

CURRICULUM VITAE
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Fields of Specialization/Research Interests

Learning Space Design
Technology and 21st Century Learning
School Leadership in a Technological Society

Education

Doctor of Philosophy (1987), Secondary Education, University of Arizona
Master of Education in Educational Media (1978), University of Arizona
Bachelor of Arts in Secondary Education (1976), Social Studies, University of Arizona

Professional Experience

President, 21 st Century Learning Group,	2005 - present
Faculty Lead, Second Life Implementation, University of Arizona	2008 - present
Adjunct Lecturer, University of Arizona, South	2005 - present
Adjunct Assistant Professor, Educational Psychology, University of Arizona	1995 - present
Adjunct Assistant Professor, Educational Leadership, University of Arizona	1996 - present
Senior Consultant, Learning Technologies	2004 - 2005
Director, Digital Media Resource Center, University of Arizona	2002 - 2004
Director, Humanities Computing and Technology, University of Arizona	1985 - 2002
Adjunct Lecturer, Humanities, University of Arizona	1987 - 2002
Project Coordinator, Physics and Linguistics, University of Arizona	1978 - 1985
Associate Site Director, Lab for Computer - Based Instruction, University of Arizona	1980 - 1985
Associate Faculty, Pima Community College, Tucson, Arizona	1978

Publications

Articles

Point/Counterpoint: Should We Establish National Web Filtering Standards? *Learning & Leading with Technology*, September/October 2008
Drawing a Roadmap: Barriers and Challenges to Designing the Ideal Virtual World for Higher Education, *EDUCAUSE review*, September/October 2008, Vol. 43, No. 5
Design of the Learning Space, With Cyprien Lomas, *EDUCAUSE review*, July/August 2005, Vol. 40, No. 4
An Overview of Student Responder Systems, *Wakonse - Arizona E - Newsletter*, Fall 2004, Vol. 3, Issue 1 (http://clte.asu.edu/wakonse/ENewsletter/studentresponse_idea.htm)

- Helping Higher Education Faculty Clear the Instructional Technology Hurdles, With J. Lee, *Educational Technology Review*, Autumn/Winter 1998, No. 10
- Authentic Assessment of Leadership Knowledge, Performance, and Dispositions: Portfolio Development in Educational Leadership, With D. Clark, R. Hendricks, S. Parker, and R. Ecelbarger, *Proceedings of the 1997 - 1998 Dean's Forum: The Advancement of Knowledge and Practice in Education*, College of Education, University of Arizona, 1998
- Time and Design Constraints of Developing Multi - Branching Language Instruction, *Teachers of English to Speakers of Other Languages Newsletter*, Vol. III, December 1986
- Interactive Authoring Languages for Computer - Based Instruction, *IEEE Phoenix Conference on Computers and Communications, 1985 Conference Proceedings*, Phoenix, Arizona, March 1985
- TenCORE and PC PILOT: A Comparison of Two Authoring Languages - Part I, *Interactive Learning International*, 1 (2), October - December 1984
- TenCORE and PC PILOT: A Comparison of Two Authoring Languages - Part II, *Interactive Learning International*, 2 (1), July - September 1984
- Improving Computer - Assisted Foreign Language Learning, With P. Dunkel, *Proceedings of the Arizona State University Conference on Microcomputers in Education*, Tempe, Arizona: Arizona State University Press, 1983

Chapter

- Sustaining and Supporting Learning Spaces, in *Learning Spaces*, D. Oblinger, ed. EDUCAUSE, 2006 - (<http://www.educause.edu/learningspaces>)

Other

- Transforming Education: Enabling Learning for All Arizona Students, The Arizona Long - Range Strategic Educational Technology Plan, 2009
- Arizona Educational Technology Plan Revision, 2007
- Arizona Educational Technology Plan: Adding the Sixth "C" to the Economic Picture, Co - edited with Ruth Catalano and Chris Castillo, 2004
- Arizona State Content Standards - Technology, Arizona State Department of Education, Co - Author, May - September, 2000

