

Jeffrey D. Spitler, Ph.D., P.E.



Jeffrey Spitler is Regents Professor and C.M. Leonard Professor in the School of Mechanical and Aerospace Engineering at Oklahoma State University, where he teaches classes and performs research in the areas of heat transfer, thermal systems, design cooling load calculations, HVAC systems, snow melting systems and ground source heat pump systems. He has directed heat pump related research projects funded by ASHRAE, the U.S. DoE, the Federal Highway Administration, and ClimateMaster.

Mr. Spitler is a past president of the International Building Performance Simulation Association and is a Fellow of the American Society of Heating, Refrigerating and Air-conditioning Engineers (ASHRAE). He has served on a number of ASHRAE technical committees and society committees and is just finished a three year term as chair of the ASHRAE Research Advisory Panel. He has authored or co-authored 100 technical papers and seven books; three of the papers have won ASHRAE technical paper awards and a fourth paper won the 2000 Napier Shaw Bronze Medal from the Chartered Institution of Building Services Engineers..

He has been researching ground source heat pump (GSHP) systems for almost twenty years. Besides the papers, products of this research include a widely-used software design tool for ground heat exchangers, methods for estimating ground thermal properties, simulation models that are now implemented in eQuest and EnergyPlus. He developed the first-ever simulation of hybrid GSHP systems, showing that improved control strategies could give lower first costs and lower operating costs. He also directed the first published validation of an HGSH system model.