

WILLIAM J. SUMRALL, Ph.D.  
 Professor of Curriculum and Instruction & Interim Chair  
 Tenured  
 Initial Faculty Appointment (2000)  
 Program: Elementary

### EDUCATION AND PROFESSIONAL CREDENTIALS

#### Degrees

Ph.D.	1990	University of Southern Mississippi	Science Education
M.S.	1986	University of Southern Mississippi	Science Education
B.S.Ch.E.	1982	University of Mississippi	Chemical Engineering
B.S.	1978	University of Mississippi	Zoology

### PROFESSIONAL EXPERIENCE

2005- Present Interim Chair of Dept of Curriculum and Instruction, University of Mississippi  
 2004-2005 Assistant Chair and Professor, Dept of Curriculum and Instruction, University of Mississippi  
 2000-Present Professor, Dept. of Curriculum and Instruction, University of Mississippi  
 1999-2000 Assistant Dean for Curriculum and Learning Outcomes, Mississippi State University  
 1996-2000 Professor, Dept. of Curriculum and Instruction, Mississippi State University  
 1994-1996 Associate Professor, Dept. of Curriculum and Instruction, Mississippi State University  
 1993-1994 Assistant Professor, Dept. of Curriculum and Instruction, Mississippi State University  
 1991-1993 Assistant Professor, Dept. of Curriculum and Instruction, McNeese State University  
 1990-1991 Assistant Professor, Dept. of Curriculum and Instruction, Northeastern Illinois University  
 1987-1990 Instructor and Graduate Assistant, Dept. of Science Education, University of Southern Mississippi  
 1986-1987 Science Teacher, Grade 9, Pensacola High School, Pensacola, Florida  
 1983-1986 Science Teacher, Grades 8-12, Lecanto Middle and High School, Lecanto, Florida

### TEACHING

Courses taught

Spring 2006

EDEL 630 Clinical Project

EDSE 646 Advanced Methods of Teaching Science

Summer 2006

EDEL 519 Techniques and Principles for Classroom Management

Fall 2006

Edel 630 Clinical Projects

EDSE 700 Dissertation Seminar

Overload Course (Optional for Faculty)

Edel 615 Problems & Investigations in Teaching Elementary School. Science

### RESEARCH

### PUBLICATIONS

#### TEXTBOOK PUBLISHED

Belk, J., Ehle, M., Price, E., Nuby, J., Sumrall, W., & Thomas, L. (2001). A standards-based approach to teaching in courses with field components. Dubuque, Iowa: Kendall/Hunt.

Co- Authored book Roadways Into the Development of Elementary Students funded through the Mississippi Department of Transportation for state-wide distribution.

REFEREED PUBLICATIONS IN NATIONAL JOURNALS (Selected from over 34 publications)

Carter, L., Sumrall, W., & Curry, K. (2006). Say cheese! Digital collections in the classroom. Science and Children 43 (8), 19- 23.

Sumrall, W. and Curry, K. (2006). Teaching for Transferal. Science Scope 29 (7), 46-48.

Sumrall, W. (2005). Collaborative measurement. Science Scope 29(1), 6.

Whittington, S., & Sumrall, W. (2005). Perceptions of elementary and middle school teachers in northwest Mississippi towards inquiry science. Journal of the Council for Elementary Science International. 38(1), 20-29.

Sumrall, W., & Schillinger, D. (2004). Non-traditional characteristics of a successful science fair project. Science Scope 27(6), 20-24.

Sumrall, W., & Schillinger, D. (2004), A student directed model for designing a social studies/science curriculum 95(1), The Social Studies. 5-10.

Sumrall, W. (2003). Real world mathematics: Modeling and scaling using a spreadsheet. Learning and Leading with Technology 31(3), 14-17. (Editorial Panel Reviewed)

Sumrall, W., & Schillinger, D. (2003). Quality control and design in science learning. Science Scope 27(2), 28-33.

Sumrall, W., & Rock, D. (2002). Repeated patterns in math and science: Understanding cycles. Science Scope 25(7), 18-22.

Sumrall, W., Chessin, D., & Schillinger, D. (2001). Investigating science careers online. The Science Teacher 68(6), 74-76.

Sumrall, W. (2001). Trash or treasure. Science Scope 24(4), 28-33.

Sumrall, W., & Halpin, R. (2000). Integration and presentation. Science Scope 24(1), 68-71.

Motamedi, V., & Sumrall, W. (2000). Mastery learning and contemporary issues in education. Action in Teacher Education 22(1), 32-39.

Vaughan, M., Sumrall, W. J., & Rose, L. (1998). Preservice teachers use the newspaper to teach science and social studies literacy. Journal of Elementary Science Education 10(2), 1-19.

Sumrall, W. J., & West, L. S. ( 1998). Using a vignette technique to compare preservice elementary teachers', African American high school students', and young scholars' beliefs about the future. The Journal of Environmental Education, 29 (4), 45-51.

Sumrall, W., Richardson, D., & Yan, Y. (1998). Microwave oven observations. The Science Teacher, 65 (2), 38-42.

