

CURRICULUM VITA

J. Truman Stevens, Ed.D.

Present Position: Associate Professor of Science Education
Department of Curriculum and Instruction
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EDUCATION

Ed.D., 1972 Science Education, University of Virginia, Charlottesville, VA
M.Ed., 1969 Science Education, University of Virginia, Charlottesville, VA
B.S., 1964 Physics and Chemistry, Georgetown College, Georgetown, KY

AREAS OF INTEREST

Curriculum Development; Teacher Preparation and Certification; Science Teacher Education (Elementary, Middle, and Senior High School); Development and Implementation of Innovative Teaching Methods and Materials in Science Classrooms; Using Computer Interface Devices in Gathering and Analyzing Scientific Data; Science Teaching and the Development of Reasoning (Problem Solving); and Safety in the Science Laboratory,

PROFESSIONAL EXPERIENCE

August 1, 2007 – Present: Associate Professor of Science Education, Department of Curriculum and Instruction.

July 1, 2004 – July 31, 2007: Chair, Department of Curriculum and Instruction, College of Education, University of Kentucky. Coordinated programs including elementary, middle, and secondary school education; literacy; curriculum and instruction; and instructional systems design. Program levels include undergraduate, master's, and doctoral degrees (including a variety of certification specialties); supervised and evaluated approximately 25 fulltime and 25

part-time faculty members; collaborated in the selection and assignment of teaching, graduate, and research assistants; and oversaw program and curriculum development initiatives.

May 16, 2003 – June 20, 2007: Interim Chair, Department of Curriculum and Instruction, College of Education, University of Kentucky (See previous description.)

September 1986 – May 15, 2003: Associate Professor, Department of Curriculum and Instruction, College of Education and Associate of the Appalachian Center (1989 - 2000), University of Kentucky. Taught undergraduate and graduate science education courses. Mentored master's and doctoral student programs. Supervised students in practicum and student teaching experience. Assisted in the development of undergraduate and graduate programs (i.e., MIC). Received grants from NSF to conduct summer programs for gifted Appalachian students. Conducted regional science education programs with Eisenhower funds. Assisted state and university agencies in applying for major grants (i.e., Kentucky Science and Technology Council, National Science Foundation; and University of Kentucky, Hughes Foundation). Advised numerous undergraduate and graduate students. Served on several Kentucky Department of Education committees related to the implementation of KERA. Conducted workshops for PRISM Model Sites teachers (1994) and PRISM project directors (1995).

July 1984 - August 1986: Director of Graduate Studies, Department of Curriculum and Instruction, College of Education, University of Kentucky. Coordinated graduate programs and graduate admissions.

August 1979 - June 1984: Associate Professor, Department of Curriculum and Instruction, College of Education, University of Kentucky. Taught undergraduate and graduate courses in methods and materials of teaching science in the elementary and secondary schools. Participated in developing programs in undergraduate science education and graduate programs for secondary school teachers. Also taught graduate courses in curriculum development, instructional design, and energy and the environment. Conducted science education workshops at regional universities (Morehead, Murray, and Western) and numerous in-service activities in the public schools. In 1979, supervised student teachers and conducted workshops in Haiti, Ecuador, Columbia, and Mexico.

August 1972 - July 1979: Assistant Professor, Department of Curriculum and Instruction, College of Education, University of Kentucky. Taught courses in science education at graduate and undergraduate level; taught curriculum courses at the graduate level; supervised student teachers; served as a consultant for local school districts; and advised graduate and undergraduate students. Developed programs in science education.

Summer 1975: Visiting Professor, Department of Teacher Education, College of Education, Miami University, Oxford, OH. Taught physical science and elementary science teaching methods.

1969 - 1972: Graduate Assistant, Department of Curriculum and Instruction, Curry School of Education, University of Virginia, Charlottesville, Virginia. Taught eight in-service courses to teachers of physics/physical science. These off-campus graduate courses were designed to assist

teachers with the implementation of new physical science curricula. Taught a graduate course in curriculum theory. Served as laboratory assistant for two N.S.F. supported Summer Institutes for Junior High School Science Teachers (Intermediate Science Curriculum Study).

