Alliances for Minorities, December, 1994.

Director's Report to NASA-Johnson Space Center: Summer Science  
Teacher Enhancement Project (STEP), September 1994.

An Analysis and Review of the Montgomery ISD Science Curriculum, December, 1995.

Director's Report: Teaching Environmental Sciences Institute, September, 1996.

Bernard Harris 2007 Summer Science Camp Program Evaluation Report, A report for the ExxonMobil Foundation, October, 2007.

Bernard Harris 2008 Summer Science Camp Program Evaluation Report, A report for the ExxonMobil Foundation, December, 2008.

ExxonMobil Bernard Harris Summer Science Camp Program Evaluation Report, A report for the ExxonMobil Foundation, November 2009.

ExxonMobil Bernard Harris Summer Science Camp Program Evaluation Report, A report for the ExxonMobil Foundation, December, 2010.

ExxonMobil Bernard Harris Summer Science Camp Program Evaluation Report, A report for the ExxonMobil Foundation, December, 2011.

ExxonMobil Bernard Harris Summer Science Camp Program Evaluation Report, A report for the ExxonMobil Foundation, December, 2012.

ExxonMobil Bernard Harris Summer Science Camp Program Evaluation Report, A report for the ExxonMobil Foundation, December, 2013.

ExxonMobil Bernard Harris Summer Science Camp Program Evaluation Report, A report for the ExxonMobil Foundation, December, 2014.

ExxonMobil Bernard Harris Summer Science Camp Program Evaluation Report, A report for the ExxonMobil Foundation, December, 2015.

ExxonMobil Bernard Harris Summer Science Camp Program Evaluation Report, A report for the ExxonMobil Foundation, December, 2016.

PAPERS:

Affective Outcomes of Aerospace Education, paper presented at the concurrent session on Aerospace Education, at the National Conference of the Association for Supervision and Curriculum Development, Philadelphia, Pennsylvania, March 1972.

Utilization of Closed Circuit Television in Inservice Education for Elementary Teachers, paper presented at the National Aerospace Education Association Congress, Oklahoma City, Oklahoma, April 1973.

A Systems Design for Improvement of Earth Science Instruction, K-12, paper presented at the National Association of Geology Teachers Section, GSA National Conference, Dallas, Texas, November 1973.

The Systems Approach Process, Change, and K-16 Science Education in Oklahoma, presented at Oklahoma Academy of Sciences Meeting, Oklahoma City, Oklahoma, November 1973.

The Systems Approach in Science Education, paper presented at the Southwest Regional Conference of the Association for the Education of Teachers in Science, Estes Park, Colorado, January 1974.

The Systems Approach and the Improvement of Science Education, paper presented at the 23rd Annual Conference of the National Science Teachers Association, Chicago, Illinois, March 1974.

Resource Banking for the Improvement of Education, paper presented at the 23rd Annual Conference of the National Science Teachers Association, Chicago, Illinois, March 1974.

A Baseline Survey of the Status of Science Education, K-6 in Oklahoma, paper presented at the concurrent session, A State-wide Cooperative Project for the Improvement of Science Education, National Science Teachers Association Area Conference, Denver, Colorado, November 1974.

Outdoor Education at Armand Bayou, paper presented at contributed papers session, Texas Academy of Science, Huntsville, Texas, March 1975.

Operationalizing the CBTE Methods Courses, paper presented at the concurrent session, Competency Based Approaches to Science Education, National Science Teachers Association Area Conference, Oklahoma City, Oklahoma, October 1975.

Outdoor Education, paper presented at the Conference for the Advancement of Science Teaching, Edinburg, Texas, October 1975.

Humanizing Experiences for Inservice Teachers, paper presented at contributed papers session, National Aerospace Education Association Conference, Las Vegas, Nevada, March 1976.

Interdisciplinary Approaches in Teacher Education: Focus on Energy Education, paper presented at state conference of Texas Association of Teacher Educators, April 1977.

OBIS-Simulations in Ecology, paper and workshop presented at the Conference for the Advancement of Science Teaching, San Marcos, Texas, October 1977.

The Teacher as Curriculum Developer, paper presented at the National Conference of the Association for Supervision and Curriculum Development, San Francisco, California, March 1978

Energy and Your Generation, paper presented at the 23rd Student Conference on National Affairs, College Station, Texas, February 1978.

