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A. ACADEMIC PREPARATION AND HONORS

EDUCATION

B.A., WILLIAMS COLLEGE, Williamstown, MA, 1981-1985. Major: physics, minor: religion minor.

Ph.D., UNIVERSITY OF IOWA, Science Education Center, Iowa City, IA, 1997.

Dissertation title: A study to define and verify a model of interactive-constructive elementary school science teaching.

Advisors: James A. Shymansky and Larry D. Yore

PROFESSIONAL MEETINGS & EDUCATIONAL WORKSHOPS ATTENDED

National Science Teachers Association annual meeting: 1989, 1990, 1992, 1993, 1994, 1995, 1996.

Southeastern Pennsylvania American Association of Physics Teachers regional meetings: 1989, 1990, 1991, 1992.

Northeast Regional American Association of Physics Teachers: 1990.

New Jersey Science Teachers Association annual meeting: 1990, 1991.

Iowa Science Teachers Association annual meeting: 1992, 1993, 1994.

Minnesota Science Teachers Association annual meeting: 1993, 1994.

California Science Teachers Association annual meeting: 1996, 1997.

Institute for Elementary Science Education Los Angeles, CA, 1997.

California Symposium on University Teaching, San Bernardino, 1998.

National Association for Research in Science Teaching annual meeting: 1993, 1994, 1995, 1996, 1997, 1998.

American Educational Research Association annual meeting: 1995.

Association for the Education of Teachers in Science annual meeting: 1995, 1996, 1997, 1998.

Educational Trust meeting: 1998.

"Microsoft for Teachers" special invitation for select teacher-to-teacher grant holders, Chicago, IL, 1998.

"Writing NSF Grant Proposals" a pre-conference workshop at National Association for Research in Science Teaching annual meeting, San Diego, CA, 1998.

"Earth Systems and Global Change" Geology 300I - audited course fall 1997.

Project ALERT - Jet Propulsion Laboratory, Pasadena, CA, April 2-3, 1998.

Women and Scientific Literacy Grant participant 1997-1999.

1998 Making Quality SDAIE a Reality, Single Subject Teacher Education Workshop, CSULB, August 14.

1998 American Geophysical Union (San Francisco, CA), December 10.

1998 Project ALERT fall meeting Ames Research Center, San Jose, CA, December 11.

1998-99 Faculty Development 101/102 - workshops for new CSULB faculty

1998 audited Geology 102 "Introductory Geology"

1998-99 Project ALERT regional meetings: October '98 at CSU-Long Beach, November '98 at CSU-Los Angeles, September '99 at CSU-Northridge, October '99 at CSU-Fullerton.

1999 Association for the Education of Teachers in Science (Austin, TX) January 14-17.

1999 Multicultural Science Education - pre-conference workshop at Association for the Education of Teachers in Science (Austin, TX), January 14.

1998-99 Knight Foundation Inservice: 10/30/98 Teaching for the 21st Century, 1/19-20/99 Integrating Standards into University Courses, 4/16/99.

1999 Collaborative Action Research - College of Education retreat, Jan 22.

1999 American Association of Colleges of Teacher Education (Washington, DC) February.

1999 National Association for Research in Science Teaching (Boston, MA) March 28-31.

1999 Project ALERT spring meeting Jet Propulsion Laboratories, Pasadena, CA, April 8-9.

1999 Supervision in the Single Subject Program - Single Subject Teacher Education workshop, CSULB, August 24.

1999 How to Deal with Discipline Problems in the Schools - full day workshop, CSULB, September 24.

1999 California Science Teachers Association (Long Beach, CA) October 7-11.

1999 Orange County Science Educators Association - Science & Technology in Society Meeting, November 20.

1999-2000 Project ALERT regional & full meetings: September 10 - CSU Northridge, October 22 - CSU Fullerton, December 3 - CSU Dominguez Hills, February 14 - Vandenberg Air Force Base.

2000 Association for the Education of Teachers in Science (Akron, OH) January 6-9.

2000 Assisting interns through networking and field support - pre-conference workshop at Association for the Education of Teachers in Science (Akron, OH), January 6.

2000 Preparing for NCATE review, College of Education Retreat, January 19.

2000 EDSS 300: Implementing the new standard course outline. Single Subject Faculty Development Workshop, CSULB, Jan 21.

2000 LBESTEP/Sigma Xi workshop - Inquiry based physics. CSULB, March 25.

2000 *Assessment: What? How? Why?* 2nd Annual Retreat, California State University, Long Beach, April 7.

2000 National Association for Research in Science Teaching (New Orleans, LA) April 28-May 1.

2000 California Commission on Teacher Credentialing conference (San Diego, CA) August 1-3.

2000 Program Review: Where we are, where we're heading. Single Subject Faculty Development Workshop, August 22.

2000 College of Education Retreat, August 23.

2000 School Science and Mathematics annual conference (Albuquerque, NM) October 20.

2000 Orange County Science Educators Association - Science & Technology in Society Meeting, November 18.

2000 Project Kaleidoscope National Assembly "Taking Responsibility for Leadership" (Tucson, AZ), December 1-2.

2000-2001 Project ALERT regional and full meetings: August 17 - Cal Poly Pomona, January 26 - CSU Long Beach.

2001 Association for the Education of Teachers in Science (Costa Mesa, CA) January 18-21.

2001 Accreditation Process - NCATE & CTC, College of Education Retreat, January 24.

2001 Single Subject Credential Program retreat, February 16.

2001 Greater Los Angeles Teachers of Science Association (Los Angeles, CA), February 17.

2001-present Member of Sand CASTL Group (Carnegie Academy for the Scholarship of Teaching and Learning) - group of faculty who meet to discuss ways to participate in and promote the scholarship of teaching/learning on campus.

2001 National Association for Research in Science Teaching (St. Louis, MO) March 26-28.

2001 American Association of Higher Education Summer Academy (Breckenridge, CO) July 18-22.

2001 A model for teaching inquiry (Bill Leonard presentation and workshop) LBESTEP, August 13.

2001 Single Subject Credential Program retreat, Addressing Concerns from the NCATE/CTC Review, September 14.

2001 *Re-envisioning Faculty Work*. Academic Senate Retreat, September 28.

2001 California Science Teachers Association annual meeting, Palm Springs, October 25-28.

2001 Physics Demonstration Day, CSULB, November 10.

2001 Orange County Science Educators Association, Science & Technology in Society Meeting, Chapman College, Nov. 17.

2002 Association for the Education of Teachers in Science annual meeting, Charlotte, NC. Jan 10-13.

2002 General Education Winter Institute, CSULB, January 23.

2002 National Science Teachers Association, San Diego, March.

2002 California Commission on Teacher Credentialing, Informational Meeting for SB2042, Sacramento & Culver City, May.

2002 California Science Teachers Association, San Francisco, October.

2002 Physics Demo Day, California State University, Long Beach, November.

2002 Orange County Science Educators Association, Science & Technology in Society Meeting, Chapman College, November.

2003 Association for the Education of Teachers in Science, St. Louis, January.

2003 National Association for Research in Science Teaching, Philadelphia, March.

2003 California Science Teachers Association, Long Beach, October

2003 International Conference on Science and Mathematics Education: Which Way Now? Kuala Lumpur, Malaysia. October

2003 Orange County Science Educators Association, Science & Technology in Society Meeting, Chapman College, November

2004 Hawaii International Conference on Education, January.

2004 Bioethics Workshop, CSULB. January 22.

2004 National Association for Research in Science Teaching, Victoria, BC. April.

2004 California Science Teachers Association, San Jose. October

2004 Orange County Science Educators Association, Science & Technology in Society Meeting, Chapman College, November

2004 Reforming Urban Science Teacher Preparation. Racine, WI, May 19-21.
Invitation only conference sponsored by the Knowles Science Teaching Foundation, University of Connecticut and the Johnson Foundation.

2005 Association for the Education of Teachers in Science annual meeting, Colorado Springs. January

2005 California Science Teachers Association, Palm Springs, October.
2005 CSU Southern California New Department Chair Workshop, CSULB, November 4.
2005 Orange County Science Educators Association, Science & Technology in Society Meeting, Chapman College. November.
2006 Association of Science Teacher Educators annual meeting, Portland, OR. January
2006 National Association for Research in Science Teaching, San Francisco, April
2006 CSU Science Education Symposium, Pomona, May.
2006 New Department Chair Orientation, CSULB May 19.
2006 Robert Noyce Scholarship Program PI Conference, Washington DC, June 19-20.
2006 *California Science Teachers Association, San Francisco. October*
2006 *Orange County Science Educators Association, Science & Technology in Society Meeting, Chapman College. November.*
2007 *Association of Science Teacher Educators annual meeting, Clearwater, FL. January*
2007 *National Association for Research in Science Teaching, New Orleans, April*

SPECIAL HONORS

Joseph Klingenstein Summer Fellow: Columbia University, New York, NY, 1988.

Awarded to a limited number of independent school teachers judged to be potential leaders in their fields, fellows explored educational research while refining leadership skills.

Woodrow Wilson National Fellowship Foundation: Selected to attend month-long physical science institute held at Princeton University, summer 1989.

Iowa Measurement Research Foundation Fellowship: University of Iowa, 1992-1995.

Competitive fellowship in education awarded annually to top education graduate students.

California Distinguished Science Teacher Award, Four-Year College Level, 1999.

Award presented by the California Science Teachers Association for outstanding college science teaching. Awards committee cited my involvement in professional and extra-curricular science education endeavors and my demonstrated ability in developing creative, student-centered activities.

