

Carolyn Nairn-Varas Pesthy
Lecturer of Biology
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EDUCATION

B.A.	1967	Trinity University	Biology
M.S.	1971	State University of New York	Science Education
Ph.D.	1989	Texas A & M University	Science Curriculum & Instruction
M.S.	2007	University of Texas Health Science Center	Microbiology & Immunology

GRADUATE THESES

MS Nutritional Value of Freshwater & Marine Alga
MS Functionality of Activation-Induced Cytidine Deaminase in Class Switch Recombination
PhD The Effects of Mathematically Non-Threatening Science Courses on Attitudes, Career Choice, and Continued Science Education

PROFESSIONAL EXPERIENCE

2003-2009	Lecturer, Department of Biology, Texas State University-San Marcos Functional Biology, Functional Biology Lab, Modern Biology I & II
2004-2009	Lab Safety Institute Consultant
2000-2004	Command Technologies Science Education Consultant
1990-2000	USAF Science Education/Education Technology Consultant FST Project:ISIS – Science Tutor WPS – Word Problem Solving Tutor R-WISE – Reading & Writing in a Supportive Environment
1973-2004:	Science Department Chair, Douglas MacArthur High School, San Antonio, Texas (biology, oceanography, marine biology, physical science, independent research, lab management and Spanish)
1972-73:	McCullum High School, San Antonio, Texas (chemistry)
1970-72:	Maine-Endwell High School, Maine-Endwell, New York (biology)
1969-70:	Vestal Junior High School, Vestal, New York (8th grade honors science)
1967-69:	McCullum High School, San Antonio, Texas (biology, physical science)

HONORS AND AWARDS

2000:	Sister Joseph Marie Armer Award
1999:	Texas State recipient -- Christa McAuliffe Award
1999:	Alamo Chapter -- Christa McAuliffe Award
1999:	Vice President Al Gore's Hammer Award (member of award-winning Fundamental Skills Training team)
1999:	Sister Joseph Marie Armer Award, Alamo Regional Association of Science and Engineering
1994:	Trinity University Prize for Teaching Excellence
1994:	Nominee, TMA Award for Excellence in Science Teaching
1993	Sigma Xi Outstanding Science Educator Award
1991:	Outstanding Science Educator, Texas Academy of Science
1991:	Merit Winner for Excellence in Science Teaching, Texas Medical Association
1991:	Sister Joseph Marie Armer Award, Alamo Regional Association of Science and Engineering

- 1990: Sister Joseph Marie Armer Award, Alamo Regional Association of Science and Engineering
- 1988: Nominee, National PTA Phoebe Apperson Hearst Outstanding Educator Award
- 1987: University of Texas Teaching Excellence Award
- 1987: GTE Research Fellowship Award
- 1986: Sigma Xi (professional microbiology association) Outstanding Educator Award
- 1985: Teacher of the Year, North East Independent School District
- 1985: Teacher of the Year, MacArthur High School
- 1982: North East ISD Human Relations Award

CURRICULUM DEVELOPMENT

- 2005 Co-author of the Human Systems Curriculum within the Middle School Science I Grant
- 1992-1994 Co-author of ISIS Science Tutor: Fundamental Skills Project USAF
- 1992-1995 Co-author of Math Problem Solving Tutor: Fundamental Skills Project USAF
- 1995 Content Specialist for McGraw-Hill Glencoe Biology: The Dynamics of Life
- 1982-2004 Initiated Marine Science Program NEISD
- 1982-2004 Initiated Independent Research Program NEISD
- 1989 Curriculum Resource Book for Marine Biology: Marine Turtles
- 1989 Curriculum Resource Book for Marine Biology L Orca Whales
- 1982 Honors Biology Curriculum Guide for NEISD
- 1981 Biology Curriculum Guide for NEISD

