

UAA Professional Development Seminar Series

# **Is It Time for an Energy Transition in the Alaska Fishing Fleet?**

Presented by Chandler Kemp, Owner,  
Kempy Energetics

Fishing is a multibillion-dollar industry in Alaska consuming tens of millions of gallons of diesel fuel every year. Recent advances in battery technology and control systems have made hybrid diesel-electric propulsion systems feasible in some fisheries. Coupled with extensive investment in renewable energy production in coastal communities in the past decade, the new energy storage technologies make partial electrification of the fishing fleet a tantalizing possibility. Over the past five years a coalition of organizations led by the Alaska Longline Fishermen's Association and the Alaska Fisheries Development Foundation measured energy loads in troll, longline, gillnet, seine, tender and trawl operations. The results of that measurement campaign allows us to characterize fishing vessel energy loads and define the requirements of alternative energy systems. Kemp will present the methods and