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EDUCATION

- Ph.D.** UNIVERSITY OF HAWAI'I, Manoa
Doctor of Philosophy, 2002 Teacher Education and Curriculum Studies: Cognate in Educational Technology
Dissertation: *A Qualitative Study of the Epistemologies and Pedagogies of Environmental Practitioners in Maui, Hawai'i*
Committee Chair: Dr. Joseph Tobin
- M.P.H.** UNIVERSITY OF TEXAS, School of Public Health, Houston
Master of Public Health, 1977
Thesis: *A descriptive study of the population distributions of selected biochemical measurements in a random sample of adolescents and adults*
- B.A.** UNIVERSITY OF TEXAS, Austin
Bachelor of Arts in Biology with Honors, 1973
- Science Credential** UNIVERSITY OF HOUSTON, Houston
Teaching Certification, 1978: Science Composite

PROFESSIONAL EXPERIENCE

- 2002 - Present **Associate Professor**
University of San Diego, School of Leadership and Education Sciences
- 2011-2012 Coordinator, Master's Credential Cohort (secondary)
 - 2004-2010 Coordinator, Math, Science and Technology Education Program
 - 2004-2005, 2008 Coordinator, Curriculum and Teaching program
 - 2008-2009 Coordinator, Single Subject Credential Program
- Courses taught:
- | | | |
|--------------------|--------------|--|
| Undergraduate..... | EDUC 332/532 | Curriculum and Methods of Teaching |
| | EDUC 314/514 | Instructional Technology |
| Graduate..... | EDUC 535/571 | Curriculum Design and Evaluation |
| | EDUC 536 | Curricular Innovations |
| | EDUC 538 | Instructional Theories and Practices |
| | EDUC 527 | Advanced Secondary Pedagogies |
| | EDUC 579 | Planning and preparing an e-Folio |
| | EDUC 579 | Inquiry Learning Seminar I and II |
| | EDUC 570 | Contemporary Issues and Trends in Math, Science and Technology Education |

EDUC 574	Pedagogical Processes for Science Educators
EDUC 576	Advanced Seminar in Science
EDUC 580	Capstone Action Research Seminar
EDUC 500	Research Design and Methodology
EDUC 567	Student Teaching Seminar

1988 - 2002 **Science Department Chair, Seabury Hall**

- 6-12 Science teacher
- Budgeting and program evaluation
- Curriculum and staff development
- Strategic planning
- National Tandy Technology Scholar (1994)
- Master teacher (1996)

Courses taught:

Middle School...Tides and Tentacles (Marine Biology)
 Blood and Guts (Anatomy & Physiology)
 Gee Whiz (Chemistry)
 Life Science, 7th grade

High School.....Honors Biology, 9th grade
 Biology I, 10th grade
 A.P. Biology, 11th – 12th grade
 A.P. Environmental Science, 11th – 12th grade

1996 - 1998 **Graduate Assistant, University of Hawai'i, Manoa**

- Field supervision for student teachers in science
- Teaching assistant science education course
- Board member College of Education Doctoral Student Association

1992 - 1997 **Educational Testing Service**

- Reader: A.P. Biology National Exams
- Faculty Consultant and A.P. Biology workshop presenter

1979 - 1988 **Elsik South High School, Houston Texas**

Alief Independent School District, Grades 9 - 12

Courses Taught:

High School.....Biology I, 9th-10th grade
 Biology II, 10th - 11th grade
 A.P. Biology, 12th grade

1974 - 1978 **Baylor College of Medicine, Houston, Texas**

- Research Technician: Clinical Laboratory for Lipid Analysis
- Phlebotomist on the service of Dr. Michael DeBakey

PUBLICATIONS

Books:

- Buczynski, S. (2011). *Super smart information strategies: Get ready for a winning science project*. Ann Arbor, MI: Cherry Lake Publishing.
- Buczynski, S. & Fontichiaro, K. (2009). *Story starters and science notebooking: Developing children's thinking through literacy and inquiry*. Westport, Conn: Teacher Ideas Press.

