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Mr. Christian is a researcher in the Buildings Research and Technologies Integration Center (BTRIC) at the Oak Ridge National Laboratory (ORNL). Jeff's 36 years at ORNL span zero energy residential and commercial buildings, advanced appliances, moisture control in buildings, roofs, walls, and foundations, cooling, heating, and solar power integrated systems, and whole building design and performance. Jeff has written more than 150 technical publications, in the area of building energy efficiency. Since 2002 he has focused on building systems integration. Jeff established a residential research park with TVA and DOE in 1999, with 22 test houses, 8 of which were unoccupied with simulated occupancy, 10 are occupied and undergoing 40% energy saving retrofits. He has led a team that designed, constructed and tested the 1<sup>st</sup> six TVA Green Power Generation Partner house with Habitat for Humanity Loudon County Tennessee Affiliate in the Tennessee Valley Authority's service territory. These 1100 ft<sup>2</sup> to 2600 ft<sup>2</sup> houses have solar grid-tie and had measured daily average total energy costs from \$1.12 to \$0.42. Mr. Christian has conducted energy efficiency research for DOE, TVA, Wal-Mart and an extensive list of building component manufacturers as founder and Director of the ORNL Buildings Technology Center. He was selected as the ORNL Science Communicator of the year in 2005 and 2008. He co-teaches Environmental Management Controls in the Department of Architecture at the University of TN. Jeff holds a BS in Industrial Engineering from the University of Wisconsin and masters in Environmental Engineering from the University of Tennessee.

