

THE TIP OF THE ICEBERG

COLD REGIONS
RESEARCH AND
ENGINEERING
LABORATORY



July 2022

Cutting the Ribbon

The U.S. Army Engineer Research and Development Center (ERDC) held a ribbon-cutting ceremony for the Cold Regions Research and Engineering Laboratory's (CRREL) new Climatic Cold Chamber Building, which CRREL research teams will utilize for the testing of materiel used by the Warfighter in extreme cold environments.



Science and Technology Summit

More than 120 attendees from the Army, Navy, Marine Corps, Air Force, Coast Guard and a multitude of federal agencies, as well as partners from allied nations with interests in the Arctic such as Canada and the United Kingdom, came to CRREL to discuss new developing new technologies, new means of international communication and how to overcome the challenges of maintaining Arctic dominance as a united group.



FYREE and Ice

Hayden Barry and James Quirk, prospective engineering majors at Dartmouth College, have been able to jump-start their careers through an internship program at the U.S. Army Engineer Research and Development Center's Cold Regions Research and Engineering Laboratory through Dartmouth's First Year Research in Engineering Experience program, which provides first-year undergraduate students with early hands-on experience and mentoring within engineering.

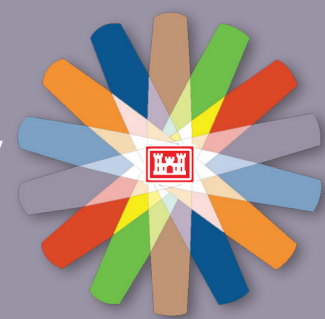


Through the Snow

Three CRREL researchers from the laboratory's Engineer Research Mobility Team traveled to the CRTC to test the concept winter tires, which were prepared by siping, or cutting, small grooves into the tread blocks of standard JLTV tires. The researchers are developing winter-specific tires to enhance Soldiers' capabilities to safely navigate the snowy tundra, thereby assisting the Army with achieving the goal of regaining Arctic dominance.

Click an image to see the full story.

A new way to discover the power of ERDC



With the ribbon cutting of CRREL's new Cold Climatic Chamber Building, a new avenue of discovery, research and development has made itself available for CRREL's researchers, scientists and engineers. This one of a kind facility will support the team as they seek to discover new ways to support the nation and our warfighters.



A JOINT LIGHT TACTICAL VEHICLE (JLTV) AT FORT GREELY'S COLD REGIONS TEST CENTER (CRTC) IN CENTRAL ALASKA PREPARES TO GO DOWN AN ICE-COVERED TEST TRACK IN FEBRUARY 2022 TO EVALUATE THE EFFECTIVENESS OF WINTER-SPECIFIC TIRES DESIGNED BY CRREL. THREE CRREL RESEARCHERS FROM THE LABORATORY'S ENGINEER RESEARCH MOBILITY TEAM TRAVELED TO THE CRTC TO TEST THE CONCEPT WINTER TIRES, WHICH WERE PREPARED BY SIPING, OR CUTTING, SMALL GROVES INTO THE TREAD BLOCKS OF STANDARD JLTV TIRES. THE RESEARCHERS ARE DEVELOPING WINTER-SPECIFIC TIRES TO ENHANCE SOLDIERS' CAPABILITIES TO SAFELY NAVIGATE THE SNOWY TUNDRA, THEREBY ASSISTING THE ARMY WITH ACHIEVING THE GOAL OF REGAINING ARCTIC DOMINANCE.

PHOTO BY
PHOTO BY ORIAN WELLING, ERDC/CRREL



CRREL

**COLD REGIONS
RESEARCH AND
ENGINEERING
LABORATORY**