Refereed Articles:

- Buczynski, S., Ireland, K., Garcia, S. & Lacanienta, E. (in press 2011). Visualizing science: Strategies for integrating art and science. *Science Scope*.
- Buczynski, S., Gorsky, J., McGrath, L. & Myers, P. (2011). Sift like Eratosthenes. *Teaching Children Mathematics*, 18(2), 110-118.
- Inoue, N. & Buczynski, S. (2011). You asked open-ended questions, and now what?: Understanding stumbling blocks in inquiry-based lessons. *The Mathematics Educator*, 20(2), 10-23.
- Buczynski, S. & Hansen, B. (2010). Impact of professional development on teacher practice: Uncovering connections. *Teaching and Teacher Education*, 26(3), 599-607.
- Buczynski, S., Lattimer, H., Inoue, N. & Alexandrowicz, V. (2010). Developing a policy for an international experience requirement in a graduate teacher education program: A cautionary tale. *Teaching Education*, 21(1), 33-46.
- Buczynski, S. (2009). 10 tips for providing formative feedback. *Phi Delta Kappan International's electronic Classroom Tips*, Posted October 15, 2009
http://www.pdkmembers.org/members_online/members/sample_menu.asp?&member_yn=1&af=PDK
- Buczynski, S. & Sisserson, K. (2008). School district and university co-teaching: Toward instructional synergy in an induction/M.Ed. program. *Issues in Teacher Education*, 17(1), 47-74.
- Buczynski, S., Garcia, S., & Lacanienta, E. (2007). Using Japanese lesson design to anticipate an ant invasion on Maui. *The Science Teacher*, 74(8), 49-54.
- Buczynski, S. (2007). Weed Warriors. *Science Activities*, 44(1), 23-32.
- Buczynski, S. (2007). Making the most of limited lab facilities. *Science Scope*, 30(6), 60-62.
- Reprinted** as Chapter 9 in *The Frugal Science Teacher, 6-9: Strategies and Activities* (Linda Froschauer, Ed.) (2010). Arlington, VA: NSTA Press.
- Buczynski, S. (2006). What's hot? What's not? Goldilocks investigates temperature

and heat. *Science & Children*, 44(2), 25-29.

Reprinted in *Readings in Science Methods K-8* (Eric Brunzell, Ed.) (2008). Arlington, VA: NSTA Press.

Buczynski, S. (2006). Eggheads: Pioneers of genetics. *Science Scope*, 29(6), 52-55.

Buczynski, S. (2004). Hawaiian Legacy: *Malama i ka 'aina*. *Connect*, 18(2), 4-7.

Buczynski, S., & Garcia, S. (2003). Mosquitoes on Maui: Students conduct research for an island-wide mosquito study. *The Science Teacher*, 70 (5), 32-34.

Invited Articles:

Buczynski, S. (2009, October). A meeting of the minds leads to publication. *American Professional Partnership for Lithuanian Education (A.P.P.L.E.): report to the corps*, 19(2), 1.

Buczynski, S. & Fontichiaro, K. (2009). Science notebooking in action: Where does condensation come from? *School Library Media Activities Monthly*, 25(7), 12-14.

Fontichiaro, K., & Buczynski, S. (2009). Connecting science notebooking to the elementary library media center. *School Library Media Activities Monthly*, 25(7), 24-27.

Fontichiaro, K., Pascaretti, V., & Buczynski, S. (2009). Science notebooking in the library media center: Alternative energy. *School Library Media Activities Monthly*, 25(7), 14-16.

Buczynski, S. (2006). Preparing to teach Math and Science: Challenges and Opportunities. *First Criterion*, XIV(1), 15-19.

Buczynski, S. (2005, October). Promoting sustainable education: Lithuanian elementary science strand. American Professional Partnership for Lithuanian Education (A.P.P.L.E.) newsletter

Other scholarly works:

Buczynski, S. 2011. SciPack Chemical Reactions in Cells. National Science Teachers Association's Learning Lab.

Buczynski, S. 2010. Testbank to accompany Berg, L. *Visualizing Environmental Science*. Hoboken: Wiley & Sons.