Energy Education Curricula, paper and workshop presented at National Science Teachers Association Area Conference, New Orleans, Louisiana, November 1978.

National  
OBIS-Games and Simulations in Ecology, paper and workshop presented at the Science Teachers Association Area Conference, New Orleans, Louisiana, November 1978.

Humanistic Learning Environments for Inservice Teachers, paper presented at the Southwest Regional Conference of the Association for the Education of Teachers in Science, Estes Park, Colorado, January 1979.

Successful Strategies for Developing an Energy Curriculum, paper presented at the National Association of Secondary School Principals National Conference, Houston, Texas, February 1979.

Teacher Centered Supervision System, paper presented at the Texas Association for Supervision and Curriculum Development, Dallas, Texas, November 1979.

The Teacher Centered Supervision System, paper presented at the Southwest Regional Association for the Education of Teachers in Science, New Orleans, Louisiana, January 1980.

Confluent Curriculum Development, paper presented at the National Conference of the Association for Supervision and Curriculum Development, Atlanta, Georgia, March 1980.

Shared Responsibility in Staff Development, paper presented at Texas Association for Supervision and Curriculum Development, Houston, Texas, November 1980.

Humanistic Learning Environments: The Development of the Energy Institute Model, paper presented at the Annual Conference of the National Council of Social Studies, New Orleans, Louisiana, November 1980.

The Teacher Centered Supervision System, paper and action laboratory presented at the National Conference of the Association for Supervision and Curriculum Development, St. Louis, Missouri, March 1981.

The Shared Resources Model in Energy Education, paper presented at Southwest Regional Conference of the Association for the Education of Teachers in Science, Kansas City, Kansas, January 1981.

Developing Science Learning Centers for the Elementary Classroom, paper presented at  
at the 30th National Conference of the National Science Teachers Association, New York, New York, April 1981.

A Program for Developing Professional Relationships Between Pre-service and In-service Science Education Teachers, paper presented at the 30th National Conference of the National Science Teachers Association, New York, New York, April 1981.

Elementary Science Learning Centers, paper presented at the National Science Teachers Association Area Conference, Denver, Colorado, November 1981.

The Energy Curriculum Institute Project, paper presented at the National Science Teachers Association Area Conference, Denver, Colorado, November 1981.

Curriculum Institutes: The Local Shared Resources Model, paper presented at the Southwest Regional Conference of the Association for the Education of Teachers in Science, Estes Park, Colorado, January 1982.

Curriculum Institutes: Humanistic Learning Environments for Teachers, paper presented at the National Conference of the Association for Supervision and Curriculum Development, Anaheim, California, March 1982.

Curriculum Institutes: Humanistic Learning Environments for Teachers, paper presented at the University of Houston System Conference on Teaching, Houston, Texas, April 1982.

Confluent Curriculum Development: A Logical Proposal, paper presented at the Fourth Conference on Curriculum Theory and Practice, Airlie House, Virginia, October 1982.

The Shared Local Resources Model for Teacher Institute Development, paper presented at the Southwest Regional Conference of the Education of Teachers in Science,

Wichita, Kansas, January 1983.

The Inequities of Computer Education, paper presented at the National Conference of the Association for Supervision and Curriculum Development, Houston, Texas, March 1983.

Managing the Inquiry Environment, paper and workshop presented at the 31st National Conference of the National Science Teachers Association, Dallas, Texas, April 1983.

Teacher Institutes: The Shared Local Resources Model, paper presented at the 31<sup>st</sup> Annual Conference of the National Science Teachers Association, Dallas, Texas, April 1983.

Managing the Inquiry Environment, paper presented at the Southwest Regional Conference of the Association for the Education of Teachers in Science, Wichita, Kansas, January 1984.

Science Learning Centers in the Elementary Classroom, paper presented at the 32nd Annual Conference of the National Science Teachers Association, Boston, Massachusetts, April 1984.

Managing the Inquiry Environment, paper and workshop presented at the Conference for the Advancement of Science Teaching, Beaumont, Texas, November 1984.

A Practical Model for Confluent Curriculum, paper presented at the Sixth Conference on Curriculum Theory and Practice, Bergamo Center, Ohio, November 1984.

Utilizing Structured Inquiry Groups in Elementary Science, paper presented at the National Science Teachers Association Area Conference, Albuquerque, New Mexico, November 1984.

