

**Scott Watson, Ph.D.**  
Associate Dean of Graduate Studies  
Professor of Education  
TE 102                      582-2127

## **EDUCATIONAL BACKGROUND**

**PH.D.**                      University of South Florida  
Major: Curriculum and Instruction and Science Education (K-12),  
Cognate: Administration and Supervision

**M.A.**                      University of South Florida  
Science Education (6-12) and Natural Science

**B.A.**                      University of South Florida  
Science Education (6-12) and Natural Science

## **TEACHING/ADMINISTRATIVE EXPERIENCE**

**Present**                      **Professor and Chair, Graduate Studies**  
School of Education, Liberty University

**2005-2007**                      **Associate Dean of Graduate Studies**  
School of Education, Liberty University

**2004-2005**                      **Professor of Education and Chair**  
Initial Licensure Programs, School of Education  
Liberty University

**2003-2004**                      **Science Education Graduate Director**  
East Carolina University

**2001-2003**                      **Science Education Program Coordinator**  
East Carolina University

**1999-2001**                      **Acting Chair**  
Department of Science Education  
East Carolina University

**1999-2001**                      **NCATE/SDPI Accreditation Co-Chair**  
East Carolina University

**1995-2003**                      **Associate Professor**  
Department of Science Education  
East Carolina University

**1991-1997**                      **Coordinator of Field Experiences**  
Science Education  
East Carolina University

**1991-1994**                      **Graduate Director**  
Department of Science Education

<b>1988-1995</b>	East Carolina University <b>Assistant Professor</b> Department of Science Education East Carolina University
<b>1986-1987</b>	<b>Teaching Assistant and Instructor</b> University of South Florida
<b>1985-1986</b>	<b>Administrator</b> Southwest Florida Teacher Education Center
<b>1984-1985</b>	<b>Science Teacher</b> North Fort Myers High School
<b>1975-1978</b>	<b>Science Teacher</b> Manatee High School

## PROFESSIONAL RECOGNITIONS

- ❖ Distinguished Service Award Recipient (College/University), North Carolina Science Teachers Association, 1999
- ❖ Granted Full Graduate Faculty Status, East Carolina University, April 1994.

## SCHOLARLY ACTIVITY

### Publications

- Watson, S. B. (2006). *Novice science teachers: Expectations and experiences*. Journal of Science Teacher Education. September, 279-290.
- Watson, S. B. & James, L. (2004). *The scientific method: Is it still useful?* Science Scope, Nov./Dec., 37.
- Watson, S. B. & James, L. (2001). *The Effects of participating in an elementary science practicum on classroom practice*. Journal of Elementary Science Education, 13(1), 43-55.
- Watson, S. (2001). *Novice science teachers: Expectations and experiences*. Proceedings of the 74th Annual National Association for Research in Science Teaching Conference, St. Louis, MO.
- Watson, S. & Taylor, A. (2000). *The effect of traditional classroom assessment on science learning and understanding of the processes of science*. Journal of Elementary Science Education, 12(1).
- Watson, S. (2000). *Classroom management and discipline techniques utilized by exemplary science teachers*. Proceedings of the Annual Meeting of the Association for the Education of Teachers in Science, Akron, Ohio.

