

**MARC ROSENBAUM, P.E.**

P.O. Box 194 Meriden, New Hampshire 03770 (603) 469-3355 marc@energysmiths.com

### **Professional Certification**

**Licensed Professional Engineer** in Mechanical Engineering and HVAC.

Licensed in New Hampshire, Vermont, Maine, and Massachusetts.

**Certified Passive House Consultant**

**LEED Accredited Professional** - U.S. Green Building Council, 4/2001

### **Awards/ Recognition**

**2009 NESEA Distinguished Service Award**

**2000 ASHRAE Technology Award First Place**

**2001 ASHRAE Technology Award Second Place**

**2000, 2004, 2008 AIA Earth Day Top Ten Project**

**1992, 1996, 2000, 2003, 2004 - Sustainable Design Award** - Northeast Sustainable Energy Assoc.

**1991 Best Energy Efficient House Design Award** - Energy and Environmental Building Assoc.

**Energysmiths**, Meriden, NH - 1979 - to present

Principal and founder. Provides integrated systems approach to creating environmentally sound, solar, resource efficient buildings and communities. Services include:

- *Consulting*

Passivehouse consulting, Zero Net Energy building consulting, Deep Energy Retrofit consulting, integrated design process design, sustainability goals and metrics, sustainable design strategies, solar utilization, energy-efficient design and construction, healthy building design and construction, energy use analysis and computer modeling, ventilation and moisture issues, indoor air quality, resource efficient materials, and energy conservation strategies to architects, builders, utilities, government agencies, home manufacturers, cohousing groups, and building owners and operators.

- *Education*

Workshops, training, courses, and articles on topics listed above.

### **Education**

**Massachusetts Institute of Technology** Cambridge, MA

**Master of Science.** Thesis entitled, "Preliminary Analysis of Methods for Governing a Darrieus Windmill," Sept. 1975.

**Massachusetts Institute of Technology** Cambridge, MA

**Bachelor of Science** in Mechanical Engineering. Thesis entitled, "Design and Construction of an Ultralight Track Bicycle," June 1974.

### **Publications**

Articles in *ASHRAE Journal*, *Fine Homebuilding*, *Journal of Light Construction*, *Solar Today*, *Northeast Sun*, *Northwest Builder*, and *Bicycling!* on topics including sustainable design solutions, integrated architectural/engineering design approach, solar hot water systems, active solar buildings, low cost energy efficient construction techniques, low cost ventilation systems, computer energy analysis tools, blower doors, troubleshooting building failures, and very lightweight bicycles.

### **Speaker/Trainer**

Developer/presenter Towards Zero Net Energy Homes workshop, Nuts and Bolts of Superinsulation workshop, Deep Energy Retrofit workshop; Trainer for Utility-sponsored energy efficient construction workshops in CT, MA, NH, and RI. Conference keynote speaker for NESEA's Building Energy and Affordable Comfort; Speaker for USGBC, PassiveHouse USA, Build Boston, AIA NH, AIA VT, AIA CT, NAHB National Conference, NESEA Building Energy Conference, American Solar Energy Society Annual Conference, World Conference on Innovative Housing, EEBA Excellence in Housing Conference, Timber Framers of North America Conference, Building With Value '93, VT Contractor's Conference, Energy Association of NH, Montshire Museum of Science, Eastern North America Permaculture Conference. Certified to teach Passive Solar Design by the Passive Solar Industries Council.

**Organizations**

Lifetime Member - Northeast Sustainable Energy Assoc.; American Solar Energy Society; ASHRAE; Environmental Building News (Advisory Board member).

**Activities**

Designed and built own home - features include passive solar and wood-fired space heat and domestic hot water, solar greenhouse, utility-interactive solar electricity, root cellar, low energy use lighting, heat recovery ventilation, raised bed organic garden, and low water use fixtures.