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# CURRICULUM VITAE

Patricia Stouter

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Consultant, researcher, and founder of NPO Build Simple Inc. [www.BuildSimple.org](http://www.BuildSimple.org)

**ACHIEVEMENTS:** Finding structural answers and improving contractor techniques for ductile inexpensive and sustainable buildings for the developing world.

## MAJOR WORK

### 2011- 2018 DUCTILE GEO-TEXTILE EARTHEN WALL TECHNIQUES FOR SMALL BUILDINGS

**RESEARCH:** Mentored 2 Santa Clara University student teams for full-size wall quasi-cyclic shear tests ([1](#), [2](#)) 2017-18  
Developed field soil compressive [strength approximation techniques](#) used in Nepal  
Tests: four 50% scale and six 80% scale shear wall portions, eight 60% scale out of plane wall portions, various friction and pull-out values for barbed wire  
Mentored engineering and architecture students at Dartmouth College, Ghent, Brown and Stanford, the University of New Mexico, and the University of Cincinnati

**GUIDELINES:** Adapting bracing guidelines from New Zealand Standards for voluntary adobe and earthbag guidelines  
Consultant to Good Earth Nepal on earthbag residential code and preliminary builder's guidelines  
Culturally appropriate building style information for Haiti and Nepal

**TECHNIQUES:** Improved reinforcement techniques for earthbag include slit bags to embed base-anchored rebar, interconnection of horizontal barbed wire and vertical rebar

**PRESENTATIONS:** Podium paper for EarthUSA 2017 and poster presentation for EarthUSA 2011  
Podium presentation for Sustain Taos 2014  
Annual guest lecture for University of New Mexico Alternative Materials architecture course 2016- 2018  
Engineer continuing education seminars for local chapters of American Society of Civil Engineers, New Mexico Society of Professional Engineers and for the NM Gas Co.

### 2010- PRESENT SITE AND BUILDING DESIGN

**CONSULTING:** Advice on design and construction of small earthbag homes for [Steadfast Nepal](#); 500 built 2015- 2018  
Site plan of 70 unit subdivision for [Grace International](#) NPO, Carrefour with Engineering Ministries Int. Contributor, [Architectural Peer Review](#) of Caracol/ EKAM Housing, Haitian Resource Development Fdn  
Advice and designs for NPOs including [Rasin Foundation](#) and [Haiti Christian Development Project](#)

### 2007- 2010 EDUCATION CENTERS FOR WYCLIFFE ASSOCIATES

Site and building programming and schematic and working drawings under direction of architects  
3.6 acre campus and 12 schematic plans- SIL Bamenda Regional Office, Bamenda, Cameroon  
40,000 ft<sup>2</sup> school buildings schematic plans- Rain Forest International School, Yaounde, Cameroon

## AWARDS & HONORS

2014 Energy Globe Award for Haiti

2011 First place Ingersoll-Rand [\\$300 House Competition](#)

## PROFESSIONAL TRAINING & QUALIFICATIONS

**LICENSURE:** Landscape architecture licenses in CT & NY (currently inactive)

**EXPERIENCE:**

- 2007- 2010 Full-time volunteer building design under Wycliffe Associates architects  
1992- 2006 Part-time site and building design for Stouter Construction, Fishkill, NY including 3 new residences and adaptive reuse of 6,000 and 3,000 ft<sup>2</sup> historic structures,  
1985- 1987 Full-time designer, Keith Simpson Associates, New Canaan, CT included residential and institutional sites

**EDUCATION:** BS Landscape Architecture 1985, City College, NY: Urban Landscape  
BFA magna cum laude 1978, Pratt Institute, Brooklyn, NY: Painting, photography, and French culture

## WRITING

**PUBLISHED PAPERS**

“How Earth Can Resist Earthquakes: with a Little Knowledge, and Maybe Some Bags and Wire”, Proceedings, EarthUSA, 9<sup>th</sup> International Earth Building Conference, September 29- October 1, 2017

“[New Landscapes in the Tropics](#)”, *LAND Online Landscape Architecture News Digest*, November 11, 2009

**COLLABORATIVE WORK & EDITING**

Contributing editor, Owen Geiger’s [Earthbag Building Guide: Vertical Walls Step by Step](#), electronic book, 2011

**BUILD SIMPLE INC. PUBLICATIONS** [www.BuildSimple.org](http://www.BuildSimple.org) >Resources

Structural Information

[Estimated Shear Strengths for Contained Earth Walls](#), May 2017, 16 pp.

[Seismic Risk Levels for Earthen Buildings](#) (mapping)

[How Strong is My Building Soil?](#) Field soil strength approximation for builders, September 2017, 13 pp.

[Structural Information for Earthbag Walls](#), May 2016, 73 pp.

Cultural Information and Building Planning

[Rebuilding Nepal Sustainably](#): Culture, Climate and Quakes, May 2015,

[Building Appropriate Kreyol Homes and Communities](#), March 2012, 39 pp.

[Haitian Wisdom](#) for Aid Buildings, March 2010, 29 pp. recommended by Architecture for Humanity, Basic Initiative Planning Sites and Buildings in Warm Climates v2.0, October 2015, 70 pp.

[Choose Useful Room Sizes](#): Planning for Small Schools or Community Buildings, April 2012, 23 pp. (also in French)

Construction Techniques

[Earthbag Info](#), 4 slide shows, April 2012 (also in French)

## CONTINUING EDUCATION

2015 Land & Water Summit, *Flood Control for Watershed Health*

Online courses: BIM comes to Masonry, ASLA Integrating BIM Technology into Landscape Architecture

2010 Association of Christian Design Professionals Convention: Ground Conditions, Disaster Relief

2009 SUNY Environmental Science & Forestry: Stormwater Redevelopment, Low Impact Development

2008 ASLA online courses: School Site Planning, Vegetated Swales, Green Roofs