

GINGER WATKINS ARCHITECT | LEED AP_{BD+C} | CPHC

OBJECTIVE

To collaborate with insightful and knowledgeable people in order to better our places through cost-effective, ecologically and socially responsive design.

EDUCATION

MASTER OF ARCHITECTURE

2002 • University of Virginia

Sustainable Communities Travel Fellowship • SMBW Travel Award
Final Studio: *Rooms, Networks & Production: The Rituals of Home*

B.S. ENVIRONMENTAL SCIENCES

Summa Cum Laude

1998 • University of Kentucky

Lexmark Scholarship • Arts and Sciences Scholarship • Women's Club Scholarship • Harnice Memorial Scholarship • Academic Excellence Scholarship • UK Chancellor Scholarship • Phi Beta Kappa • Golden Key
Thesis: *Values in Nature*

BUDDHIST STUDIES PROGRAM

Fall, 1996 • Antioch University

Bodhgaya, India

Buddhist environmental philosophy & rural economic development.

COMPUTER SKILLS

Passive House Planning Package, AutoCAD, Revit, WUFI, THERM, WINDOW, Microsoft Project, REM/Rate, ENERGY STAR Target Finder, IES VE-Ware, SketchUp, RET-Screen, MicroStation, TriForma, Energy-10, Excel, Ecotect, Photoshop, InDesign, LEED On-line

CERTIFICATIONS

Registered Architect in Kentucky, License #7137, Certified Passive House Consultant, LEED AP_{BD+C}

WORK EXPERIENCE

2012-present • ØRB STUDIO, LLC • Lexington, KY

Principal & Owner

An innovator in sustainable building design and energy efficiency consulting, ØRB Studio works with individuals, architects, contractors, developers and institutions to bring about cost-effective, ultra low-energy buildings and systems. Out of respect for resources and delight in the uniqueness of each site, ØRB uses a rigorous, collaborative and integrative approach to whole system design, crafting elegant and lasting solutions. ØRB is continually innovating and is currently making advancements in application of novel super-insulation and air-tightness details and developing sustainable systems including open source energy data monitoring, passive, whole-house ventilation, minimized HVAC systems, biomass heating, desiccant dehumidification, seasonal earth coupling, solar technology and owner-builder appropriate techniques.

2010-2012 • KENTUCKY HABITAT FOR HUMANITY • Lexington, KY

Sustainable Building Specialist

Equipped Habitat affiliates in Kentucky with energy-efficiency and green building design and technical assistance. Organized the 2010-2012 Kentucky Affordable Green Housing Summits and the first Passive House Builder's Training in North America. Provided design, construction administration and construction training for the first certified Passive House in Kentucky, whose energy savings are projected to pay for one-third of the home mortgage. Passive Houses use 90% less heating and cooling energy and 75% less energy overall than typical homes. Developed innovative, cost-effective, durable and volunteer-friendly construction details. Designed several affordable, super-insulation house plans. Energy data monitoring of one of these homes, built in Morehead, showed an average heating and cooling cost of \$12 per month. Promoted an initiative to partner with rural electric cooperatives in reducing peak electricity demand using demand side management programs as a potential income stream for affordable, energy-efficient construction. Lead a design charrette for a low-impact neighborhood in Bowling Green, KY and developed designs for a Solar Village in Mayfield, KY.

2009 • CSC DESIGN STUDIO • Lexington, KY • Consultant

Consulted on financial planning and project management processes. Advised on website, marketing and communications efforts. Developed fee proposal, contract, work plan and schematics for the net-zero energy Kennedy Residence.

2007-2009 • EOP ARCHITECTS • Lexington, KY • Project Associate

• **Boone Tavern Hotel, LEED Gold**—Provided LEED Administration and produced drawings and specifications for design development through bidding and construction for this National Register-listed renovation project. Guided LEED team coordination, budgeting and the LEED submittal process. Developed sustainability-related language for the General Requirements, and established procedures for documentation during construction. Advised the energy modeling process per ASHRAE 90.1. The hotel's projected annual utility savings are \$25K.

• **Kentucky High-Performance Building Standards** - Assisted the Commonwealth of Kentucky Finance Cabinet with background research and text development for these standards applicable to all projects funded 50% or more by the Commonwealth.

