



ARCS Foundation Honolulu Chapter invites you to a pauhana talk and tour by
Dr. Christopher Kelley

Minivan-sized Sponges, Beautiful Corals and Lots of Other Weird Animals

Fascinating Creatures Just Now Being Discovered in the Deep Sea

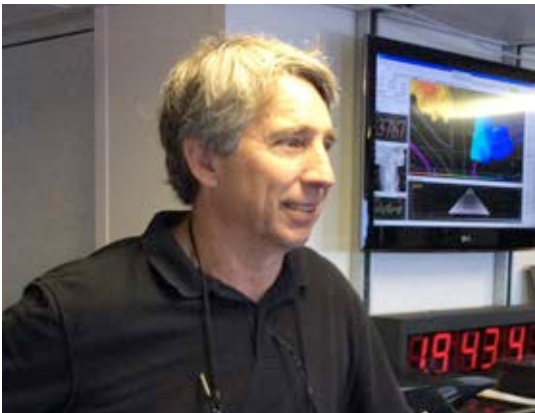
NOAA ship *Okeanos Explorer's* 2015 arrival in the Pacific has produced amazing imagery of bizarre and sometimes gigantic animals never seen before. The ship deploys a 6,000-meter-capable ROV (Remotely Operated Vehicle) with one of the best HD camera systems in the world, allowing scientists and the public to see and appreciate life forms adapted to living under extreme pressure, freezing temperatures and total darkness. We call such animals “extremophiles.” Yet the deep sea conditions we consider to be so harsh represent more than 70% of the world’s surface, so the argument can be made that the deep sea is “normal earth,” and we terrestrials are the *real* extremophiles.

Come and spend an evening exploring what life looks like for the majority of the planet ... something you thought you knew, but really didn't.

Thursday, March 16, 2017 • Post 723, UH Mānoa

wine and pupus at 5:30 p.m., followed by the talk at 6 p.m.
and a peak at the UH Exploration Command Center, where technology allows
researchers to participate remotely in the *Okeanos Explorer* cruises

Hawai'i Undersea Research Laboratory program biologist Dr. Christopher Kelley is science lead for the 3-year CAPSTONE project in the Pacific. He received his PhD from UH and serves on graduate faculty for the Oceanography Department and is an affiliate faculty member Hawai'i Institute of Marine Biology.



He has evaluated bottomfisheries; identified fish and invertebrates recorded during submersible and ROV operations for HURL's deepwater animal database and online photo guide; explored deepwater communities living on manganese crusts in the Central Pacific; investigated biological communities associated with munitions disposed off Pearl Harbor; mapped the ocean floor at the Papāhānaumokuākea National Marine Monument; discovered a Japanese midget sub sunk in Hawaiian waters moments before the attack on Pearl Harbor; developed fish hatcheries in Asia, the Philippines, Egypt and Cameroon; and studied angelfishes as a Hydrolab Undersea Habitat aquanaut.