



Mr. Philip Fairey

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Education:

M.S., City and Regional Planning, Clemson University, 1974

B.A., Architecture, Clemson University, 1969



Research Focus

Philip Fairey has more than 29 years experience in building science research and has served as Deputy Director of the Florida Solar Energy Center since 1990. Philip initiated the building science research program at FSEC in 1980 and has had primary responsibility for more than 30 major building science research contracts totaling more than \$14 million. He has extensive expertise in combined heat and moisture transfer in buildings; heating, ventilating and air conditioning systems; building energy efficiency; humidity and moisture control; indoor air quality (IAQ); building forensics; energy codes and standards; computer simulation and modeling; and building energy-efficiency rating systems. Philip conceived and developed the *Florida Building Energy-Efficiency Rating System*, led the development of *EnergyGauge*®, a software tool for code compliance, energy ratings and economic analysis, and *FSEC 3.0*, a combined heat and moisture transport building simulation software research tool.

Mr. Fairey is an active member of the American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE). He has also served as a member of the ASTM Committee C16, where he chaired the Task Group that developed the ASTM Technical Standard on Radiant Barrier Systems. Philip currently serves on the International Standards Organization Technical Committee 163 Working Group 3 on Energy Performance of Buildings, and the Florida Building Commission's Energy Technical Advisory Committee. He is also the current President of the national Residential Energy Services Network (RESNET) that sets standards for building energy efficiency rating systems (HERS® Index) and a founding member of the Florida Green Building Coalition (FGBC).

Mr. Fairey is author or co-author of 4 books and more than 90 technical articles and has received two U.S. Patents. He received the U.S. Department of Energy's National Award for Innovation in Research in 1984 and the University of Central Florida's highest award for research in 1987. Philip has testified before the U.S. Congress and the Florida Legislature and has been qualified by the Courts as a Building Science Expert.