- Watson, S. & Moore, J. (1999). *Contributors to the decision of elementary education majors to choose science as an academic concentration*. Journal of Elementary Science Education, 11(1), 37-46.
- Watson, S. & Forshey, S. (1999). *Problems encountered by novice science teachers*. Proceedings of The Annual Meeting of the Association for the Education of Teachers in Science, Austin, Texas.
- Watson, S., Furlough, V., & Taylor, A. (1997). *Hands-in science: It's a dirty job*. Science Scope, 20(7), 16-17.
- Watson, S. & James, L. (1997). *The effect of the addition of a practicum experience to an elementary science methods course*. Proceedings of the 70th Annual National Association for Research in Science Teaching
- Watson, S. & Taylor, A. (1996). *The effect of traditional classroom assessment on science learning and understanding of the processes of science*. Proceedings of the 1996 Annual Meeting of the Association for the Education of Teachers in Science, Seattle.
- Watson, S., Wertheim, R., Foster, E., & Jones, M.G. (1995). *A study of the preparation of preservice middle school science teachers: Exploring attitudes and anxieties*. Issues in Middle Level Education, 4(2), 40-46.
- Watson, S. & Marshall, J. (1995). *The importance of heterogeneous grouping as an element of cooperative learning*. School Science and Mathematics, 95(8), 401-405.
- Watson, S. & Marshall, J. (1995). *Effects of cooperative incentives and heterogeneous arrangement on achievement and interaction of cooperative learning groups*. Journal of Research in Science Teaching, 32(3), 291-299.
- Watson, S. & Moore, J. (1995). *Contributors to the decision of elementary education majors to Choose science as an academic concentration*. Proceedings of the 68th Annual National Association for Research in Science Teaching Conference, San Francisco.
- Watson, S. & Baker, J. (1995). *The relationship between formal operational thinking ability and prospective grade level to be taught for preservice education majors*. Proceedings of the 68th Annual National Association for Research in Science Teaching Conference, San Francisco
- Watson, S. B. (1995 October). *It's a cooperative thing*. Presented at the North Carolina Science Teachers Association Annual Conference, Winston Salem, October, 1995.
- Watson, S., West, S., Thomson, W. S., & Parke, H. (1994). *The effect of the student teaching experience on preservice teachers' attitude and anxiety involving science and science teaching*. Southeastern Regional Association of Teacher Education Journal, 3(2), 31-37. League Journal, 28.
- Watson, S. & Wertheim, R. (1994). *A study of the preparation of preservice middle school science teachers: Exploring attitudes and anxieties*. Proceedings of the 67th Annual National Association for Research in Science Teaching Conference, Anaheim.

- Watson, S., Sutton, L., Parke, H. & Thomson, W. S. (1993). *Factors that influence the decision of preservice elementary teachers to concentrate in science*. *Journal of Science Teacher Education*, 4(4), 109-114.
- Watson, S. (1993). *The importance of heterogeneous grouping as an element of cooperative learning for elementary education majors in an introductory life science course*. Proceedings of the 66th Annual National Association for Research in Science Teaching Conference.
- Watson, S. (1992). *Using a newspaper weather page to evaluate knowledge of science process skills*. *League Journal*, 28.
- Watson, S. (1992). *Cooperative methods*. Teaching teachers section, *Science and Children*, 29(5), 30-31, 47.
- Watson, S. & Whitfield, K. (1992). *Just what is a gram anyway?* *Science Scope* 16(2), 32-34.
- Watson, S. (1992). *The essential elements of cooperative learning*. *The American Biology Teacher*, 54(2), 84-86.
- Watson, S. (1992). *Cooperative incentives and heterogeneous arrangement of cooperative learning groups: Effects on achievement of elementary education majors in an Introductory life science course*. Proceedings of the 65th Annual National Association for Research in Science Teaching Conference, Atlanta.
- Watson, S. (1991). *Cooperative learning and group educational modules: Effects on cognitive achievement of high school biology students*. *Journal of Research in Science Teaching*, 28(2), 141-146.
- Watson, S. (1990). *Cooperative learning and group education modules: Effects on cognitive achievement of high school biology students*. Proceedings of the 63rd Annual National Association for Research in Science Teaching Conference, San Francisco.

