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Education Curriculum Vitae

Joseph Murray
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Education:

1980-1984 Radford University, Radford, Virginia. Bachelor of Arts, Biology (minor in Chemistry)
1984-1987 Virginia Polytechnic Institute and State University, Blacksburg, Virginia. Master of Science, Plant Pathology and Physiology
1992-1993 University of Richmond, Richmond, Virginia. Master of Teaching

Military Experience:

1977-1980 Communications Center Supervisor, Headquarters Battalion, Commanding General 2nd Marine Division, United States Marine Corps, Camp Lejeune, NC. Honorable Discharge (Corporal; E4). Received two meritorious promotions.
2006-Present Marine Corps League, Stonewall Detachment. Staunton, Virginia.

Faculty Positions:

1991 Adjunct Biology Instructor, J. Sargeant Reynolds Community College, Richmond, Virginia
1993-1998 Biology Teacher. Amherst County High School, Amherst, Virginia
1994-1998 Adjunct Biology Instructor, Central Virginia Community College, Lynchburg, Virginia
1995-1998 Biology Teacher/Dual Enrollment Biology Instructor. Amherst County High School, Amherst, Virginia
1998-Present Assistant Professor of Biology, Blue Ridge Community College, Weyers Cave, Virginia
2000-Present Part-time Instructor (Non-Credit). Center for Training and Development. Blue Ridge Community College, Weyers Cave, Virginia
2002-Present Arboriculture Program Director. Blue Ridge Community College, Weyers Cave, Virginia

Certification, Licensure & Training:

1993-2000 State Teachers License, Biology Endorsement, State Board of Education, Commonwealth of Virginia

Committee and Administrative Appointments (Education):

1994-1998 Numerous Technology and Curriculum Committees, Amherst County School District
1997-1998 Amherst County Action Team. Committee formed to address a resolution agreed upon between the Amherst County Public Schools and the U.S. Office of Civil Rights.
1998-1999 Ad Hoc Committee addressing student expectations of faculty and faculty expectations of students. Blue Ridge Community College.
1999-Present Teacher Preparation Task Force. Blue Ridge Community College.
1999-2002 Educational Strategies Committee. Blue Ridge Community College.
2000-2001 Technology Plan Development Committee (Technology Plan for 2000-2002). Blue Ridge Community College.
2002-2005 Planning Committee. Blue Ridge Community College.

Service:

1999-Present Coach. American Youth Soccer Organization. Staunton, Virginia
2001-Present VA Community College online journal *CONNECTING*. Editorial Board.
2004-Present Judge. Virginia Envirothon. Sponsored by the Virginia Association of Soil and Water Conservation Districts.

Sponsor Activities:

1993-1996 Boys Varsity Tennis Coach
1993-1998 Science Fair Coordinator and Sponsor. Member of the Regional Steering Committee
1994-1996 Science Varsity Academic Competition for Excellence (ACE) Team
2005-Present Co-leader of a Learning Community. Blue Ridge Community College. Weyers Cave, Virginia.

Teaching:

1991 General Biology, J. Sargeant Reynolds Community College, Richmond, Virginia
1993-1998 Advance Science Research, Designed course and curriculum. Amherst Co. High School, Amherst, Virginia
1993-1998 General Biology (Special Needs, 10th grade, & Honors). Amherst Co. High School. Amherst Co. High School, Amherst, Virginia
1994-1998 Advance Biology, Dual enrollment with Central Virginia Community College, Lynchburg, Virginia
1994-1998 General Biology, Central Virginia Community College, Lynchburg, Virginia
1994-1998 Anatomy & Physiology, Central Virginia Community College, Lynchburg, Virginia
1998-Present General Biology. Blue Ridge Community College, Weyers Cave, Virginia
1998-2000 Anatomy & Physiology. Blue Ridge Community College, Weyers Cave, Virginia
1999-2000 Biotechnology. Blue Ridge Community College, Weyers Cave, Virginia
2000-Present *Tree Care 101* (non-credit) Center for Training and Development, Blue Ridge Community College, Weyers Cave, Virginia

