

ROBERT JAMES WALLACE
340 E. 80th Street Apt 1F, NY, NY 10075
email: rw56@nyu.edu

6/10/16
917 885-7916
web site: <http://bit.ly/ScienceEducationHome>

ACADEMIC EDUCATION

- PRINCETON UNIVERSITY, Princeton, NJ
- Ph.D. 1975 Biological and Geological Sciences (Evolutionary Biology, Marine Ecology, Terrestrial Ecology, Vertebrate Paleontology)
- M.A. 1972 Geological/Biological Science (Ecology and Evolutionary Biology)
- NORTHERN ILLINOIS UNIVERSITY, DeKalb, IL
- M.S. 1970 Marine Ecology, Geology and Biology (physics and meteorology minor emphasis)
- B.S. 1964 General Science Major, Mathematics Minor – Illinois Teacher Certification
- PROJECT ADVENTURE COUNSELING/TRAINING
- 1991 Certified Trainer in use of physical challenges and cooperative games for counseling.

EXPERIENCE HIGHLIGHTS

- NEW YORK UNIVERSITY, New York, NY
- 2002 - Present
- Writer of the science education portion of the Embedded Masters of Arts Program (EMAP) the residency program that includes extensive use of online technologies.
 - Part of the team that created the Clinically Rich Integrated Science Program (CRISP) and served as the coordinator of this unique and successful residency masters program.
 - Coordinator of the Math, Science and Technology Enhancement Project. A successful program for training and certifying math and science teachers at the secondary school level.
 - Helped write the successful grants and reports that funded the science masters programs.
- 1999 - 2002 FOUNDER AND HEAD OF THE HARBOR SCIENCE AND ARTS CHARTER SCHOOL, East Harlem, NY
- Co-wrote the successful charter application for this unique and successful Math/Science/Technology emphasis elementary school (Grades 1-8).
 - Developed all of the managerial structure to successfully track and collate the required reports for a charter school.
 - Reading and Math scores rose nearly a grade level each year. By the third year 82% were meeting the NY state standards (from 20 % in the first year).
 - Successfully fund raised approximately 25% of the nearly \$2 million yearly budget.
 - Students presented workshops for school teachers at an environmental conference held in Havana, Cuba
- 1993-1999 FOUNDER AND CO-DIRECTOR OF THE HARBOR ACADEMY FOR ENVIRONMENTAL STUDIES AND THE ARTS, East Harlem, NY
- In this New York City Board of Education Math/Science/Technology emphasis Elementary School (grades 1-6) academic performance was emphasized.
 - Students published scientific work, presented work at all-

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- day science workshops for directors and principals of schools, presented work at district science fairs (first place awards every year – more than any other school in the district), presented workshops at the international Youth CaN conference held at the American Museum of Natural History.
 - c. Students provided leadership as part of cooperatives with scientists in The Meer Systems Study (a long-term study of the ecology of the north end of Central Park, NYC) and as part of the international biodiversity study project sponsored by the Center for Children and Technology and the American Museum of Natural History.
- 1985-1995 DIRECTOR OF THE HARBOR ENVIRONMENTAL RESEARCH CENTER (H.E.R.C.), Boys and Girls Harbor, New York, NY
- a. Started as a summer sleep-away program in East Hampton, New York, Dr. Wallace created H.E.R.C., a year-round outdoor science and education center that served the educational needs of schools in the northeast, including the East Hampton School System.
 - b. This program served as the proving ground for the Harbor Academy.
- 1985-1993 TEACHER/STAFF DEVELOPER/EDUCATIONAL TECHNOLOGY CONSULTANT, Packer Collegiate Institute and Saint Ann's College Preparatory private schools in New York City (pre K – 12th grade).
- a. Successfully worked with teachers and students to integrate technology and science into the entire school curriculum.
 - b. Students won national awards in science and technology.
 - c. Served as the Chair of the Computing Department of Saint Ann's School (Westinghouse winner, Super Computer semifinalists, U.S.A. Today top student in the U.S. award).
 - d. Served as the Director of the Science/Computing Independent research program at Packer Collegiate Institute.
- 1988-1990 EDUCATIONAL CONSULTANT TO METROTECH, Polytechnic University, Brooklyn, NY
- 1985-1986 COMPUTER CONSULTANT – DATA ANALYST, New York City Board of Education, New York, NY.
- a. Developed the quality control and scoring system for the New York City Public Schools standardized testing program.
 - b. Wrote the reports documenting the results for all schools in New York City.
- 1980-1985 VICE PRESIDENT, Audio Vistas, Inc., New York, NY
- a. Developed the business plan and its successful implementation for a video/film production company.
 - b. Emphasis on educational and scientific industrial films.
 - c. Increases sales from \$200,000 to over \$1,500,000.
- 1972-1980 GEOLOGIST/MARINE ECOLOGIST, Assistant Professor and

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Deputy Chair, Dept of Geology, City University of New York,
Brooklyn College.

- a. Developed a successful undergraduate and Master's level program in the study of ancient and modern ecosystems.
- b. Was instrumental in the successful application for a Ph.D. program at the college.

