

Anna Lewis, Ph.D.
Coalition for Science Literacy - USF
4202 E. Fowler Avenue - CHE 205
Tampa, Florida 33620 - 813-974-7035

EDUCATION

- 2003-2008** Ph.D. in Curriculum & Instruction cognate in Diversity from Department of Secondary Science Education, School of Education, **University of South Florida**, Tampa, FL – Dissertation “A Comparative Study of Six Decades of General Science Textbooks: Evaluating the Evolution of Science Content”
- 2002-2003** M.S. in Instructional Technology. Department of Secondary Education, School of Education, **University of South Florida**, Tampa, FL
- 1984-1986** B.S. in Physics. **University of Iowa**, Iowa City, IA

CERTIFICATION

- State of FL ED Department: 2 yr Teaching Certificate General Science (7-12)
- Mediation, communication techniques, and negotiation certification. Prescott Center for Nonviolent Communication, Prescott, AZ

PROFESSIONAL EMPLOYMENT

- 2009-Present Coalition for Science Literacy - USF - Tampa, FL; Senior Researcher**
- Oversee collection and analysis of data. This includes:
 - Design of instrumentation
 - Distribution of surveys and other instruments to project participants
 - Supervise temporary employees who complete data entry
 - Manage project database
 - Conduct and interpret quantitative and qualitative analysis of data
 - Oversee activities related to grant-funded projects including:
 - Setting up and conducting meetings with project leaders
 - Coordinating project activities
 - Facilitating workshops for projects-related teacher professional development
 - Develop and write project proposals and funding requests for submission to funding agencies as a PI or Co-PI
 - Collaborate with both USF faculty and those from other agencies in design and implementation of research projects
- 2005-2008 University of South Florida - Tampa, FL; Graduate Assistant**
- Taught undergraduate and graduate level science methods, a senior seminar, and nonviolent communication seminars
 - Courses Taught
 - SCE4310 – (3 hrs) Science Methods for Elementary Teachers, 2 courses each semester Fall 05, Spring 06, Fall 06, Spring 07
 - SCE4939 – (2 hrs) Senior Seminar 1 course each semester Fall 05 and Spring 06

- SCE4320 – (3 hrs) Science Methods for Middle School Teachers 1 course Fall 08 semester
- SCE5937 – (3 hrs) Science Methods for Middle School Teachers 1 course Fall 08 semester (graduate level)
- Research assistant for both qualitative and quantitative studies
 - Gathered qualitative and quantitative data via surveys, interviews, and research
 - Analyzed qualitative data using Statistical Product and Service Solutions (SPSS) and Statistical Analysis Software (SAS)
 - Presented findings at local and national conferences
 - Wrote science content for PROPEL, a science literacy project funded through a state grant
 - Conducted external assessment reviews of the PROMISE project, also funded through a state grant

2003-2005 Venice High School, Venice FL - Physics & General Science Teacher.

- Teaching individuals and groups through innovative curriculum and instruction
- Providing a positive learning atmosphere together with a solid science foundation that welcomed exploration, developed innate student abilities and enhanced student confidence

2000-2002 Retrieval Dynamics Corporation, Sarasota, FL – Project Manager

- Managed a team of 5 developers creating wireless applications from design to production and distribution
- Coordinated between developers and management ensuring products were brought to market on time and within budget
- Used Visio and the complete Microsoft suite including Project 2000
- Implemented PM ISO 9000 standards in project development

1994 – 2005 Blue Palm, Sarasota FL – Owner

- Training individuals and groups:
 - Specializing in adaptive technology – creating solutions for individuals with disabilities
 - Instructing individuals and groups of all ages on a variety of computer platforms such as IBM PC, Apple, Macintosh, and most associated software
 - Creating curriculum and instructional materials
- Generating technical documentation & on-line help:
 - Producing camera-ready copy, training manuals, hardware and software documentation, brochures, courseware and other publications, using a variety of software packages
 - Courseware and training guides based on learning objectives and goals
- Designing and programming:
 - Creating web sites from concept to completion
 - Designing dynamic web pages, secure e-stores, catalogs, administration utilities, mailing lists, animated images, consistent navigation, client forms and automated database updates
 - Tools used to complete these projects: DreamWeaver, FLASH, Photoshop,

Image Ready, Cold Fusion, ACCESS and SQL databases, SourceSafe, InterDev, ASP, JAVA, JavaScript, WML, XML, DHML, Style Sheets, Perl and C CGI programming