Developing School-University-Industry Alliances, paper presented at the Southwest Regional Conference of the Association for the Education of Teachers in Science, Denton, Texas, January 1985.

Language Development Through Aerospace Activities, paper presented at the Annual Conference of the National Council of Teachers of English, Houston, Texas, March 1985.

Structured Inquiry Task Groups in Elementary Methods Courses, paper presented at the Annual Conference of the Association for the Education of Teachers in Science, Cincinnati, Ohio, April 1985.

Activities for Aerospace Education, paper presented at the 33rd Annual Conference of the National Science Teachers Association, Cincinnati, Ohio, April 1985.

Managing the Inquiry Environment, paper presented at the 33rd Annual Conference of the National Science Teachers Association, Cincinnati, Ohio, April 1985.

The Inquiry Task Group Management System, paper presented at the 34th Annual Conference of the National Science Teachers Association, San Francisco, California, March 1986.

Managing the Elementary School Science Classroom, paper and address presented at the Conference for the Advancement of Science Teaching, College Station, Texas, October 1986.

Essential Elements Science Unit Modules, paper and workshop presented at the Conference for the Advancement of Science Teaching, College Station, Texas, October 1986.

Managing the Inquiry Environment, paper and workshop presented at the Conference for the Advancement of Science Teaching, College Station, Texas, October 1986.

Content and Process in Science Lesson Development, paper presented at the Southwest Regional Conference of the Association for the Education of Teachers in Science, Colorado Springs, Colorado, January 1987.

The EESUM Project, paper presented at the Science Education Symposium of the Texas Academy of Science, Huntsville, Texas, March 1987.

Teaching Social Studies: Using Cooperative Small Groups, paper and workshop presented at the 35th Annual Conference, Texas Council for the Social Studies, Galveston, Texas, October 1987.

The Bayshore Aerospace Festival, paper presented at the Joint Conference, CAST-NSTA, San Antonio, Texas, November 1987.

Using Small Groups to Teach Science, paper presented at the Joint Conference, CAST-NSTA, San Antonio, Texas, November 1987.

Conceptual Curriculum Development, paper presented at the Southwest Regional Conference of the Association for the Education of Teachers in Science, Oklahoma City, Oklahoma, January 1988.

Concept Learning Strategies: Using Cooperative Groups in Science and Social Studies, paper presented at the Third Annual Phi Delta Kappa Research Into Practice Conference, Houston, Texas, March 1988.

A Model for Improving Student Test Scores in Science, paper presented at the 36th Annual Conference of the National Science Teachers Association, St. Louis, Missouri, April 1988.

Improving Students' Test Scores in Science, paper and workshop presented at the Conference for the Advancement of Science Teaching, Galveston, Texas, October 1988.



- Meeting the Texas Science Framework for Elementary Science Using EESUM, paper presented at the Conference for the Advancement of Science Teaching, Galveston, Texas, October 1988.
- Improving Students' Test Scores in Science, paper presented at the Area Conference of the National Science Teachers Association, Little Rock, Arkansas, October 1988
- A Model for Improving Student Test Scores in Science and Social Studies, paper and workshop presented at the 12th Annual Meeting of the Southwest Educational Research Association, January 1989.
- A Model for Improving Student Test Scores in Science, paper presented at the 37th Annual Conference of the National Science Teachers Association, Seattle, Washington, April 1989.
- Improving Students' Test Scores in Science, paper presented at the National Science Teachers Association Area Conference, Tulsa, Oklahoma, October 1989.
- Improving At-Risk Student Test Scores, paper presented at the Fourth Annual Phi Delta Kappa Research Into Practice Conference, Houston, Texas, March 1989.
- Focused Study Items and Modified Publisher Tests: Let's Eliminate Failure in Social Studies, paper presented at the Texas Association for the Improvement of Reading (TAIR) Conference, Houston, Texas, October 1989.
- Improving At-Risk Student Test Scores, paper presented at the National Conference of the Association for Supervision and Curriculum Development, San Antonio, Texas, March 1990.
- Identifying TAAS Objectives in Content Reading, paper presented at the Texas Association for the Improvement of Reading (TAIR) Conference, Houston, Texas, October 1990.
- Conceptual Curriculum Development in Biology, paper presented at the annual convention of the National Association of Biology Teachers (NABT), Houston, Texas, November 1990.
- Conceptual Curriculum Development in Science, paper presented at the Southwest Regional Conference of the Association for the Education of Teachers in Science, Colorado Springs, Colorado, January 1991.
- Improving the Test Review Process, paper presented at the Sixth Annual Phi Delta Kappa Research Into Practice Conference, Houston, Texas, March 1991.
- Cooperative Learning: The Teaming Up Model, paper presented at the 39th Annual Conference of the National Science Teachers Association, Houston, Texas, April 1991.

