



**UAA Professional Development Seminar Series** 

## Renewable Energy Implementation in Alaskan Islanded Microgrids

Presented by Dr. Daisy Huan, gAssistant Professor ME, UAF

Dr. Huang will talk about the particular benefits and particular challenges of renewable energy implementation in islanded microgrids, of which there

are over 200 in Alaska. In Alaska, our high number of microgrids is due to ciacumentow population densities distributed over a vast area. However, in interconnected regions in the rest of the U.S. and world, microgrids are also of interest as a way to increase energy security and integrate more distributed power generation. Alaskanterefore poses some interesting test cases, especially when considering deployment in extreme and austere environments.

Living on a tight budget as a graduate student in a dry cabin in Fairbands with one of the highest heating requirements and highst costs of energy in the worldnade Daisy keenly aware of the need to use techn high