1965-1968: Teacher, Jefferson County Schools, Louisville , KY. Taught physics, chemistry, general science, and mathematics courses. Obtained experience at the senior and junior high levels. Taught at Fairdale High School and Seneca High School. Served as Science Department Chairperson at Fairdale High School from 1966-1968.

TEACHING

Courses Taught (Graduate)

- EDC 607 Basic Instructional Design
- EDC 634 Science Pedagogy in the Secondary School
- EDC 730 Problems of the School Curriculum: Teaching about Energy and the Environment (Team Taught)
- EDC 730 Problems of the School Curriculum: Preparation of Self-Instructional Materials
- EDC 732 Principles of Curriculum Construction
- EDC 746 Subject Area Instruction in the Secondary School
- EDC 777 Seminar in Curriculum and Instruction: Analysis of Teaching
- EDC 777 Seminar in Curriculum and Instruction: Readings and Research in Secondary School Science
- EDC 777 Seminar in Curriculum and Instruction: Research Methods in Secondary Education
- EDC 790 Research Problems in Secondary Education (Independent Study)

Courses Taught (undergraduate)

- EDC 324 Teaching Science and Social Learnings in the Elementary School
- EDC 344 Principles and Techniques of Teaching in the Secondary School
- EDC 348 Teaching Science in the Middle School
- EDC 355 Student Teaching in the Sciences (Coordinator of middle and high school student teachers of science)
- EDC 362 Field Experience in Secondary Education
- EDC 500 Field Experience in Secondary Education
- EDC 524 Materials and Methods of Teaching Secondary School Science
- EDC 576 Modern Educational Problems: Teaching Science In the Middle School

Teaching Evaluation Data

Teaching evaluation data are available from the Chairperson, Department of Curriculum and Instruction.

RESEARCH AND SCHOLARLY ACTIVITIES

Books and Monographs

Manual of Safety and Health Hazards In the School of Science Laboratory. Published by the National Institute for Occupational Safety and Health, 1981 (5,000 copies). With N. J. Berberich, Jr., F. Howard, S. Henderson, D. Ochs, and K. Reed, 104 pp.

A Profile of Kentucky Science Teachers: Grades 7-12. 1984-85. Kentucky Department of Education, 1986 (750 copies). With F. Howard. 54 pp.

Committee Report

“Recommendations and Models for Responding to the National Science Education Standards: Preparation of Elementary Science Teachers in Kentucky,” Committee Report of Kentucky PRISM (supported by Kentucky Council on Higher Education, 1996, 400 copies, Editor/Chair, 29 pp.

Invited and Refereed Chapter

"Learners as a Source of Objectives for the Middle School." Improving Practices in Middle School Science, 1981, Yearbook of the Association for the Education of Teachers of Science, 1981, 73-83.

Video Tape

"Safety in the Science Laboratory." Tel-Ed Productions, 1986. With M. Howard.

Refereed Journal Articles

“Teaching Line Graphs to Tenth Grade Students Having Different Cognitive Developmental Levels by Using Two Different Instructional Modules.” Journal of Research in Science and Technological Education. 2003, 21 (1), 55 – 66. With S. Ates.

"Prose-Relevant Pictures and Recall from Science Text." Perception and Motor Skills. 1986, 1143-1148. With G. Anglin.

"Rationale for a Criterion-Reference Evaluation of Student Teachers in Science." School Science and Mathematics. 1984, 84 (2), 125-135. With L. Smith.