• **Transportation Cabinet Office Building** - As Project Manager, devised a work plan and fee proposal for LEED EB. Coordinated a diverse team of commissioning agents, maintenance, landscape and finance staff for reworking of procurement contracts.

• **Ashland Hotel/Conference Center and St. Clair Mixed Use** - Produced conceptual design, massing models, site plans and parking layout.

PRESENTATIONS

Trailer SWAP

Toyota Tsusho, 2012

Passive Houses

Berea College, 2012

Demand Side Management & Passive House

EKPC Collaborative, 2011

Affordable, Efficient Passive Houses

GreenExpo365 webinar, 2011

What is a Passive House?

Habitat for Humanity National Affiliate Conference, 2011

Transportation & Housing Affordability

2011 Kentucky Green Housing Summit

Beginning with the End in Mind

2011 Kentucky Green Housing Summit

Capstone Review, Guest Juror

ITT Technical Institute, 2011

Livable Communities

Bowling Green, KY 2011

The Role of Streets

Durbin Estates Design Charrette, 2011

Affordable Passive Houses

2010 North American Passive House Conf.

How Much Does It Cost?

2010 Kentucky Green Housing Summit

Affordable & Sustainable

Homes Workshop

2010 Tennessee Habitat State Conference

LEED Panel Discussion

University of Kentucky, 2008

The Case for Green

EOP Architects, 2008

Bernheim Studio, Guest Juror

University of Kentucky, 2005

Energy-Efficient Farmworker Housing

Northeast Organic Farmers' Association Conference, 2004

Participatory Farmworker Housing Design

20 American Farmworker Opportunities Programs Conference, 2003

WORK EXPERIENCE *continued*

Continued • EOP ARCHITECTS • Lexington, KY • Project Associate

- **Traditional Bank Building** - Proposed workable on-site and off-site shared parking options and building layout to prevent the planned demolition of the building for parking.
- **Urban Active Fitness** - Proposed simple energy- and cost-saving strategies as a means to improving return on investment and terms of financing.
- **Promoted an office workflow** that integrates sustainability performance feedback into the conceptual design process through energy and other simulation plug-ins for Revit.
- **Prepared staff for LEED AP exam.** The office grew from 3 to 15 LEED AP's in this period.

2006 • DISTLER CABIN AT NOLIN LAKE • Lexington, KY • Designer

This off-grid cabin utilizes passive heating and cooling, photovoltaics, moveable insulation, daylighting and detailing for a mixed-humid climate. Investigations included earth-coupled cooling, mean radiant temperature, geological hazards, psychometrics, tree protection measures, green lumber use, humidity-buffering building materials, low global warming potential refrigerants, trickle ventilation, wastewater wetlands, composting toilet feasibility and energy modeling.

2006 • GUYON ARCHITECTS INC. • Lexington, KY • Designer

500's On Main - Developed fit-up drawings, details, and realty sheets for and coordinated with developer, realtor, and buyers for 26 lofts for this mixed-use, infill project. Drafted axon of Walker residence. Completed COMcheck review of Newpast Lofts.

2002-2005 • TELAMON CORPORATION • Richmond, VA

Design & Development Coordinator

Project Manager: Sunnyside Farms Housing and Parker Farms Housing

Designed affordable green housing for farmworkers. Created programming activities for farmworkers and growers. Produced drawings, specifications, estimates, and mock-ups. Analyzed code & funding requirements, energy end-uses, life cycle costs of systems, and alternative low- impact building methods. Wrote RFPs for consultants, bid documents, and prepared contracts. Received building permit for strawbale housing. Managed volunteers in small design-build projects, testing of natural paints and plasters, and construction.

Program Developer: Virginia Sustainable Farmworker Housing Program

Developed a housing program for hard-to-serve, migrant population. Conducted needs assessment, strategic planning, budgeting, and funding development, including **7 successful grant proposals totaling \$960K**. Created marketing materials and recruited partners and volunteers. Presented at grower's association and advocate meetings and at public hearings for a special exception to the zoning ordinance. Coordinated with state and federal housing agencies. Supervised VISTA design intern. Developed a green library.

2001 • SCRIBNER MESSER BRADY WADE • Richmond, VA • Design Intern

Recommended LEED credits to pursue for certification of Weinstein Hall, U. of R. Assisted in schematic design and model building for an addition to Campbell Hall, University of Virginia.