Project Kaleidoscope Faculty for the 21st Century, 2000-present.

Selected to participate in national leadership training program for college faculty in science, mathematics, engineering and education.

California State University, Long Beach Distinguished Faculty Teaching Award, 2001.

University-wide teaching award of demonstrated expertise, organization, communication and rapport regarding all aspects of teaching. The award is given by the Faculty Personnel Policies Council after recommendation by the College committee.

Most Valuable Professor 2004 (Award given by the Alumni Association)

Selected by the College of Education's Outstanding Graduate (Nikki Chambers) as the *Most Valuable Professor*

B. TEACHING ACTIVITIES EXPERIENCE

RESEARCH ASSISTANTSUMMERS 1981, 1982

Memorial Sloan-Kettering Cancer Center, New York, NY.

Lab assistant in immunobiological human histocompatibility lab - P3 facility.

TEACHING ASSISTANT 1984-1985

Williams College, Williamstown, MA.

Supervised introductory physics labs, graded student work, conducted review sessions.

HIGH SCHOOL PHYSICS & MATH TEACHER 1985-1988

The Lawrenceville School, Lawrenceville, NJ.

Taught mathematics and all levels of physics; member admissions committee and athletic board; served as sole supervisor in senior boys dorm.

PHYSICS & PHYSICAL SCIENCE COORDINATOR 1988-1989

The Agnes Irwin School, Rosemont, PA.

Developed physics/physical science curriculum for all grade levels. Cited as *Outstanding Teacher* by Independent School Accreditation/Evaluation Team.

HIGH SCHOOL PHYSICS TEACHER 1989-1992

The Haverford School, Haverford, PA.

Taught all levels of physics, supervised senior science projects, coached Physics Olympics team, designed and implemented an interdisciplinary course "*Energy and Environmental Science*".

Executive board member of South Eastern Pennsylvania section of AAPT, member of planning committee for fall 1991 Northeast Regional AAPT meeting, member Middle States Association of Colleges and Schools evaluation team - chair of math, science, computer science evaluation.

RESEARCH ASSISTANT 1992-1993

University of Iowa, Iowa City, IA.

Assisted with compiling and editing "Scientific Literacy: An Annotated Bibliography" produced by The International Council of Associations for Science Education, July, 1993. Director: J.E. Penick

RESEARCH ASSISTANT 1992-1993

University of Iowa, Iowa City, IA.

Iowa Scope, Sequence and Coordination: Edited curriculum materials, piloted performance assessment items, and coordinated summer leadership conference. Director: R.E. Yager

RESEARCH ASSISTANT 1992-1993

University of Iowa, Iowa City, IA.

Iowa Assessment Project: Researched, wrote, and field tested alternative assessment instruments for ninth grade math and science. Director: J.A. Shymansky

TEACHING ASSISTANT 1993-1994.

University of Iowa, Iowa City, IA

Methods in the Teaching of Science I and II the first two of three methods course sequence, supervised accompanying practicums, graded student work.

INSTRUCTOR 1994.

University of Iowa, Iowa City, IA.

Methods in the Teaching of Science I, first of three methods course sequence, supervised accompanying practicum in an elementary school.

TEACHING ASSISTANT 1994.

University of Iowa, Iowa City, IA.

Environmental Geology coordinated lab and discussion sections to go along with the lecture.

RESEARCH ASSISTANT 1993-1995.

University of Iowa, Iowa City, IA.

Science: Parents, Activities and Literature (PALs) Project Research misconception literature, assist elementary teachers with science teaching and learning, develop formative evaluation scheme for project. Director: J.A. Shymansky

LECTURER 1995-1998.

California State University, Long Beach, CA.

- A Process Approach to Science
- Teaching Science in Culturally & Linguistically Diverse Classrooms
- Science Teaching for Science TA's
- Preliminary Field Experience in Science
- Secondary Student Teacher Seminar
- Student Teacher Supervision

ASSISTANT PROFESSOR 1998-2001

California State University, Long Beach, CA.

- A Process Approach to Science [SCED401]
- Preliminary Field Experience in Science [EDSS300C]
- Teaching K-8: Science (formerly titled "Teaching Science in Culturally and Linguistically Diverse Classrooms") [EDEL475]
- Science Teaching for Science TA's [SCED490]
- Science Single Subject Credential Advisor - advise students, develop and maintain credential information website (<http://www.csulb.edu/~lhenriqu/credinfo.htm>), moderate the credential list-serve, maintain science teaching information bulletin board, serve as science representative for CTC/NCATE review.
- Secondary Student Teacher Seminar.
- Single Subject Science Student Teacher
- Course related technology enhancement - (assigned time)

TUTORING/MENTORING

Since 1977 I have tutored over 2,000 hours of high school and college science and mathematics.

Science mentor for local Girl Scout Troop, 1996-2001.

Iowa City Community Schools Science Mentor for Extended Learning Program, 1993-1994.

Mentor for *Girls in Science*, Iowa City, IA, 1992-1993.

Volunteer for Iowa City Area Science Center, 1992-1995.

Volunteer tutor for Mount Greylock *A Better Chance (ABC) House*, 1983-1985.

ASSOCIATE PROFESSOR 2002-PRESENT

California State University, Long Beach, CA.

- A Process Approach to Science [SCED401] - inquiry based science course for prospective K-8 teachers. Students learn science while experiencing innovative elementary curricula.
- Preliminary Field Experience in Science [EDSS300C] - course and field experience for prospective middle and secondary science teachers that culminates with application to the single subject credential program.
- Teaching K-8: Science [EDEL475] - methods class for prospective elementary teachers.
- Science Teaching for Science TA's [SCED490] - course for new CNSM teaching assistants to learn effective teaching behaviors, test writing and grading strategies, lesson planning and laboratory management.
- Physical Science Applications for K-8 [SCED502] - physical science course for elementary science education MS candidates
- Directed Research [SCED697]
- Thesis Research [SCED698]
- Science Single Subject Credential Advisor - advise students, develop and maintain credential information website (<http://www.csulb.edu/~lhenriqu/credinfo.htm>), moderate the credential list-serve, maintain science teaching information bulletin board, serve as science representative for CTC/NCATE review.
- Secondary Student Teacher Seminar [EDSS473] - seminar for science secondary student teachers (exit portfolio constructed as part of course)
- Single Subject Science Student Teacher Supervisor - working with middle school and high school student teachers in Long Beach Unified School District and surrounding districts.

- Course related technology enhancement - (assigned time) develop course related web resources, technology enhanced activities, develop model lessons, and lead professional development with faculty on the use of technology in EDEL475 and SCED401.

STUDENT RESEARCH

Science Education Master's Degree Students

Thesis Committee Chair

Amy Edmundson - MS Science Education, Elementary Option.

Thesis Title *Teaching English Through Science* (08/06)

Rachel de los Santos - MS Science Education, Secondary Option - Chair

Thesis Title *Assessing English Learners in Biology: Alternative vs. traditional methods*

Shehzad Bhojani - MS Science Education, Elementary Option - Chair

Thesis Title *Effects of a professional development science camp program on preservice teachers*

Shelley Arnold - MS Science Education, Elementary Option - Chair

Melissa Shilling – MS Science Education, Elementary Option - Chair

Committee Member

Ron Rita - MS Science Education, Secondary Option (08/05)

Thesis Title *Perceptions of the learning environment and associations with cognitive achievement of gifted and non-gifted biology students*

David LaCharite - MS Science Education, Elementary Option (2007)

Tom Russell – MS Science Education, Secondary Option

Honors Thesis Advisor

Regina Hernandez, *Investigating Gender in the Science Classroom* (2002-2003)

Erica Young, *Investigating Misconceptions in Science* (2005-2006)

C. SCHOLARLY AND CREATIVE ACTIVITIES

PROFESSIONAL PUBLICATIONS & PRESENTATIONS

PUBLICATIONS - REFEREED OR INVITED

Assisted with compiling and editing "Scientific Literacy: An Annotated Bibliography" produced by The International Council of Associations for Science Education, July, 1993.

Tillotson, J.W. & Henriques, L. (1994). Teaching science at a distance: The teacher's perspective, in M. R. Simonson, C. Schlosser, and M. Anderson (eds.) *Encyclopedia of Distance Education Research in Iowa*. Ames: Teacher Education Alliance of the Iowa Distance Education Alliance, 167-175.

Yore, L.D., Williams, R.D., Shymansky, J.A., Chidsey, J.L., Henriques, L., & Craig, M.T. (1995) Refocussing science assessment: Informing learners, teachers and other stakeholders. *Catalyst* 38 (4), 3-8.

Shymansky, J.A., Henriques, L., Yore, L.D., Chidsey, J.L., Dunkhase, J., & Jorgensen, M. (1997). A Professional Development System as a catalyst for changing science teacher. *Journal of Science Teacher Education* 8 (1), 29-41.

Shymansky, J.A., Chidsey, J.L., Henriques, L., Enger, S., Yore, L.D., Jorgensen, M. & Wolfe, E. (1997). Performance assessment in science as a tool to enhance the picture of student learning. *School Science and Mathematics* 97(4), 172-183

Monhardt, R.M. & Henriques, L., (1997). Interdisciplinary learning: Adding an egg to the mix. *Science Activities* 34 (1), 22-28.

Henriques, L., Shymansky, J.A. & Jorgensen, M. (1997). 'Unit and section level assessments' in *Science Links*, M. Druger. Agency for Instructional Technology, South-Western Educational Publishing, Belmont, CA.

