



**US Army Corps
of Engineers®**

Engineer Research and
Development Center

Coastal and Hydraulics Laboratory

Description

The Coastal and Hydraulics Laboratory (CHL) multi-disciplinary team of scientists, engineers, and support personnel, with its unique facilities, is internationally known. This 230-member team is comprised of 140 scientists & engineers and 13 contractors. These team members hold 58 doctorate degrees, 60 master's degrees, 39 bachelor's degrees, and have the experimental and computational expertise needed to solve water resource problems worldwide. CHL addresses an entire spectrum of water resource challenges in groundwater, watersheds, rivers, reservoirs, estuaries, harbors, coastal inlets and wetlands. Physical facilities total 1.6 million square feet and provide the necessary infrastructure to produce cutting edge products, ranging from design guidance to three-dimensional numerical models needed for solving coastal/inland water resource solutions.

Construction was recently completed on a 56,000-square-foot building addition. The annex will cost \$6.9 million and is being built using the design-build method, the first time this method has been used in a Corps of Engineers civil works project. The annex now serves as the CHL headquarters building and houses a 275-seat conference room and office space for 148 team members.

Capabilities

The CHL team conducts research in all aspects of the interaction of water with sediment, structures, and operations in groundwater, watersheds, rivers, lakes, estuaries, coasts, and oceans. Research runs the gamut from navigation and flood control to military force projection and battlespace environment. Focus is placed on inland and coastal navigation, military logistics-over-the-shore, dredging, flood control, storm and erosion protection, waterway restoration, fish passage, hydro-environmental modeling, water and land management, and many other water-related issues facing our nation.

As a world-class laboratory, CHL performs research and development in support of concerns ranging from strategic activities of U.S. military forces to Army civil works. Clients include multiple Corps of Engineers and Department of Defense sponsors, the Department of Energy, the U.S. Environmental Protection Agency, the Federal Emergency Management Agency and the Tennessee Valley Authority. CHL also works closely with a number of state, local and foreign governments and with many private research sponsors. CHL engineers are currently involved in more than 200 different research projects around the world.

Point of Contact

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