



**NAME** DANIEL C. LEWIS

**FIRM** Kohler & Lewis  
27 Mechanic Street  
Keene, NH 03431

**POSITION IN FIRM** Partner

**PROFESSION** Mechanical Engineer

**DATE OF BIRTH** Born - June 2, 1950

---

**FORMAL EDUCATION:**

1978 University of Massachusetts, M.S., Mechanical Engineering

1974 Bard College, B.A., Physics

**PROFESSIONAL CERTIFICATION:**

Registered Professional Engineer (Vermont, Massachusetts,  
Maine, New York)

**PROFESSIONAL EXPERIENCE:**

1982-Present Partner, Kohler & Lewis, Keene, NH

Design of energy efficient heating, ventilation  
and air conditioning systems for commercial and  
institutional buildings

Project management and general business administration.

1978-1982 Total Environmental Action, Inc., Harrisville, NH.

Manager of Technical Services for  
Total Environmental Action, Inc.

Services ranged from residential solar consulting for  
individuals to large scale, computer aided, building  
energy studies for building professionals.

Developed TEASOL, a computer program for use in  
simulating the dynamic thermal performance of buildings  
on an hourly basis.

Taught and Developed "Passive Solar Curriculum" to field supervisors for Tennessee Valley Authority's Passive Solar Award Program. The 190-page report covered topics in building technology, energy conservation and passive solar systems.

Solar and energy conservation consultant to Seagrams. Aiding in developing an energy budget for and performance predictions of a planned 100,000 of office-lab-warehouse-hanger complex.

Solar and energy consultant to Fort Wayne Plant Conservatory. Investigated potential greenhouse performance by computer simulation of various architectural configurations.

Project Engineer and technical writer for Brookhaven National Laboratory's "Design of Building Using Natural Thermal Storage;" provided engineering and technical writing assistance on final report of the applications of Natural Thermal Storage in reducing annual energy consumption.

Project Engineer for "Solar Homes and Utility Impacts: An Experiment for the Texas Utility Company," assisted in the development of a proposal for Texas Utilities to evaluate the impact of solar on utilities.

1977-1978 Graduate Research Assistant in charge of the solar/thermal systems of the University of Massachusetts' Solar House - Solar Habitat 1.

Training Instructor for CETA/County Extension Service Program in Massachusetts to train CETA volunteers to perform residential energy audits.

1975-1977 University of Massachusetts, Department of Mechanical Engineering; Graduate Research Assistant.

Performed off-design analysis of the University of Massachusetts designed Ocean Thermal Energy Conversion power plant via computer simulation.

**SOCIETIES:**

National Society of Professional Engineers

American Society of Heating, Refrigeration, and Air  
Conditioning Engineers

International Solar Energy Society (and American Section)

**MAJOR PUBLICATIONS:**

"Timber Frame Heating and Ventilation,"  
Timber Framing, Journal of the Timber Framers Guild,  
No. 18 (December 1990) (with Joe Kohler).

"Passive Principles: Seeing through Window Options,"  
Solar Age, Vol.7, No. 1 (January 1982)  
(with Joe Kohler).

"Passive Principles: Choosing Your System," Solar Age,  
Vol. 6, No. 12, (December 1981) (with Joe Kohler).

"Passive Principles: Let the Sun Shine In," Solar Age,  
Vol. 6, No. 11, (November 1981) (with Joe Kohler).

"Passive Principles: Sizing the Aperture," Solar Age,  
Vol. 6, No. 10 (October 1981) (with Joe Kohler).

Passive Principles: Conservation First," Solar Age,  
Vol. 6, No. 9, (September 1981) (with Joe Kohler).

"On the Performance of Thermal Envelope Houses,"  
Proceedings of the 5th National Passive Solar Conference,  
October 19-26, 1980 (with Joe Kohler).

"TEABUILD: An Algorithm for Determining an Optimum Mix  
of Energy Conservation and Passive Solar Measures,"  
Proceedings of the 5th National Passive Solar Conference,  
October 19-26, 1980 (with Joe Kohler & Jennifer Adams).

"Shakedown for the Envelope House: Trail by Computer,"  
Solar Age, Vol. 5, No. 11, (November 1980).