<i>Module titles:</i>	What Goes Up...
What's For Lunch?	Current Thoughts
Making Waves	Motion Commotion

Henriques, L., Olson, J., Colburn, A., & Ritz, W.C. (1998). *A Guide to Classroom Assessment Elementary Science Teachers Leadership Project*, Lawrence Hall of Science: Berkeley, CA.

Buckledown Publishing, (1998 - present). Author of standards based physical science assessments and content reviews for grades 3-11. Text, activities and assessments written for Tennessee, Virginia, Massachusetts, Texas, New York, Ohio, Michigan.

Colburn, A. & Henriques, L. (2000). "Reaching the reluctant science teacher" *Science and Children*, 37 (8): 46-49. Reprinted in An NSTA Press Journals Collection, (2002). *Teaching Teachers: Bringing first-rate science to the elementary classroom*. NSTA Press: Arlington, VA, 4-7.

Henriques, L. (2000). Earth systems in a bottle. *The Science Teacher*, 67 (6): 48-51.

Henriques, L. (2002). Preparing tomorrow's science teachers to use technology: An example from the field. *Contemporary Issues in Technology and Teacher Education* [Online serial], 2(1). Available: <http://www.citejournal.org/vol2/iss1/science/article1.cfm> Reprinted in Weigand, C.L. (Ed.), (2003). *From email to earthquakes: on teaching and learning with technology in the California State University*. California State University Press: Long Beach, 123-136.

Henriques, L. (2002). Children's ideas about weather: A review of the literature. *School Science and Mathematics*, 102 (5): 202-215. Reprinted in *California Journal of Science Education* (2005), Volume V, (2) 85-122.

Colburn, A. & Henriques, L. (2006). Clergy Views on Evolution, Creationism, Science, and Religion. *Journal of Research in Science Teaching* 43 (4) 419-442.

PUBLICATIONS - NON-REFEREED

Assisted with compiling and editing "Scientific Literacy: An Annotated Bibliography" produced by The International Council of Associations for Science Education, July, 1993. Available on-line at <http://icase.unl.edu/pages/lit_resource/abstracts.html>

Henriques, L. & Chidsey, J.L. (1993). Alternative assessment meets the student: Teacher teams joins the project. *The Iowa Assessment Project Newsletter*, 1 (2), 2, 4.

Henriques, L. & Chidsey, J.L. (1996). Turning activities into assessments. *SS&C Iowa News*, 6 (3), 1, 4-6.

Chidsey, J.L. & Henriques, L. (1996). Ideas for integrating science and the visual arts. *SS&C Iowa News* 6 (4), 10-13, 21, 23.

Henriques, L. & Chidsey, J.L. (1996). Can we talk? The role of discussion in science learning. *SS&C Iowa News* 6 (5), 4-5, 20-21.

Colburn, A. & Henriques, L. (1998). Helping science TAs teach at CSULB. *Exchanges* 8 (3), 5.

Henriques, L. (1999). Contributor to *The New York Times in college and university science disciplines*. New York Times: New York.

Project ALERT @ California State University, Long Beach website - <http://www.csulb.edu/~lhenriqu/projectalert>

California State University, Long Beach Science Single Subject Credential Information website - <http://www.csulb.edu/~lhenriqu/credinfo.htm>

[Introduction to Secondary Science Teaching: A Guidebook to the Science Single Subject Credential at California State University, Long Beach](http://www.csulb.edu/~lhenriqu/prog-guide01.htm) <http://www.csulb.edu/~lhenriqu/prog-guide01.htm>

INVITED: Henriques, L., Colburn, A., Olson, J., Ritz, W.C., Siegel, M.A., & Cheng, B. (2003). Learning about assessment: Elementary Science Teacher Leadership (ESTL) 3. Berkeley, CA: SEPUP, Lawrence Hall of Science, University of California, Berkeley. [Originally issued as Henriques, L., Olson, J., Colburn, A., & Ritz, W.C. (1998). ESTL Assessment Guide. Berkeley, CA: Lawrence Hall of Science. Available on-line at <http://sepuplhs.org/profdev/educators/estlguides.html>.]

Henriques, L., Colburn, A. & McMahon, M.M. Eds. (2005). Guest Editors' Introduction. *Issues in Teacher Education* 14 (1), 3-4.

INVITED: Henriques, L., Colburn, A. & Ritz, W.C. (2006). Developing Assessment Items: A How-to Guide in M. McMahon, P. Simmons, R. Sommers, D. DeBaets & F. Crawley (Eds.) *Assessment in Science: Practical Experiences and Education Research*. Alexandria, VA: National Science Teachers Association.

Yore, L.D., Henriques, L., Crawford, B., Smith, L., Gomez-Zwiep, S. & Tillotson, J. (expected 2007) *Selecting and using inquiry approaches to teach science in elementary, middle and secondary schools*. In E. Abrams & S. Southerland (Eds.) *Integrating inquiry into the classroom: Challenges and possibilities*. Age of Information.

FEATURE COLUMN *California Science Teachers Association – California Classroom Science*

Henriques, L. (2004). Promoting parental participation. *California Classroom Science*, 16 (1) 11, 20.

Henriques, L. & Pritchard, S. (2004) Helping students float through a unit on density. *California Classroom Science*, 16 (2) 11, 19.

Henriques, L. (2005) Science Fair: Coming to a school near you. *California Classroom Science* 16 (3) 10.

Henriques, L. (2005). Theoretically speaking. *California Classroom Science* 16 (4) 9, 20.

Article invited to be reprinted on-line at a nature of science website <http://www.indiana.edu/~ensiweb/natscilh.html>

Henriques, L. (2005). Improving the impact of your science demonstrations. *California Classroom Science*, 16 (5) 10, 18.

- Henriques, L. (2005). Reducing Resistance for Student Understanding of Electricity. *California Classroom Science* 17 (1) 6, 21.
- Henriques, L. (2005). Are you a preservice teacher or new teacher? If so, READ THIS! *California Classroom Science* 17 (2) 9, 18.
- Henriques, L. (2006). Electricity Activities for Pennies! *California Classroom Science* 17 (3) 5.
- Henriques, L. (2006). What do we do with chemists after they die? We barium! *California Classroom Science* 17 (4) 17
- Henriques, L. (2006). Questions and More Questions. *California Classroom Science* 17 (5) 7,14.
- Henriques, L. (2006). Welcome Back to School! *California Classroom Science* 18 (1).
- Henriques, L. (2006). CSU Science Education Summit. *California Classroom Science* 18 (1).

TEXTBOOKS & INSTRUCTIONAL MATERIALS

Henriques, L., Shymansky, J.A. & Jorgensen, M. (1997). 'Unit and section level assessments' in *Science Links*, M. Druger. Agency for Instructional Technology, South-Western Educational Publishing, Belmont, CA.

<i>Module titles:</i>	What Goes Up...
What's For Lunch?	Current Thoughts
Making Waves	Motion Commotion

Henriques, L., & rest of author team (1998- 2002). "Buckledown Publishing Science Resource Guides" Author of physical science standards based assessments and content reviews for grades 3-11. 21 volumes of instructional materials developed - text, activities and assessments written for Tennessee, Virginia, Massachusetts, Texas, New York, Ohio, Michigan, Wisconsin, Florida, and California.

REPORTS

Henriques, L. and Kiesel, J. (2004-05). *Single Subject Matter Standards of Quality and Effectives for Programs in Science* – document submitted to CTC for subject matter waiver programs in biological sciences, chemistry, geological sciences, and physics. The proposal developed a new subject matter waiver program so that we would be in compliance with the Assembly Bill 537.

Henriques, L., Martin, C., Colburn, A., and Kass, S. (2004). *Science Single Subject Credential Self-study and Program Review*, California State University, Long Beach.

Henriques, L. (2004). *Association of Future Science Educators and Young Scientists Camp* self-study report. Contributed to the *Teaching Science K-8 (EDEL475)* self-study report.

WORKS IN PROGRESS

INVITED: Henriques, L. & author team (in progress). Weather, Climate and the effects of the Ocean. Pedagogical implications – NSTA Science Packs.

EDITORIAL WORK

Invited by Teachers College Press to review Weiner, L. (1993)*Preparing teachers for urban schools: Lessons from thirty years of school reform* for possible revised edition. (February, 2000)

Journal of Research in Science Teaching (2001-present) Reviewer (on average 3-4 per year)

School Science and Mathematics (2001 - present) Reviewer (on average 5 per year)

California Science Teachers Journal (2004-present) publications committee (chair 2005-2007)

Issues in Teacher Education (2001- present) Reviewer (on average 1-2 per year)

Guest Editor: Henriques, L., Colburn, A. & McMahon, M.M. Eds. (2005). *Issues in Teacher Education* 14 (1).

International Journal of Mathematics and Science Education (2003- present) Reviewer (on average 2-4 per year)

Associate Editor (2006- present)

PROFESSIONAL PRESENTATIONS

Henriques, L. & Tillotson, J., (1994). *Teaching science via the Iowa Communications Network: The teacher's perspective*. Iowa Science Teachers Fall Conference, Des Moines, IA, October.