Software

Non - Commercial

- Selecting and Developing the 21st Century Principal - Assessor Data Collection and Center Director Package, National Association of Secondary Principals, 1999
- Arts of the First Americans - Principal Investigator, Arizona Commission on the Arts and National Endowment for the Humanities, 1994
- Desert House - An Interactive Kiosk, Design Consultant - Desert Botanical Gardens, Phoenix, Arizona, 1994

Commercial

- Lower Division Engineering Curriculum: Second - Semester - Calculus - Based Physics: Electricity and Magnetism, Project Coordinator for 15 lessons, Control Data Corporation, 1986
- Faraday's Law and Lenz's Law, With I. Novodvorsky, Control Data Corporation, 1986
- Problem - Solving and the Biot - Savart Law, With I. Novodvorsky, Control Data Corporation, 1986
- Using the Physics II Lessons, Control Data Corporation, 1986
- Lower Division Engineering Curriculum: First - Semester Calculus - Based Physics: Classical Mechanics, Project Coordinator, 35 lessons, Control Data Corporation, 1984

Grants

Received

Provost's Classroom Improvement Grant, 1995

University of Arizona grant to improve mobile computing within the College of Humanities, from the Provost's Office, \$21,000

Arts of the First Americans: Hopi Kachinas - A Hypermedia Database, 1992

Collaborative grant with Orange Grove Middle School, Humanities Computing and Technology, and KUAT Television, from the Arizona Commission on the Arts, Collaborative Initiative Grant program, \$18,890

21st Century Curriculum Development Grant, 1992

University of Arizona grant to develop a program in Multi - Cultural Technical and Business Communication, from the Office of the Dean, Faculty of Humanities, \$5,000

Planning Grant for Arts of the First Americans, 1991

Collaborative grant with KUAT Television and Orange Grove Middle School, from the Arizona Commission on the Arts, Collaborative Initiative Planning Grant, \$2,000

Development of Poetry to Go, 1991

Videotape program to commemorate the 30th Anniversary of the Poetry Center, from the Vice President for Research, University of Arizona, and Tucson Community Cable Corporation, \$3,600

Developing Interactive Videodisks for Teaching Language - German, 1990

Program using the German Language and Culture videodisc and an interactive video system, University of Arizona - Small Grants Program, Office of the Provost, \$4,080

Reviewer

HP Technology for Teaching Grant Initiative, Higher Education HP and the International Society for Technology in Education, 2005 - present

Preparing Tomorrows Teachers to Use Technology (PT3), United States Department of Education, Washington D.C., 2003

Fund for the Improvement of Post Secondary Education, Phoenix, 2001

Fund for the Improvement of Post - Secondary Education - Learning Anytime, Anywhere Partnership, Phoenix, 2001

District Technology Plans (developed evaluation rubric and reviewed plans), Arizona State Department of Education, 1998 - 2006

Technology Learning Challenge Grants, Arizona State Department of Education, 1997 - 2003

Technology Literacy Challenge Grants, United States Department of Education, Washington D.C., 1997

Presentations/Papers

Keynote Addresses

Educating the Google Generation - Gateway Technology Solutions Conference, Tucson, Arizona, March 2003

Who Moved My Cheese? A Journey Toward Wisdom - Leadership Graduation, Maricopa Community Colleges, Chandler, Arizona, August 2000

Who Moved My Cheese? A Journey Toward Wisdom - Tucson Unified School District's Summer Technology Institute, Tucson, Arizona, May 2001

Who Moved My Cheese? A Journey Toward Wisdom - Estrella Mountain Community College, Avondale, Arizona, April 2001

Who Moved My Cheese? A Journey Toward Wisdom - Northern Arizona Peak Performance Technology Conference, Flagstaff, Arizona, August 2000

Who Moved My Cheese? A Journey Toward Wisdom - Eighth Annual Arizona Technology Conference: Learning and Teaching in a Digital World, Mesa, Arizona, August 2000

