

## VITAE-2010

### CANDACE L. GOSSEN

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## EDUCATION & SPECIALTY TRAINING

### **Ph.D. Environmental Science and Resources**

Fall 2010. Portland State University  
[“Deforestation, Drought and Humans: New Discoveries of the Late Quaternary Paleoenvironment of Rapa Nui \(Easter Island\).”](#)  
Research specialty: Human Impact and the Environment; Paleoecology, Palynology, Deforestation and Climate Change; Sustainability.

**Post-grad** Anthropology/Spanish/Multi-media graphics  
Portland State University, Oregon

### **Master of Science, Building Design- Architecture**

Spring 1993. Arizona State University, Tempe.  
["Adobe, Rammed Earth, and Wood: An Energy-Based Environmental Analysis of Residential Construction in Phoenix, Arizona."](#)

### **Bachelor of Architecture, with a minor in Anthropology**

Spring 1986. University of Southwestern Louisiana, Lafayette.  
5yr professional degree.

**Honors program:** Summer Enrichment Program for higher learning high school students, 1976, 1977, 1978 studying computer science.  
Univ. of Southwestern Louisiana

## PROFESSIONAL CREDENTIALS & HONORS

**Archaeologist and Surveyor**-GPS Total Station

**Climbing** - AMC Advanced Climbing and Rescue Training; Mazama member; Ground Rigger for concert/theatre productions

**NAUI Openwater Scuba Certified**

**Arizona Community College** Teaching Certificate. State Board of Directors, State of Arizona. *Architecture and Environmental Studies.*

**Certified Instructor** Systems of Offshore Survival, Marine Offshore Survival Training Center. Lafayette, Louisiana.

**Alpha Rho Chi Medal** – Service Leadership Merit ---Professional Architectural Fraternity Award 1986.

Louisiana Architects Association **1985 Educational Travel Scholarship.** Office of **President, V. President, and Secretary** of the student council of AIA 1982-1986

## PROFESSIONAL FUNDING

### **NATIONAL GEOGRAPHIC SOCIETY RESEARCH GRANT**

November 2008 *Climate Change Research Easter Island*

Awarded – \$15,000

**NATIONAL SCIENCE FOUNDATION** Research Grant in  
Archaeology, Division of Behavioral Sciences

*Climate Change, Human Impacts and Social Transformation  
on Easter Island* (outstanding proposal for \$200k 2009-2012)

### **PORTLAND STATE UNIVERSITY**

Professional Development Fund for Part-Time Faculty Awards:

Winter 2009 - \$300 pollen processing Mat cores RKE08

Spring 2008 - \$500 to help in the field collection of cores

Summer 2008 - \$1200 for assistance in sediment core analysis

### **EARTHWATCH/AVIVA**

November 2007 - Awarded \$10,000 to Chris Stevenson and Candace Gossen to study Climate Change in the last 1,000 years on Rapa Nui.

### **EASTER ISLAND FOUNDATION**

Awards for dissertation support

2/7/2007 \$1600 AMS dating of floating mat of Rano Kao

7/11/2006 \$1800 AMS dating of pollen/sediment Rano Kao

4/24/2005 \$2000 AMS dating seeds Rano Kao

### **PORTLAND STATE UNIVERSITY-Faculty Development Fund**

1 July 2005 - Awarded \$10,000 for Project Title: *Did Climate Change Play a Role in the Demise of Easter Island Culture?*

Other Grants written and pursued: **Society of Women Geographers**, member

## PROFESSIONAL PUBLICATIONS

**HomePower Magazine** Issue 129. Feb/March 2009. p. 48-54. *Solar Stewardship*. (an article written by Patterson/Olsen about Candace)

**Rapa Nui Journal** v. 22, Number 1, May 2008, p. 72-74. [Letter to the Editor, rebuttal to David Addison.](#)

**Rapa Nui Journal** v. 21, Number 2, October 2007, p.105.  
*The Mystery Lies in the Scirpus*

**International Solar Energy Society World Congress 2005.**  
*Prehistoric Solar Innovation and Water Management on Rapa Nui.*  
Conference Proceedings. Orlando, Florida. July 2005