- Chidsey, J.L. & Henriques, L., (1995). *Development of a survey instrument to determine levels of postmodern awareness in a group of professional science educators*. Paper presented at the Postmodernism and Science Education: Issues and Implications Conference, Iowa City, Iowa, April 17.
- Shymansky, J.A., Henriques, L., Chidsey, J.L., Enger, S., Yore, L.D., & Wolfe, E.W., (1995) *Performance assessment in science as a tool to enhance the picture of student learning*. Paper presented at the American Educational Research Association, annual meeting, San Francisco, April 21.
- Shymansky, J.A., Jorgensen, M., Chidsey, J.L., Henriques, L., Yore, L.D., & Dunkhase, J., (1995). *A strategy for assessing changes in teachers participating in an enhancement project*. Paper presented at the National Association for Research in Science Teaching, annual meeting, San Francisco, April 22.
- Shymansky, J.A., Dunkhase, J.D., Olson, E., Henriques, L., & Chidsey, J.L., (1996) *Inservice impact on teachers' content knowledge, content pedagogical knowledge and perspectives on science teaching: The Science Parents-Activities-Literature project (Science PALs)*. Paper presented at National Association for Research in Science Teaching annual meeting, St. Louis, April 1.
- Henriques, L. & Chidsey, J.L. (1996). *Can parents effectively assess their children's misconceptions?* Paper presented at National Association for Research in Science Teaching annual meeting, St. Louis, April 2. Paper externally nominated for 1996 "NARST Outstanding Paper Award." (ERIC Document Reproduction Service No. 396 913)
- Yore, L.D., Shymansky, J.A., Henriques, L., Chidsey, J.L. & Lewis, J.(1997). *Reading and writing to learn science activities for the elementary classroom*. In P. Rubba, P. Keig & J. Rye (Ed.), Proceedings of the 1997 Annual International Conference of the Association for the Education of Teachers in Science (pp. 40-72). Pensacola, FL: Association for the Education of Teachers in Science. (ERIC Document Reproduction Service No. ED 405 220)
- Henriques, L. & Chidsey, J.L., (1997). *Analyzing and using children's literature to connect school science with parents and home*. In P. Rubba, P. Keig & J. Rye (Ed.), Proceedings of the 1997 Annual International Conference of the Association for the Education of Teachers in Science (pp. 357-367). Pensacola, FL: Association for the Education of Teachers in Science. (ERIC Document Reproduction Service No. ED 405 220)
- Henriques, L., (1997). *Factors influencing teachers' likelihood of innovation implementation: A path analysis*. Poster presented at the National Association for Research in Science Teaching annual meeting, Oak Park, IL, March 21.
- Henriques, L. (1998). *Maximizing the impact of your inservice: Designing the inservice and selecting participants*. In P. Rubba, & J. Rye (Ed.), Proceedings of the 1998 Annual International Conference of the Association for the Education of Teachers in Science (pp. 170 - 194). Pensacola, FL: Association for the Education of Teachers in Science. (ERIC Document Reproduction Service No. ED 421 363) Also found as ERIC Document Reproduction Service No. ED 415 111.
- Yore, L.D., Shymansky, J.A., Henriques, L., Hand, B.M., Dunkhase, J.A., Lewis, J.O. (1998). *Students' perceptions of science teaching and attitudes toward science learning and teachers' self-report of using children's ideas, applications of science, and use of print resources as indicators of interactive-constructivist teaching in elementary schools*. In P. Rubba, & J. Rye (Ed.), Proceedings of the 1998 Annual International Conference of the Association for the Education of Teachers in Science (pp. 231 - 255). Pensacola, FL: Association for the Education of Teachers in Science. (ERIC Document Reproduction Service No. ED 421 363)
- Colburn, A. & Henriques, L., (1998). *Helping preservice elementary teachers learn science content & pedagogy simultaneously*. Paper presented at the Symposium on University Teaching, San Bernardino, CA, February 21.
- Shymansky, J.A., Yore, L.D., Henriques, L., Yore, L.D., Dunkhase, J.A. & Bancroft, J.J., (1998). *Students' perceptions and supervisor's ratings as assessments of interactive-constructive science teaching in elementary school*. Paper presented at the National Association for Research in Science Teaching annual meeting, San Diego, CA, April. (ERIC Document Reproduction Service No. ED 418 876).
- Henriques, L., (1998). *Determining features of inservice and participants that impact implementation of an innovation*. Paper presented at the National Association for Research in Science Teaching annual meeting, San Diego, CA, April.

- Henriques, L. & Colburn, A. (1998). *Workshop on faculty grant program assessing student learning*. [in-house presentation to faculty] CSULB, October 5.
- Henriques, L. (1998). *Project ALERT (Augmented Learning Environment for Renewable Teaching): Improving earth science instruction in the California State University system*. Poster presented at the annual meeting of the American Geological Union, San Francisco, CA, December 10.
- Henriques, L. Olson, J., & Colburn, A. (1999). *Beyond outcomes: Standardizing performance assessments in a college science course*. Paper presented at The Association for the Education of Teachers in Science annual meeting, Austin, TX, January 14-17.
- Henriques, L. & Ambos, E. (1999). *Project ALERT (Augmented Learning Environment for Renewable Teaching): Improving earth science instruction in the California State University system*. Paper presented at The Association for the Education of Teachers in Science annual meeting, Austin, TX, January 14-17.
- Henriques, L. & Olson, J. (1999). *Integrating Technology & Instruction For Preservice Elementary Teachers*. Paper presented at the American Association of Colleges of Teacher Education annual meeting, Washington DC, February 26.
- Henriques, L. (1999). *Project ALERT: Enhancing preservice science education*. Goddard Space and Flight Center, May 24 [invited presentation]
- Henriques, L. (1999). *Weather and climate: Standards, misconceptions and related curricula*. Jet Propulsion Lab, July 7 [in house presentation for Project ALERT]
- Henriques, L. & others, (1999). *Working with K-12*. Statewide Academic Senate Retreat, Asilomar, CA, November 4. [invited presentation]
- Henriques, L. & Hawkins, B.A. (2000). *Intracampus and intercampus collaboration: Lessons learned*. Paper presented at The Association for the Education of Teachers in Science annual meeting, Akron, OH, January.
- Colburn, A. & Henriques, L. (2000). *The Long Term Impact of an Inquiry Based Science Class on Preservice Teachers*. Paper presented at The Association for the Education of Teachers in Science annual meeting, Akron, OH, January.
- Henriques, L. (2000). *Children's misconceptions about weather: A review of the literature*. Paper presented at National Association of Researchers in Science Teaching annual meeting, New Orleans, LA, April 28-May 1.
- Henriques, L. & Colburn, A. (2000). *Reforming an innovative college science course via assessment and standards*. School Science and Mathematics Conference. Albuquerque, NM, October 20.
- Cox-Peterson, A. & Henriques, L. (2001). *Urban Science Teacher Panel*. Paper presented at The Association for the Education of Teachers in Science annual meeting, Costa Mesa, CA, January.
- Henriques, L. (2001). *Preparing Science Teachers for Urban Schools: Readings and Assignments*. Poster session at The Association for the Education of Teachers in Science annual meeting, Costa Mesa, CA, January.
- Henriques, L. & others (2001). *Creating an Integrated Elementary Teacher Education Program: The Response of 9 CSU Campuses*. Paper presented at The Association for the Education of Teachers in Science annual meeting, Costa Mesa, CA, January. In P. Rubba, J. Rye, W J. Di Biase, B. A. Crawford (Eds.), Proceedings of the 2001 Annual International Conference of the Association for the Education of Teachers in Science (pp. 1552-1587). Pensacola, FL: Association for the Education of Teachers in Science. (ERIC Document Reproduction Service No. ED 453 083).
- Henriques, L. & Colburn, A. (2002). *Professional Development Opportunities for Preservice Science Teachers*. Paper presented for California Science Education panel presentation at The Association for the Education of Teachers in Science annual meeting, Charlotte, NC, January.

- Henriques, L. & Ritz, W.C. (2002). *Summer Science Camp as a Vehicle for the Professional Development of Preservice & Inservice Teachers*. Paper presented at The Association for the Education of Teachers in Science annual meeting, Charlotte, NC, January.
- Colburn, A., Henriques, L., & Clough, M. (2002). *Science, Creationism & Religion: Responses from the Clergy*. Paper presented at The Association for the Education of Teachers in Science annual meeting, Charlotte, NC, January. (ERIC Document Reproduction Services No. ED 465 620).
- Henriques, L. & Colburn, A. (2002). *Professional Development Opportunities for Preservice Science Teachers*. Paper presented California Science Education panel presentation at The Association for the Education of Teachers in Science annual meeting, Charlotte, NC, January.
- Henriques, L. & others, (2002). *CCTC and standards issues, single subject and science content issues, and multiple subject issues*. Panel presentation at Inaugural Symposium for the CSU/NASA Education Collaborative. California State University, Long Beach, June 23-26.
- Henriques, L., Ritz, W.C. & Hazen, C. (2002). *Summer science and math camps as a vehicle for the professional development of pre-service and in-service teachers*. California K-16 Partnership Conference, California State University, Long Beach. June 25.
- Colburn, A. & Henriques, L. (2003). *Evolution and Creationism: Voices of Campus Clergy*. Paper presented at The Association for the Education of Teachers in Science annual meeting, St. Louis, January 29 – February 2.
- McMahon, M. & Henriques, L. (2003). The Long Beach Area Science Educators Network. Paper presented California Science Education panel presentation (California Partnerships for Enhancing Science Teaching and Learning) at The Association for the Education of Teachers in Science annual meeting, St. Louis, January 29 – February 2.
- Henriques, L. (2003). *Creating a Culture of Professional Involvement in Preservice Teachers*. International Conference on Science and Mathematics Education: Which Way Now? Kuala Lumpur, Malaysia. October 14-16.
- Henriques, L. & Ritz, W.C. (2004). *Science Camp as a Vehicle for the Professional Development of Teachers*. Hawaii International Conference on Education, January 3-6.
- Colburn, A. & Henriques, L. (2004). *A Comparison of Teacher and Clergy Views on Evolution, Creationism, Science, and Religion*. Paper presented at National Association of Researchers in Science Teaching Conference, Vancouver, Canada, April 1-4, 2004.
- Henriques, L. (2004). *Creating a Club for Future K-12 Science Teachers*. California Science Education Conference, San Jose, CA, October 14-17.
- Henriques, L. (2004). *Assessment: It's what's for dinner!* **Invited Focus Speaker**. California Science Education Conference, San Jose, CA, October 14-17.
- Brunkhorst, B., Henriques, L. & others (2005). Connecting Science Teacher Candidates With Professional Organizations, Palm Springs, CA, October 28.
- Henriques, L. McMahon, M., Colburn, A., Martin-Dunlop, C., & Kisiel, J.F. (2005). *Using real Data to teach a college science course*. Association of Science Teacher Educators (formerly AETS), Colorado Springs, CO, January 20-23.
- Henriques, L. & others (2006). *Integrating Inquiry into the Classroom: Challenges and possibilities symposium and book*. National Association of Research in Science Teaching annual conference, San Francisco, CA, April.
- Ambos, E., Arriaza, C., Henriques, L., Segalla, A. & Turley, H. S. (2006). *Noyce Scholars at CSULB*. Poster presented at Robert Noyce Scholarship Program PI Conference, Washington DC, Jun 19-20.

