



UAA Professional Development Seminar Series

Refrigeration and Compression Processes in Cold Climates

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Alaska and Norway, where I come from, have much in common, such as a cold climate and large fishing and oil/gas industries. This talk will focus on my

research related to these similaritieshe low ambient temperatures typical of the Arcairce potentially beneficial in some industrial applications, suchs cooling inliquefied natural gas (LNG) production and carbon capture and storage (CCS) processes. To take full advantage of the benefit of low ambient temperature in-ienteensive processes, and to compare systems catedin different climates fairly, numerican odeling and optimization techniques have been used to explore different processes. The results show that he energy efficiency and optimal design of such systems depends stronglyon the ambient temperature, giving performance dvantages