**Office of Sustainable Development**, Emerging Technology grant  
2003. *Residential wastewater treatment solutions.*

**ACSA Technology Conference 2002** – Portland, Or.  
*“HOUSE, What’s in the BOX anyway? Environmental degradation and the wood-frame box—why do humans repeat the patterns?”*

**IAR Poster Session 2001** - ACSA Annual Meeting, Baltimore; AIA Convention and Expo, Denver; ACSA Technology Conference Austin.  
**International Conference:** Turkey

**AIA Earth Day 2001**, "What Makes It Green?" - *Skelton Residence* - an urban retrofit

**The Last Straw, Issue #28, Winter 1999/2000, p.12** *Gonzo Survival Structure*, (the same article also in the *NW Eco Building Guild journal*)

**AIA Earth Day 2000, "What Makes it Green?"** Committee for the Environment exhibit. Design Review for ecologically sustainable buildings. Seattle, Wash. [Gonzo Structure](#)

**H.O.P.E.S. 2000 Design Challenge.** *Ecology of Home.*

**AIA Earth Day 1999, Seattle, Wash.-1999** Committee for the environment exhibit. Presentation of the *Menzies/Stephan Residence* designed by solar7.83 design studio.

**H.O.P.E.S 1999 - Design Competition.** *Equity, Ecology and Sustainability.*

**ASES - Passive Solar Conference, Portland, Maine 1999 –**  
*Rammed Earth and Earth Sheltering: Thermal Mass in the Hot Dry Desert, Two Case Studies*

**ArtBeat '98**, Portland Community College, Cascade and Sylvania  
May 1998 Lecture Series, *"Architecture and Global Energy"*

**Planetary Stewardship Conference**, Univ. of Idaho sponsored by the Borah Foundation, April 1998 *"Eco-culture and Survival: Sustainability vs. Habit and Behavior—Sustainable Structures"*

**1998 H.O.P.E.S. Eco Design Arts Conference**  
April 1998, University of Oregon,  
*"Eco-culture and Survival: ....."*

**21st National Passive Solar Conference, Conference Proceedings.**  
Asheville, North Carolina,  
April 1996. *"Adobe, Rammed Earth and Wood: An Energy-Based Environmental Analysis of Residential Construction in Phoenix, Arizona."*

**4th National Energy-Efficient New Construction Conference.**  
Vancouver, British Columbia,  
September 1996. *"Adobe, Rammed Earth and Wood: An Energy-Based Environmental Analysis of Residential Construction in Phoenix, Arizona."*

**San Antonio Missions** Architectural Research and book published on the Missions along the River in San Antonio, Texas. 1985.

**Submitted but not presented: ASES 2000 and PLEA 2000:** abstract  
*Rammed Earth and Earth Sheltering: Thermal Mass in the Hot Dry Desert, Two Case Studies.*

## EXPERIENCE

### **Portland State University, Oregon**

Winter 2002-Dec 2009

**Adjunct Assistant Professor**-Environmental Science/University Studies/Extended Studies; *Environmental Sustainability UNST 224; Energy & Society Sci321 Environmental Science101; Natural Science Inquiry Sci201/UNST286; Arcology Sci399U. Earth Systems UNST208, Grad School of Education workshops Solar, Water Solutions and Earth and Straw Construction Winter 2009. Freshman Inquiry UNST178- Sustainability.*

### **Saturday Academy and Portland Public Schools, LEAP**

Fall 1999 - current **grades 2nd thru 8<sup>th</sup> science**

**Courses:** *Dragonfly Science for girls; Arch: Mobile Solutions; Architecture Workshop; Solar Solutions; Zoo Habitats; Building Sustainable Structures, Rainforest Ecology.*

### **Portland Community College, Portland, Or.**

Fall 1996 – Summer 2007

**Instructor . Courses:** *ARCH131 - Sustainable Structures; Community Ed classes: Ecological Design; Solar Survival; Straw Bale Workshop; Water Solutions; Global energy; Earth buildings and indigenous architecture; Urban retrofitting, Contractors workshop: green options*

### **solar7.83 design studio. USA and International**

January 1996 – current

**Architect, designer, educator.** Passive solar - low energy ecological building design specializing in earth and strawbale structures.

Sustainability and embodied energy research.

