	Sandy Buczynski, Associate Profes University of San School of Leadership and Ed 5998 Alcalá Pa	ssor Diego ucation Sciences
	San Diego, CA 9211	10-2492
Phone: (619) 260-799	1 Fax: (619) 849-8159	e-mail: <u>sandyb@sandiego.edu</u>
	EDUCATIO	N
		M
Ph.D.	UNIVERSITY OF HAWAI'I, Dector of Philosophy	
	Studies: Cognate in Ec	, 2002 Teacher Education and Curriculum
		A Qualitative Study of the Epistemologies
		es of Environmental Practitioners in Maui
	Hawai'i	0
	Committee Ch	air: Dr. Joseph Tobin
M.P.H.		chool of Public Health, Houston
	Master of Public Hea	
		riptive study of the population
	-	f selected biochemical measurements in a
	ranaom sampi	e of adolescents and adults
B.A.	UNIVERSITY OF TEXAS, A	
	Bachelor of Arts in B	iology with Honors, 1973
Science Credential	UNIVERSITY OF HOUSTON	
	Teaching Certificatio	n, 1978: Science Composite
	PROFESSIONAL EXF	PERIENCE
2009 - Present Associa Univer		eadership and Education Sciences
	011-2012 Coordinator, Master's	
		cience and Technology Education Program
2002-2009 Assistant P		
		urriculum and Teaching program
	008-2009 Coordinator, Single	Subject Credential Program
Courses taught:		2 Curriculum and Mathada of Tasahing
Underg		2 Curriculum and Methods of Teaching 4 Instructional Technology
C		roduction to Teaching
		1 Curriculum Design and Evaluation
	te EDUC 535/57 EDUC 536	Curricular Innovations
	te EDUC 535/57 EDUC 536 EDUC 538	Curricular Innovations Instructional Theories and Practices
	te EDUC 535/57 EDUC 536	Curricular Innovations

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
EDUC 508e	Artistic Modeling and Representation in
	Science and Mathematics education

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

Books:

Buczynski, S., Hansen, B. & Plunkett, K. (2015, in progress). *Curriculum and teaching for the 21st century.* San Diego, CA: Bridgepoint Education.

Buczynski, S. (2014). *Information explorer junior: Designing a winning science fair project.* Ann Arbor, MI: Cherry Lake Publishing.

- Buczynski, S. & Hansen, B. (2014). *The change leader in education: Roles and strategies in the differentiated environment.* San Diego, CA: Bridgepoint Education.
- 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:

- Hansen, B. & Buczynski, S. (2013). The teaching of inquiry-based science in elementary classrooms: A bi-national comparative reflection of U.S. and Lithuanian practices. *International Journal of Higher Education*, 2(3), 41-54.
- Buczynski, S., Ireland, K., Reed, S. & Lacanienta, E. (2012). Communicating science understanding through art: 21st century skills in practice. *Science Scope*, 35(9), 29-35.
- 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. **Reprinted** as Chapter 4 in Internationalization of teacher education: Creating globally competent teacher and teacher educators for the 21st century. (Reyes Quezada, Ed.) (2012), pp. 33-46. New York, NY: Routledge.
- 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 Brunsell, 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. & Fontichiaro, K. (2013). Classroom Connections: Inquiring minds. *Book Links*, November, 2013, p. 1-5 Available:

http://booklistonline.com/media/booklinks/CommonCorePDFs/booklinks_ccss_2013_11 _inquiring-minds.pdf

- 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:

- Mobile Technology Learning Center (2014). Coronado Unified School District: 21st Century learning research study, 2012-2013. San Diego, CA: University of San Diego.
- Buczynski, S. 2012. SciPack: Hereditary and Variation. National Science Teachers Association's Learning Lab.
- Buczynski, S. 2011. Lesson Plans for 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:

- Buczynski, S. (2014, spring). Moving from STEM to STEAM in the 21st century. National Science Teachers Association (NSTA), Boston, MA.
- Quezada, R. & Buczynski, S. (2012, spring). Assessing International Experiences: Are we making a mistake overlooking critical reflection? American Educational Research Association (AERA), Vancouver, Canada.
- Buczynski, S. (2012, spring). It is not easy seeing green. National Science Teachers Association (NSTA), Indianapolis, IN

Quezada, R. & Buczynski, S. (2011, fall). Internationalization requirement experiences

of graduate education students: Do they meet the spirit of the policy? California Council of Teacher Educators (CCTE), San Diego, CA.