- "Which Way is Up?" The Physics Teacher. 1978, 16 (8), 561-563. With L. Evans.
- "Supervising Teacher Accountability Evaluation by the Student Teacher," Peabody Journal of Education, 1978, 56, (1). 64-74. With L. Smith.
- "Interest Scores as Predictors of Science Process Performance for Junior High School Students," Science Education, 1978, 62, (3), 303-308. With R. K. Atwood.
- "Do Cognitive Preferences of Ninth Grade Students Influence Science Process Achievement?" Journal of Research in Science Teaching, 1978, 15, (4), 277-280. With R. K. A Atwood .
- "Affective Evaluation of Science Teacher Education Project," Resources in Education, 1977, ED 138546. With T. G. Teates and E. Thompson.
- "Games Science Students Play: Building and Using the Electronic Game Box," School Science and Mathematics, 1977, 77, (6), 455-460.
- "Kelvin Water Dropper Revisited," The Physics Teacher, 1977, 15, (9), 548-549. With L. Evans.
- "Relationships Among Question Level, Response Level and Lapse Time: Secondary Science." School Science and Mathematics, 1976, 76, (3), 249-254. With R. K. Atwood.
- "Reaction," Association for the Education of Teachers of Science Yearbook, 1974, 73.
- "Preparation of Glass Containers for Aquaria and Terraria," The Science Teacher, 1974, 11, (8), 48-49. With R. S. Uphaus .

Other Writing

Chemistry Laboratory Implementation Project (CLIP Project): Twenty Laboratory Investigations for Kentucky Students. Published by the Kentucky Science and Technology Council, Lexington, KY, 1991. With others.

Grants and Proposals

See section on Conferences and Institutes (Grants). Approximate dollars are listed after each funded grant.

Program Participation at Scholarly Meetings

October 25 2002	Presentation: "HOV, Hands-on Virtual Physics Project," Regional Meeting of National Science Teachers Association, Louisville, KY.
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- October 4
2002 Presentation: "HOV, Hands-on Virtual Physics Project," (With S. Shafer) Atlantic Region Meeting of the Association for the Education of Teachers of Science, Natural Bridge, VA.
- October 5
2001 Presentation: "Measuring the Effects of Assigning Roles in Cooperative Groups," Mid-Atlantic Region Meeting of the Association for the Education of Teachers of Science, Hawks Nest, Rainelle, WV.
- September 15
2000 Presentation: "The Effects of Computer Applications on Line-graphing Skills of High School Students Having Different Cognitive Developmental Levels," (With Salih Ates) Mid-Atlantic Meeting of the Association for the Education of Teachers of Science, Cumberland Falls State Park, Corbin, KY.
- September 16
2000 Presentation by Don Snead - Dissertation Study Directed by J. Truman Stevens: "Concept Mapping and Science Achievement of Middle Grade Students, Mid-Atlantic Meeting of the Association for the Education of Teachers of Science, Cumberland Falls State Park, Corbin, KY.
- May 1995 Poster Board Presentation: "Appalachian Explorers Project," Project Directors Meeting, Young Scholars Program, National Science Foundation, Washington, D.C.
- May 1992 Invited Presentation: "Science Activities for the Middle School (SAMS Project)," Regional Meeting of the American Chemical Society, Cincinnati, Ohio.
- October 1990 Presentation: "The Chemistry Laboratory Implementation Project," (With K. Stinson) Mid-Atlantic Meeting of the Association for the Education of Teachers of Science, Cumberland Falls, KY.
- October 1989 "Attitude Development of Students Enrolled in Appalachian Explorers Project," Mid-Atlantic Meeting of the Association for the Education of Teachers of Science, Cove Creek, NC.
- February 1988 Presentation: "The Case against Equal Time for "Scientific Creationism in Science Classrooms," Indiana Biology Symposium: New Albany, Indiana.
- November 1986 Presentation: "A Profile of Kentucky Science Teachers," School Science and Mathematics Association: Lexington, Kentucky.
- March 1985 Chaired Session: "Scientific Creationism as an Issue in the Teaching of Biology," National Science Teachers Association: Cincinnati, Ohio

