

V I T A E

C E R T I F I C A T I O N   A N D   L I C E N S I N G

Leadership in Energy and Environmental Design (LEED) 2.0 Professional Accreditation, 2002

Registered Architect, Oregon, 1990

N.C.A.R.B. Certificate, 1990

Intern Development Program 1987-1990

E D U C A T I O N

Ph.D. candidate, Geography Dept., University of California, Santa Barbara

M.Arch. University of Oregon, March 1987

B.S., Math. University of California, Santa Barbara, June 1980

B.A., French, University of California, Santa Barbara, June 1980

A C A D E M I C   E X P E R I E N C E

**Professor, California Polytechnic State University, San Luis Obispo** Jan 1992-present

Teaching areas include historic preservation, building science (heating, cooling, lighting, water, waste, and acoustics) and architectural design studio courses with emphasis on adaptive reuse.

**Co-director, Renewable Energy Institute** Aug 1993-present

California Polytechnic State University, San Luis Obispo.

**Interim Director, Architecture Department** Sept 2002-Dec 2003

California Polytechnic State University, San Luis Obispo

**Research Assistant** Jan 1989-Dec 1991

Center for Housing Innovation, Department of Architecture and Department of Architecture, University of Oregon, Eugene, Oregon. Researcher on future development of computer tools in industrialized housing and for the Department of Energy's Advanced Energy Design and Operation Technology Project (AEDOT).

**Graduate Research Fellow** September 1985-September 1986

Dept. of Architecture, University of Oregon. Designed software specifications for energy software package under development in the Energy Studies in Buildings Lab funded through a F.I.P.S.E. grant.

A D V I S I N G   &   C O N S U L T I N G   E X P E R I E N C E

**Mission San Miguel – Historic Structures Report** November 2007-March 2008

Faculty Coordinator for Cal Poly Architecture and Architectural Engineering student internships on Getty Foundation grant for research and documentation leading to a historic structures report.

**AIA Sustainability in Architectural Education Summits** Sept 2006, Feb 2007

Invited to Washington, DC as academic advisor on curriculum for practitioners and students.

**Sustainable Environments Minor Advisor, Cal Poly-San Luis Obispo** Sept 2003-present

Advise university students on minor requirements for the interdisciplinary degree program.

**Sustainability and Design Consultant, St. Benedict's Parish, Los Osos, Calif.** Oct 1997-Feb 1998

Conducted architectural programming workshops including the application of sustainability concepts to schematic design with Dennis Thompson Architects from Santa Barbara. (\$2000)

**Consulting Team Leader, CSUMB Master Plan** Oct 1995-1997

Sustainable design and planning consulting to lead master plan architects Sasaki & Associates, San Francisco, for the CSU-Monterey Bay campus. (\$27,000)

**Consulting Team Leader, CSUMB Phase One Buildings Renovation** Sept 1994-Oct 1995

Environmental Responsibility (sustainability) expert with San Luis Obispo Solar Group for CSU - Monterey Bay Facility Planning Office. (\$9,999)

**Consulting Team Member, Lompoc Wastewater Treatment Building** March 1996-Oct 1996

Environmental responsibility and energy consulting. (\$1000)

## SELECTED WORKS

**Software**

"Energy Scheming", Macintosh software for energy analysis. Graduate student team member in research and development between 1985-1987 of energy software (release in October 1993).

**Video Presentations**

*Solar Energy*. Interviewed for consumer solar energy corporation film on photo-voltaics, produced by REC Solar, Los Osos, California, 2005, DVD.

*Sustainable Architecture; Sustainable Environments*. Interviewed for videos produced and directed by Joe and Jora Clokey, 38 min. and 35 min., San Luis Video Publishing, 1995, videocassette.

## SELECTED PUBLICATIONS, WORKSHOPS &amp; PRESENTATIONS

McDonald, Margot, William Leddy, FAIA, and Brad Jacobson. "An Integrated Design Eco-charrette: A Model for Sustainable Campus Building and Landscape Design (for Cal Poly San Luis Obispo)" panel presentation at US Green Building Council/(USGBC) *GreenBuild 2007*, Chicago, November 2007.

McDonald, Margot. Facilitator for US Green Building Council/Autodesk Educators' Summit on "Sustainable Design Curriculum", at *Greenbuild 2007*, Chicago, November 2007.

McDonald, Margot. "Eco-literacy: Are Architecture Schools Failing the Environment?", American Institute of Architects National Convention (*AIA 2007*), San Antonio, Texas, May 2007.

McDonald, Margot and with Dr. Debra Rowe, President, U.S. Partnership for Education for Sustainable Development. "Education for Sustainable Energy Careers" forum at the 36<sup>th</sup> *Annual American Solar Energy Society Conference*, Cleveland, Ohio, July 2007.

McDonald, Margot, Prof. Robert Koester (Ball State University), Prof. Mary Guzowski (U. Minnesota), Prof. Jim Wasley (U. Wisconsin). "Teaching Sustainability in Schools of Architecture: Models from the *Ecology and Design Report*" forum at the 36<sup>th</sup> *Annual American Solar Energy Society Conference*, Cleveland, Ohio, July 2007.