New Models for Teacher Training, address and paper presented at the Conference on Science Education Reform, Center for Mathematics and Science Education, Texas A&M University, College Station, Texas, May, 1991.

A World In Motion, paper and workshop presented at the Southwest Regional Conference of the Association for the Education of Teachers in Science, Tulsa, Oklahoma, January 1992.

The Environmental Language of Our Region, paper and symposium presented at the Southwest Regional Conference of the Association for the Education of Teachers in Science, Tulsa, Oklahoma, January 1992.

Cooperative Test Review Teams: Closing the Circle of Learning, paper presented at the Phi Delta Kappa Conference, University of Houston-Clear Lake, March 1992.

The Center for Flying Can Phenomena, paper and workshop presented at the 40th Annual Conference of the National Science Teachers Association, Boston, Massachusetts, March 1992.

Assessment Planning: Improving Student Test Scores, paper presented at the Summer Conference of the Texas Elementary Principals and Supervisors Association, Austin, Texas, June 1992.

Social Related Issues in Science: An Endangered Species Example, paper presented at the National Association for Environmental Education Conference on Endangered Species, Bozeman, Montana, July 1992.

Cooperative Learning in Outdoor Education, paper presented at the National Association for Environmental Education Conference on Endangered Species, Bozeman, Montana, July 1992.

A World in Motion: Innovations in Physical Science Education, paper and address presented at the Texas Teachers of Physical Science Meeting, Conference for the Advancement of Science Teaching, Fort Worth, Texas, October 1992.

Cooperative Learning in Elementary Science, poster session and paper presented at the Texas Council for Elementary Science Meeting, Conference for the Advancement of Science Teaching, Fort Worth, Texas, October 1992.

Assessment Planning: Measuring the Improvement in Teaching, paper presented at the Texas Elementary Principals and Supervisors Association Conference, Houston, Texas, 1992.

A World In Motion, Authentic Assessment in Physical Science, paper presented at the Southwest Regional Conference of the Association for the Education of Teachers in Science, Corpus Christi, Texas, January 1993.

Cooperative Grouping in the Elementary Science Methods Course, paper presented at the Annual Meeting of the Association for the Education of Teachers in Science, Charleston, South Carolina, January 1993.

Long-term Cooperative Learning Projects, paper and workshop presented at the Area Convention of the National Science Teachers Association, Denver, Colorado, October 1993.

A Preparation Program for TAAS Science, paper presented at the Conference for Advancement of Science Teaching, Austin, Texas, November 1993.

The Environmental Language of Science, paper and workshop presented at the Annual Meeting of the Association for the Education of Teachers in Science, El Paso, Texas, January 1994.

Rotating Cylindrical Airframes: The R<sup>3</sup> Project, paper and workshop presented at the Annual Meeting of the Association for the Education of Teachers in Science, El Paso, Texas, January 1994.

A Preparation Program for TAAS Science, paper and workshop presented at the Winter Meeting of the Metropolitan Area Teachers of Science, Houston, Texas, February 1994.

Teaming Up! Cooperative Learning in Science, paper and workshop presented at the TEA Science Summit Conference, El Paso, Texas, February 1994.

Developing TAAS Performance Task Skills, paper and workshop presented at the TEA Science Summit Conference, El Paso, Texas, February 1994.

Developing TAAS Skills in Middle School Science, paper and workshop presented at the Spring Conference of the Rio Grande Valley Science Teachers Association, McAllen, Texas, March 1994.

Improving TAAS Science and Mathematics Scores, paper and workshop presented at the Spring Conference of the Metropolitan Area Teachers of Science, Houston, Texas, April 1994.

Prentice Hall Science TAAS Preparation Programs, paper and workshop presented at the 41st Annual Conference for the Advancement of Science Teaching, Beaumont, Texas, October 1994.

