



ITEM OF INTEREST

U.S. ARMY CORPS OF ENGINEERS

BUILDING STRONG.

2010-11-03-002 Prototype Partnering / bra

Strategic arena:

Partnering

Government labs partner to test ecosystem warming

FAIRBANKS – ERDC researchers Dr. Anna Wagner and Dr. Jon Zufelt have recently partnered with the [Department of Energy's Oak Ridge National Laboratory](#) to conduct ecosystem warming prototype tests at the [Army's Permafrost Experiment Station in Fairbanks](#).

The 18-month project calls for the Cold Regions Research and Engineering Laboratory team in Fairbanks to build and then monitor the ecosystem warming prototype. Focused on understanding the nature and pace of climate change currently being monitored and the projected impacts on permafrost ecosystems, the prototype is to prove whether it's physically possible to build a system that can significantly warm the ground and air temperatures in an arctic climate.

ORNL researchers have conducted design, computer simulation, and field tests of large-scale experiments in an effort to evaluate ecosystem response to projected climatic changes. This research combined with CRREL's extensive knowledge of the Arctic, climate change, and permafrost soils will form a partnership that will extend DOE's existing research to the Arctic region.

Link(s):

[Department of Energy](#)

Contact:

Dr. Jon Zufelt, 907.384.0511, Jon.E.Zufelt@usace.army.mil

U.S. ARMY CORPS OF ENGINEERS – ENGINEER RESEARCH AND DEVELOPMENT
CENTER – HANOVER

72 LYME ROAD • HANOVER N.H. 03755-1290

WWW.CRREL.USACE.ARMY.MIL