2000 • WILLIAM MCDONOUGH+PARTNERS • Charlottesville, VA

Sustainable Design Research Assistant

Advised staff on environmental and health effects of building materials. Contributed to testing of the prototype Green Building Tool, an international rating tool. Conducted post-construction LEED analysis of the AJLC building at Oberlin College.

1993-1999 • OTHER EXPERIENCE: Assisted with Ecology and Agronomy research at U.K. and in Costa Rica. Worked at an herb farm, a food coop, and a wilderness camp for at-risk youth. Started a small business making paper and wreaths from gathered items.

PUBLICATIONS

Skyscraper for the XXI Century,
Evolvo, 2008

Urbanism with a Twist of Lime,
Nougat Magazine, Jun. 2006

TRAINING

2013

Net-Zero Energy Homes Course
Composting Toilet Workshop

2012

THERM
ACCA Manual J, D & S
Solar Pathfinder
Southface Rehab Training

2011

WUFI Hygrothermal Analysis

2010

BPI Building Analyst
Infrared Thermography I
Living Building Challenge
PV Installer Level 1

2009

Home Energy Rater Training
Passive House Consultants' Training
Program

2008

Community Ventures' Business
Planning & Feasibility

2006

Kentucky Solar Partnership Solar
Hot Water Workshop

2004

VISTA Supervisor Training
Natural Plaster Workshop
Strawbale Construction Workshop

HANDS-ON CONSTRUCTION PROJECTS

Berea Passive House (2012) • Hardin County Habitat for Humanity Women's Build (2011) • Urban Cottage, Lexington (2010) • Employment Solutions Greenhouse, Lexington (2009) • Thompson- Phinney residence , Missoula, MT (2006) • Parker Farms Housing, Northern Neck, VA (2005) • Richmond Habitat Blitz Build, Richmond, VA (2005) • Canelo Strawbale Bathroom, AZ (2003) • Berea College green roof and earth plastered kiosk Berea, KY (2002) • cob studio, Asheville, NC (1999)

COMMUNITY

Preserve Lexington—Provided embodied energy data to Preserve Lexington in support of preserving a block slated for demolition in in downtown Lexington through adaptive reuse. 2008

Kentucky House Bill 2—Gave input to the writing of the bill relevant to sustainable architecture. 2008

Town Branch Trail—Produced a study and renderings for an inner city site adjacent to Rupp Arena for a greenway-oriented, mixed-use development. The proposal, which was prepared for City Council, the mayor, Commerce Lexington, and the Lexington Center Corporation and was followed by a \$10 million budgetary commitment to trail building in Lexington. 2007

Destination 2010—As part of a community visioning exercise in preparation for the 2010 World Equestrian Games, proposed a super low overhead downtown market/business incubator to engender place-based creativity, enliven the city, and enable visitors to engage the character of Kentuckians. 2007

Student Advisor—Guided a high school student in his senior project to identify top environmental issues, his personal impacts and means to correct them. 2007

Hollywood Community Garden, Richmond, VA—worked to organize a group, land acquisition, and soil testing. 2005

Trinity United Methodist Church "Park"ing—Proposed grass-based parking lot to provide for Sunday overflow parking for the church. The concept eased parked issues and contributed to the community by doubling as a neighborhood park that could protect the local stream that flows to the Chesapeake.

PROFESSIONAL AFFILIATIONS

Ginger is involved in a larger community of energy, affordable housing, environmental and design professionals. She belongs to the Central Kentucky Inventor's Council, Kentucky Sustainable Energy Alliance and Passive House Alliance U.S., serving on the Board of Managers. She is on the Kentuckians for the Commonwealth New Energy and Transitions Committee working on the intersection of green jobs, energy efficiency and housing quality. In 2012, she contributing to the Kentucky Department of Energy Development and Independence's Energy Efficiency Collaborative. During 2013, Ginger has acted as the at-large representative for public interest groups on the East Kentucky Power Cooperative Demand Side Management & Renewable Energy Collaborative. She is working to develop a Passive House replacement program for mobile homes. Ginger has presented at numerous conferences and meetings and cares deeply about helping to develop a sustainable, less energy-intensive economy in Kentucky.