PRESENTATIONS FOR PRACTITIONERS (SERVICE TO THE PROFESSION)

Henriques, L. & Maier, L., (1990). *Paper Airplanes and Other Flying Things*. New Jersey Science Teachers Winter Meeting, West Windsor, NJ.

Henriques, L. (1990). *Electricity and Student Misconceptions*. Southeast Pennsylvania Association of Physics Teachers, Bryn Mawr, PA, (half-day workshop).

Henriques, L. & Maier, L., (1991). *Building and Using Temperature Probes*. New Jersey Science Teachers Winter Meeting, West Windsor, New Jersey.

Henriques, L. & Cameron, A., (1991). *Optics Workshop: Pinholes and Pinhole Cameras*. Southeast Pennsylvania Association of Physics Teachers, Bryn Mawr, PA, (half-day workshop).

Henriques, L. & Maier, L., *Fidget Wizardry I, II, III & IV*, various middle school activities
National Science Teachers Association national meeting, Anaheim, CA, 1994;
National Science Teachers Association national meeting, Kansas City, MO, 1993;
National Science Teachers Association national meeting, Boston, MA, 1992;
National Science Teachers Association national meeting, Atlanta, GA, 1990.

Shymansky, J.A., Henriques, L., Chidsey, J.L., Enger, S. & Olson, E., (1993). *Innovative Ideas for Classroom Assessment*. Iowa Science Teachers Fall Conference, Des Moines, IA.

Henriques, L. (alone & with others) *Polymers and the Environment*.
National Science Teachers Association national meeting, Anaheim, CA, 1994;
Iowa Science Teachers Fall Conference, Des Moines, IA, 1993;
Minnesota Science Teachers Association Spring Meeting, Rochester, MN, 1993.

Yore, L.D., Shymansky, J.A., Chidsey, J.L., Henriques, L. & Craig, M.T., (1994). *Promoting alternative assessment strategies among elementary pre-service teachers and middle school teachers*. National Science Teachers Association national meeting, Anaheim, CA.

Henriques, L. & Monhardt, R.M. *Eggs-iting Eggs-periments: Activities by the Dozen*.
Iowa Association for Elementary Education, annual meeting, Cedar Rapids, 1995;
National Science Teachers Association national meeting, Anaheim, CA, 1994;
Iowa Science Teachers Fall Conference, Des Moines, IA, 1993.

Henriques, L., Chidsey, J.L., Monhardt, L., Shaw, M. & Quegg, D. (1995). *Ideas for science concepts*. Iowa Association for Elementary Education, annual meeting, Cedar Rapids.

Shymansky, J.A., Dunkhase, J., Jones, J. Dunkhase, D. Chidsey, J.L., Henriques, L., Monhardt, L., Olson, E. A. & Veronesi, C., (1996). *Using narratives in hands-on science activities*. Paper presented at National Science Teachers Association annual meeting, St. Louis, March 30.

Henriques, L., Chidsey, J.L. & Jorgensen, M., (1996). *Portfolios: An empowering strategy for teacher professional growth*. Paper presented at National Science Teachers Association annual meeting, St. Louis, March 29.

Colburn, A. & Henriques, L., (1996). *Test as you teach: Labs into assessments*. Workshop presented at California Science Teachers Association annual conference, Sacramento, CA, October 5.

Henriques, L., (1997). *Using children's literature to teach elementary science*. Paper and workshop presented at California Science Teachers Association annual conference, Palm Springs, CA, October 3.

Henriques, L., (1997). *Science education standards and reform efforts – what they mean to you*. The LA County Museum of Natural History, Los Angeles, CA, November 3 [invited lecture].

- Henriques, L. (1999). *May the Force Be With You!* Hands-on workshop for middle school science teachers. California Science Teachers Association annual meeting, Long Beach, CA, October 8.
Orange County Science Educators Association Science & Technology in Society Conference, Orange, CA, November 20.
- Henriques, L. (2000). *Children's stories: A springboard into science investigations*. Orange County Science Educators Association Science & Technology in Society Conference, Orange, CA, November 18.
- Henriques, L. & Ritz, W.C. (2001). *Summer Science at the Beach: Professional Development + Camp*. Paper accepted for presentation at California Science Teachers Association, Palm Springs, October 25-28.
- Henriques, L. (2001). *Dynamic Mechanics Demos*. Physics Demonstration Day at California State University, Long Beach, November 10.
- Henriques, L. (2001). *Performance Assessments in the Science Classroom*. Orange County Science Educators Association Science & Technology in Society Conference, Orange, CA, November 17.
- Henriques, L. (2002). *Assessing student learning outcomes*. Session presented at California State University, Long Beach General Education Winter Institute, January 23.
- Colburn, A. & Henriques, L. (2002). *Scientific Literacy*. California State University, Long Beach General Education Summer Institute, August 20.
- Henriques, L. (2002, 2003). *Science and Literacy, K-6*. Workshop presented at:
Orange County Science Educators Association Science & Technology in Society Conference, Orange, CA, November 16, 2002.
Association of Future Science Educators, May 12, 2003.
- Henriques, L. (2002). *Force and Motion*. Physics Demonstration Day, California State University, Long Beach. November 16.
- Henriques, L. (2002). *Physical Science for the Holidays*. Los Angeles County Office of Education Science Leadership Council, California Science Center, Los Angeles, December 19.
- Henriques, L. (2003). *Get a Charge from Teaching Electricity*.
California Science Education Conference, Long Beach, CA. October 9.
Orange County Science Educators Association Science & Technology in Society Conference, Orange, CA, November 15.
- Henriques, L. (2003). *Making Webpages: How to create and publish your very own website..* Orange County Science Educators Association Science & Technology in Society Conference, Orange, CA, November 15.
- Henriques, L. (2004, 2005). Women in Science - Guest presenter and workshop leader. Pacific Elementary School, Manhattan Beach, CA.
- Henriques, L. (2005). *Bringing Newton's Laws to life!* California Science Education Conference, Palm Springs, CA, October 29.
- Colburn, A. & Henriques, L. (2006). *Helping Students Become Critical Consumers of Science Information*. California Science Education Conference, San Francisco, CA. October 20.
- Pritchard, S. & Henriques, L. (2006). *Welcome Session for Conference First-Timers*. California Science Education Conference, San Francisco, CA. October 19.

GRANTS

Public Service Gas and Electric Fellowship Awardee: Grant awarded to fund graduate physics course work at Trenton State College, 1987-1988.

A Study of How Teaching Via the Iowa Communications Network Impacts the Pedagogical Practices and Technological Concerns of Science Teachers: Co-principal investigator on grant funded by the Iowa Distance Education Alliance - Teacher Education Alliance for 1993-1994.

Teaching Projects Program: Alternative Assessment for the University Classroom: Co-principal investigator on grant funded by Center for Faculty Development, California State University, Long Beach, 1996.

Project EXCITED: EXemplary Computer Integration into Teacher Education 1997-1999. Successfully wrote a \$60,000/year multi-departmental grant from Microsoft for software and site licenses. As Principal Investigator, I oversaw the integration of Microsoft products into science education classes and general teacher education courses. [I chose not to renew the grant since CSULB bought a site license contract with Microsoft]

Assessing Student Learning Outcomes spring 1998. Co-principal investigator and author of grant submitted to CSULB Campus Assessment Committee to create course [SCED 401] assessment package that is aligned with course standards and objectives. (**funded** - \$7,200)

Project ALERT (Augmented Learning Environment and Renewable Teaching) 1998-present. Co-investigator on a collaborative grant involving NASA Labs (Jet Propulsion Laboratory and Ames Research Center) and California State Universities to determine best teaching practices utilizing government geoscience data. Serve as education consultant for web page development.

Improving the Scope, Sequence & Coordination of the Single Subject Science Credential Program 1999-2000. A collaborative effort to improve the science credential program. Co-investigators Drs. Henriques, Colburn, Kenealy, Turley. Educational Innovation Award (**funded** - \$6,200).