Plus seven others in the period of 1997 to 1999

International

- Implementing a Presence in Second life: Pitfalls, Procedures, Policies, and Promises. - With Phillip Long and Gardner Campbell. [Innovation demonstration] EDUCAUSE Learning Initiative Annual conference, San Antonio, Texas, January, 2008.
- Learning Space Design for the 21st Century - With Cyprien Lomas [Half - day workshop] EDUCAUSE Southeastern Regional Conference, San Francisco, California, June, 2006.
- Learning Spaces - With Cyprien Lomas [Half - day workshop] EDUCAUSE Western Regional Conference, San Francisco, California, April, 2006.
- Evaluating and Planning Learning Spaces: Physical, Virtual, and Blended - with Phillip Long, Steve Ehrmann, and Cyprien Lomas [half - day workshop] EDUCAUSE 2005 Annual Conference, Orlando Florida, October, 2005
- Learning Space Design Constituency Group Meeting - EDUCAUSE 2005 Annual Conference, Orlando Florida, October, 2005
- Learning Space Design for the 21st Century - With Cyprien Lomas [Half - day invited workshop] EDUCAUSE Southwest Regional Conference, Austin, Texas, February, 2005.
- Learning Space Design - With Philip Long, [Invited Session] EDUCAUSE Annual Conference, Denver, Colorado, October, 2004.
- Principles of Learning Space Design Illustrated by Case Studies - With Malcolm Brown, Dan Gilbert, and Phillip Long [Invited Session] National Learning Infrastructure Initiative, Learning Space Design for the 21st Century Fall Focus Session, Boston Massachusetts, September, 2004
- Learning Space Design - With Dan Glibert and Philip Long [Featured Session] New Learning EcoSystems, National Learning Infrastructure Initiative, Annual Member Meeting, San Diego, California, January 2004

Plus five others in the period of 1990 to 1996

National

- Technology Planning in Arizona Schools: What Works? - Panel Discussion, Microcomputers in Education Conference, Arizona State University, Tempe, Arizona, March 1999
- Legal Issues and Liabilities of Using Technology in Education - Effective Schools Project - 12th Annual Instructional Leadership Conference, Tarleton State University, Stephenville, Texas, May, 1997
- Being a Change Agent: Overcoming Obstacles in Implementing Curriculum Innovation - Effective Schools Project - 12th Annual Instructional Leadership Conference, Tarleton State University, Stephenville, Texas, May, 1997
- An Introduction to Macromedia Director - [Workshop] American Association of Physics Teachers, Winter Meeting, San Diego, California, January, 1994

Plus eight others in the period of 1985 to 1990

State

- Joining a Community of Practice: The Benefits of Joining AzTEA and ISTE. Microcomputers in Education Conference, Phoenix, March 2009.
- Join the Exciting World of Second Life - Teaching and Technology Conference, Arizona Technology in Education, Tucson, Arizona, January 2008
- So, Exactly What Does a 21st Century Learner Look Like? - Way Out West Conference, Arizona Technology in Education, Phoenix, Arizona, April 2007

So, Exactly What Does a 21st Century Learner Look Like? - Teaching and Technology Conference, Arizona Technology in Education, Tucson, Arizona, January 2007
Net Generation Learners - Arizona Business Education Association's Spring Conference, Phoenix, Arizona, April 2006
21st Century Tools - Arizona Business Education Association's Spring Conference, Phoenix, Arizona, April 2006
21st Century Information Tools - Way Out West Conference, Arizona Technology in Education, Phoenix, Arizona, April 2006
Exploring Over the Horizon: Emerging Technologies - 14th Annual Teaching and Technology Conference, Arizona Technology in Education, Tucson, Arizona, January, 2006

Plus Sixty - five others in the period of 1990 to 1999 including 15 professional development workshops for a total of sixty - nine presentations during this period

