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## AWI Presents on Energy-Saving Ceiling Technology at ASHRAE Conference

On Jan. 24, Jason Cavanaugh, mechanical engineer, took the stage at the ASHRAE Winter Conference held in Chicago, Ill., to present highlights from the research paper titled “Experimental Assessment of Energy Savings with Ceiling Tiles Made with Phase Change Materials (PCM) in Combination with Acoustical Ceilings in a Return Air Plenum.”



This peer-reviewed technical paper documents Armstrong’s scientific efforts to develop PCM-type thermal mass ceilings and to quantify their energy-saving potential in buildings. Serving as the first of several planned technical papers on the subject, it seeks to detail Armstrong’s experimental capabilities and establish the validity of the new Air and Temperature Lab on campus. The paper builds on PCM research and methods established at Armstrong as early as 2005. Such publications in organizations like the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) bolster Armstrong’s credibility in the field of Energy Saving Ceilings and other building science-related agencies.

Co-authored by Jason Cavanaugh, Bill Frantz, sr. principal scientist and Gourish Sirdeshpande Ph.D., retired sr. principal scientist, all active within the ASHRAE organization, the paper draws on their collective expertise and involvement in ASHRAE. Jason is part of Technical Committee TC6-9 Thermal Storage and Committee C16 Thermal Insulation. Bill contributes to Technical Committee TC9-11 Clean Spaces and provides input for this section of the HVAC Applications Handbook. Gourish, well known for his work across multiple technical committees on matters of Indoor Air Quality, adds further depth to the paper’s insights.

### More about ASHRAE:

ASHRAE, founded in 1894, is a global society advancing human well-being through sustainable technology for the built environment. The Society and its members focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability within the industry. Through research, standards writing, publishing and continuing education, ASHRAE shapes tomorrow’s built environment today.



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