McDonald, Margot. Facilitator for US Green Building Council Educators' Circle Forum and Education Session at *Greenbuild 2006*, Denver, Colorado, November 2006.

McDonald, Margot. Research cited in *Ecological Design and Building Schools* by Sandra Leibowitz Earley. Oakland, California: New Village Press, 2005.

McDonald, Margot. Climate workshop at *Sustainable By Design*, Denmark's International Studies (DIS), Copenhagen, Denmark, November 2005.

McDonald, Margot. Facilitator for USGBC Educators' Circle Forum at *Greenbuild 2005*, Atlanta, Georgia, November 2005.

McDonald, Margot, Jonathan Reich, and Paul Wack. "Teaching Sustainability: A Decade of Lessons Learned in the College of Architecture and Environmental Design at Cal Poly-San Luis Obispo", panel presentation, *Education for Sustainability (EFS West) Conference*, Portland, Oregon, October 2004.

McDonald, Margot, PI. *SEDE: Sustainable Environmental Design Education Curriculum Project*, Final Report, California Integrated Waste Management Board, Sacramento, California, May 2004.

McDonald, Margot. "Climate" and "Sustainability" entries, *Encyclopedia of 20<sup>th</sup> Century Architecture*, Stephen Sennott, editor, London: Fitzroy Dearborn Publishers, December 2003.

McDonald, Margot, Ken Haggard, Polly Cooper, and Cathy Corlett. "Sustainable Design Curriculum (SEDE): A Curriculum Model for Architects and Landscape Architects", presentation and paper in the *Proceedings of the 28<sup>th</sup> National Passive Conference, American Solar Energy Society*, Austin, TX., June 2003.

McDonald, Margot. "Climate", chapter in book, *Cal Poly Land: A field guide*, Stephen Marx, editor, Santa Maria, CA: Accurate Color Printing, 2002.

McDonald, Margot. "GIS and Site-scale Planning", presentation and paper for the 4<sup>th</sup> *International Conference on GIS and Environmental Modeling*, Banff, Canada, Sept. 2000.

McDonald, Margot. "Post-Occupancy Presidio: Predicted versus Actual Performance of Energy and

- Lighting”, presentation and paper in the *Proceedings of the 23rd Annual American Solar Energy Society Conference*, Albuquerque, New Mexico, June 1998.
- McDonald, Margot. “Green Architecture and Sustainable Communities in the Netherlands”, presentation and paper in the *Proceedings of the 22nd Annual American Solar Energy Society Conference*, Washington, D.C., May 1997.
- Panetta, Dan and Margot McDonald. “Resource Recovery Facility”, presentation and paper in the *Proceedings of the Green Building Now Conference*, Santa Barbara City College, Santa Barbara, CA, June 1996.
- McDonald, Margot. “Towards a Sustainable Campus Infrastructure”, presentation and paper in the *Proceedings of the ACSA European Conference*, Copenhagen, Denmark, May 1996.
- McDonald, Margot. “Expanding the Boundaries of Architectural Energy Education: Making a Path to Sustainable Communities”, presentation and paper in the *Proceedings of the 21st Annual American Solar Energy Society Conference*, Asheville, North Carolina, April 1996.
- McDonald, Margot, Dan Panetta and Doug Williams. “Sustainable Campus Infrastructure”, presentation and paper in the *Proceedings of the First Annual Greening of the Campus Conference*, Ball State University, Muncie, Indiana, April 1996.
- McDonald, Margot. “CSUMB: Base Conversion as an Opportunity for Sustainable Design”, presentation and paper *Proceedings of the 20th Annual American Solar Energy Society Conference*, Minneapolis, July 1995.
- McDonald, Margot. "Ecological Cities: An Exploration of Sustainable Design at the Urban Scale", presentation at *International Making Cities Livable Conference*, San Francisco, CA, February 1994.
- Minks, William, Harold Johnston and Margot McDonald. "Specifications, Regulations, and Planning for Pro-Active Construction Waste Management Programs", paper presented at the *Los Angeles Chapter of the Construction Specifications Institute Conference*, Pasadena, California, May 1994.
- McDonald, Margot and Jennifer Rennick. "Los Osos: A Sustainable Community within a Sustainable Watershed", *Proceedings of the 19th Annual American Solar Energy Society*, San Jose, CA, June 1994.
- McDonald, Margot and Dan Panetta. "Creating Vital and Ecological Communities", *Resource: Journal of the American Society of Agricultural Engineers*, September 1994.

