

Curriculum Vitae for:

Garrett E. Mosiman

612.625.8409

mosi0019@umn.edu

Education

M.S. in Architecture, Sustainable Design Track; University of Minnesota
December 2009

BArch; Rice University
May 1996

BA in Architecture; Rice University
May 1994

Teaching

Spring 2009, 2010, 2011 Instructor:
ARCH 4521: Environmental Technology I

Research

Fall 2006-summer 2008; Research Assistant, Center for Sustainable Building Research,
University of Minnesota

Summer 2008-2012, Research Fellow, CSBR.

2012-present, Senior Research Fellow, CSBR.

Projects:

- Minnesota Sustainable Building 2030. Energy Efficient Operations Manual (EEOM), Development of low-cost, simple tasks to discover hidden energy waste in significant energy consuming devices and systems. Deployment of a web-based application to facilitate creation of customized Manuals, and piloting of Manuals in buildings.
- NorthernSTAR Building America Partnership.
U.S. Department of Energy funded research in residential energy efficiency and building science. Participation in NSTAR Project Management Team, researcher and author of multiple reports
- Minnesota Sustainable Building 2030. Participation in Steering Committee, general support, and integration with B3 guidelines
- *Minnesota Training Plan*: Best practice model for design of energy efficient buildings, survey of a representative sample of Minnesota architects on energy efficiency practices, and training proposal. Summer 2010. Funded by MN Office of Energy Security
- Minnesota DNR Solar Site Selection Tool
Development and implementation of a tool to facilitate selection of sites for solar PV installations among DNR facilities. In conjunction with LHB Inc.
- Minnesota Sustainable Building Guidelines
Day-to-day administration, compliance tracking, and user contact
Development and implementation of next generation online compliance tracking tool
- Minnesota Housing, Single Family Energy Efficiency Pilot Program

Main public contact person

Implementation of contracts to place HERS raters with affordable housing developers

- Advanced Energy Efficient Roof System, architectural consultant to the project.
 - Connection detail designs
 - Constructability advising
 - Case study house design examples for New Orleans and Pontiac
 - Authorship on upcoming conference papers:
 - Building Enclosure Council, BEST 1 Conference. June 10-12 2008
 - American Council for an Energy-Efficient Economy, Summer Study on Energy Efficiency in Buildings. August 17-22, 2008
- Kabetogama Community Center
 - Community charette
 - Schematic design
- Athena Institute
 - “Working the Booth,” describing Life Cycle Assessment (LCA), and Athena’s software tools
 - AIA national convention, San Antonio. May 2007
 - EcoBuild conference, Anaheim. May 2007
 - GreenBuild, Chicago. November 2007
 - GreenBuild, Chicago. November 2010
- Energy modeling for: Carmody, et.al.: Residential Windows, third edition

Publicatons

L. Goldberg and G. Mosiman, “The Energy Savings Potential of Optimized Slab-On-Grade Foundation Insulation Retrofits.” *Journal of Green Building* Sep 2015, Vol. 10, No. 3 (Summer 2015) pp. 116-136

G. Mosiman, R. Wagner, and T. Schirber. “Excavationless Exterior Foundation Insulation Exploratory Study” U.S. Department of Energy, Building Technologies Program. February 2013. Accessed from:
http://apps1.eere.energy.gov/buildings/publications/pdfs/building_america/excavationless_exterior_found.pdf

Cindy Ojczyk, Garrett Mosiman, Pat Huelman, Tom Schirber, Peter Yost, and Tessa Murry. “Project Overcoat—An Exploration of Exterior Insulation Strategies for 1½-Story Roof Applications in Cold Climates. U.S. Department of Energy, Building Technologies Program. April 2013. Accessed from:
http://apps1.eere.energy.gov/buildings/publications/pdfs/building_america/project_overcoat_exterior_insulation.pdf

E. VonThoma, C. Ojczyk, and G. Mosiman.” Assessing Foundation Insulation Strategies for the 2012 International Energy Conservation Code in Cold Climate New Home Construction. U.S. Department of Energy, Building Technologies Program. April 2013. Accessed from:

http://apps1.eere.energy.gov/buildings/publications/pdfs/building_america/assessing_foundation_insulation_strategies.pdf

S.C. Mantell, J.H. Davidson, G.E. Mosiman, J.C. Carmody, G. Mittelman, G.L. Di Muoio, T. Okazaki, C.K. Shield, B.J. Siljenberg, D.H. Macdonald "Manufactured Panelized Roof System for Residential Buildings" American Conference for and Energy Efficient Economy (ACEEE) Conference, Asilomar, CA. August 2008.

J.C. Carmody, G.E. Mosiman, J.H. Davidson, S.C. Mantell, G. Mittelman, "The Development of an Advanced Panelized Residential Roof System," Building Enclosure Science and Technology 1, Minneapolis, MN, June, 2008.

Davidson, Mantell, Di Muoio, Mittelman, Briscoe, Schoenbauer, Huang, Okazaki, Shield, Siljenberg, Carmody, Mosiman, MacDonald, Kalish:
"Advanced Energy Efficient Roof System." Final Report to Department of Energy for grant DE-FC26-04NT42114

Post-Professional Degree Experience

2001-2006 IIIAD+ Minneapolis, MN

Architectural designer, project manager, fabricator, carpenter

- "Lincé," 2½-story residential addition
- "Out with Pink," bathroom remodel for a non-ambulatory client
- "The Farm," extensive remodel of 3-story timber frame home
- "Mind, Gerry Mind," new studio for a visual artist
- "Floss Daily", interior remodel of dentist's office
- Knudson Residence, new straw bale residence
- "Sammy Davis Junior," a 1-story domestic addition with roof terrace
- "Katalysis," New residence
- "Cousin Earl," addition to an existing IIIAD house
- "Chairs in the Field," second-story residential addition
- "Dragon Roof," interior and exterior improvements to a Chinese restaurant
- Wong Residence, landscaping and interior remodel
- "Play," second-story choreography studio appended to an existing residence

1999-2001 Con-Struct Studios, Inc. Saint Paul, MN

- Commercial architectural models
- F.L. Wright's Francis Little House model, Minneapolis Institute of Arts' permanent collection
- Display furniture and fixtures for Minneapolis Institute of Arts' Prairie School Gallery (design and fabrication)

1996-1999 A mix of short-term employments consisting of:

- Freelance carpentry in and around the Austin, Texas area
 - Rastra Block house
 - Covered patio

- Volz and Associates Inc., historic preservation architect
 - All Saints Episcopal Church, Austin TX
Design
Construction administration
 - Gonzales County Courthouse, Gonzales TX
Construction administration
- Center for Maximum Potential Building Systems, Austin TX
 - Advanced Green Builder Demonstration House
Use of caliche cement for stucco and slab pours
Rainwater pressurization and distribution system
Utility distribution system and terminal boxes
Mobile kitchen carts, design and fabrication
 - School for Field Studies, Baja del Sur, Mexico
Massing studies

Volunteer activities

2006-2008 Officer, Greenlight sustainable design student organization, University of Minnesota

- Cold Spring Granite Co., design charette
- Hennepin Energy Recovery Center (HERC), design charette

2006-2011 Member, Whittier Neighborhood NRP Fund Steering Committee