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Dr. Bruce Howe

Dr. Howe develops ocean observing infrastructure for the provision of power, communications, and positioning throughout the ocean volume, with an emphasis on cabled and acoustic systems.

As Chair of the international Joint Task Force (JTF) SMART Cable initiative, (Science Monitoring And Reliable Telecommunications), Dr. Howe is leading the effort to incorporate sensors into commercial trans-ocean submarine telecommunication cable systems to form a planetary scale observing system for climate, ocean circulation and sea level monitoring and tsunami and earthquake warning.

Past projects have included basin-scale acoustic thermometry, and planning, development and operation of cabled observatories. At Station ALOHA 100 km north of Oahu, Dr. Howe and his team installed and operate the ALOHA Cabled Observatory – the world’s deepest plug-and-play power and Internet node on the planet at 4728 m water depth, now with 10 years of continuous data.

After obtaining engineering and oceanography degrees at Stanford University and the University of California at San Diego, he worked at the Applied Physics Laboratory, University of Washington, and since 2008, at the University of Hawaii at Manoa, Department of Ocean and Resources Engineering.