## Presentations

- Watson, S. (2008, April). *Conflict in Cooperative Learning Groups in an Elementary Science Methods Course*. National Association for Research in Science Teaching Annual Conference, Baltimore, MD.
- Watson, S. (2007, November). *Classroom Management for the Science Teacher*. Virginia Association of Science Teachers Conference, Williamsburg, VA.
- Watson, S., Ackerman, M., & Goodwin, M. (2007, March). *Improving Instruction for Teacher Candidates in Classroom Management and Discipline Issues*. AACTE annual meeting, New York, NY, February, 2007.
- Watson, S. (2006, November). *Changing Views on the Nature of Science and the Scientific Method*. Virginia Association of Science Teachers Conference, Richmond, Va.
- Watson, S. B., Adolph, D., Conger, J., Daubert, A., Earwood, D., Furrow, M., Knudsen, R., Lowe, E., Maier, M., Moga, H., Mumar, E., Spence, G., Thomas, H., Wilburn, S. (2006, February). *Christian Resources and Ideas for Educating Middle-School Students*. Accepted presentation for the Southeast Regional Association for Christian Schools International Conference, Greensboro, NC.

- Pantana, J., Deckard, S. & Watson, S. (2005, November). Using Statistical Tools to Teach High School Science and Mathematics.
- Watson, S. (2005, November). An Inquiry Approach to Teaching Classification Keys in Earth Science. Virginia Association of Science Teachers Conference, Roanoke, VA.
- Watson, S. (2005, October). Developing a Classification Key for Rock and Mineral Identification. North Carolina Science Teachers Association Conference, Greensboro, NC.
- Watson, S. B. (2005, January). *Positive and less than positive aspects of an on-line science education program*. Presented at the Association for the Education of Teachers in Science International Conference, Colorado Springs, Colorado.
- Watson, S. B. (2004, October). *Distance education program development: Positive and negative aspects*. Presented at the Mid-Atlantic Association for the Education in Science Regional Conference, Roan Mountain, TN.
- Watson, S. B. (2004, January). *Home school parents and their educational methods and beliefs*. Presented at the Association for the Education of Teachers in Science International Conference, Nashville, TN.
- Watson, S. B. (2003, February). *What can we do for beginning science teachers?* Presented at the Association for the Education of Teachers in Science International Conference, Saint Louis, MO.
- Watson, S. B. (2002, March). *The effects of participating in an elementary science practicum on classroom practice*. Presented at the National Science Teachers Association Conference, San Diego, CA.
- Watson, S.B. (2002, January). *What's new (if anything) in cooperating learning for the science classroom?* Presented at the Association of the Education of Teachers in Science InternatConference, Charlotte, NC.
- Watson, S. B. (2001, March). *Novice science teachers: Expectations and experiences*. Presented at the National Association for Research in Science Teaching Conference, St. Louis, MO.
- Watson, S. B. (2000, April). *Beginning science teachers: Experiences and expectations*. Presented at the National Science Teachers Association Annual Convention, Orlando, Florida.
- Watson, S. B. (2000, January). *Classroom management and discipline techniques utilized by exemplary science teachers*. Presented at the Association for the Education of Teachers in Science Annual Conference, Akron, Ohio.
- Watson, S. B. (1999, November). *Experiences and opinions of novice science teachers*. Presented at the North Carolina Science Teachers Association Annual Conference, Greensboro
- Watson, S. B. (1999, April). *Elementary Science Methods Practicum Research*. Presented at the National Science Teachers Association Annual Convention, Boston, Massachusetts.
- Watson, S. B. (1999, April). *Effective classroom management and discipline techniques for secondary science teachers*. Presented at the National Science Teachers Association Annual Convention, Boston, Massachusetts.