RESEARCH GRANTS & RELEASE TIME

March 2007	Renovation of the Old Power House, Cal Poly-San Luis Obispo – California Cultural and Historical Endowment, Office of the Library, State of California (submitted and pending approval, \$780,000)
January-June 2007	edGE – Educating Global Engineers, National Science Foundation Grant to Dr. Linda Vanasupa, Principal Investigator, Materials Engineering Dept., College of Engineering, Cal Poly-SLO (40 hours release time)
May 2002-04	“Sustainable Environmental Design Curriculum” California Integrated Waste Management Board, Sacramento, CA (\$50,000)
Fall 1998	“Energy and Lighting Post-Occupancy Evaluation of the Thoreau Center for Sustainability at the San Francisco Presidio” Cal Poly - State Faculty Development Grant (60 hours Release Time)
Fall 1997	“Case Studies for Adaptive Reuse in the Built Environment: Creating a Database for Buildings & Their Performance Characteristics” Cal Poly - State Faculty Development Grant (60 hours Release Time)
Summer 1997	“E2R2 Resource Recovery Facility” California Institute for Energy Efficiency Grant with additional funds from Cal Poly; Contract: ~ \$200,000. Dan Panetta, PI. (My contract: \$2000 for arch. programming.)
Summer 1996	“Preservation and Adaptive Re-use of the Built Environment as a Means to Sustainable Design” Cal Poly University Services Grant (\$1500)
Spring 1996	“The Greening of the Campus” Cal Poly Affirmative Action Grant (\$1800)

Winter/Spring 1995 "Proposal for a Campus Integrated Infrastructure at Cal Poly-SLO", Facilities Planning, Cal Poly-SLO. (60 hours assigned time for two quarters)

Fall 1994 "Sustainable Design and Green Architecture: Developing a Knowledge Base for Renewable and Low Energy Opportunities in Building Systems", Affirmative Action Faculty Development Grant, 1994-95.

RELATED PROFESSIONAL DESIGN EXPERIENCE

**Design Juror** August 2006  
 Leading Edge Energy Competition 2006. Select award-winning designs from community colleges and university student entries in competition for interpretive building museum on a former Orange County Air Force Base.

**Architect / Intern Architect** Nov 1990-Dec 1991 / Mar 1987-Oct 1989  
 Thallon & Edrington Architects, Eugene, Oregon. Project Architect on small-scale commercial, multi-family and residential projects.

**Intern Architect** Nov 1989-Oct 1990  
 Robertson/Sherwood Architects pc, Eugene, Oregon. Schematic design and architectural facilities programming, construction documents, construction administration, on public projects including libraries, hospitals, community center, parks and recreation operations and maintenance center, and office buildings.

BOARD ACTIVITIES

**Member, Board of Directors, American Solar Energy Society** Jan 2006-2009  
**Chair, US Green Building Council Formal Education (K-20) Committee** May 2005-2009  
**Chair, SOLAR 2004, National Passive Conference, American Solar Energy Society** July 2004  
**Program Coordinator/Evelyn and Harold Hay Fund / SBSE Program** Sept 1999-present  
 Managed a \$100,000 grant program for donor, Harold Hay. The funds have been designated for faculty members of the Society of Building Science Educators who make proposals consistent with the goals of passive solar and water in architecture. Two grants (approx. \$20,000 each) awarded.  
**President/Vice-President, Solar Buildings Division, American Solar Energy Society** Jun 1998-1999  
**President, Society of Building Science Educators** Nov 1997-1999  
**Committee Member, Cultural Heritage Committee, City of San Luis Obispo** Sept 1997-1999  
 Prepared National Register Nomination for the Ah Louis store in SLO and a new city-based Chinese historic district zoning overlay, managed a public art mural competition for Chinatown, SLO and assisted with an adobe reconstruction project at La Loma Adobe, SLO.  
**Advisory Board Member, The Sustainability Project/Vice-President** Sept 1994-1995  
 Founding member and previous Vice-President of the Executive Board of the tri-county sustainability organization, The Sustainability Project. This organization is a coalition of non-profits: the Architectural Foundation of Santa Barbara, Community Environmental Council, and Renewable Energy Institute.

AWARDS & RECOGNITION

**AIA/COTE Eco-literacy Award** 2005  
 Recognized for Sustainable Environments curriculum (courses, minor, and research project).

**City of San Luis Obispo Appreciation Award** 1999  
 Recognized for documenting and designating Chinatown District in SLO.

**U.S. President's Council on Sustainable Development** 1996

Team recognition for the AIA/UIA Sustainable Community Solutions Competition Award.	
<b>Wesley Ward Teaching Award</b>	June 1995
Awarded scholarship funds to be used in teaching enrichment during 1995-96 academic year.	
<b>Leading Edge Student Energy Design Competition</b>	June 1995
Faculty Advisor for two student teams who were awarded Honorable Mentions.	
<b>Sustainable Community Solutions Design Competition Winner</b>	June 1993
American Institute of Architects/International Union of Architects (406 entries worldwide).	

#### MEMBERSHIPS / ORGANIZATIONS

- A.C.S.A.** (Association of Collegiate Schools of Architecture)
- A.I.A. COTE and HRC** (American Institute of Architects, Southwestern Oregon Chapter, Committee on the Environment and Historic Resources Committee)
- A.S.E.S.** (American Solar Energy Society)
- C.P.F.** (California Preservation Foundation)
- I.A.L.D.** (International Association of Lighting Designers)
- S.B.S.E.** (Society of Building Science Educators)
- U.S.G.B.C.** (US Green Building Council)
- U.S./I.C.O.M.O.S.** (US Committee/International Council of Monuments and Sites)