

Army Portable Cooling Research

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Dr Patil will summarize portable cooling for military applications. Military cooling applications are characterized by extreme operating conditions and the need for lightweight cooling schemes. Researchers at Fort Belvoir are applying microscale heat exchangers to vapor compression cycle cooling systems to minimize the size and weight of portable cooling systems. Current research at Fort Belvoir on vapor compression cycle and heat-actuated cooling will be summarized and the challenges associated with military cooling will be reviewed.