Sumrall, W. (1998). Aluminum analysis. The Science Teacher, 65(1), 32-35.

Sumrall, W. J. (1997). Why avoid hands-on science. Science Scope, 20(4), 16-19.

Sumrall, W. J., & Sumrall, C. M. (1995). Introducing electronic mail applications within preservice elementary science methods courses. Journal of Computing in Teacher Education, 11(4), 23-30.

Sumrall, W. J., & Criglow, J. (1995). The "scoop" on science data: A study of spoons shows students that scientific inquiry is a vital part of their lives. Science and Children, 32(6), 36-39, 44.

Sumrall, W. J. (1995). Reasons for the perceived images of scientists by race and by gender of students in grades 1-7. School Science and Mathematics, 95(2), 83-90.

Sumrall, W. J., & Sumrall, C. (1994). What research says: Process skills used effectively. Science and Children, 32(3), 41-42.

Sumrall, W. J., & Forsley, A. (1994). Spreadsheet meteorology. Science Scope, 18(1), 36-38.

Sumrall, W. J. (1991). Silver science. The Science Teacher, 58(9), 36-39.

Sumrall, W. J., & Brown, F. W. (1991). Consumer chemistry in the classroom. The Science Teacher, 58(4), 28-31.

#### PATENT

Submitted four patent applications to The University of Mississippi Office of Technology Management. One application has been approved for subsequent patent through the US Patent Office.

#### PRESENTATIONS (Selected from over 76 International, National, Regional, and State levels)

Sumrall, W., Carter, L., & Curry, K. (April, 2006). Understanding density???? through the stages of inquiry. Workshop presented at the National Science Teachers Association National Conference. Anaheim, California.

Curry, K., Sumrall, W., & Carter, N. (April, 2006). Roadways into developing elementary students. Paper presented at the National Science Teachers Association National Conference, Anaheim, California.

Sumrall, W., Curry, K., & Carter, L. (February, 2006). Math across the science, technology, and social studies curriculum. Paper presented at the Mississippi Academy of Sciences, Vicksburg, Mississippi.

Curry, K., Sumrall, W., & Carter, L. (February, 2006). Pre-service teachers' perception of the particulate nature of matter. Paper presented at the Mississippi Academy of Sciences, Vicksburg, Mississippi.

Sumrall, W., & Schillinger, D. (March, 2005), How students can be successful at science fair and inquiry? Paper presented at the national meeting of the National Science Teachers Association, Dallas, TX.

Schillinger, D. & Sumrall, W. (March, 2005) A Web/CD-based science curriculum studying the history, philosophy, and nature science. Paper presented at the national meeting of the National Science Teachers Association, Dallas, TX.

GRANTS AND CONTRACTS (Selected from over \$701,185)Awarded in 2006

Sumrall, W., & Reid, J. (2006), Math Across the Science, Technology, Society Curriculum (MASTS-C). Grant funded by the IHL of Mississippi (\$120,023).

Sumrall, W. (2006), Rejecting myths and misconceptions in astronomy for the middle grades. Grant funded by the Space Telescope Science Institute/NASA.

Awarded in 2005

Sumrall, W., & Mims, C. (2005), Building an enhanced, sequenced, and/or total math/science/social studies curriculum for middle school instruction. Grant funded by the IHL of Mississippi (\$102,033)

Sumrall, W. (2005), Environmental letter writing project. Grant funded by the Captain Planet Foundation (\$1,048)

Awarded in 2004

Sumrall, W., & Rock, D. (2004), Building an enhanced, sequenced, and/or total math/science/social studies curriculum for middle school instruction. Grant funded by the IHL of Mississippi (\$105,358)

Awarded in 2003

Sumrall, W., Sumrall, C., & Thomas, L., (2003), Developing an inquiry based elementary science curriculum for the pre-service teaching candidates. Grant funded by University of Mississippi Associates. \$12,500.

SERVICE

## Major University Service

2005 Chair Faculty Senate  
2004-Present Tenure and Promotion Review Committee  
2006 Primary NCATE Science Education SPA

## Major Professional Service

2005-Present Board Member Counsel for International Science Education  
1996-Present Board Member Mississippi Science Teachers Association  
1996-2004 Director for Mississippi Science and Engineering Fair  
1996-Present Manuscript Reviewer for NSTA Science Scope  
1996-2000 Advisory Board Science Scope

HONORS AND AWARDS

<u>Award Name</u>	<u>Organization</u>	<u>Date Received</u>	<u>Award</u>
2005 Outstanding Grants and External Funding	UM Ed Alumni Chapter	May, 2005	Plaque & \$2000
2004 Outstanding Service Award	UM PDK Chapter	May, 2004	Plaque
2002 Outstanding Researcher Award	UM Ed Alumni Chapter	May, 2002	Plaque & \$2000
2000 College of Education MSU Faculty/Research Scientist/Engineer award recipient	Office of Research	April 3, 2000	Plaque
Key to City of Greenville	Mayor of Greenville	April 3, 2000	Key and ribbon