- December 1983 Presentation: "Safety and Health Hazards in the School Science Laboratory," National Science Teachers Association: Biloxi, Mississippi.
- November 1981 Presentation: "Improving Programs and Practices in Middle School Science," National Science Teachers Association: Nashville, Tennessee.
- March 1979 Presentation: "Safety and Health Hazards in the School Science Laboratory," National Science Teachers Association: Nashville, Tennessee.
- November 1978 Presentation: "Supervising Teacher's Role in the Development of Professional Science Educators," National Science Teachers Association; New Orleans, Louisiana.
- March 1977 Presentation: "Individualizing the Middle School Classroom Via Learning Centers," National Science Teachers Association; Cincinnati, Ohio.
- October 1976 Chaired Session: "Energy and the Continuing Crisis: Teaching for the Future," National Science Teachers Association; Indianapolis, Indiana.
- March 1976 Presentation: "Individualized Science Instruction - Order or Chaos?" National Science Teachers Association; Philadelphia, Pennsylvania.
- November 1974 Panelist: "Individualizing Science Instruction, K-12," School Science and Mathematics Association; Cincinnati, Ohio.
- October 1974 Presentation: "Theoretical Models of Individualized Instruction and their Practical Application in the Science Classroom" National Science Teachers Association; Memphis, Tennessee.
- March 1974 Chaired Session: "An Emerging Model in Science Teacher Education as Synthesized from the ERIC-AETS Publication, Promising Practices in Teacher Education," Association for the Education of Teachers of Science; Chicago, Illinois.
- November 1973 Presentation: "Individualization of Science Instruction in Classrooms Using National Science Foundation Curriculum Project Materials," National Science Teachers Association; Norfolk, Virginia.
- November 1973 Panelist: "The Humanization of Science," Association for the Education of Teachers of Science; Norfolk, Virginia.
- April 1973 Presentation: "Dangers Related to the Misuse of, or Lack of Planning for, Individualized Science Instruction," National Science Teachers Association; Washington, D.C.

Program Participation at State Professional Meetings

- October 3, 2000 Presentation: "Data Analysis with Graphical Analysis Software and the Effects of Computer Applications on Line Graphing," (With Salih Ates) Fall Conference of Appalachian Rural Systemic Initiative, Lexington, KY.
- November 5, 2000 Presentation and Workshop: "Connecting Math and Science Using CBL's," (With Peggy Welch) Fall Conference of Kentucky Science Teachers Association, Lexington, KY.
- November 5, 2000 Presentation and Workshop: "Graphing Calculator Activities for All," (With Peggy Welch) Fall Conference of Kentucky Science Teachers Association, Lexington, KY.
- November 6, 2000 Presentation and Panel: "College and University Expectations for High School Chemistry Courses," (With J. David Robertson) Fall Conference of Kentucky Science Teachers Association, Lexington, KY.
- October 1996 Workshop: "Developing Science Concepts," Seventh Region Science Teachers, Morehead State University, Morehead, KY.
- October 1992 Presentation: "Chemistry Laboratory Implementation Project," Kentucky Science Teachers Association, Louisville, KY.
- October 1992 Presentation: "Science Teaching Methods Courses in Kentucky Colleges and Universities," Kentucky Science Teachers Association, Louisville, KY.
- November 1990 Presentation: "Science Activities for the Middle School," Kentucky Academy of Science, Highland Heights, KY.
- November 1990 Presentation: "Science Interests of Appalachian Explorer Students," (With B. Radcliffe, Highland Heights, KY.)
- November 1985 Presentation: "Pictures and Recall from Science Text," (With G. Anglin) Science Education Section, Kentucky Academy of Science, Morehead, Kentucky.
- November 1984 Presentation: Profile of Kentucky Science Teachers," (With F. Howard) Science Education Section, Kentucky Academy of Science, Frankfort, Kentucky.