Buczynski, S. 2010. Pre-Post testbank to accompany Ireland, K. *Visualizing Human Biology*. Hoboken: Wiley & Sons.

Buczynski, S. 2010. Powerpoint shows to accompany Ireland, K. *Visualizing Human Biology*. Hoboken: Wiley & Sons.

Buczynski, S. 2007. Instructor's end of chapter question guide to accompany Botkin, D. & Keller, E. *Environmental Science*. Hoboken: Wiley and Sons.

Buczynski, S. 2007. Testbank to accompany Botkin, D. & Keller, E. *Environmental*

Science: Earth as a Living Planet. Hoboken: Wiley and Sons.

Buczynski, S. & Steehler, G. 2006. *Instructor's Manual* to accompany Trefil, J. & Hazen, R. *The Sciences: An Integrated Approach*. Hoboken: Wiley & Sons.

Buczynski, S. 2005. Testbank to accompany Raven, P. & Berg, L. *Environment*. Hoboken: Wiley and Sons.

CONFERENCE PRESENTATIONS

Refereed:

Quezada, R. & Buczynski, S. (2011, summer). International requirement experiences of education graduate students: What do they tell us?. International Council on Education for Teaching (ICET), Glasgow, Scotland.

Buczynski, S. & Quezada, R. (2011, summer). Internationalizing a teacher education preparation and graduate education program: Lessons learned. International Council on Education for Teaching (ICET), Glasgow, Scotland.

Buczynski, S. & Trueblood, S. (2011, Spring). National Park Preservation Interdisciplinary Project. National Science Teachers Association (NSTA), San Francisco, CA.

Buczynski, S. (2010, Spring). Developing children's thinking through literacy and inquiry. National Science Teachers Association (NSTA), Philadelphia, PA

Quezada, R. & Buczynski, S. (2010, Winter). Internationalizing Teacher Preparation and Graduate Education Programs: Faculty Discussions and Implementation Process. The Association of Teacher Educators (ATE), Chicago, IL.

Buczynski, S. & Quezada, R. (2010, Winter). Internationalizing graduate Education Program: Lessons Learned. World Federation of Associations for Teacher Education (WFATE), Chicago, IL.

Buczynski, S., Lacanienta, E. & Garcia, S. (2008, Spring). Little fire ant alert on Maui. National Science Teachers Association (NSTA), Boston, MA.

Buczynski, S., (2008, Winter). A longitudinal study of science based professional development for elementary teachers. Association of Science Teacher Educators (ASTE), St. Louis, MO.

Buczynski, S. & Hansen, B. (2007, Spring). Tracing inquiry and classroom pedagogy in grade 4-6 science classrooms. American Educational Research Association (AERA), Chicago, IL.

Buczynski, S. (2007, Winter). Tracing inquiry pedagogy in grade 4-6 science classrooms. Association of Science Teacher Educators (ASTE), Clearwater, FL.

Buczynski, S. (2006, Summer). Using Children's Literature to develop critical thinking skills. American Association for the Advancement of Science, Pacific Division (AAASPD), Closing Speaker, San Diego, CA.

Buczynski, S., Goessling, C. (2006, Spring). No lab space, no problem.

National Science Teachers' Association (NSTA), Anaheim, CA.

Hansen, B., Buczynski, S., Inoue, N., Sisserson, K. & Dantus, M. (2006, Winter). Stories of 21st Century International School Reforms: Implications for US Educators. American Association for Colleges of Teacher Education (AACTE), San Diego, CA.

Hansen, B., Buczynski, S., Inoue, N., Meyers, P., McGrath, L., Siefert, L. (2005, Spring). Shared Insights from University Math Education Study Group. National Council of Teachers of Mathematics (NCTM), Anaheim, CA.

Hubbard, L., Buczynski, S., Gelb, S., Schlinder, B., True, M. (2005, Winter). University / School Partnerships. American Association for Colleges of Teacher Education (AACTE), Washington, D.C.

Buczynski, S. (2005, Winter). "Stuff I saying is not in school": A study of teaching local environmental knowledge in Hawai'i. Association for the Education of Teachers in Science (AETS). Colorado Springs, CO.