The TAAS Preparation Program for Middle School Science, paper and workshop presented at the Winter Meeting of the Metropolitan Area Teachers of Science  
Houston, Texas, February 1995.

BEAMS - Supporting the Minds of Children, paper presented at the NSF Conference on Diversity in the Scientific and Technological Workforce, Washington, DC, September 1995.

The Aerospace Institute: A Model for Interdisciplinary Science, paper presented at the 42<sup>nd</sup> Conference for the Advancement of Science Teaching, Corpus Christi, Texas, November 1995.

- Project BEAMS: Systemic Change in Science, Engineering and Mathematics Education,  
paper presented at the 42<sup>nd</sup> Annual Conference for the Advancement of Science Teaching, Corpus Christi, Texas, November 1995.
- School Based Recycling Programs, paper presented at the Environmental Institute of Houston National Conference on the Environment, Houston, Texas, April 1997.
- The EIH School Yard Habitat Program, paper presented at the Southern Regional Conference of the Urban Harvest Coalition, Houston, Texas, August 1997.
- Managing Activities in Harcourt Science, paper and workshop presented at the 49<sup>th</sup> Annual Conference of the National Science Teachers Association, Boston, Massachusetts, April 1999.
- Environmental Activities in Harcourt Science, paper and workshop presented at the 48<sup>th</sup> Annual Conference of the National Science Teachers Association, Orlando, Florida, April 2000.
- Integrating Environmental Education and Cultural Diversity Through Technology, paper presented at the 29<sup>th</sup> annual conference of the North American Association for Environmental Education, South Padre Island, Texas, October 2000.
- Team Learning in Elementary Science, paper presented at Texas Science Education Leadership Association Winter Conference, San Antonio, Texas, January 2002.
- Teaming Up! Cooperative Learning in Elementary Science, paper and workshop presented at the 49th Annual Conference for the Advancement of Science Teaching, El Paso, Texas, November 2002.
- Cooperative Learning in Elementary Science, poster session presented at the Annual Meeting of the Association for the Education of Teachers in Science, St. Louis, Missouri, January 2003.
- Cooperative Learning in the Elementary Science Methods Course, paper presented at the Southwest Regional Conference of the Association for the Education of Teachers in Science, Fort Worth, Texas, March 2003.
- Concept Mapping for Curriculum Development, paper presented at the Annual Meeting of the Association for the Education of Teachers in Science, Nashville, Tennessee, January 2004.
- A Brief History of the Teaming Up! Cooperative Learning Model, poster session presented at the Southwest Regional Conference of the Association for the Education of Teachers in Science, Georgetown, Texas, February 2004.

Patterns of Meaning; Concept Mapping for Curriculum Development, paper presented at the Southwest Regional Conference of the Association for the Education of Teachers in Science, Georgetown, Texas, February 2004.

The Next Generation of Elementary Science Textbooks; Some Observations from an Author, paper presented at the Southwest Regional Conference of the Association for Science Teacher Education, San Antonio, Texas, February 2005.

Electronic Textbooks in Elementary Science; They Are Here, paper presented at the Southwest Regional Conference of the Association for Science Teacher Education, College Station, Texas, March 2006.

A Survey of Use Patterns at the Hughes Road Elementary School Wildscape-Garden Site, poster session presented at the Southwest Regional meeting of the American Association for the Advancement of Science, Houston, Texas, April 2007.

The Hughes Road Elementary School Texas Wildscape-Garden Project, poster session presented at the annual conference of the National Association for the Advancement of Environmental Education, Virginia Beach, Virginia, November 2007.

From Horse and Buggy to Spaceship: The Development of the EMBHSSC Program Evaluation Process, paper presented at the Southwest Regional Conference of the Association for Science Teacher Education, Houston, Texas, October, 2012.

An Emerging Model for STEM Education in Middle School, paper presented at the Southwest Regional Conference of the Association for Science Teacher Education, San Antonio, Texas, November, 2013.

### **GRANTS AND CONTRACTS**

An Innovative Program of Regional Services, with Larry Thomas. Funded through ESEA Title III, 1972. ESSC, Stillwater, Oklahoma \$243,000.