- Watson, S. B. (1999, January). *Problems Encountered by Novice Science Teachers*. Presented at the Association for the Education of Teachers in Science Annual Conference, Austin, Texas.
- Watson, S. B. (1998, November). *Effects of an elementary science methods practicum on teacher's practice*. Presented at the North Carolina Science Teachers Association Annual Conference, Greensboro.
- Watson, S.B. (1998, April). *Problems encountered by novice science teachers*. Presented at the National Science Teachers Association Annual Convention, Las Vegas, Nevada.
- Watson, S. B. (1998, April). *Effective management and discipline techniques for secondary science classrooms*. Presented at the National Science Teachers Association Annual Convention, Las Vegas, Nevada.
- Watson, S. B. (1997, November). *Improving instruction in the physical sciences*. Presented at the North Carolina Science Teachers Association Annual Conference, Greensboro, North Carolina.
- Watson, S. B. (1997, November). *Animals, animals, and more animals*. Presented at the North Carolina Science Teachers Association Annual Conference, Greensboro, North Carolina.
- Watson, S. B. (1997, November). *A study of effective classroom management characteristics and techniques of science teachers*. Presented at the North Carolina Science Teachers Association Annual Conference, Greensboro, North Carolina.
- Watson, S. B. (1997, March). *The effect of the addition of a practicum experience to an elementary science methods course*. Presented at the National Association for Research in Science Teaching Conference, Chicago, IL .
- Watson, S. B. (1996, November). *Effective classroom management skills and techniques of science teachers*. Presented at the North Carolina Science Teachers Association annual conference, Greensboro, NC.
- Watson, S. B. (1996 November). *Effects of a practicum on preservice teachers knowledge, attitudes, and anxieties*. Presented at the North Carolina Science Teachers Association Conference, Greensboro, NC.
- Watson, S. B. (1996 October). *A Survey of college freshmen on their perceptions of the existence and effects of gender bias in their high school science classroom*. Presented at the National Association of Biology teachers annual conference, Charlotte, NC.
- Watson, S. B. (1996, October). *The effect of traditional classroom assessment on science learning and understanding of the processes of science*. Presented at the National Association of Biology teachers annual conference, Charlotte, NC.
- Watson, S. B. (1996 January). *The effect of traditional classroom assessment on science learning and understanding of the processes of science*. Presented at the Association for the Education of Teachers in Science International, Seattle.
- Watson, S. B. (1995 October). *It's a cooperative thing*. Presented at the North Carolina Science Teachers Association Annual Conference, Winston Salem, October, 1995.

- Watson, S. B. (1994, January). *The relationship between formal operational thinking ability and prospective grade level to be taught for preservice education majors*. Presented at the Association for the Education of Teachers in Science International Conference, El Paso, TX.
- Watson, S. B. (1994, January). *A study of the preparation of preservice middle school science teachers: Exploring attitudes and anxieties*. Presented at the Association for the Education of Teachers in Science International Conference, El Paso, TX.
- Watson, S. B. (1993). *The importance of heterogeneous grouping as an element of cooperative learning for elementary education majors in an introductory life science course*. Presented at the National Association for Research in Science Teaching Conference, Atlanta, GA.
- Watson, S. B. (1993, January). *Factors that influence the decision of preservice elementary teachers to specialize in science*. Presented at the Association for the Education of Teachers in Science International Conference, Charleston, SC.
- Watson, S. B. (1992, July). *Cooperatively learning about science skills*. Presented at the East Carolina University Middle School Summer Conference, Greenville, NC.
- Watson, S. B. (1992, March). *Heterogeneous arrangement of cooperative learning groups: Effects on achievement of elementary education majors in an introductory life science course*. Presented at the National Science Teachers Association Conference, Boston.
- Watson, S. B. (1992, March). *Cooperative incentives and heterogeneous arrangement of cooperative learning groups: Effects on achievement of elementary education majors in an introductory life science course*. Presented at the National Association for Research in Science Teaching Conference, Cambridge, MA.
- Watson, S. B. (1991, October). *The importance of heterogeneous grouping as an element of cooperative learning for elementary education majors in an introductory life science course*. Presented at the North Carolina Science Teachers Association Conference, Raleigh, NC.
- Watson, S. B. (1991, March). *The importance of the elements of cooperative learning*. Presented at the National Science Teachers Association Conference, Houston, TX.
- Watson, S. B. (1991 March). *The scientific method: A problem solving tool*. Presented at the North Carolina League of Middle Level Schools Conference, Research Triangle Park.
- Watson, S. B. (1990 April). *Cooperative learning and group educational modules: Effects on cognitive achievement of high school biology students*. Presented at the National Association for Research in Science Teaching Conference, Atlanta.
- Watson, S. B. (1990, April). *Using a newspaper weather page to evaluate science process skills*. Presented at the National Science Teachers Association Conference, Atlanta.
- Watson, S. B. (1989, November). *Evaluating knowledge of science process skills*. Presented at the North Carolina Science Teachers Association Conference, Charlotte, NC.