- 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,

S. Buczynski 6 2014 curriculum vitae 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

- 2014 San Diego County Parks Society Achievement Award, Full STEAM ahead after school program, City of Escondido
- 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. Awarded 7/09	Talley, D., Buczynski, S., Gray, S. & Yin, Z. Opportunities for Enhancing Diversity in the Geosciences (OEDG) Funded by: National Science Foundation (NSF)
\$889,335. Awarded 7/06	Buczynski, S. & Myers, P. (Co-principal investigators) Inquiry Learning Partnership July 2006 – August 2008. Re-funded by: California Mathematics and Science Partnership (CaMSP)
\$994,651. Awarded 1/05	Buczynski, S. & Myers. P. (Co-principal investigators) Inquiry Learning Partnership November 2004 – September 2006 Funded by: California Mathematics and Science Partnership (CaMSP)
INTERNAL	
iPads fall 2013 spring 2014	Buczynski, S. iPad Classroom Project Submitted to: USD Academic Technology Services
\$500.	Buczynski, S.

Awarded 10/11	Enhanced student faculty interaction fund to support 2012 action research conference. Submitted to: USD Provost's office
\$850. Awarded 5/11	Buczynski, S. International Opportunity grant for conference presentation in Scotland Submitted to: USD International Council
\$860. Awarded 04/09	Buczynski, S. International Opportunity grant for study in Lithuania Submitted to: USD International Council
\$500. Awarded 08/07	Buczynski, S. International Opportunity grant for study in Lithuania Submitted to: USD International Council
\$500. Awarded 02/07	Buczynski, S. Enhanced student faculty interaction fund to support 2007 Bi-national Action Research Symposium Submitted to: USD Provost's office
\$1,500. Awarded 09/06	Buczynski, S. 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

2014	Reviewer for Urban Education
2012-2013	Reviewer for Multicultural Education Journal
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 - 2013	Reviewer for Asia Pacific Education Review (APER)
2008 - 2012	Reviewer for Issues in Teacher Education (ITE)
2003 - 2014	Reviewer for CHOICE (Current reviews for academic libraries)
2010 - 2014	Reviewer for <i>Science Scope</i>

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	
	S. Buczynski	8

National	
2012	Judge, Disney's Planet Challenge
2008-2009	Co-chair AERA Science Teaching and Learning SIG
2009	Chair AERA session: Identifying Effective Reform-Based Strategies for
2006	Improving Student Performance.Montana State University Biotechnology Frontier Program Teacher
2000	 Assessment Evaluator: University of Louisville Center for Research in
2005	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	
2013-2014	Chair, Academic Committee, Nativity Preparatory Academy
2009-2014	Member Board of Trustees, Nativity Preparatory 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
2003-2014	Member of Scholarship Panel: Rueben H. Fleet Science Center as
	administered by the San Diego Foundation
University of S	San Diego
2014	iPad Classroom Project Panelist for the Technology Showcase
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	
2014	Faculty Marshall for Graduation
2012-2013	Member, Action Research Committee
2011-2012	Co-Director, 9 th Annual 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
2008-2009	Workshop sponsored by Longview Foundation Search Committee Member, Educational Technology position
2008-2009	Member L & T admissions committee for MSTE and single subject
2008-2009	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
2006-2009	Speakers series on Math and Science Education Faculty representative for Prospective Students' Lunch with Faculty Day
2000-2003	racing representative for r tospective students. Euron with racinty Day

2006-2007 Faculty representative, San Diego Secondary Teacher Recruitment Fair Curriculum & Teaching redesign *ad hoc* committee

LEARNING & TEACHING

2013 C	hair, On-line M.Ed. Coordinator Search Committee
2011-2012 P	rogram Coordinator, Secondary Master's Cohort Credential (MCC)
2011-2012 M	lember, Course Budget Committee
2011-2012 C	hair, Ad hoc International Requirement Committee

OTHER PROFESSIONAL SERVICE

Educational Consultant:

2012-2013	•Assessment writer: A Pass Educational Group
2012	•Author: National Science Teachers Association (NSTA) Variation and Heredity
	SciPack
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

- 2009-2014 Performance Assessment for California Teachers (PACT) scorer
- 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 (CSETTM)
- 1999 & 2002 Team member for WASC: Accrediting Commission for Schools to Maui High School.

PROFESSIONAL AFFILIATIONS

- American Educational Research Association (AERA)
- National Science Teachers' Association (NSTA)
- National Association of Research in Science Teaching (NARST)
- Association of Science Teacher Educators (ASTE)

- California Science Teachers' Association (CSTA)
- International Council on Education for Teaching (ICET)
- Computer-Using Educators (CUE)
- Collaborative Action Research Network (CARN)