An Application of Systems Design Concepts to Development of a Plan for Meeting the K-12 Earth Science Educational Needs of Oklahoma Students, with Edward C. Stoever. Funded through NSF Grant FW 7654, 1973, University of Oklahoma. \$83,436.

A Systems Approach to the Development of an Educational Improvement Program in the Earth Sciences for the State of Oklahoma, with Edward C. Stoever. Unfunded, 1973. University of Oklahoma.

Awareness Workshops in Earth Science for Elementary Science Leadership in Oklahoma,

with John Jay Rusch, Ted Mills and Don Kellogg. Funded through NSF, 1974-75. University of Oklahoma. \$176,000.

Man, Environment and Human Institutions, with John Steinbrink. Funded by the World Order Program, 1976. \$500.

A Developmental Program in Energy Education, with John Steinbrink. Funded by the Department of Energy Institute, 1976. \$6565.

Citizens' Workshops in Energy Education, with John Steinbrink. Funded by Department of Energy, 1976. \$2000.

Program Development in Energy Education, with John Steinbrink. Funded by the University of Houston Energy Institute, 1977. \$5900.

Citizen's Workshops in Energy Education, with John Steinbrink. Funded by the Department of Energy, 1977. \$2000.

Validation, Annotation, Updating and Reformatting of the Energy Education Materials Inventory, with John Steinbrink and Marie Dalton. Funded by Department of Energy, 1978. \$30,700.

Development of Teaching Resources in Energy Education, with John Steinbrink. Funded by Exxon, 1978. \$7500.

Faculty Institute: Energy Today and Tomorrow, with John Steinbrink and Jim Coomer. Funded by Shell Companies Foundation, 1978. \$17,600.

Citizens' Workshops in Energy Education, with John Steinbrink. Funded by Department of Energy, 1979. \$2000.

Faculty Institute: Energy Today and Tomorrow, with John Steinbrink. Funded by Shell Companies Foundation, 1979. \$19,500.

Faculty Institute: Energy Today and Tomorrow, with John Steinbrink. Funded by Shell Companies Foundation, 1980. \$19,850.

Energy Curriculum Institute, with John Steinbrink. Funded by Shell Companies Foundation, 1981. \$19,650.

National Energy Curriculum Institutes for Teachers: Pilot Program, with John Steinbrink. Funded by Shell Companies Foundation, 1982. \$46,615.

Energy Curriculum Institute, with John Steinbrink. Funded by Shell Companies

Foundation, 1983. \$4,975.

National Energy Curriculum Institute for Teachers: Phase II, with John Steinbrink.  
Funded by Shell Companies Foundation, 1983. \$40,231.

Energy Curriculum Institute, with John Steinbrink. Funded by Shell Companies  
Foundation, 1983. \$3,975.

National Energy Curriculum Institutes for Teachers, with John Steinbrink. Funded by  
Shell Companies Foundation, 1984. \$41,712.

Energy Curriculum Institute, with John Steinbrink. Funded by Shell Companies  
Foundation, 1984. \$4,885.

Energy Conservation Education for Inservice Teachers, with John Steinbrink.  
Funded by Houston Lighting and Power Company, 1984. \$26,091.

National Energy Curriculum Institutes for Teachers, with John Steinbrink. Funded by  
Shell Companies Foundation, 1985. \$42,395.

Energy Curriculum Institute, with John Steinbrink. Funded by Shell Companies  
Foundation, 1985. \$3,450.

The Development of an Energy Education Resource Agent Network, with John  
Steinbrink. Funded by Houston Lighting and Power Company, 1985. \$53,688.

National Energy Curriculum Institutes for Teachers, with John Steinbrink. Funded by  
Shell Companies Foundation, 1986. \$31,775.

Energy Curriculum Institute, with John Steinbrink. Funded by Shell Companies  
Foundation, 1986. \$2,400.

The Development of an Energy Education Resource Agent Network, with John  
Steinbrink. Funded by Houston Lighting and Power Company, 1986. \$55,621.

Field Trips, Workshops and Graduate Seminars, with John Steinbrink. Funded by  
Houston Lighting and Power Company, 1987. \$19,742.

National Energy Curriculum Institutes for Teachers, with John Steinbrink. Funded by  
Shell Companies Foundation, Inc., 1987. \$29,577.