- 1993 -1994 Lansing Learning Resource Center, Lansing, MI – Adaptive Technology Consultant**
- Technician specialist and trainer for disabled persons
 - Created an environment accessible to highly involved individuals and educated people using adaptive technology in hands-on use of IBM, Apple, and Mac software, hardware and augmentative devices
 - Created training documentation and Users Guides for adaptive devices
- 1991-1993 Hope Project, New Delhi, India – Program Manger**
- Supervised more than 50 women in various programs
 - Managed the home health care and self-generating income programs
 - Managed clothing and pharmaceutical distributions
 - Organized community activities and distributed information through presentations and workshops
 - Taught local women health skills and to speak English
- 1990-1991 Massachusetts Institute of Technology, Boston, MA – Computer Programmer**
- Wrote flight instructions in FORTRAN for high spectrum test instruments orbiting the sun on the Galileo satellite
- 1986-1990 Marshal Space Flight Center, Huntsville, AL – SPAN Routing Center Manager**
- Managed VAX and SUN UNIX Systems
 - Maintained local routers and DEC-net service to SPAN (Space Physics Analysis Network) that assisted scientists with real-time downloading and evaluating data from the South Pole and other sites around the world as network manager
 - Provided training to individuals and groups, software support to users, and published user guides and technical manuals for system hardware and software in the lab
 - Generated documentation and provided accountability for public relations
 - Responsible for writing RFSs (Request for Services) and resource grants
 - Maintained accurate records of system and lab activities
 - Conducted both written and oral presentations at international conferences

NATIONAL & INTERNATIONAL CONFERENCE PAPERS

Lewis, A. & Amiri, L. (2005). Nature of Science in the Context of Socioscientific Issues. Paper presented at the Annual Meeting of the Southeastern Association for Science Teacher Education, Athens, GA.

Lewis, A. (2006). Teaching the Teacher. Paper presented at the Annual Meeting of the Southeastern Association for Science Teacher Education, Athens, GA.

Lewis, A. (2007). Science Teachers' Role in Creating & Maintaining Inequity in the Classroom. Paper presented at the Annual Meeting of the Association for Science Teacher Education, Clearwater Beach, Florida.

Lewis, A. (2008). Enacting Science Education using Systems Thinking. Paper presented at the 81st Annual Meeting of the National Association for Research in Science Teaching April, Baltimore, MD.

PUBLICATIONS

Lewis, A., & Zeidler, D. (2009). A Comparative Study of Six Decades of General Science Textbooks: Evaluating the Evolution of Science Content. Paper **submitted** to *Journal of Research in Science Teaching*.

Lewis, A. (2009) Sixty Years of Science Content: The Impact on STEM Initiatives. Paper **submitted** to special STEMs issue of *Science Education*.

PROFESSIONAL ACTIVITIES AND SERVICES

- External Reviewer – Journal of Research & Education (2006, 2007)
- Program Reviewer - Annual Meeting of the National Association for Research in Science Teaching (2006, 2007)
- Assistant to Conference Chair - Annual Meeting of the Association of Science Teacher Education, Clearwater, FL (2007)
- Program Reviewer -Annual Meeting of the Association of Science Teacher Education (2006, 2007)
- SAFE Zone Ally
- Mentor for NVSF (National Virtual Science Fair)
- Volunteer Teacher at the University Community Center
- Program Director - Center for Religious Tolerance (www.c-r-t.org)
- Foundation Outreach Volunteer - The Alliance for Middle East Peace (ALLMEP)
- Technical Advisor and Coordinator - U.S. Board of Directors for the Hope Project Trust

HONORS AND AWARDS

- Eddie Griffin Outstanding Position Paper, October 2007 – “Enacting General Systems Thinking in Science Education” awarded at the Annual Conference of the Southeast Association for Science Teacher Education, Valdosta State University, GA.
- Bullock Family Scholarship Award, May 2006
- Presidential Fellowship for Doctorial Work, University Southern Florida, May 2005
- Eddie Griffin Outstanding Position Paper, October 2004 – “Dialogue and Empowerment in Science Education” Awarded at the Annual Conference of the Southeastern Association for the Education of Teachers in Science, Gainesville, FL.
- Marshall Space Flight Center Director's Commendation, 1990
- NASA Group Achievement Award, 1989

MEMBERSHIPS (Past and Present) IN PROFESSIONAL ORGANIZATIONS

- National Association for Research in Science Teaching (NARST)
- National Science Teachers Association (NSTA)
- Association for the Education of Teachers of Science (AETS)
- Southeastern Association for the Education of Teachers in Science (SAETS)