- Watson, S. B. (1989, November). *Meteorological activities for teachers*. Presented at the North Carolina Science Teachers Association Conference, Charlotte, NC.
- Watson, S. B. (1989, October). *Using a newspaper weather page to evaluate science process skills*. Presented at the Florida Association of Science Teachers Conference, Panama City Beach, FL.
- Watson, S. B. (1989, April). *Group educational modules: A new approach to biology instruction*. Presented at the National Association of Biology Teachers Regional Conference, Washington D.C.
- Watson, S. B. (1989, April). *Science teacher evaluation*. Presented at the National Science Teachers Association Conference, Seattle, Washington.
- Watson, S. B. (1989, April). *Assessing student minimum competencies in science: A developmental process*. Presented at the National Association of Science Teachers Conference, Seattle, Washington.
- Watson, S. B. (1989, February). *Using a newspaper page to teach science process skills*. Presented at the North Carolina League of Middle Level Schools Conference, Research Triangle Park.
- Watson, S. B. (1988, April). *Cooperative learning: Then and now*. Presented at the National Science Teachers Association Annual Conference, St. Louis.
- Watson, S. B. (1988, October). *Minimum student performance standards in science: A developing process*. Presented at the Florida Association of Science Teachers Conference, Orlando, FL.

## Grants

- ❖ (2002). Building Our Future Through Science Inquiry. Dwight D. Eisenhower Professional Development Program, \$29,961.
- ❖ (1998). Evaluation of the Effects of a Science Practicum on Elementary Classroom Teacher's Practice. Bell South Partnership Grant. \$3,989.00
- ❖ (1998). Elementary Science Skills and the National Science Standards. Dwight D. Eisenhower Professional Development Program, \$29,997.00.
- ❖ (1997). Physical Science and Process Skills for Elementary Teachers. Dwight D. Eisenhower Professional Development Program, \$29,136.14.
- ❖ (1997). Classroom Characteristics and Techniques of Effective Science Teachers. Bell South Partnership Grant, \$3,972.00.
- ❖ (1997). Problems Encountered by Novice Science Teachers. Bell South Partnership Grant, \$3,938.
- ❖ (1996-1997). Nature of Science and Process Skill Training for Teachers at Stokes Elementary School. Glaxo-Wellcome Corporation, \$10,859.60.

## SERVICE

### Professional

**Publications**

- Reviewer; *Journal of Elementary Science Education*, 1995-present
- Reviewer; “Teaching Teachers Column”, *Science and Children*, 1995-present
- Reviewer; *School Science and Mathematics*, 1995-2004
- Reviewer; *American Biology Teacher*, 1995-2000
- Reviewer (Guest); *Journal of Research in Science Teaching*, 1996-1997