GRANTS 1987 GTE Gift Fellow

Papers and Publications

Meyer, T., Steuck, K., Miller, T., Pesthy, C., & Redmon, D. (1999, March). Lessons Learned from the Trenches: Implementing Technology in Public Schools. Proceedings of the Society for Information Technology and Teacher Education, 681 - 697, San Antonio, TX

Meyer, T., Steuck, K., Miller, T., Pesthy, C., & Kretschmer, M.. (1999, March). Teaching Scientific Inquiry Skills with an Intelligent Tutoring System. Proceedings of the Mathematics/Science Education & Technology, 492 - 495, San Antonio, TX

West, S. 1990 (Co-author of Science Safety Checklist) Science Lab Safety. The Science Teacher. 19(2) p20-24.

Presentations

Meyer, T., Steuck, K., Miller, T., Pesthy, C., & Redmon, D. (1999, March). Lessons Learned from the Trenches: Implementing Technology in Public Schools. Paper at the Society for Information Technology and Teacher Education Conference, San Antonio, TX

Meyer, T., Steuck, K., Miller, T., Pesthy, C., & Kretschmer, M. (1999, March). Teaching Scientific Inquiry Skills with an Intelligent Tutoring System. Paper presented at the Mathematics/Science Education & Technology Conference, San Antonio, TX

Parlett, J. and Pesthy C. 1992. An Overview of the Fundamental Skills Training Project. MITRE Corporation Teaching Enrichment Program. Boston MA

- Parlett, J. and Pesthy, C. (1991) Intelligent Tutoring Systems: The Fundamental Skills Project. Paper presented at the National Association of School Boards, San Jose, CA.
- Pesthy, C. 1990 . Marine Field Studies, Environmental Education Leadership Institute, San Marcos, TX
- Pesthy, C. 1990. Science Laboratory Safety. National Association of Biology Teachers, Houston, TX
- Pesthy, C. 1990. Research Findings on Minorities in Science, Texas Senior Academy of Science, College Station, TX
- Pesthy, C. 1990. Safety in Biology Laboratories. Conference for the Advancement of Science Teaching, San Marcos, TX.
- Pesthy, C. 1989. Marine Turtles & Orca Whales. National Marine Educators Conference, Miami, FL

INVITED TALKS, LECTURES, PRESENTATIONS

- Parlett, J. Steuck, K. and Pesthy C. 07/20/1990. Fundamental Skills Project. Lehigh University, Lehigh, PA
- Parlett, J. Steuck, K and Pesthy C. 11/4-5/1990. Fundamental Skills Project. Lehigh University, Lehigh, PA
- Parlett, J, Steuck, K and Pesthy, C. 04/29/1990. Fundamental Skills Project. Mayor Cockrell, Councilwoman Ditmer Superintendent Middleton, NEISD, Armstrong Lab, San Antonio, TX
- Parlett, J, Steuck, K and Pesthy, C. 05/20/1991. Fundamental Skills **Word Problem Solving Tutor**. Gary Short, NEISD Central Office, San Antonio, TX
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| Lehigh, PA
Washington, DC | Jan 24-27 | 1991 |
| Armstrong Lab with Lehigh
San Antonio, TX | May 21 | 1991 |
| Georgia Tech & Atlanta Public School
Armstrong Lab
San Antonio, TX | May 30 | 1991 |
| Churchill HS Summer School
San Antonio, TX | July 1 | 1991 |
| Defense Language Institute
Armstrong Lab, San Antonio, TX | July 10 | 1991 |
| Communities in Schools
USAA
Armstrong Lab, San Antonio, TX | July 29 | 1991 |
| NEISD School Board
Richard Middleton NEISD
San Antonio, TX | Sept. 12 | 1991 |