- October 1984 Presentation: "Who is Teaching Science in Kentucky?" and "Laboratory Safety", Kentucky Association for Progress in Science, Owensboro, Kentucky.
- October 1983 Presentation: "Safety in the Secondary School Science Classroom," Kentucky Association for Progress in Science, Richmond, Kentucky.
- October 1981 Workshop: "Science Teaching and the Development of Reasoning," Kentucky Association for Progress in Science; Louisville, Kentucky.
- October 1980 Presentation: "Pedal Power and More: Energy Education" and "Big Kids Need Nutrition Too," Kentucky Association for Progress in Science.
- October 1978 Presentation: "Horticulture Tips for the Elementary Classroom," Energy, Environment, and Society Conference - Joint meetings of Kentucky Association of Environmental Education, and Kentucky Council for the Social Sciences; Highland Heights, Kentucky.
- August 1977 Presentation: "Rationale for Investigative Science Teaching," Regional Science In-Service Workshop, University of Louisville, Louisville, Kentucky.
- November 1976 Presentation: "Relationships among Cognitive Preferences, Science Processes, and Grade Level for Junior High Students," (with R. K. Atwood) Science Education Section, Kentucky Academy of Science, Louisville, Kentucky.
- November 1975 Presentation: "Relationships among Question Level, Response Level and Lapse Time: Secondary Science," (With R. K. Atwood) Science Education, Kentucky Academy of Science, Louisville, Kentucky.
- November 1975 Presentation: "New Approach to Interdisciplinary Science - Instructional Modules," Kentucky Association for Progress in Science; Louisville, Kentucky.
- October 1974 Presentation: "Intermediate Science Curriculum Study - Rationale," Kentucky Association for Progress in Science; Lexington, Kentucky

SERVICE

Service to KERA and Other Reform Activities (Kentucky Department of Education, Prism, and Kentucky Environmental Education Cabinet)

1. Content Portfolio Review Committee, KDE (2001)

2. Committee to Review Middle School Praxis Exam (1994)
3. Writing and Editing, Science Content Guidelines (1994 - 1995)
4. Committee to Review National Research Council Guidelines (1995)
5. KIRIS Science Assessment Committee (1995 - 1997)
6. New Science Teacher Outcomes Committee (1993 - 1996)
7. Evaluator of New Science Teacher "On Demand" Tasks (1995 - 1998)
8. Committee to Review Possibility of Using the Science Portfolio in KY (1995)
9. Two, three-day workshops for Model Schools Teachers: PRISM (1994)
10. One-day computer/technology workshop for PRISM Project Directors(1995)
11. One day workshop with Model Schools Teachers on preparing grant proposals (1995)
12. Participated in Leadership Training Program (Reform in Science and Mathematics) conducted by Appalachian Education Laboratory (AEL, 1995)
13. Participated in three days of discussions with Kentucky Environmental Education Cabinet, representatives from higher education, and public school leaders regarding the development of environmental education in Kentucky. (1995)
14. Participated in monthly meetings in designing an environmental education plan for higher education in Kentucky (1998)
15. Prepared and conducted a technology workshop for Science and Mathematics Team Leaders in the Appalachian Regional Systemic Initiative, ARSI (1998)
16. Served as a Member of Content (Science) Portfolio Review Committee, Kentucky Professional Standards Board (1995 - 1998, 2001)
17. Served on Certification Committee, Kentucky Professional Standards Board (2000)

Professional Organizations: Current and/or Past Memberships

National Science Teachers Association
 School Science and Mathematics Association
 Association for the Education of Teachers of Science (now known as ASTE)
 National Association for Research in Science Teaching
 Kentucky Academy of Science (past board of directors, Kentucky Junior Academy of Science)

Kentucky Science Teachers Association (a past president)
Kentucky Association for Environmental Education
Kentucky Physics Teachers Association
Phi Delta Kappa (a past president of local chapter)
Kappa Delta Pi

Service to Professional Organizations

2002	Reviewer of NSF Proposals, Noyce Scholarship Program, Washington, D.C.
2002	Planning Committee, National Science Teachers Convention, Louisville, KY.
1990	Proposal Review Committee, National Science Foundation, Partnership Grants.
1987 - 1990	Budget Committee, School Science and Mathematics Association
1986 - 1987	Co-coordinator, AETS Information Project, Association for the Education of Teachers of Science
1985 - 1986	Membership Services Committee, Association for the Education of Teachers of Science
1985 - 1986	Treasurer, School Science and Mathematics Conference Planning Committee
1984	Preliminary Planning Committee for National Science Teachers Association Convention, Cincinnati, Ohio
1982 - 1986	Reviewer of Manuscripts, <u>School Science and Mathematics</u>
1983	President, Kentucky Association for Progress in Science
1982	President-elect and Program Planner, Kentucky Association for Progress in Science
1981 - 1996	Science Advisory Board, Living Arts and Science Center, Lexington, Kentucky. Assisted with Development and Implementation of Science Olympics for Local Middle Schools.
1978 - 1984	Science Education Committee, Kentucky Academy of Science