**Dissertation or Thesis Committee Chair**

- Johnson, Danette E. (March, 2007). Workforce Development via Targeted Industry Training Grants and Ohio Two-Year Community Colleges.
- Dunn, Glenna K. (November, 2006). Proportional Process Conflict in Cooperative Learning Groups.
- Boyd, L. (June, 2004). Development of a Distance Education Course in Anatomy and Physiology.
- Foster, N. (July, 2003). A Descriptive Study of Earth/Environmental Science Classroom Practices Rich in Outdoor Experience.
- Pearce, M. (July, 2002). Home Schools and Their Educational Methods and Beliefs.
- Saccocia, M. (November, 2000). Preferred Credentials of Community College Biology Instructors Based on Input From Administrators in the North Carolina Community College System.
- Trueblood, L. (November, 1999). The Process of Development into a Teacher: An Examination of Changes that Occur During the Student Teaching Experience.
- Hackett, J. (July, 1999). Problems Encountered in Developing a Partnership Between a Pharmaceutical Corporation and a Middle School.
- Forshey, S. (July, 1998). A Study of Effective Management and Discipline Techniques for Secondary Science Classrooms.
- James, L. (June, 1998). The Effect of the Inclusion of a Practicum Experience to an Elementary Science Methods Course on Cooperating Teachers in the Schools.
- Allen, C. (May, 1996). Using Learning Styles to Maximize the Cooperative Experience.
- Taylor, A. (May, 1995). The Effect of Traditional Classroom Assessment on Science Learning and Understanding of the Processes of Science.
- Pratt, C. (December, 1994). A Survey of Student Perceptions of Gender Inequity in High School Science Classrooms.
- Moore, J. (August, 1994). Contributors to the Decision of Elementary Education Majors to Choose Science as an Academic Concentration.
- Baker, J. (June, 1993). The Relationship Between Formal Operational Thinking Ability and Prospective Grade Level to be Taught For Preservice Education Majors.
- Wertheim, R. (May, 1993). A Study of the Preparation of Middle School Science Teachers: Exploring Attitudes and Anxieties.
- Sutton, L. (May, 1992). Factors that Influence the Decision of Preservice Elementary Teachers to Specialize in Science

**Committee or Task Force Service, University**

- Acting Chair, Council for Teacher Education, Spring, 2004
- Council for Teacher Education Curriculum Committee (Chair), 1996-2004
- Council for Teacher Education Policy Committee, 1996-2004
- Council for Teacher Education Representative, 1990-2004
- Vice Chair, Council for Teacher Education, 1999-2000, 2002-2003
- Curriculum Committee Member – Council for Teacher Education, 1991-2002
- Department Curriculum Committee (Chair), 1989-2002
- Graduate Administrative Board Representative (SOE), 2000
- Department Personnel Committee (Chair), 1998-2000
- School of Education Curriculum Committee (Chair), 1992-2000
- Department Personnel Committee Member, 1989-2000
- Graduate Administrative Board Alternate (SOE), 1998-1999
- School of Education Dean’s Advisory Council Member, 1993-1995
- Middle Grades Interdisciplinary Committee Member, 1990-1995
- Evaluation Committee Member – Council for Teacher Education, 1990-1991
- Faculty Senate – Alternate, 1989-1991
- Ad-hoc Graduate Program Committee, 1989-1991
- Ad-hoc Committee on Committee Structure, 1989
- Department Undergraduate Committee, 1988

**Committees and Boards, Non-University**

- Association for the Education of Teachers in Science Awards Committee Member, 1995-1997
- Research Committee Member, National Middle Level Science Teachers Association, 1990-1994

**University Presentations**

- Writing for Professional Publication, Liberty University, August, 2005.
- How to be a Reader/Mentor for Dissertations, Liberty University, May, 2005.
- Dissertation and Thesis Research Workshop, Liberty University, May, 2005.

**Community**

- ❖ Vision Committee Member, Redeemer Presbyterian Church, Lynchburg, VA, 2004-2005
- ❖ Officer in Training, Redeemer Presbyterian Church, Lynchburg, VA, 2005
- ❖ Deacon, Christ Presbyterian Church, Winterville, North Carolina, 1994-2005 (currently inactive)

## **PROFESSIONAL DEVELOPMENT**

Essential Liberty On-line Research Tools (Research Tools) workshop, Liberty University, August, 2005.

Molecular Evidence for Creation workshop, Liberty University, August, 2004.

Teacher Education Accreditation Council (TEAC) training, VDOE, Charlottesville, VA, August, 2005.

Assignment Manager (Blackboard) workshop, Liberty University, May, 2004

How to be a Reader/Mentor for Dissertations, Liberty University, August, 2004.