Long Beach PASSport Project (Program for After School Science). Project Director and co-investigator for an after school science program which links elementary science methods students, after school instruction and the Mobile Science Museum. NSF preproposal *submitted* August 14, 2001, full proposal due November 15, 2001. Amount requested \$424,863.

TEAMS: Teacher Education Alliance for Math and Science. Collaborative NSF Grant with Cerritos College, California State University, Long Beach. Principal investigator, campus project leader for enhancement of Single Subject Science and Math Credential to be *submitted* October 25, 2001. \$997,088, California State University, Long Beach subcontract for \$309,000.

Metropolitan Water District of Southern California, Long Beach, CA, January 2002.

Proposal for money to support Summer Science at the Beach camp program. Money requested for camper scholarships, admission fees for field trips, and curriculum materials for water quality curriculum. **funded** - \$3,000.

Critical Thinking in Science for the Non-Major: A New GE Capstone Course. Co-investigator of internal grant to develop a General Education capstone science class. This is a multi-college grant with faculty participating from College of Education and College of Natural Sciences & Mathematics. \$5,000 grant **funded** by the Enhancing Educational Effectiveness Awards program (summer 2002).

CSULB Science Concentrator's Club Internal grant from 2002-2003 Forty-Niner Shops Allocation to fund campus activities. The money was used to support a new future science teachers club on campus. (**funded** -\$3,135) May 2002.

Long Beach Metropolitan Water District. Proposal for scholarship money and water-based curriculum to enhance Young Scientists' Camp. (**funded** - \$3,000) September 2002.

Young Scientists' Camp. Proposal to bring area middle school children to CSULB-run summer science camp. Long Beach Unified School District GEAR-UP (Gaining Early Awareness and Readiness for Understanding Program) grant **funded for** \$293,206. July 2003 - August 2007.

BEAMS: Beach Educators Advancing Mathematics and Science. Provided science education support for National Science Foundation GK-12 proposal (Ambos, Myers and Noguera as PIs). \$1,818,858 requested (**submitted 06/03**).

Robert Noyce Scholarship Program. Co-PI on NSF (DUE 0335772) grant to fund scholarships for mathematics and science credential candidates. (**funded** - \$460,000) 2003-2007.

Mission: SUCCESS! (School-University California Collaborative for Education in Science Success) National Science Foundation MSP proposal for CSU/NASA science education partnership linking CSU campuses, the CO and JPL. \$13,174,639 (CSULB subcontract \$3,145,741) **Submitted 12/2003**.

Long Beach Metropolitan Water District. Proposal to support Association of Future Science Educators club activities (sponsor field trip and monthly events). (**funded** - \$2,000) September 2004.

Long Beach Metropolitan Water District. *Community Partnership Program* grant to support scholarships and water based curriculum for the summer science camp (**funded** - \$2,500) September 2004.

Texas Instruments PT3 Workshop. Proposal **funded** to run calculator based laboratory workshops for preservice elementary and secondary science teachers. Workshops held March 5 and 6, 2005.

Teaching Secondary School Scholar Partnership Program (TS3P) Co-PI on National Science Foundation grant with Cerritos College to support the training and retention of math and science teachers. **funded** - \$282,360 (\$75,000 subcontract to CSULB) 10/1/2005 - 10/30/2008 DUE-0501326

BEST: Beach Educators in Science and Technology Provided science education support for National Science Foundation GK-12 proposal (Archie as PI). \$1,993,431 requested (**submitted 06/05**).

International Educators Project provided programmatic assistance for State Department proposal to bring international math and science educators for CSULB for a semester (Kaminsky & Turley PIs). \$1,650,000 (**submitted 09/05**).

Student Achievement: Integrating Literacy & Science (SAILS) California Postsecondary Education Commission Improving Teacher Quality proposal with West Ed. \$989,141 (**submitted 09/05**).

Children's Understanding of Earth Science (CUES) co-PI on National Science Foundation proposal with Tom Kelty and Georgia State University to investigate student misconceptions in earth science (\$150,000). (**submitted 11/2005**)

Texas Instruments PT3 Workshop. Proposal **funded** to run calculator based laboratory workshops for preservice elementary and secondary science teachers. All secondary participants received TI 84+ Silver calculator, software and linking cables valued at \$230. Workshops held March 25 and 26, 2006.

GEO TEACH NSF proposal submitted (with many others) to support geoscience education. (**submitted 04/2006**)

CSU Chancellor's Office Institute for Teaching and Learning. CSU Systemwide Science Education Colloquium proposal to support a 2 day event held May 5-6. **funded** - \$15,000. (co-PIs from CSU Long Beach, Chico, Cal Poly Pomona, Fullerton & San Francisco State)

WORKSHOPS PRESENTED

Flying Things - Bernoulli at Work - Woodrow Wilson National Fellowship Foundation inservice follow-up workshops
York College, Jamaica, NY, 1992, (half day workshop);
SUNY-Purchase, Purchase, NY, 1991, (half day workshop);
UC Santa Cruz, Santa Cruz, CA, 1991, (half-day workshop).

Thermistors and Thermal Energy - Woodrow Wilson National Fellowship Foundation inservice follow-up workshops
York College, Jamaica, NY, 1992, (full day workshop);
UC Santa Cruz, Santa Cruz, CA, 1991, (half day workshop);
SUNY-Purchase, Purchase, NY, 1991, (full day workshop).

Polymers and the Environment - Woodrow Wilson National Fellowship Foundation inservice follow-up workshops
Benedictine College, Atchinson, KS, 1993 (full day workshop);
Siena College, Albany, NY, 1992 (full day workshop);
SUNY-Purchase, Purchase, NY, 1991 (full day workshop).

Chemistry and The School Dance - Woodrow Wilson National Fellowship Foundation inservice follow-up workshops
Siena College, Albany, NY, 1993 (full day workshop).

Heartland Area Education Agency: "Assessment Alternatives for the Science Classroom" Shymansky, J.A., Henriques, L. and Chidsey, J.L. a pair of 2 day workshops - Sept. 29 & Nov. 29 and Nov. 14 & Dec. 5, 1994.

Woodrow Wilson National Leadership Program for Teachers; Lead Teacher- Physical Science Team: As a master teacher I coordinated, organized, and wrote curriculum for one-week physical science institutes. The workshops, aimed at middle school science teachers, addressed student alternate conceptions of science, computer interfacing, implementing hands-on activities with small budgets and integration of reform efforts into the curriculum. More than 600 teachers attended our workshops.

Mississippi School for Math & Science, Columbus, MS	July 11-15, 1994.
South Dakota State University, Brookings, SD	June 27-July 1, 1994.
University of Houston, Houston, TX	June 20-24, 1994.
The Alabama School of Fine Arts, Birmingham, AL	August 2-6, 1993.
University of Louisville, Louisville, KY	July 26-30, 1993.
Siena College, Loudonville, NY	July 12-16, 1993.
New Mexico Highland University, Las Vegas, NM	June 28-July 2, 1993.
College of Charleston, Charleston, SC	June 21-25, 1993.
Benedictine College, Atchinson, KS	July 27-31, 1992.
Roosevelt University, Chicago, IL	July 20-24, 1992.
University of Houston, Houston, TX	July 6-10, 1992.
University of Texas- El Paso, El Paso, TX	July 29-Aug. 2, 1991.
Georgia Southern University, Statesborough, GA	July 15-19, 1991.
York College, Jamaica, NY	July 8-12, 1991.
New Jersey Institute of Technology, Newark, NJ	June 24-28, 1991.
College of Notre Dame, Cleveland, OH	August 6-10, 1990.
University of California - Santa Cruz, Santa Cruz, CA	July 30-Aug. 3, 1990.
State University of New York - Purchase, Purchase, NY	July 16-20, 1990.
Duquesne University, Pittsburgh, PA	July 9-13, 1990.
Grand Valley State University, Allendale, MI	June 25-29, 1990.

California State University Long Beach - Center for Faculty Development: "Test as you teach: Better assessment for small classes." A colleague and I presented findings and innovations to CSULB faculty as a result of the *Teaching Projects Program Grant* (see above).

"Advantages and disadvantages of current practices", April 22, 1996;

"Examples of alternatives", April 29, 1996;

"Analyzing your tests, quizzes and assignments", May 6, 1996.

California State University Long Beach - Center for Faculty Development: "Better assessment for small classes." A colleague and I presented alternatives and innovations in assessment to interested CSULB faculty. This is a modified version of the presentations given in spring of 1996.

"Current assessment practices & introduction to alternatives" November 15, 1996;

"Examples of alternatives & modifying your own tests/quizzes" November 22, 1996.

National Association for Research in Science Teaching pre-conference workshop: Yore, L.D., Shymansky, J.A., Henriques, L., Chidsey, J.L., Lewis, J.O., Monhardt, R.M. & Hand, B. "Reading to learn and writing to learn science", Oak Park, IL, March 21, 1997. Reprinted in *California Journal of Science Education* (2005), Volume VI, (2) 15-50.

California Science Partnership Articulation and Networks (SPAN) Content specialist for a 2 week integrated science summer inservice for middle school science teachers 6/12/98-6/24/98; follow-up session 10/24 1998

Henriques, L. (1999). "Life Science Content: Life cycles of plants and animals for teachers in grades K-2." Staff professional development day, Cypress School District, Cypress, CA. January 4.