Instructional Activities

Courses Taught

Agricultural Education
Collaborative Leadership, Discussant Section Leader
Educational Leadership
Computer Applications in Administration
Educational Psychology
Computer Applications in Education
Design of the Learning Environment
Developing Electronic Portfolios
Issues in Implementing Technology in Education
Multimedia Production in Education
Educational Technology
Advanced Multimedia
Emerging Technologies
Emerging Technologies in Education
Introduction to Instructional Design
Introduction to Technology in Education
Multimedia Applications in Education
Social Computing
Graduate College
Using Technology in Teaching

Academic Service Activities

National

Affiliate Member Committee, International Society for Technology in Education, 2009 - present
National Council for Accreditation of Teacher Education, Board of Program Reviewers, Technology Facilitator and Technology Leadership programs, 2005 - present
Member, Governing Board, The Gateway to Educational Materials (GEM), 2005
Participant, National Forum on 21st Century Skills, Partnership for 21st Century Skills, Tucson, Arizona, March 2003

State

Member, Arizona Technology in Education Alliance, 1998 - present (Board Member 2000 - present: Southern Regional Director, 2000 - 2001, President - Elect, 2006, President 2007 - 2009, Past - President and Affiliate Representative, 2009 - present)

Member and Lead Author, Arizona State Department of Education, Technology Plan Revision Team, 2008 - 2009
Member, Arizona State Department of Education, Educational Technology Standard Revision Team, 2008 - 2009
Member, State Superintendent of Public Instruction's Blue Ribbon Task Force on Technology, 2004 - 2005
Member, Cox Education Network Advisory Committee. 2002 - 2003
Co - Editor, Arizona Educational Technology Plan Adding the Sixth "C" to the Economy, Arizona State Department of Education, 2002
Co - Author, Arizona State Content Standards - Technology, Arizona State Department of Education, May - September, 2000
Member, Arizona Educational Media Association, 1990 - 2000 (South - Eastern Regional Director, 1994 - 1996, President Elect, 1996 - 1997, President: 1997 - 1998, Past - President, 1998 - 1999)

Conference Planning and Coordination

ISTE 2010, Poster Session Chair, International Society for Technology in Education
EDUCAUSE Learning Initiative, Fall Focus Session on Informal Learning Space Planning Team, August, 2005
National Learning Infrastructure, Fall Focus Session on Formal Learning Space Design Planning Team, October, 2004
Center for Language Education and Research, Program Coordinator, 2002
Partnership Across Languages, Tucson, Arizona, May, 2001
CALICO 2000, University Coordinator
Computer Assisted Language Instruction Consortium's international conference May 1999 and May 2000
Foreign Language Fair, Technology Coordinator/Planner/Master of Ceremonies
College of Humanities, University of Arizona, Tucson Arizona, 1998 - 2002
Teaching and Technology, Annual Conferences, conference planner
Tucson Area Council on Technology and the College of Education of the University of Arizona, Tucson, Arizona, 1993 - 2003
12th Annual Instructional Leadership Conference, conference planner
Tarleton State University, Stephenville, Texas, December, 1997
Second Language Teachers Symposium, Technology Coordinator/Planner
College of Humanities, University of Arizona, Tucson Arizona, 1985 - 2001

Community

Evaluation Team Member, North Central Association, Green Fields Country Day School, Tucson, Arizona, 2005
Evaluation Team Member, North Central Association Evaluation Canyon Del Oro High School, Tucson, Arizona, 2002 - 2003
Member, K - 16 Consortium - Communication and Technology Sub - Committee, 1996
Member, Phi Delta Kappa, Southern Arizona Chapter, 1982 - 1987 (Chairperson - Nominating Committee, 1986)
Member, Tucson Area Council on Technology, 1992 - 2000 (Chair: 1994 - 1997)

University of Arizona

Faculty Lead, The University of Arizona in Second Life Implementation, 2007 - present
Ad Hoc Member - Faculty, Information Technology Student Advisory Board, 2006 - present
Member, General Education Review Committee, 2004 - 2005
Member, Computer Strategic Alliance Committee, 2004