Dissertation and Thesis Research Workshop, Liberty University, August, 2004.

Association for the Education of Teachers in Science International Conference, Colorado Springs, Colorado, 2005.

Mid-Atlantic Association for the Education in Science Regional Conference, Roan Mountain, TN, 2004.

Association for the Education of Teachers in Science International Conference, Nashville, TN, 2004.

Association for the Education of Teachers in Science International Conference, Saint Louis, MO, 2003.

National Science Teachers Association Conference, San Diego, CA, 2003.

Association of the Education of Teachers in Science Internatal Conference, Charlotte, NC., 2002.

National Association for Research in Science Teaching Conference, St. Louis, MO., 2001.

National Science Teachers Association Annual Convention, Orlando, Florida., 2000.

Association for the Education of Teachers in Science Annual Conference, Akron, Ohio, 2000.

North Carolina Science Teachers Association Annual Conference, Greensboro, 1999.

National Science Teachers Association Annual Convention, Boston, Massachusetts, 1999..

National Science Teachers Association Annual Convention, Boston, Massachusetts, 1999.

Association for the Education of Teachers in Science Annual Conference, Austin, Texas, 1999.

North Carolina Science Teachers Association Annual Conference, Greensboro, 1998.

National Science Teachers Association Annual Convention, Las Vegas, Nevada, 1998.

North Carolina Science Teachers Association Annual Conference, Greensboro, North Carolina, 1997.

Watson, S. B. (1997, November). *Animals, animals, and more animals*. Presented at the North Carolina Science Teachers Association Annual Conference, Greensboro, North Carolina.

North Carolina Science Teachers Association Annual Conference, Greensboro, North Carolina, 1997.

National Association for Research in Science Teaching Conference, Chicago, IL, 1997.

North Carolina Science Teachers Association Annual conference, Greensboro, NC, 1996.

National Association of Biology Teachers Annual Conference, Charlotte, NC, 1996.

Association for the Education of Teachers in Science International Conference, Seattle, WA, 1996.

North Carolina Science Teachers Association Annual Conference, Winston Salem, October, 1995.

Association for the Education of Teachers in Science International Conference, El Paso, TX, 2004.

National Association for Research in Science Teaching Conference, Atlanta, GA, 1993.  
Association for the Education of Teachers in Science International Conference, Charleston, SC, 1993.  
East Carolina University Middle School Summer Conference, Greenville, NC, 1992.  
National Science Teachers Association Conference, Boston, 1992.  
Watson, S. B. (1992, March). *Cooperative incentives and heterogeneous arrangement of*  
National Association for Research in Science Teaching Conference, Cambridge, MA, 1992.  
North Carolina Science Teachers Association Conference, Raleigh, NC, 1992.  
National Science Teachers Association Conference, Houston, TX, 1991.  
North Carolina League of Middle Level Schools Conference, Research Triangle Park, 1991.  
National Association for Research in Science Teaching Conference, Atlanta, 1990.  
National Science Teachers Association Conference, Atlanta, 1990.  
North Carolina Science Teachers Association Conference, Charlotte, NC, 1989.  
Florida Association of Science Teachers Conference, Panama City Beach, FL, 1989.  
National Association of Biology Teachers Regional Conference, Washington D.C., 1989.  
National Science Teachers Association Conference, Seattle, Washington, 1989.  
North Carolina League of Middle Level Schools Conference, Research Triangle Park, 1989.  
National Science Teachers Association Annual Conference, St. Louis, 1988.  
Florida Association of Science Teachers Conference, Orlando, FL, 1988.

## **MEMBERSHIPS**

- ❖ Association for the Education of Teachers in Science
- ❖ National Association for Research in Science Teaching
- ❖ National Science Teachers Association
- ❖ North Carolina Science Teachers Association
- ❖ School Science and Mathematics Association
- ❖ Virginia Association of Science Teachers