Data Collection and Analysis of Teacher Training Institutes: The Local Shared  
Resources Model, with J. Steinbrink. Funded by Shell Companies Foundation, Inc. 1987.  
\$2,400.

Field Trips, Workshops and Summer Graduate Workshops, with J. Steinbrink.  
Funded by  
Houston Lighting & Power Company, 1988, \$19,524.

Field Trips, Workshops and Essential Elements Curriculum Dissemination Programs,  
With J. Steinbrink. Funded by Houston Lighting & Power Company, 1989,  
\$15,945.

Field Trips, Workshops and Essential Elements Curriculum Dissemination Programs,  
with J. Steinbrink. Funded by Houston Lighting and Power Company, 1990,  
\$16,412.

Energy Awareness Project. Funded by Houston Lighting & Power Company,  
1991,  
\$6,600.

Seminar in Aerospace Education, with Dennis Spuck. Funded by NASA-Johnson  
Space  
Center, 1991, \$37,500.

The Reduce, Reuse, Recycle Curriculum Development Project. Funded by McDonnell-  
Douglas Corporation, 1992, \$20,000.

Teacher Training Institute in Coordinated Thematic Science (Aero-Space Education).  
Funded by NASA-Johnson Space Center, 1994, \$99,995.

The Delivery and Evaluation of a Teacher Training Institute in Coordinated Thematic  
Science (Aerospace Education) at the Johnson Space Center. Funded by  
NASA-Johnson Space Center. 1995, \$32,185.

Teaching Environmental Sciences: A Teacher Training Institute, Funded by Houston  
Lighting and Power, March 1996, \$14,980.

Field Testing the Reduce, Reuse, Recycle Curriculum Activities. Funded by the  
Environmental Institute of Houston, 1996, \$6,000.

and Teaching Environmental Sciences Teacher Institute. Funded by Houston Lighting  
Power Company, 1997, \$15,000.

Alternative Transportation Fuels Curriculum Training for Teachers.  
Funded by the Texas Railroad Commission, 1997, \$70,000.

Editing and Preparation of the EIH Volunteer Handbook. Funded by the Environmental  
Institute of Houston. 1999, \$6,368.

Support Funds Improving Instructional Strategies for STEM Education through Student Comment  
Themes. Funded by the University of Houston Faculty Research  
Program, 2010, \$3,158.

### **LEADERSHIP POSITIONS**



Director, Unified Sciences and Mathematics Field Test Site, University of Houston, Houston, Texas, 1975-76.

Chairman, Elementary Section of the Council on Aerospace Education of the National Aeronautic Association, Washington, D.C., 1975-76.

Editorial Consultant, Journal of Aerospace Education, Washington, D.C., 1975-80.

Director, Outdoor Biology Instructional Strategies Resource Center, University of Houston-Clear Lake, Houston, Texas, 1976-1982.

Co-Director, Health Activities Curriculum Project Field Test Center, University of Houston-Clear Lake, Houston, Texas, 1977-78.

Co-Director, Energy Awareness Project, University of Houston-Clear Lake, Houston, Texas, 1978-1989.

Chairperson, Science Activities for the Visually Impaired-Physically Handicapped Conference, University of Houston-Clear Lake, Houston, Texas, 1984.

Chairperson, School Health Committee, American Lung Association, Houston, Texas, 1985-86.

Member, Board of Directors, Association for the Education of Teachers in Science – Southwest Area, 1984-87.

Director, Association for the Education of Teachers in Science - Southwest Area, 1985-86.

Member, National Board of Directors, Association for the Education of Teachers in Science, 1985-86.

Chairperson, National Conference Program Committee, Association for the Education of Teachers in Science, 1986-87.

Chairperson, Concurrent Sessions Speakers Committee, CAST-88, 1987-88.

Editorial Reviewer, School Science and Mathematics, 1988-92.

Director, Elementary School Science Resource Center, University of Houston-Clear Lake, 1988-1990.

Chairperson, Hospitality Committee, National Association of Biology Teachers Conference, Houston, Texas, 1989-1990.

Chairperson, Faculty Senate Ad Hoc Committee on Sexual Harassment, 1992.

Chairperson, Tenure and Promotion Committee, School of Education, 1992.

Chairperson, Task Force on Shared Governance, School of Education, 1992-1993.

Program Chairperson, Southwest Region Conference of the Association for the Education of Teachers in Science, 1992.