1978 - 1979	Program Planning Committee, National Science Teachers Association; St. Louis, Missouri
1977 - 1978	Chairperson, Mid-Atlantic Region of Association for the Education of Teachers of Science (AETS)
1976	Chairperson-elect and Program Planner, Mid-Atlantic Region of AETS
1976	Reviewer, <u>1976 Yearbook: Association for the Education of Teachers of Science</u>
1975 - 1976	Secretary, Science Education Section, Kentucky Academy of Science (Chairperson, 1974-75)
1974 - 1990	Board of Directors, Kentucky Junior Academy of Science
1974 - 1976	First Editor, Kentucky Association for Progress in Science (now known as KSTA) newsletter, <u>CommuniKAPS</u>
1974 - 1975	Review panel, National Science Foundation Instructional Improvement Implementation Proposals
1974	Judge, National Science Teachers Association, National Aeronautics and Space Administration's Viking Student Project
1974	Program Planning Committee, National Conference of School Science and Mathematics Association (SSMA)
1973 - 1976	Board of Directors, Mid-Atlantic Region of AETS
1973 - 1976	Board of Directors, Kentucky Association for Progress in Science (KAPS)
1973 - 1975	Member, Kentucky Science Advisory Council

Service to Public Schools

Have conducted in-service activities in each of the following Kentucky counties: Anderson, Bath, Bell, Bourbon, Boyd, Campbell, Clark, Fayette, Floyd, Franklin, Garrard, Hancock, Hardin, Harrison, Henry, Jefferson, Jessamine, Kenton, Madison, Marion, McCreary, Merger, Montgomery, Nelson, Perry, Pulaski, Shelby and Washington. Also conducted workshops in Kentucky Education Development Region IX and Findlay, Ohio. Involvement with a given school system has ranged from one day to several weeks. Sessions have dealt with curriculum

development, teaching strategies, program planning, individualizing instruction, awareness of newly developed materials, implementation of innovative curriculum materials, evaluation, and several additional topics.

Have conducted on-site evaluation and accreditation visits for the following schools: Bryan Station High School (Science Merit), Henry Clay High School (Science Merit), Lafayette High School, (Science Merit), Tates Creek High School (Science Merit), Owen County High School (SACS), Jessie Clark Junior High School (SACS), Leestown Junior High School (SACS), and Lansdowne Elementary School (SACS), Conway Middle School (SACS), Maxwell Elementary School (SACS), Jessie Stuart Middle School (SACS), and Bardstown Middle School (SACS), Lancaster Elementary School (SACS), and Lexington Christian Academy (SACS).

In the Fall of 1997, conducted an in-depth review and evaluation of the science programs at North Hardin and Central Hardin High Schools. Submitted a written report to school district.

Service to Regional Institutions

During 1979-80 conducted three, three-day workshops, Science Teaching and the Development of Reasoning, at regional institutions, Western Kentucky University, Murray State University, and Morehead State University. Workshops focused on the application of Piagetian Developmental Theory to the teaching of science at the junior and senior high levels Participants included college educators, school administrators, and teachers. Workshops represented cooperative effort with Western Kentucky University, Kentucky Department of Education, and the University of Kentucky.

Assisted Cumberland College for eight years in conducting annual Chemistry Symposium.

Presentation at Western Kentucky University on Science Teacher Manpower Study (February 1986).

Conferences and Institutes (Grants)

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| 2002 | Scholarships for Teachers Preparing to Teach in Appalachian Communities, Grant submitted to NSF through the Appalachian Rural Systemic Initiative (ARSI). Prepared the grant proposal and directing the administration of the scholarships. (\$500,000 over 4 years) |
| 2002 | Appalachian Explorers, Supported by the Robinson Trust (\$62,500) |
| 2001 | Appalachian Explorers, Supported by the Robinson Trust (\$62,400) |
| 2001 | Understanding Scientific Process through Modeling Past and Present Causes in the Earth, Life, and Environmental Sciences for Middle and |

