

Faculty Curriculum Vitae

Date of Preparation: February, 2006

Personal Information

Jacqueline T. McDonnough

Naturalized United States Citizenship

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Licensure

Virginia State Postgraduate Professional License
General Science and Earth and Space Science- 2010

Education

2002, University of Virginia, Ph.D. Science Education, Charlottesville, Virginia.
Dissertation: Implications of Reported Use of Constructivism with Diverse Populations.
Advisor: Juanita Jo Matkins, Ed.D.

1999, Virginia Commonwealth University, M.Ed. Curriculum and Instruction, Richmond,
Virginia. Externship: Three elementary teachers' attempts to use constructivist
approaches in third grade mathematics

1989, Virginia Commonwealth University, BS, Secondary Education. Richmond,
Virginia.

Academic Appointments and Other Significant Work Experience

2003- present, Virginia Commonwealth University, Assistant Professor full time. Teach
TEDU 517 Elementary Science Methods, TEDU 540 Teaching Secondary Science,
TEDU 301 Secondary Practicum, TEDU 681 Investigations and Trends in Teaching
Science and advise secondary science majors. Director of Virginia Governor's School for
Life Sciences and Medicine, a summer residential program for gifted students. Primary
responsibilities include staffing for 7 positions, budgeting, program promotion and
program planning.

2002-2003, Virginia Commonwealth University, Collateral Faculty full time. Teach TEDU 517 Elementary Science Methods, TEDU 540 Teaching Secondary Science, TEDU 301 Secondary Practicum, and advise secondary science majors. Director Virginia Governor's School for Medicine and Life Sciences, a summer residential program for gifted students. Primary responsibilities include staffing for 7 positions, budgeting, program promotion and program planning.

1999-2001, University of Virginia, Graduate Research Assistant part time. Primary duties included study sites coordinator, instrument construction and evaluation, data collection and analysis, and literature review for Visual Education for Science Literacy research project. Teaching assistant EDIS 545 Elementary Science Methods.

1999, Virginia Commonwealth University, Adjunct Instructor part time. Taught TEDU 517 Elementary Science Methods.

1988-1999, Mathematics and Science Center, Teacher. Taught enrichment sciences classes to K-5 students on various topics during the school year. Coordinated and taught themed classes to gifted rising eighth students during the summers of 1990-1995.

1995-1999, Richmond City Public Schools, Middle School Science Teacher. Taught 8th grade physical science and earth and space sciences at Chandler Middle School and O.W. Minnis Middle Schools. Served for two years as the 8th grade team leader and Science Department head at O.W. Minnis.

1989-1995, Chesterfield County Public Schools, High School Science Teacher. Taught 9th grade earth and space science and a mixed 11th and 12th grade applied physical science at Thomas Dale High School. Served as the freshman class sponsor for three years and the Ecology Club sponsor for one year.

Fields or Areas of Special Interest Within Discipline or Profession

I am currently conducting research on how a science methodological approach contributes to content learning and self efficacy in elementary pre-service teachers.

Membership in Organizations and Societies

Scientific

Virginia Academy of Science, 2004

Professional

Association for Educators of Teachers of Science, 2002- present

Phi Delta Kappa, 2005- present

National Association for Research in Science Teaching, 2002- present

National Science Teachers Association, 1989- present

Virginia Association of Science Teachers, Board Member, 1995- present

Virginia Junior Academy of Science, Board Member, 2004- present

National Conference of Governor's Schools, 2004-present

Significant Community Service

Virginia Jamaica Education Exchange Foundation, Board member, 2004- present

Special Awards, Fellowships, Grants, and Other Honors

1992, James River Soil Conservation District “Soil Conservation Educator of the Year”

1992, GTE Growth Initiative for Teachers. A \$12000 grant was awarded to construct a wetland study site in the school courtyard and develop an integrated mathematics and science curriculum.

1995, REB Excellence in Teaching Award. A \$9000 grant awarded for professional development.

1995, WPIX TV Golden Apple Award

1995, City of Richmond School Board Certificate of Appreciation for contributions to Richmond Public Schools.

2001& 2002, Dr. Howard W. Allen Award, based upon exceptional promise as evidenced by both professional and academic accomplishments, University of Virginia

Major Committees

University

University Faculty Senate, 2003-2004

School of Education

Curriculum and Instruction Program Group, Chairperson, 2004-2005

Secondary Program Group, Chairperson, 2005-2006

State

Teacher Quality Task Force, 2003-2004

Virginia Association of Science Educators Board of Directors, Region I Director, 2004-present

Regional

National Association of Science Teachers Easter Region Convention, Guides Manager, 2003-2004

National

National Association of Science Teachers Press, Review Board Member, 2002-2006

International

Science Education International, Assessment Section, Reviewer, 2003-present

Other significant Scholarly, Research or Administrative Experience

McDonnough, J. T. and students. “Inquiry Potpourri: Secondary Science Lessons” November 2005, Virginia Science Teachers Association, Roanoke, Virginia.