California Science Partnership Articulation and Networks (SPAN) Content specialist for a 2 week physical science summer inservice for middle school science teachers 8/8/99-8/20/99; follow-up session 10/23/99.

Missouri-Iowa Science Cooperatives Project

- Led chemistry workshop for elementary teachers emphasizing connections between science and reading/writing to learn activities. Served as science consultant and pedagogical expert for the team. (St. Louis, MO) June 19-26, 2000.
- Co-teach the Leadership Training Workshop (Ottumwa, IA) March 30-31, 2001.
- Serve as science and pedagogical expert to new cohort teams and newly trained leaders. Edina, MO. June 4-8, 2001.

Summer Science at *The Beach* (2001). Co-Director for 3-week Earth Science summer professional development and camp program for teachers and students. Long Beach, CA.

Young Scientists Camp (2002). Program Director for 3-week Life Science summer professional development and camp program for teachers and students. Long Beach, CA.

Young Scientists Camp (2003). Program Director for 3-week Physical Science summer professional development and camp program for teachers and students. Long Beach, CA.

Young Scientists Camp (2004). Program Director for 3-week Earth/Environmental Science summer professional development and camp program for 39 teachers and 193 students. Long Beach, CA.

Young Scientists Camp (2005). Program Director for 3-week Life Science summer professional development and camp program for 37 teachers and 192 students. Long Beach, CA.

Young Scientists Camp (2006). Program Director for 3-week Physical Science summer professional development and camp program for 35 teachers and 145 students. Long Beach, CA.

Bradbury, J. & Henriques, L. (2006). *Hot Topics In Chemistry* (Content Focus Seminar – 3 hour workshop), California Science Education Conference, San Francisco, October 21.

CONSULTING

Profiles, Inc.: Item writer for North Carolina's state science assessment, 1992.

American College Testing Corporation: Consultant and developer for Counsel of Chief State Science Officers *State Collaborative on Assessment and Student Standards* (SCASS), 1993-1994.

Agency for Instructional Technology: Co-author of assessment component for an integrated and coordinated science text, *Science Links*, June, 1996 - 1997.

Buckledown Publishing: Author of standards based physical science assessments and content reviews for grades 3-11. Text, activities and assessments written for Tennessee, Virginia, Massachusetts, Texas, New York, Ohio and Michigan. 1998 - present.

Jet Propulsion Laboratory, Pasadena CA: educational consultant for Atmospheric Infrared Sounder Project - reviewed science and geography standards, related curricula, science misconceptions and developed an outreach plan, summer 1999.

Loyola High School, Los Angeles, CA. Worked with science department around issues associated with a *Physics First* Curriculum design, 2006.

D. UNIVERSITY AND COMMUNITY SERVICE

DEPARTMENT, COLLEGE & UNIVERSITY SERVICE

- 1996-1998 *The Great Color Mix-up* California State University Long Beach Annual Kaleidoscope Festival, Academic Day: hands-on science workshops for primary students and their teachers, April 24, 1998, April 25, 1997 and April 26, 1996.
- 1997-1998 Seamless Science Education committee of the Long Beach Partnership
- 1997 Five Year Integrated Teacher Education Program—standards & curriculum committee.
- 1997 Promoting Women and Science: *Assessment Strategies*. Presentation for faculty in the College of Natural Science & Mathematics, August 22.
- 1997-1998 ITCT
- 1998 Science Olympiad judge. Recruited and coordinated student judges from the single subject program, April 11.
- 1998 *Elementary School Science - circa 2000*. Workshop for elementary student teacher supervisors. March 13.
- 1998-2001 Participant in the Promoting Women & Science grant.
- Henriques, L. (1998). "Effective Teaching Strategies for Large Classes." Presentation for *Promoting women and science* participants. CSULB, Nov. 20.
- 1998-present Integrated Teacher Education Program—member of: science content team (team leader), steering committee, & creating a community of learners committees
- 1998-present Department Representative for College Safety.
- 1998-present Library Acquisitions Committee.
- 1998-2001 CNSM Elections committee.
- 1998-1999 Multiple Subject Credential Program Advisory Board.
- 1998-1999 Multiple Subject Area Coordinator.
- Colburn & Henriques (1999). *University Standards in Practice* presentation for Standards Based Integrated Teacher Education grant faculty inservice Jan. 20.
- Henriques, L. (1999). *Inclusive Teaching Strategies* presentation for science teaching assistants, California State University, Long Beach, Jan. 21.
- 1999 Panelist for *Careers in Teaching Science* presented by the Student Access to Science Center, March 19.
- 1999 Science Olympiad - organize, create and judge event. Recruited student volunteers. April 10.
- 1999 *The Great Color Mix-up* California State University Long Beach Annual Kaleidoscope Festival, Academic Day: hands-on science workshops for primary students and their teachers April 23.
- 1999 Marshall for College Natural Sciences and Mathematics graduation, May.
- 1999 Streamlining Committee Multiple Subject Credential Program CLAD credential, summer 1999.
- 1999-present Assessment Committee (Academic Senate subcommittee)
- 2000-2001 co-authored Assessment White Paper
 - 2001-2002 Chair
- 1999-present LBESTEP Activities
- *Summer Science at the Beach* Advisory Board member. Additionally, I helped with program planning, hiring decisions and materials.
 - Science teacher preparation: Context and case studies. Long Beach Elementary Science/Mathematics Teacher Education Partnership workshop, February 26.
 - 2000 Engineering an introductory physics curriculum: A case study of course design and assessment using a research-based model. Sigma Xi, Long Beach Elementary Science/Mathematics Teacher Education Partnership workshop, March 25.
 - *Teaching K-8 Math & Science* April 13
 - Meeting with various NSF and Department of Education Officers: February 16, April 20.
 - A model for teaching science through inquiry, August 13, 2001.
- 2000 *EDSS 300 In Practice* presentation at the Single Subject Faculty Development Workshop, Jan 21.
- 2000 Science Olympiad - organize, create and judge event. Recruited student volunteers. April 8.
- 2000 Marshall for College Natural Sciences and Mathematics graduation, May.
- 2000 Interviewed on "Beach View" for future airing dates, May.
- 2000 Search committee member for department secretary (fall)
- 2000-2001 Planning group member for Carnegie Academy for the Scholarship of Teaching and Learning.

- 2000 "Making Credential Information Web sites" workshops for Single Subject Credential Advisors. October 13, November 3, and individual work sessions.
- 2000 Participated in CCTC/NCATE Trial Visit.
- 2001 Ad Hoc Committee to Develop a Mission Statement for the Center for Faculty Development.
- 2001 Ad Hoc Committee to conduct needs assessment for the Center for Faculty Development. Recommendations sent to Academic Senate 9/01.
- 2001 CCTC/NCATE accreditation visit
- 2001 Science Olympiad: organize, create and judge event (*Write it, Do it*). Recruit student volunteers. April 21.
- 2001 Marshall for College Natural Sciences and Mathematics graduation, June 1.
- 2001 Invited to serve on General Education Implementation team and attend the AAHE Summer Academy.
- 2001 *Next steps: Gen Ed Action Plan for 2001-2001 Report from the AAHE Summer Academy*, presentation at the General Education Summer Institute, GESI V, August 14.
- 2001 *Issues of Pedagogy*. Pre-Fall Semester TA Institute 2001, Center for Faculty Development. August 16
- 2001 *How to Assess Critical Thinking in the Classroom* HHMI Workshop on Critical Thinking for Departments of Biological Science and Chemistry/Biochemistry, August 22.
- 2001 Planning committee for fall 2001 Single Subject Credential Advisors retreat.
- 2001 Participate in *Association of Future Educators* club planning, with colleagues will coordinate science programs each semester. First event Nov 6.
- 2001 Panel member, *Phases of a Faculty Career?* CSULB Academic Senate Retreat, September 28.
- 2001-2002 Planning Board for Long Beach Area Science Educators Network
- 2001 Search Committee for Director of the Faculty Center for Professional Development, California State University, Long Beach
- 2002 *Assessing Student Learning Outcomes*. California State University, Long Beach General Education Winter Institute, January 23.
- 2002 *Henriques & Colburn, Science, Religion and Education, Faculty Supper Club, April 4.*

UNIVERSITY SERVICE

DEPARTMENT

Science Education Department Search Committees

- Chair, Full-time Lecturer Search (position #081), Science Education 2005-06 (*Dr. David Nickles* hired)
- Chair, Tenure Track Search (position #2026), Science Education 2004-05 (*Dr. William Straits* and *Dr. Susan Gomez Zwiap* hired)
- Tenure track search, Science Education, 2002-03. (*Dr. James Kisiel* hired)
- Chair, tenure track search, Science Education/Liberal Studies – joint hire, 2002-03. (*Dr. Catherine Martin-Dunlop* hired)
- Tenure track search, Science Education (2001-02) (no one hired)
- Department Administrative Assistant Searches (various)

Committees & Other Service

- 1998-2002 Departmental Library Acquisitions Representative
- 2002- present Association of Future Science Educator Club - Faculty Sponsor
 - student chapter of NSTA - coordinate and run monthly meetings www.csulb.edu/~lhenriqu/FallCal.htm
- 2002- present Science Education Department Retention, Tenure & Promotion Committee
 - Chair (2005-2006)
- 2003-present Department of Geological Sciences Retention, Tenure & Promotion Committee (Tom Kelty)
- 2006 Science Education Department Lecturer Evaluation Committee
- 2000- present Young Scientists Camp Advisory Board
 - Director (2002-present) Hire staff, select curriculum, advertise, and oversee all campus arrangements – facilities and parking, financial aspects, registration, classroom assignments
- 2005-2006 Acting Department Chair
- 2006-2009 Department Chair

