

**Carl Bovill, RA, NCARB**

**Courses Taught:**

ARCH 410 Technology I, Materials and Methods of Construction, Codes & Climate Design  
ARCH 611 Advanced Architectural Technology Seminar  
ARCH 413 Technology IV, Mechanical and Electrical Equipment  
ARCH 461 Sustainability in Architecture  
ARCH 403G Architecture Studio IV

**Educational Credentials:**

BS, Mechanical Engineering, University of California, Santa Barbara, 1969  
MS, Mechanical Engineering Thermal Systems, University of California, Berkeley, 1970  
M Arch, University of Hawaii, Honolulu, 1976

**Teaching Experience:**

Assistant Professor, University of Tennessee School of Architecture, 1984 -1990  
Associate Professor, California Polytechnic State University School of Architecture, 1990 - 1992  
Associate Professor, University of Maryland School of Architecture, 1992 - present

**Professional Experience:**

Institute of Environmental Stress, University of California, Santa Barbara, 1970 - 1973  
Interactive Resources, Inc., Architecture and Engineering, Point Richmond, CA. 1976 - 1984  
Maryland Green Building Council, 2001 - 2003

**Licenses/Registration:**

Hawaii  
NCARB Certificate

**Selected Publications and Recent Research:**

**Books**

*Fractal Geometry in Architecture and Design*, Birkhauser, Boston, 1996  
*Architectural Design, Integration of Structural and Environmental Systems*, Van Nostrand Reinhold, New York, 1991.

**Articles and Papers**

"The Doric Order as a Fractal," Nexus Network Journal, Volume 10, Number 2, Birkhauser Verlag, 2008.  
"The Energy Simulation Process," ACSA East Regional Conference, Catholic University, Washington DC, 2007.  
"Nature's Geometry," Featured Speaker at Eco Wave 2006 Conference on Green Design, San Francisco, 2006.  
"Fractal Geometry in Architecture and Design," Invited Speaker at FRACTARO 04, The First International Conference on Fractal Foundations for XXI Century Architectural and Environmental Design, Madrid, Spain, 2004.  
"The Philip Merrill Environmental Center," Society of Building Science Educators Retreat, Waycross, Indiana, 2003.  
"Fractal Geometry as Design Aid," Journal of Geometry and Graphics, Volume 4, No1, 71-78, 2000.  
"A Fractal Analysis of Classical Ornament," Millennial Open Symposium on the Arts and International Computing Conference, University of Washington, Seattle, Washington, 2000.

**Professional Memberships:**

Society of Building Science Educators