2001-2004 Arborist Certification Course (non-credit) Center for Training and Development, Blue Ridge Community College and Mid-Atlantic Chapter of the International Society of Arboriculture.
2001-Present Cyberbiology (Biology 101 and 102). Designed an our college's first on-line science course. Makes extensive use of regional resources (museums, zoos, parks, botanical gardens...). Blue Ridge Community College, Weyers Cave, Virginia
2002-2004 *Rain Garden: Design, Installation & Maintenance* (non-credit) Blue Ridge Community College, Weyers Cave, Virginia
2002-2006 Developed and directed the Career Studies Certificate Program in Arboriculture (the first one in Virginia): Blue Ridge Community College, Weyers Cave, Virginia
2002-2006 *Arboriculture* (HOR295; credit) Blue Ridge Community College, Weyers Cave, Virginia
2002-2006 *Urban Forestry* (FOR265; credit) Blue Ridge Community College, Weyers Cave, Virginia
2004-2006 *Recreational Tree Climbing* (FOR195; credit) Blue Ridge Community College, Weyers Cave, Virginia
2004-Present Arborist Certification Course for the Mid-Atlantic Chapter of the International Society of Arboriculture.
2005 *Plant Pest Management* (HRT 207; credit) Blue Ridge Community College, Weyers Cave, Virginia

Professional Activities:

Grant Review Boards:
1993 Equity Mini-Grants, Eisenhower Consortium for Math and Science, Appalachia Educational Laboratory, Charleston, West Virginia
1998-Present Field Reader for U.S. Office of Higher Education Programs.
2002-Present Grant Reader. Minority Science and Engineering Improvement Program. U.S. Department of Education.

Journal Referee:
1996-2003 *The American Biology Teacher*
2001-2004 VA Community College online journal *CONNECTING*. Editorial Board

Textbook Reviewer:
1998-Present Review chapters in textbooks, lab manuals & multimedia programs for WCB/McGraw-Hill Publishers and Brooks-Cole.

Memberships in Professional Societies:
1993-2000 National Association of Biology Teachers
1993-1997 Central Virginia Association of Science Teachers
1994-1999 Virginia Association of Science Teachers
1995 Virginia Association of Biology Teachers. Charter Member.
1998-2000 Virginia Community Colleges Association
1998-2005 Virginia Association of Biology Educators.

1999-2000 Human Anatomy and Physiology Society
2000-2005 Virginia Natural History Society

Presentations:
1995 High School Science Students as Mentors for Elementary Students. Virginia Quality Education in Sciences and Technology (V-QUEST), Conference. Leadership at All Levels. Norfolk, Virginia
1998 *Forest Fridays and Adopt A Tree.* VAST Conference. Omni in Richmond, VA October 31
2000 *Lectures for Visual Learners: PowerPoint-Driven Biology Lectures.* "Horizons 2000: New Technologies for Teaching and Learning." Virginia Community College System New Horizons Conference. Richmond, VA. April 3
2000 *Web Assisted Teaching in Biology*. Central Virginia Regional Center for Teaching Excellence. Central Virginia Community College. October 27
2001 *On-line and Hands-on Approach to Tree Identification*. Concurrent Session I. VCCS Science Peer Group. Norfolk, VA. February 23
2001 *History Runs Through Their Veins: Millennium Grove of Blue Ridge Community College.* National Urban Forest Conference. Omni Shoreham Hotel, Washington D.C. September 5-8, 2001.
2001 *Humor in the classroom.* Virginia Association for Biological Education. Annual Fall Meeting. Blue Ridge Community College. October 19-20.
2002 *Have You Worked A Tree Into Your Lecture Today?* International Conference on Teaching & Leadership Excellence. National Institute for Staff & Organizational Development. May 27, 2002. Austin Convention Center. Austin, TX
2003 *How To Design, Install, And Maintain A Rain Garden On Your Campus.* April 4, 2003. Virginia Community College Science Peer Group Meeting. Hotel Roanoke, Roanoke, Virginia
2003 *How to Urban Forestry into Any Curriculum.* April 4, 2003. Virginia Community College Science Peer Group Meeting. Hotel Roanoke, Roanoke, Virginia

Grant Support:

1995 Equity Mini-Grant from the Eisenhower Consortium for Math and Science. Designed and implemented a joint science fair project involving high school seniors and elementary school students. $750
1999 BRCC Educational Foundation grant (summer). For writing an interactive tutorial program on Genetics. $1,000
2000 VCCS Professional Development Research Grant. To develop an on-line interactive key for the 150 native tree species in the BRCC Arboretum. $2,250
2000 BRCC Educational Foundation grant (summer). For writing 3 outdoor independent learning activities (Ecology at Sherando Recreational Area; Behavior at the National Zoo; Tree Identification in the BRCC Arboretum) $1,000
2001 BRCC Educational Foundation grant for the construction of two wheelchair paths in the BRCC Arboretum. $6,250
2001 BRCC Educational Foundation grant (summer). For developing course materials and activities for BRCC's first cyberbiology course. $1,605
2001 VCCS Professional Development Research Grant (SP0201). To develop Virginia's first

one year career studies certificate in Arboriculture. $5,328
2002 VCCS Professional Development Research Grant (SM0209). To research and disseminate information to all 23 community colleges in Virginia (via the web) concerning installation, materials, resources, and course materials related to *Rain Gardens*. $2,250
2002 VCCS LearningWare LOCUS (LearningWare Online Content Use and Storage) Grant to participate in the SOCKET (Student Oriented Comprehensive Knowledge Enhancement Technique) workshop and develop a module to be posted in the upcoming VCCS Digital Content Library. $1,200
2002 Urban and Community Forestry Grant. Virginia Department of Forestry. *Educational and Accessible Plant Material. The* purpose of this grant is to seek funding that will allow us to purchase plant material to landscape a soon to be installed (April 15, 2002) wheelchair path in our arboretum. $2,500

Awards:

1992 Recipient of a full scholarship to attend University of Richmond.
1993 Kappa Delta Pi, Theta Theta Chapter, University of Richmond, Richmond, VA.
1994-1995 Internship in the National Science Foundation's Center for Biological Timing, University of Virginia, Charlottesville, Virginia.
1995-1996 Field Tester for the National Association of Biology Teachers and the National Science Foundation. *Encouraging Student Biological Research through Teacher-Scientist Partnerships*. National Association of Biology Teachers. ISBN: 0-941212-26-2. Tested 12 variations of the activity *Biosphere III*.
1996 Woodrow Wilson Fellowship. Woodrow Wilson High School Leadership Institute, *Neurobiology at All Levels of Organization*. Princeton, New Jersey. June-July.
1998 Teacher of the Year. Amherst County High School. Amherst, Virginia
2000 Technology in Education Award for Excellence in the Area of Classroom Support for the project *The Virtual Professor*. Virginia Community College System New Horizons Conference. Richmond, VA. April 3
2002 Outstanding Faculty Award for Blue Ridge Community College and nominee for the State Council of Higher Education for Virginia.
2002 Excellence Award. National Institute for Staff & Organizational Development. The University of Texas at Austin.
2002 Educators Travel Grant (scholarship). Professional Horticultural Conference of Virginia. Virginia Beach Pavilion, Virginia Beach, VA.
2002 Faculty Showcase Award. Virginia Community College Association.

Publications:

Completed Publications in Scientific Journals:
Booth Jr RA, Weltman JY, Yankov VI, Murray J, Davison TS, Rogol AD, Asplin CM, Johnson ML, Veldhuis JD, Evans WS 1996 Mode of pulsatile FSH secretion in gonadal-hormone

sufficient and deficient women. *Journal of Clinical Endocrinology and Metabolism* 81:3208-3214.

Completed Publications in Educational Journals:

Murray, JM 1995 Hey, Look Mom, I'm a Scientist: High School Mentors Spark Elementary Science Interest. *Focus On Instruction* Supplement to The Link 14(2):5.

Murray, JM 1996 Minds on Mozart. Living Computers? Neurobiology at All Levels of Organization. Woodrow Wilson Neurobiology High School Institute, Princeton, New Jersey.

Murray, JM 2002 The Role Of Community Colleges in Training Arborists to Care for Virginia's Urban Forests. *Inquiry* 7(1):55-63.

Murray, JM 2002. Are You Ready to Transform Your Traditional Course into a Web-Assisted Course? *Tech Sample*. American Society of Clinical Pathology. *Management and Education No. MGM-1 2002*.

Completed Publications in Textbooks:

Murray, JM 2002. Major contributor to *Defense Strategies of Trees*. Chapter 25 Plant Structure. *Biology* 8th Edition. Sylvia Mader. McGraw-Hill.

Abstracts:

Murray, JM 1995 Who Said Science Can't Be Fun?: High School Students Teach Elementary School Students Scientific Methodology. Presented to the Fourth Annual Virginia Quality Education in Sciences and Technology (V-QUEST) Conference, Norfolk, Virginia, February, 1995.