- High School Teachers, Co-investigator with Frank Ettensohn in Geology and James Krupa in Biology (\$56,831)
- 2000 Appalachian Explorers, Supported by the Robinson Trust (\$52,338)
- 1999 Teacher Professional Development in Environmental Sciences for Core Content Assessment in Middle School Central Kentucky, Co-investigator with Frank Ettensohn in Geology and James Krupa in Biology (\$59,896)
- 1999 Integrating Science and Mathematics Through Technology and Problem Solving: Dealing with Data in Middle School Mathematics and Science Institute and Connecting Biology with Algebra Institute, Project Director (\$59,486)
- 1999 Appalachian Explorers, Supported by the Robinson Trust (\$51,190)
- 1998 Appalachian Explorers, Supported by the Robinson Trust (\$52,100)
- 1998 Teacher Professional Development in the Earth and Space Sciences for Core Content Assessment in High School Science, Central Kentucky, Co-Investigator with Frank Ettensohn in Geology and Tom Troland in Astronomy (\$51,800)
- 1997 Appalachian Explorers, Supported by the Robinson Trust (\$49,250)
- 1996 Appalachian Explorers, Supported by the Robinson Trust (\$46,960)
- 1995 Appalachian Explorers, Supported by the National Science Foundation (\$56,000)
- 1994 Appalachian Explorers, Supported by the National Science Foundation (\$55,000)
- 1993 Appalachian Explorers, Supported by the National Science Foundation (\$48,000)
- 1992 Appalachian Explorers, Supported by the National Science Foundation (\$48,000)
- 1992 Assisted in the development of Kentucky's systemic grant from NSF (advisory committee membership). Grant funded through Kentucky Science and Technology (approx. \$9,000,000)

- 1992 Proposal Development and Executive Committee for Hughes Foundation Grant. John Rawls, School of Biology, is Project Director. (approx. \$1,100,000)
- 1991 Appalachian Explorers, Supported by the National Science Foundation (\$32,000)
- 1990 Appalachian Explorers, Supported by the National Science Foundation (\$29,000)
- 1989 Appalachian Explorers, Supported by the National Science Foundation (\$32,000)
- 1988 Appalachian Explorers, Supported by the National Science Foundation (\$29,000)
- 1988 - 1989 Co-director of Central Kentucky Mathematics and Science Teacher Project (Supported by the Kentucky Council on Higher Education) Over thirty middle/junior high school mathematics and science teachers took project courses in summer school of 1988. Additional teachers were funded for participation in a two-day workshop. (\$30,000)
- 1987 - 1988 Co-director of Central Kentucky Earth and Physical Science Teacher Project (Supported by the Kentucky Council on Higher Education) Earth and physical science teachers participated in summer courses. Three workshops (Lexington, Ashland, and Hazard) were provided for junior high / middle school teachers. (\$29,000)
- 1986 - 1987 Co-director of Central Kentucky Earth and Physical Science Teacher Project (supported by the Kentucky Council on Higher Education, \$19,000). Science teachers took summer courses and workshops were provided for teachers at Lexington, Bardstown, Northern Kentucky University, and Prestonsburg. (\$19,000)
- 1983 - 1990 Director of Loan-Scholarship Program for U.K. students (supported by the Kentucky Council on Higher Education. Between twelve and forty-two science and mathematics education students per year received \$2,500 loan/scholarships. In 1987-88, U.K. students received \$105,000 of loan scholarship support. Loans became scholarships when students taught mathematics or science in Kentucky schools.
- 1984 - 1986 Consultant for Laboratory Safety Conferences at Eastern Kentucky University, University of Louisville, and University of Kentucky.