Matkins, J. J. & McDonnough, J. T. “Jazzing Up Sound: Using a Science Circus to Teach Elementary Sound Concepts” November 2005, Virginia Science Teachers Association, Roanoke, Virginia.

- McDonnough, J. T. & Matkins, J. J. "The Effect of Science Methodological Approach on the Science Content Understanding of Elementary Pre-service Teachers" November 2005, Virginia Science Teachers Association, Roanoke, Virginia.
- McDonnough, J. T. & Ozaki, S. L., "A University- K-12 Partnership for Developing Biological Complexity Understanding" June 2005, National Science Teachers Association Eastern Regional Convention, Richmond, Virginia.
- Baski, A, & McDonnough, J. T. "Hands-on Physical Science for Elementary School Teachers" April 2005, National Science Teachers Association National Convention, Dallas, Texas.
- Hayes, M. & McDonnough, J.T. "Using Selected Websites and Software to Enhance High School Chemistry" April 2005, National Science Teachers Association National Convention, Dallas, Texas.
- McDonnough, J.T. & Templeton, R. T. "Teaching Enhanced by Technology: Integrating Technology into Science Teaching" April 2005, National Science Teachers Association National Convention, Dallas, Texas.
- McDonnough, J. T. & Matkins, J. J. "The Teacher as Ringmaster: Using Science Circuses to Teach Sound Concepts" December 2004, National Science Teachers Association Eastern Regional Convention, Richmond, Virginia.
- Ozaki, S. L., McDonnough, J. T. "A University- K-12 Partnership for Developing Biological Complexity Understanding" December 2004, National Science Teachers Association Eastern Regional Convention, Richmond, Virginia.
- McDonnough, J.T. "Teaching Enhanced by Technology." May 2004, Virginia Academy of Science Conference, Richmond, Virginia.
- McDonnough, J.T. "Reported Use of Constructivism with Diverse Populations", April, 2004. National Association for Research in Science Teaching, Vancouver, BC, Canada
- Baski, A., McDonnough, J.T. & Lewis, D. "Hands-On Physical Science for In-Service and Pre-Service Teachers", October, 2003. Statewide Conference on the Preparation of Middle School Science and Mathematics Teachers, Harrisonburg, Virginia.
- McDonnough, J.T. & Templeton, R. "Technology Use for the Novice: Meeting the Needs of Advanced Learner" March 2003, Virginia Society for Technology Education, Crystal City, Virginia
- McDonnough, J. T. "PT3 Project Evaluation: Insights from the Middle", May, 2003. International Organization for Science and Technology Education, Williamsburg, Virginia
- McDonnough, J.T. "Implications of Reported Use of Constructivism with Diverse Populations" November 2002, Virginia Association of Science Teachers, Richmond, Virginia.
- Matkins, J. J. & McDonnough, J. T. "The Teacher as Ringmaster: Meeting Standards Using Science Circuses" November 2002, Virginia Association of Science Teachers Conference, Richmond, Virginia.

McDonnough, J.T., Templeton, R. & Hale, T. "Year One: Governor's School for Medicine and Life Sciences" November 2002, Virginia Association of Science Teachers, Richmond, Virginia.

McDonnough, J.T. "Implications of Reported Use of Constructivism with Diverse Populations" October 2002, Association for Educators Teachers of Science Southern Regional Conference, Natural Bridge, Virginia.

Bibliography

Refereed papers published

McDonnough, J. T. (2004). Implications of reported use of constructivism with diverse populations. *Science Education International*, 16,4, pp 273-292.

McDonnough, J.T., Baski, A., McKelvy, S. & Lewis, D., (2004). Hands-on physical science for in-service teachers. *The Journal of Mathematics and Science: Collaborative Exploration*, 7, Fall 2004, pp. 67-75.

Matkins, J. J. & McDonnough, J. T. (2004). Circus light. *Science and Children* 41, 5, pp. 50-54.

McDonnough, J. & Templeton, R. (2004). Teaching enhanced by technology: One novice teacher's experience with integrating technology into science teaching. *VSTE Journal*, 18, 1, p 13-20. <http://www.vste.org/communication/journal/archive.html>

Matkins, J. J., Miles, R., & McDonnough, J. T. (2000). Woman, wife, mommy, and scientist: The impact of a readers' theatre play on elementary pre-service teachers' understanding of gender issues. *The Journal of Mathematics and Science*, 3, 2.

Books/Chapters published

Brigham, F. J., Zaimi, E., Matkins, J. J., Shields, J., McDonnough, J. & Jakubecy, J. J. (2001). The eyes may have it: Reconsidering eye movement research in human cognition. *Advances in Learning and Behavioral Disabilities: Technological Applications*, 15.