Phillips Lab visitors NM State Legislators Reps MacArthur HS, San Antonio, TX	Sept 13	1991
General Anderson General Yates MacArthur HS, San Antonio, Tx	Oct 25	1991
Georgia Tech & Atlanta Public Schools MacArthur HS, San Antonio, TX	Oct 28	1991
Los Alamos National Lab Sandia National Lab New Mexico Schools Phillips National Lab, Albuquerque, NM	Nov 4-5	1991
Sam Houston HS SAISD MacArthur HS, San Antonio, TX	Dec 11	1991
Dr. Howe UTSA SA Venture Capitalists MacArthur HS, San Antonio, TX	Jan 9	1992
Design SA MacArthur HS, San Antonio, TX	Jan 13	1992
Design SA Communities in Schools Burger King Academy MacArthur HS, San Antonio, Tx	Jan 22	1992
MacArthur HS San Antonio, TX	Jan 24	1992
Col. Paul & Col. Yunkers Wade Adams & Billy Welch MacArthur HS, San Antonio, TX	Feb 11	1992

Consultancies

Lab Safety Seminar Midland Tx	Dec 12	2005
Lab Safety Seminar San Antonio, Tx	Dec 2	2005
Lab Safety Seminar Grand Forks, ND	April 14	2005
Lab Safety Seminar Charlotte, NC	October 26-28	2004
Lab Safety Seminar New York City Teachers	August 9-10	2004
Lab Safety Seminar New York City Teachers	July 20-21	2004

WORKSHOPS

WPS MacArthur Math teachers MacArthur, HS San Antonio, TX	Aug 20-21	1991
WPS MacArthur, HS MacArthur Math teachers San Antonio, TX	Oct 22-23	1991
WPS Mac Arthur HS New Mexico, Ohio, Pennsylvania, & New York Public Schools San Antonio, TX,	Aug 3-6	1992
WPS MacArthur HS MacArthur Math teachers San Antonio, TX	Jan 20	1993
R-Wise MacArthur HS MacArthur English teachers San Antonio. TX	Aug 2-6	1993
WPS Dept. of Defense DODEA San Diego, Ca Teachers	July 20	1994
WPS Phillips National Lab AZ, Sam Houston HS Albuquerque, NM	Aug 4-5	1994
WPS Cuba Consolidated District Cuba, NM	Nov 9-1 0	1994
ISIS & WPS MacArthur HS San Antonio, TX	Mar 13	1995
ISIS West Mesa HS Albuquerque, NM	Jul 31 -Aug 2	1995
ISIS MacArthur HS San Antonio, TX	Aug 7-9	1995
ISIS La Cueva HS Albuquerque, NM	Sept 14-15	1995
ISIS Harlandale Academy San Antonio, TX	Nov 20	1995
ISIS MacArthur HS, Roosevelt HS San Antonio, TX	April 8	1996
ISIS Monzano HS, West Mesa HS Albuquerque, NM	Aug 1-2	1996

ISIS & WPS MacArthur HS San Antonio, TX	Aug 28-29	1996
ISIS West Mesa HS Albuquerque, NM	Oct 24-25	1996
ISIS & WPS MacArthur HS Texas schools San Antonio, TX	April 2-4	1997
ISIS & WPS DOL Job Corp Baltimore, MD	June 1-6	1997
ISIS & WPS DOL Job Corp Bangor, ME	Aug 4-8	1997
ISIS & WPS MacArthur HS San Antonio, TX	Sept 4-5	1997
ISIS Phillips Lab San Antonio, TX	Sept 11-12	1997
ISIS Albuquerque, NM	Oct 24-25	1998

SERVICE

UNIVERSITY: Sponsor of Community Ecology Projects

COMMUNITY:

Board Member of the Alamo Regional Science Fair Board

Board Member of the Challenger Center

ORGANIZATIONS

- Texas State Teachers Association
- National Teachers Association
- Parent-Teachers Association
- Texas Senior Academy of Science
- Science Teachers Association of Texas
- Texas Association of Biology Teachers
- Texas Marine Educators Association
- National Marine Educators Association
- Board Member of Challenger Center
- Board Member of Alamo Regional Science Fair
- Past Member of State Cancer Board