Non-refereed:

Buczynski, S. (2005, Fall). Let's get physical: Hula. Healthy Girls Healthy Lives Symposium, San Diego-Imperial Council Girl Scouts. San Diego, CA.

Buczynski, S., DeaMude, Angela, and Goessling, Christine (2004, Spring). Celebrate the Day: Teaching science with holiday themes. San Diego Science Educator's Association Conference (SDSEA), San Diego, CA.

AWARDS and RECOGNITION

2009 Tenure, University of San Diego
1996 Master Teacher as awarded by Seabury Hall
1994 Tandy Technology Scholar as awarded by Tandy Corporation/Radio Shack
1994 Warren E. Schull Adviser of the Year as awarded by the National Association of Secondary School Principals

GRANTS

EXTERNAL

\$477,000. Talley, D., Buczynski, S., Gray, S. & Yin, Z.
Awarded 7/09 Opportunities for Enhancing Diversity in the Geosciences (OEDG)
Funded by: National Science Foundation (NSF)

\$889,335. Buczynski, S. & Myers, P. (Co-principal investigators)
Awarded 7/06 Inquiry Learning Partnership July 2006 – August 2008.
Re-funded by: California Mathematics and Science Partnership (CaMSP)

\$994,651. Buczynski, S. & Myers, P. (Co-principal investigators)
Awarded 1/05 Inquiry Learning Partnership November 2004 – September 2006
Funded by: California Mathematics and Science Partnership (CaMSP)

INTERNAL

- \$850.** Buczynski, S.
Awarded 5/11 International Opportunity grant for conference presentation in Scotland
Submitted to: USD International Council
- \$860.** Buczynski, S.
Awarded 04/09 International Opportunity grant for study in Lithuania
Submitted to: USD International Council
- \$500.** Buczynski, S.
Awarded 08/07 International Opportunity grant for study in Lithuania
Submitted to: USD International Council
- \$500.** Buczynski, S.
Awarded 02/07 Enhanced student faculty interaction fund to support 2007 Bi-national
Action Research Symposium
Submitted to: USD Provost's office
- \$1,500.** Buczynski, S.
Awarded 09/06 International Opportunity Grant for CIEE program in India
Submitted to: USD International Council

Grant Review Panel Member

- 2006, 2008 National Science Foundation (NSF)
Informal Science Education Program, Technology
- 2006 California Department of Education
California Math and Science Partnerships (CaMSP) Cohort 3

REVIEWS and ADVISORY BOARDS

- 2011-2012 Member, Magnolia Charter Schools' Credential Advisory Board
- 2011- 2012 Chair, *Science Scope* Advisory Board
- 2010 – 2013 Member of *Science Scope* Advisory Board
- 2010 – 2013 Member of Ocean Discovery Institute's Advisory Board
- 2010 Reviewer for *Asia Pacific Education Review* (APER)
- 2008 - 2011 Reviewer for *Issues in Teacher Education* (ITE)
- 2003 - 2006 Reviewer for *Journal of Research in Science Teaching* (JRST)
- 2003 – 2006 Reviewer for *American Educational Research Journal* (AERJ)
- 2003 - 2011 Reviewer for CHOICE (Current reviews for academic libraries)

SERVICE

International

- 2005, 2007, • American Professional Partnership for Lithuanian Education (A.P.P.L.E.)

2009 Instructor for two-week summer institute for elementary science teachers

National

- 2011-2012 • Chair, *Science Scope* Advisory Board
- 2008-2009 • Co-chair AERA Science Teaching and Learning SIG
- 2009 • Chair AERA session: Identifying Effective Reform-Based Strategies for Improving Student Performance.
- 2006 • Montana State University Biotechnology Frontier Program Teacher
- 2005 • Assessment Evaluator: University of Louisville Center for Research in Mathematics and Science Teacher Development's (CRMSTD)
- 2004 • Co-director of the Third Annual American Association for the Advancement of Curriculum Studies (AAACS) Conference held at the University of San Diego

