



CASPER



Baylor University and CASPER present:

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Seafloor Seismology: Research and Technology Needs for Studies of the Solid Earth

Studies of Earth's structure and tectonic processes are hampered by a dearth of instruments that can be deployed on the seafloor. Since more than 75% of the planet is covered by water, and important structures, such as mid-ocean spreading centers and subduction zones reside in and beneath oceans, such limitations impede our understanding of the Earth as a whole.

Fortunately, modern technology has resolved some previous shortcomings, such as a lack of stable clocks and batteries for long-term operation of autonomous seismic recorders, so a frontier of Earth science is about to open to prospectors. I will review the research needs that can only be satisfied by "campaign-style" expeditions in the ocean basins or permanent seafloor observatories and show recent results obtained with autonomous "ocean bottom seismographs."

**Friday, January 24, 2014, 2:30 p.m.
Baylor Research & Innovation Collaborative (BRIC)
Room 3160**

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