HONORS AND SELECT PUBLICATIONS/PRESENTATIONS

- a. Helped write the successful proposal and the quarterly reports for the state and federally funded CRISP science residency.
- b. Developed numerous programs that have been funded by grants from government, private corporations and foundations.
- c. Supervised a multi-million grant funded through the Teaching and Learning Quality Partnership program (part of the No Child Left Behind initiative).
- d. Winner of an Impact II Teaching Excellence Award 1994
- e. Sigma Xi – Science Honor Society (Member)
- f. National Science Teacher Association (Member)
- g. The Mathematical Association of America (Member)
- h. New York Biology Teachers Association (Member)
- i. Illinois State Teacher Certification in Mathematics and Science (secondary)

2015 & 2016

- Wallace, Robert and Catherine Milne conducted a series of 3 day professional development workshops for public school science teachers at NYU Abu Dhabi – August 2015 and February 2016
- 2015
Wallace, Robert, An e-Book Can Serve as the Center of an Interactive, Inquiry-based Exploration of the Hominid Fossil Record, NSTA conference, Boston.
- 2012
Wallace, Robert, Trees, Technology, Ecology and Inquiry, NSTA conference Indianapolis.
- 2008
Wallace, Robert, Mubina Khan, Mary Leou, Digital Ecological Modeling for Educators and Students (DEMES), National Science Teachers Association Meeting,
- 2007
Fraser-Abder, Pamela and Robert J. Wallace, editors, Pedagogical Issues in Science, Mathematics and Technology Education, v3, NYCPD, New York. (peer reviewed professional paper series).
- 2007
Fraser-Abder. Robert J. Wallace et.al. Developing an Urban Science and Math Community of Practice, School Science and Mathematics Annual Conference Proceedings. Indianapolis, IN.
- 2006
Wallace, Robert J., A Study of Flutter Fall, in Pedagogical Issues in Science, Mathematics and Technology Education, v2, invited paper.
- 2005
Wallace, Robert J. The Technology Challenge for Teacher Education, in Pedagogical Issues in Science, Mathematics and Technology Education, v1, invited paper.
- 2005
Wallace, Robert and Blayne Marshall, Improving Math and Literacy Scores through Science. School Science and Mathematics Annual Conference Proceedings.
- 2005
Wallace, Robert J. Teachers Count guest expert with Rudy Crew, former NYC School Chancellor, Answered online questions about

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- education, February 2005.
- 2004 Wallace, Robert, John Pratt. School/ University Partnerships: Our Pathway to Success. School Science and Mathematics Annual Conference Proceedings.
- 2003 Fraser-Abder, Pamela. Robert J. Wallace, et.al., Improving Urban Student Achievement in Science and Mathematics: A Model for Success, School Science and Mathematics Annual Conference Proceedings.
- 1999 Series of presentations and workshops for teachers in Cuba
- 1996 Franken, Carol and Robert J. Wallace, Science in the City, Science and Children, January 1996, v 33, No. 4 p 12+
- 1996 Contributor to the Biodiversity Counts Teacher Lesson Plans, American Museum of Natural History.
- 1972-1985 Numerous publications and presentations on coral reef ecology.

COURSES TAUGHT AND PROJECTS SUPERVISED

Biology for the Science Teacher (part of NYU CRISP))
Computer Coding for the Science Teacher (part of NYU CRISP)
Data and Assessment for the Science Teacher (NYU)
Technology for the secondary Science Teacher (NYU)
Language and Literacy Acquisition for the Math and Science Teacher (NYU)
Science Methods for the secondary school teacher I, II (NYU)
Independent studies in Earth Science (NYU)
Science for the Elementary School Teacher (NYU and Bank Street College)

Nature Studies for the Elementary School Teacher (Bank Street College)
Paleontology (Brooklyn College, Princeton)
Sedimentology (Brooklyn College, York College, Princeton, NYU)
Marine Studies (Brooklyn College, Princeton)
Introduction to Historical Geology (Brooklyn College))
Introduction to Physical Geology (Brooklyn College)
Principles of Astronomy (Brooklyn College)
Principles of Meteorology (Brooklyn College)

Introduction to Computer Science (Saint Ann's High School, Packer Collegiate High School)
Science Research Techniques (Saint Ann's High School, Packer Collegiate High School)
An Introduction to Artificial Intelligence (Saint Ann's High School)
Created and Directed the Harbor Environmental Research Center (HERC), a year-round ecological sciences research center for teachers and their students

Coordinated the external evaluation of the Mexico science curriculum and standards. I was part of a 2-person team that conducted two 3-day science workshops for public school science teachers in Abu Dhabi
Conducted science workshops for visiting teacher candidates from Aruba
Conducted a series of science workshops for Cuban science teachers in Havana, Cuba.

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The Digital Ecological Modeling for Educators and Students (DEMES) (NYU.)
Field Studies in New York City parks.
Field Studies at the Tiorati Environmental Workshop in Harriman State Park.
Field Studies at Black Rock Forest.