Community

- 2009-2011 • Member Board of Trustees, Nativity Prep Academy
- 2011-2012 • Member, Credential Advisory Board of Magnolia Charter Schools
- 2011-2012 • Liaison with Leonardo daVinci Health Sciences Charter School
- 2010 -2013 • Member of Advisory Board, Ocean Discovery Institute
- 2008-2009 • Instructional editor, Environmental Education Initiative (EEI) Curriculum
- 2003-2008 • Member, Board of Directors for non-profit: *Halau Hula O Ka'eo*
- 2003-2009 • Member of Scholarship Panel: Rueben H. Fleet Science Center as administered by the San Diego Foundation

University of San Diego

- 2011-2014 • Member, Institutional Review Board (IRB)
- 2002-2008 • Teacher Education Council (TEC)
- 2002-2007 • Teacher Education Group (TEG)
- 2006 • Math Camp Faculty
- 2002-2004 • Faculty Senate Committee: Honorary Degrees
- 2002-2003 • Academic Integrity Committee

SOLES

- 2011-2012 • Co-Director, Action Research Conference
- 2010-2011 • Member, L & T Admissions Committee
- 2010-2011 • Member, NCATE, Standard 1 Committee
- 2010-2011 • Member, Credential Committee
- 2009 • Discussant, Action Research Symposium
- 2009 • Facilitator, Learning and Teaching's Internationalization of the Curriculum Workshop sponsored by Longview Foundation
- 2008-2009 • Search Committee Member, Educational Technology position
- 2008-2009 • Member L & T admissions committee for MSTE and single subject candidates
- 2006-2009 • Action Research Symposium Planning Committee
- 2008 • Science classroom evaluator: Nativity Prep Academy
- 2006-2009 • Activities Chair, Phi Delta Kappa
- 2007- 2009 • Member of Planning Committee, Action Research Symposium
- 2007 • Discussant, USD Action Research Symposium
- 2007-2008 • Liaison with Educational Leadership Development Academy for Spotlight Speakers series on Math and Science Education
- 2006-2009 • Faculty representative for Prospective Students' Lunch with Faculty Day
- 2006-2007 • Faculty representative, San Diego Secondary Teacher Recruitment Fair
- Curriculum & Teaching redesign *ad hoc* committee

LEARNING & TEACHING

2011-2012 •Member, Course Budget Committee

OTHER PROFESSIONAL SERVICE

Educational Consultant:

- 2010-2011 •Curriculum Designer: National Science Teachers Association (NSTA) SciPacks
•Grant writer: California Math Science Partnership (CaMSP) for Fresno Pacific University/ Burton School District, 2011; Investing in Innovation (i3) for Corinth School District, Mississippi, 2011; Tobacco-Use Prevention Education Program for East Side School District, San Jose, CA, 2009; Arts in Education Model Development and Dissemination for San Marcos School District, CA, 2009
•Reviewer, Lombardi, J. *Guide to performance assessment for California teachers (PACT)*. Pearson Allyn & Bacon
- 2008-2009 • curriculum reviewer, State Education & Environment Roundtable (<http://www.seer.org>) environmental education

ACCREDITATION & CREDENTIALING EXPERIENCE

- 2008 • Chair, Standard 6, California Commission on Teacher Credentialing Standards Review
- 2003-2004 • SOLES Co-chair of Standard One for National College Accreditation Teacher Educators (NCATE)
- 2003 • Appointment to California Commission on Teacher Credentialing, Science Standard Setting Panel for the Biology and Specialized Science exams. Assist in the development of the passing criteria on the science exams for the California Subject Examination for Teachers (CSET™)
- 1999 & 2002 • Team member for WASC: Accrediting Commission for Schools to Maui High School.

PROFESSIONAL AFFILIATIONS

- Phi Delta Kappa International (PDK)
- American Educational Research Association (AERA)
- National Science Teachers' Association (NSTA)
- National Association of Research in Science Teaching (NARST)
- Association of Science Teacher Educators (ASTE)
- American Association for the Advancement of Curriculum Studies (AAACS)
- California Science Teachers' Association (CSTA)
- International Council on Education for Teaching (ICET)