- March 1981 Nutrition workshop, co-director (Supported by the Department of Agriculture and the Kentucky Department of Education, \$1,900).
- June 1980 Energy workshop, co-director (Supported by the Department of Energy and the Kentucky Department of Education, \$1,000). Twenty persons participated in a one-day workshop designed to develop an awareness of energy problems and disseminate energy education material.
- September 1977 Director, Laboratory Safety Conference (Supported by Kentucky Department of Education, \$5,400). Seventy-eight persons participated in a three-day conference designed to assist teachers and teacher educators in protecting the health and safety of students in science classrooms. The National Institute for Occupational Safety and Health provided consultants for the conference.
- August 1977 Regional Science In-service Workshop, Director and Instructor (Supported by Kentucky Department of Education, \$1,494). Sixteen science teacher-leaders from across the state participated in a two-day conference designed to assist them in conducting local In-service activities for teachers in their geographic area. The conference focused on teaching science via a laboratory approach.
- March 1976 Individualized Science Conference, co-director and instructor (Supported by Florida State University: \$250 and Kentucky Department of Education; \$200) conference was designed to inform key science educators (college and high school) in Kentucky of the individualized science instructional system project Thirty persons participated in the conference.
- Summer 1974 Leadership specialist project for junior high science curricula, director and Instructor (Supported by the National Science Foundation; \$25,846). Nineteen administrator-teacher teams from the southern and mid-western United States participated in a science curriculum conference lasting one week. The conference was followed by in-service activities in participating schools over a period of two years.
- Summer 1973 Administrator Information Conference for junior high curricula, co-director and instructor (Supported by the National Science Foundation; \$8,631). Twenty-seven Junior high administrators from across the United States participated in a science curriculum conference lasting one week.

Selected University, College, and Departmental Service Assignments

- 2003 – 2007 Member College of Education Council of Chairs
- 2001 –2003 Member of Kinesiology and Health Promotions Program Faculty

1998 - 1999	Member of University of Mathematics and Science Education Task Force
1996 - 2000	Member of Advisory Committee for Robinson Scholars Program
1996 - Present	Member of MIC Program Faculty (Coordinator of Secondary Science)
1998 - Present	Member Middle School Program Faculty
1992 - 1996	University Science Education Initiatives Committee
1991 - 1996	Hughes Grant Committee (Oversight Committee)
1990 - 1996	PRISM Advisory Committee
1992	Chairperson, Vocational Education Department Review Committee
1994 - 1995	Secondary Program Revision (MIC and Undergraduate)
1975 - 1998	Mathematics and Science Education Program Faculty [Chairperson for three terms (1976 - 1981, 1982-1984, and late eighties)]
1991 – 1995 and 2001 – Present	Middle School Program Faculty
1992	Library Fund Raising Committee (college co-chair and department chair)
1985 -1988	College Library Committee
1984 - 1987	Faculty Review Committee for Promotion and Tenure
1984 - 1988	College Student Scholarship Committee
1982 - 1984	College Courses and Curricula Committee
1982 - 1990	Director of Math and Science Loan Scholarship Program
1981 - 1982	Department Advisory Committee
1981 - 1982	Committee to Revise Secondary Program
1981 - 1982	Committee to Revise EDC 732
1981	Department Telephone Budget Committee

1979	Advisory Committee to the Dean : Exceptional Achievement Faculty Review for Service
1978 - 1979	College Social Welfare Committee (Chairperson)
1978	College Exceptional Achievement Faculty Review Panel
1976 - 1978	College Faculty Council (Chairperson, 1976-1977)
1973 - 1975	College Faculty Council
1976 - 1982	Department, Masters Degree Task Force in Secondary Education (Chairperson, 1977 - 1980)
1974 - 1977	University Senate
1974 - 1977	Senate Committee, Admissions and Academic Standards
1974 - 1976	University Drug Education Committee
1972 - 1973	Department Budget Committee

HONORS

Received several Exceptional Achievement Awards from the College of Education for University and Public Service (1976, 1977, and others). In 1986, received Exceptional Achievement in Research and Scholarship.

Received the Lyn Reynolds Distinguished Service Award from the Kentucky Science Teachers Association (formerly Kentucky Association for Progress in Science) in 1979. Approximately twelve individuals have received this award.

Received a Distinguished Service Award from Kentucky Junior Academy of Science. Received award for fifteen consecutive years of service to the organization as a member of the Board of Directors, 1990.

Received the Service to Chapter Award from the University of Kentucky Chapter of Phi Delta Kappa, 1992.

Revised September 7, 2007, JTS