Chairperson, Southwest Region Association for the Education of Teachers in Science, Ad Hoc Committee for the Establishment of a Mid-Career Recognition Award (Martha Kime Piper Award), 1992.

Chairperson, Southwest Region Association for the Education of Teachers in Science, Ad Hoc Committee for selection of 1994 National Conference Site, 1992.

Co-Chairperson, Association for the Education of Teachers in Science, 1994 National Conference Committee, 1992-1993.

Member, National Expert Panel of Science Educators, New Mexico Secondary Science Education Systemic Curricular Reform Initiative, 1992-1995.

Chairperson, Task Force for External Funding, Association for the Education of Teachers in Science, 1993-1994.

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1999.

Chairperson, Speakers Committee, Conference for the Advancement of Science Teaching (CAST), 1994.

Education Advisor, Environmental Institute, University of Houston, 1994-1996.

Member, International Expert Panel of Educators, Universidad Autonoma de Guadalajara, 1995-1996.

Chairperson, Educational Policy and Courses Committee, University of Houston-Clear Lake, 1997-1998.

Chairperson, Associate Dean Search Committee, School of Education, University of Houston-Clear Lake, 1999-2000.

Chairperson, SACS Subcommittee on Programs and Services, University of Houston-Clear Lake, 2000-2002.

Member, Board of Directors, Southwest Region Association for Science Teacher Education, 2002-2008.

### **SELECTED CONSULTATIONS**

Curriculum Consultant, Educational Programs Division, Johnson Space Center, Houston, Texas. 1975-89.

Curriculum Consultant, Region IV Service Center, Houston, Texas. 1978-82.

Curriculum Consultant, National Air and Space Museum, Washington, D.C. 1979-82.

Curriculum Consultant, Young Astronaut Program, Washington, D.C. 1984-87

Curriculum Consultant and Director of Elementary School Science Resource Center, Delta Education, Nashua, New Hampshire. 1984-1989.

Curriculum Consultant, Houston Lighting and Power Company, Houston, Texas. 1986-1991.

Curriculum Consultant, Region XVI Service Center, Amarillo, Texas. 1987-88.

Curriculum Consultant, University of North Texas, Denton, Texas. 1990.

Curriculum Consultant, Center for Instructional Development and Services, Florida State University, Tallahassee, Florida. 1990.

Curriculum Consultant, Silver Burdett and Ginn Publishers, Dallas, Texas. 1990.

Curriculum Consultant, Southwest Center for Restructuring Science, Baylor College of Medicine, Houston, Texas. 1990-1991.

Assessment Consultant, Silver Burdett and Ginn Publishers, Morristown, New Jersey. 1991-1992.

Curriculum Consultant, Society of Automotive Engineers, Pittsburgh, Pennsylvania. 1990-1994.

Assessment Consultant, Silver Burdett & Ginn Publishing Company, Morristown, New Jersey, 1992.

Curriculum Consultant, Division of Science, Texas Education Agency, Austin, Texas, 1992-1994.

Curriculum Consultant, Prentice Hall Publishing Company, Englewood Cliffs, New Jersey, 1992-1998.

Assessment Consultant, Macmillan Publishing Company, New York, 1992-1993.

Assessment Consultant, Glencoe Publishing Company, Columbus, Ohio, 1992-1993.

Curriculum Consultant, Space Center Houston, Houston, Texas, 1992-1993, 2006-2007.

Curriculum Consultant, National Project WET (Water Education for Teachers), 1992-1994.

Curriculum Consultant, SAE - The Engineering Society for Advancing Mobility, Land, Sea, Air, and Space, Pittsburgh, Pennsylvania, 1993-1995.

Assessment Consultant, Conroe Independent School District, Conroe, Texas, 1995-2001.

Assessment Consultant, Merrill Education College Division, Columbus, Ohio, 1995-1998.

Curriculum Consultant, Glencoe Division of McGraw-Hill, Westerville, Ohio, 1995-1996

Curriculum Consultant and Author, Harcourt School Publishers, Orlando, Florida. 1998-2004.

Senior Editorial Advisor, Harcourt School Publishers, Orlando, Florida, 2004-2010.

Program Evaluator, Bernard Harris Summer Science Camps Project, The Harris Foundation, Houston, Texas, May 2007-2017.

**February, 2017**