

Daniel Laughlin
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EDUCATION

American University, Washington, DC 2001
Doctor of Philosophy: Education (focused on technology)
Dissertation: Scientific Thinking: Considering the Opposite to Mitigate Assimilation Bias

University of Newcastle upon Tyne, England 1986
Master of Arts: Ancient History
Thesis: The Structure of Spartan Government

Warren Wilson College, Asheville, NC 1985
Bachelor of Arts: History and Political Science

EXPERIENCE

Visiting Research Scientist 2002-present
Goddard Earth Science and Technology Center
University of Maryland Baltimore County

Worked as the only full-time member of the LEARNERS team. LEARNERS supports the enhancement of science, technology, engineering and mathematics education through the development of technology based educational tools using NASA-related information with an annual budget of one million dollars.

- Organized and ran an international workshop on dissemination.
- Managed contact with completed and on-going LEARNERS I projects.
- Co-developed the technology infused educational inquiry activity *Principles of Remote Exploration (PREP) for Mars*.
- Helped align the LEARNERS II CAN with the spirit and substance of NASA's new educational organization and goals.
- Redesigned the LEARNER's web page.

Instructor of Education 1997-2002
American University, Washington DC
Teaching recurring sections of:

- Educational Uses of Technology
- Schools and Society

Taught graduate and upper level undergraduate students in education computer and Internet skills including to infuse technology into their own teaching. Also taught general education courses.

NASA Peer Reviewer 1999
Goddard Space Flight Center, Greenbelt, MD
Reviewed grant proposals as an expert on educational uses of technology for the LEARNERS I Cooperative Agreement Notice.

Instructor of History

1988-2001

Prince George's Community College, Largo, MD

Taught recurring sections of:

- Western Civilization I and II
- British History
- Study Skills

National Computer Hardware Trainer

1994

Data Tech Computer Courses

- Taught classes in various cities to troubleshoot and upgrade hardware.

I have also taught at Loyola College, Essex Community College, Anne Arundel Community College, Northern Virginia Community College, Villanova University and Delaware County Community College.

RESEARCH INTERESTS

- Educational uses of technology that enhanced STEM education.
- Science education and information systems.
- Cognitive science.

HONORS

Provost's Fellowship for Research in Education and Technology

1996-1998

First Earned Masters in Ancient History, University of Newcastle

1986

PUBLICATIONS

Hoban, S., J. Keating, J. Sachs, D. Laughlin and Y. Yesha. (2003) Science Investigation System for Telescopes in Education Research, paper presented at the Hawaii International Conference on System Science 36, Waikoloa, Hawaii. (*Note: The paper was nominated for Best in Conference.*)

Irvine, S.E., Hein, T.L., Laughlin, D. (2000). Different Degrees of Distance: The Impact of the Technology-based Instructional Environment on Student Learning. *Frontiers in Education*, 13(3) pages 6-11

Irvine, S.E., Laughlin, D, Barlow, J. and Ford, S. (1997) The Digital Portfolio as a Learning and Assessment Tool, *Journal of Technology and Teacher Education*, 15(1).

PRESENTATIONS

Hoban, S., D. Laughlin, M. Ptak. (2003). An Activity Template: Principles of Remote Exploration (PREP) for Mars. Presented at the NASA Explorer Schools Retreat, Wheeling, West Virginia.

Laughlin, D and S. Irvine. (2001). Free the Monkeys: Making the Edtech Course More than Just Pressing Buttons. Paper presented at the semi-annual conference of the Association for the Advancement of Computers in Education in Orlando, Florida.

Panelist on Educational Uses of Technology (2000). Advanced Digital Libraries 2000 Conference sponsored by NASA and NIH. Bethesda, Maryland.

Sarah E. Irvine, Teresa L. Hein, & Daniel Laughlin. (1999). Different Degrees of Distance: The Impact of the Technology-Based Instructional Environment on Student Learning. IEEE/ASEE Frontiers in Education Conference, San Juan, Puerto Rico.

Irvine, S. and D. Laughlin (1997). "Electronic Portfolios as Assessment Tools". Paper presented at the semi-annual conference of the Association for the Advancement of Computers in Education in Orlando, Florida.

RECENT GRANTS

Educating with Virtual Experiences (EVE) 2003, NSF, 2003, \$27,000.

PROFESSIONAL SERVICE

Participated extensively in proposal reviews for NASA's Small Business Innovation Research (SBIR) and the Small Business Technology Transfer (STTR) Programs. 2002

INSTITUTIONAL SERVICE

College of Arts and Sciences Committee on Educational Technology 1996-1999

PUBLIC SERVICE

Ran *Principles of Remote Exploration Project (PREP) for Mars* for students and teachers visiting Goddard Space Flight Center and at teacher training workshops. 2003