COLLEGE OF NATURAL SCIENCES & MATHEMATICS

- 1997-present Seamless Education Initiative, *Long Beach Science Educators Network*
 - Steering Committee (2001-present)
 - Administrative coordinator fall 2004
- 2002 Biology Department Retreat – facilitator (August)

2002 Co-planned and facilitated CNSM Department Chairs Retreat (August)
2002, 2003, 2004, 2005 Graduation Marshall for College of Natural Sciences & Mathematics.
2002, 2003, 2004 Science Safari – Parent Presentation *Helping Your Child Succeed at College* and advising for students
2003, 2004 SAS Center Careers in Teaching presentation
2005-2006 College Sabbatical/Professional Leave Selection Committee - 8 applicants
2005-2006 College Scholarly and Creative Activity Award Committee - 31 applicants
2006-2007 College Sabbatical/Professional Leave Selection Committee

COLLEGE OF EDUCATION & CREDENTIAL PROGRAMS

1997-2002 Integrated Teacher Education Project
Search Committee for Single Subject Credential Program Coordinator
Tenure track search (position #007), 2005-06 (Dr. Karen Hakim-Butt hired).
Search committee, Single Subject Credential Program Administrative Support Manager (2004-05).
1998-present University Single Subject Credential Program Advisory Committee
1998-present University Single Subject Credential Program Petitioning Committee
2006 Graduation Marshall for College of Education
20005-present Chancellor's Office Math/Science Teacher Initiative – Science Representative

UNIVERSITY

1999-2004 **Campus Assessment Committee**
Chair 2001-2003, co-author of white paper (2000-2001)
2001-2002 **General Education Implementation Team** - attended the AAHE Summer Academy (2001) and participated in follow-up meetings with the GE Implementation team held twice/month throughout the year.
2001-2003 **Sand CASTL Group** (Carnegie Academy for the Scholarship of Teaching and Learning) - group of faculty who meet to discuss ways to participate in and promote the scholarship of teaching/learning on campus.
2002 Henriques, L. & Colburn, A. *Science, Religion and Education*, CSULB Faculty Supper Club, April 4.
2002 General Education Winter Institute planning board
2002 grant reviewer for Enhancing Educational Effectiveness proposals
2002 reviewer for Assessment Grant Project proposals
2003 grant reviewer for Enhancing Educational Effectiveness proposals
2003-2005 **University Awards Committee**
Secretary (2003-2005)
2004 grant reviewer for Enhancing Educational Effectiveness pre-proposals
2004 grant reviewer for Enhancing Educational Effectiveness proposals
2004-2007 Academic Senate (2004-2007)
Henriques, L. (2004). *Evolution & Creationism: Voices from the Pulpit*. CSULB Women's Research Colloquium, April 27.
2005-2007 **University Resources Council** (formerly Financial Affairs Council)
2004, 2006 **Kaliedoscope Academic Day** hands-on science workshops for elementary students

PROFESSIONAL & COMMUNITY SERVICE

1987-1992 American Association of Physics Teachers
Planning committee for Northeast Regional AAPT 1991 meeting
1990-1992 Executive Board Member, Southeastern Pennsylvania Association of Physics Teachers.
1991 Planning committee for Northeast Regional American Association of Physics Teachers meeting.
1992-1995 Iowa Academy of Science
1993-1995 Society of Exploration Geophysics-University of Iowa chapter, student chapter president
1997, 1998 Judge for Long Beach Unified School District science fair [half-day]
1996 - 1998. Science mentor for local girl scout troops.
1998 Program Proposal Reviewer for Association for the Education of Teachers in Science 1999 annual meeting.
1999 Judge for Long Beach Unified School District science fair [half day] April 24.
1999-2001 Planning committee for Association for the Education of Teachers in Science 2001 annual meeting.
1999 Program Proposal Reviewer for Association for the Education of Teachers in Science 2000 annual meeting.
1999 Board member Los Angeles County K-12 Science Council
1999 Program Proposal Reviewer for National Association of Research in Science Teaching 2000 annual meeting - Strand 1 (Learning: Students' Conception and Conceptual Change).
1999 *K-12/Post-Secondary Science Advisory Council*, Los Angeles County Office of Education [first meeting Oct. 26].

Dr. Laura Henriques, Science Education
College of Natural Sciences & Mathematics
Fall 2006

- 1999 National Advisory Board for *The Galaxy Project*, Center to Advance Science Education at University of Southern California [first meeting Jan. 2000].
- 2000 Judge for Long Beach Unified School District science fair [half day] May 6.
- 2000 Served as grant reviewer for NASA Office Earth Science, NRA-2000-OES-04, New Investigator Program (NIP) in Earth Science.
- 2000 Volunteer chaperone for middle school science outdoor field lab trip, Rogers Middle School.
- 2000 reviewed K-8 subject matter competency exam (MSAT) science items and categories for the California Commission on Teacher Credentialing
- 2000-present *School Science and Mathematics*. Serve as a reviewer for articles submitted to the journal.
- 2000-present *Journal of Research in Science Teaching*. Serve as a reviewer for articles submitted to the journal.
- 2001 Planning board for Association for the Education of Teachers in Science 2001 conference in Costa Mesa, CA. Co-authored section for *AETS Conference Planning Handbook*.
- 2001 Applied to serve on the *Science Subject Matter Advisory Panel* for the Commission on Teacher Credentialing.
- 2001 Developed an Association for the Education of Teachers in Science strand of presentations at the California Science Teachers Association annual conference. This increased the number of science educators attending CSTA and is the first step to improved communication between the K-12 science teachers and science educators in California. It also helps increase communication between CSU science educators.
- 2001 Invited to participate in national study about urban science teacher education.
- 2001 Program Proposal Reviewer for National Association of Research in Science Teaching 2002 annual meeting - Strand 1 (Learning: Students' Conception and Conceptual Change) and Strand 3 (Teaching).
- 2001 Planning committee for 2001-02 Long Beach Science Educator Network activities.
- 2001 Nominated to serve on the Elections Committee of Association for the Education of Teachers in Science.
- 2001 Invited to serve on CA Commission on Teacher Credentialing Science Single Subject – Subject Matter Preparation Alignment and Congruence Review Panel.
- 2002 Association for the Education of Teachers in Science Far West Regional Director.
- 2002 Association for the Education of Teachers in Science Professional Development Committee.
- 2002 Applying to be co-editor of *Journal of Science Teacher Education* with Dr. Alan Colburn (journal sponsored by the Association for the Education of Teachers of Science). Position would cover issues in 2004-2009 (2003 is transition year).

MEMBERSHIPS AND SERVICE TO THE PROFESSION

National Science Foundation Panelist to review Math Science Partnership Grants (NSF06-539). June 2006.

CSU Science Education Colloquium (2006) a Chancellor's Office grant supported the gathering of science educators from all 23 campuses for a 2 day meeting at Cal Poly Pomona in May. Information available at <http://www.calstate.edu/teachered/msti/>.

Steering Committee (to submit grant and plan conference)

Strand Coordinator at conference

Authored the advising flowchart and portions of final report

External Reviewer for Utah State University's New Faculty Research Grant competition (Dr. Leigh Monhardt) (2003)

External Reviewer (retention, tenure and promotion file)

Dr. Gail Luera, University Michigan - Dearborn (2005)

Association for Science Teacher Educators (formerly Association for the Education of Teachers in Science) (1996-present)

Nominated to serve on the ASTE *Elections Committee* (2007 – elections pending)

AETS Far West Regional Director (2002-2005)

Nominated for AETS *Outstanding Science Educator Early Career Award* (2004)

Professional Development Committee (2002-2005)

Program Proposal Reviewer for Association for the Education of Teachers in Science's 1999, 2000, 2003 annual meeting

Coordinate Far West Regional Meeting at CSTA annual conference (2002, 2003, 2004, 2005, 2006)

- Los Angeles County Office of Education - science advisory board
- *Young Scientists Camp* formerly *Summer Science at the Beach* - California State University, Long Beach
- National Advisory Board for *The Galaxy Project*, Center to Advance Science Education at University of Southern California University of Southern California
- External interviewer for Los Angeles County of Education search committee for elementary science consultant

California Commission on Teacher Credentialing

- reviewed science content for MSAT exam, 2000
- Science Single Subject – Subject Matter Preparation Alignment and Congruence Review Panel, 2001
- Standard Setting Panel for the Teaching Foundations Examination in Science October 2006

Comprehensive list of Professional Memberships

Association for Science Teacher Educators (formerly Association for the Education of Teachers in Science) (1996-present)

Association of Supervision and Curriculum Development (1990- present)

California Science Teachers Association (1996 - present, life member)

National Science Teachers Association (life member)

National Association for Research in Science Teaching (1993- present)

Phi Delta Kappa - University of Iowa chapter (1993- present)

School Science and Mathematics (1997 - present, life member)

Former Memberships

American Association of Physics Teachers (1987-1992)

American Association of University Women (2000-2002)

California Earth Science Teachers Association (1999-2002)

Iowa Academy of Science (1992-1995)

National Middle Level Science Teachers Association (1990- 2003)

Society of Exploration Geophysics-University of Iowa chapter, student chapter president (1993-1995)

Southeastern Pennsylvania Association of Physics Teachers (1988-1992)

Executive board member (1990-1992)