Project list includes: *Gayman Eco House; Douglas Meadows/Human Solutions SB Recycling Center; Skelton Residence; Menzies/Stephan Residence; Tamarack Strawbale Project; Solar - Garage/Studio Retrofit; Gonzo Structure; Soasey Summer Lake Project; Habitat for Humanity, Portland, Strawbale residence, Stilwell Cob Ecohaus; Pacific City Japanese Strawbale House; Tamarack biodiesel project.*

### **Archaeological Investigations NW, Inc. Portland, Or.**

1997 – 1998

**Contract Archaeologist.**

### **T A S C Architects. Scottsdale, Az.**

November 1995 – June 1996

**Independent Contractor.** Consultant- residential custom and remodeling design including interiors, presentation drawings and renderings.

### **R E I. Tempe, Az. and Jantzen Beach, Portland, Or.**

June 1992 – October 1996

**Climbing/Camping Lead Specialist.** Managing and coordinating a team of 17 people responsible for 1.5 million dollar inventory. Part of

management team coordinating daily activities, business plans, strategies, people skills, training, workshops, special events, and sales.

**GREENPEACE. Tempe, Az.**

May – September 1992

*Activist.* Public awareness and public campaigns. Film and media recording and editing.

**ARIZONA STATE UNIVERSITY. Tempe, Az.**

August – December 1991

*Research Graduate Assistant.* Solar lab technician.

**UNIV. OF SOUTHWESTERN LOUISIANA. Lafayette, La.**

August – December 1990

*Instructor.* Marine Survival Training Center for Offshore Survival. Helicopter simulator, vessels and water safety training.

**CRESCENT SOUND & LIGHT. New Orleans, La.**

January 1989-January 1990

*Lighting designer.* Pete Fountain Productions. Lighting, stage and audio technician for industrial, convention hall and outdoor productions.

**STAGE RIGHT PRODUCTIONS. Baton Rouge, La.**

April 1987 – January 1990

*Lighting Technician and Ground Rigger.* Theatrical and concert productions. Lighting, audio, film and rigging. (more info below)

**HOWARD BRANDSTON LIGHTING DESIGN. NYC, NY**

August 1986 – April 1987

*Designer/Consultant.* Architectural lighting – US and International commercial and residential design. (more info below)

**I A L D (INT'L ASSOC. OF LIGHTING DESIGNERS).**

**New York City, NY**

May – August 1986

*Lighting Design Intern. Cline, Bettridge, Bernstein.* Residential and commercial lighting design.

**PERKINS, GUIDRY, BEAZLEY & OSTEEEN, Architects.**

**Lafayette, La.**

September 1985-February 1986

*Production and Design.* Commercial, government, educational and hospital projects.

**CORNE, SELLERS & ASSOCIATES, INC. Architects & Engineers. Lafayette, La.**

June 1985 – August 1985

*Production and Design.*

**J.B. MOUTON & SONS, INC.**

**General Contractors. Lafayette, La.**

June – September 1984

*Cost Estimator & Layout Designer.*

**Miscellaneous jobs:**

*Bartender, Total Catering, Estee Lauder, Map surveying, Legal Secretary & Researcher, Photographer, Artist*

**THEATRICAL Lighting**

**Work experience includes** – Stage production, ground rigging, follow spot, truss spot, lighting design, lighting designer and operator, electrician, carpenter, wardrobe, equipment and forklift operator.

*A brief listing of tours and shows* – Rolling Stones, Pink Floyd, Simple Minds, Disney on Ice, The Cure, James Taylor, David Bowie, Fleetwood Mac, Sting, The Nutcracker, 1988 Republican National Convention, Frank Sinatra, Liza Minelli and Sammy Davis Jr.

**ARCHITECTURAL Lighting**

**Architectural lighting experience includes** – Design in lamps, reflectors, and fixtures. Layouts of detail drawings, site observation, focusing, circuiting, distribution, dimming and control systems, computer specs and construction documents.

*Major jobs designed and worked* – Statue of Liberty – NYC; IBM Westlake – Dallas; Univ. Circle Dev. – Cleveland; McCarter & English – NYC; Fulton County Gov't Ctr. – Atlanta; Century City – Los Angeles; U.S. Embassy, Oman; Ankara, Turkey; Cityfront – Chicago; ABC West End – NYC; Bal Harbour – Florida.

**REFERENCES**

Dr. Ed Cushing, Professor Emeritus  
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