Founder and Co - Chair, Dean's Information Technology Council, 2003 - 2004
Member, Learning Technologies Partnership, 2002 - 2004
Chair and Lead Author, University of Arizona Strategic Information Technology Plan, 2001
Chair, Carnegie Campus Conversations on the Scholarship of Teaching and Learning, 2001
Member, Information Technology Council, 2000 - 2002
Member, Faculty Development Partnership, 1999 - 2002
Member, Web - Tools Committee, 1998 - 2001
Plus nine other committees in the period of 1990 to 1999

College of Humanities - University of Arizona

Member, Business Affairs Team, 1997 - 2002
Member, Instructional Affairs Team, 1997 - 2002
Member, External Affairs Team, 1997 - 2002
Quality Focal Point, College of Humanities, 1995 - 1997
Member, Dean's Development Advisory Committee, 1993 - 1995
Co - Chairperson, Language Research and Instruction Committee, 1989 - 1993
Member, Language Research and Instruction Committee, 1985 - 2002

Consulting

21st Century Learning Group

College of Science Teacher Preparation Program, 2008 - present
Tucson Committee on Foreign Relations, 2008 - present
Office of the Vice Provost for Instruction, University of Arizona, 2007 - 2009
Water's System Thinking Project, 2006 - present
Research Compliance Consulting, 2007
ACE Charter School, 2005
Tanque Verde School District, Tucson, Arizona, 2005

Technology Planning

Arizona State Department of Education, 2008 - 2009
Amphitheatre School District, 2002 - 2003
Apache Junction Unified School District, Apache Junction, Arizona, 1999
Marana Unified School District, Marana, Arizona, 1998 - 2002
Tanque Verde School District, Tucson, Arizona, 1998 - 2001
Tucson Unified School District, Tucson, Arizona, 1998 - 2001
Edge Charter School, Tucson, Arizona, 1997
Sunnyside School District, Tucson, Arizona, 1993 - 1995

Software Design and Development

National Association of Secondary School Principals, Reston, Virginia, 1997 - 2001
Control Data Corporation, Minneapolis, Minnesota, 1983 & 1986
KAJ Software, Phoenix, Arizona, 1984

Other

Indian Health Services, Tucson, Arizona, 1993
National Advanced Resources in Technology Center, U.S. Forest Service, Marana, Arizona, 1993
Apple Consulting Educator, Apple Computer Inc., Cupertino, California, 1991 - 1994

Professional Affiliations

- Arizona Technology in Education Alliance
- Association for Supervision and Curriculum Development
- EDUCAUSE
- EDUCAUSE Learning Initiative
- International Society for Technology in Education

Academic and Professional Awards

2009 ISTE Public Advocate of the Year, Trendsetter Award, International Society of Technology in Education

AzTEA Leadership Award, Arizona Technology in Education Alliance, 1999

Arizona Educational Media Association's 1992 Special Service Award, 1992

University of Arizona Scholarship Honors, 1974 - 1975

Arizona Educational Media Association, Best Slide/Tape Program, College Level for *The Indian Wars Army*, 1977

Certifications

Apple Certified Professional, Final Cut Pro, Level I

Community College - Lifetime

Community Activities

Activities

Tutor and web master, Literacy Volunteers of Tucson, 2007

Web master, Southern Arizona Center Against Sexual Assault, 2000

Arizona Special Olympics Board of Directors, 1991 - 1993 (Secretary 1992 - 1993)

Trainer, Non - Profit Boards of Directors, Special Olympics International, 1993 - 1994

Special Olympics Coach and Referee, 1989 - 1997

Awards

Chairman's Award: 1993 Outstanding Board Member, Arizona Special Olympics, Volunteer Board of Directors, 1993

Nominee, J.C. Penney/Volunteer Center, Golden Rule Award, 1992

Carnation Community Service Award, Group Award

Member, Department of Economic Security - Division of Developmental Disabilities (Arizona Training Program at Tucson) Special Olympics Coaching Staff, 1991