

THE TIP OF THE ICEBERG

COLD REGIONS
RESEARCH AND
ENGINEERING
LABORATORY

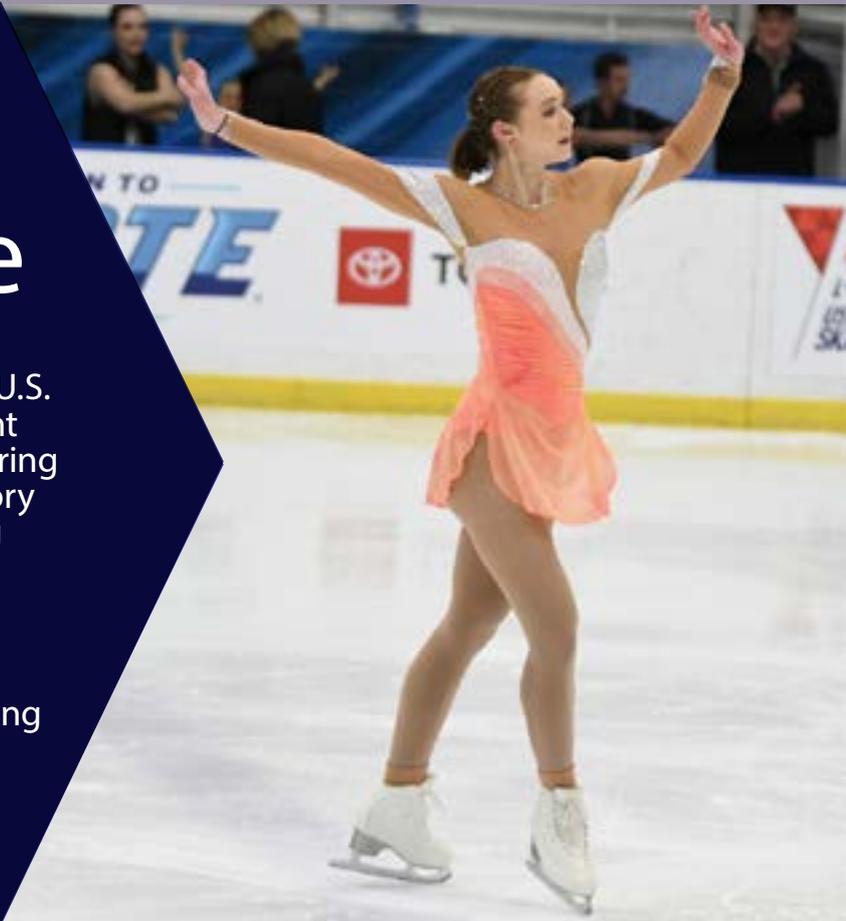


May 2022

Working and Dancing on Ice

Marin Blaisdell, a materials engineer for the U.S. Army Engineer Research and Development Center's Cold Regions Research and Engineering Laboratory (CRREL), skated her way to victory during the 2022 U.S. Adult Figure Skating National Championships held in Newark, Delaware, April 6-9, 2022.

Blaisdell earned the bronze medal in the Masters Intermediate-Novice Ladies 1, ranking third among 14 skaters aged 21 to 29.



Climate Change and Permafrost

Permafrost is found beneath nearly 85 percent of Alaska. While it is typically very strong, as the ice in the permafrost begins to warm, it weakens, and foundations built upon it may begin to fail.

Researchers at the CRREL Permafrost Tunnel Research Facility are working to address challenges with building on permafrost.



New Ways to Communicate

A CRREL team is seeking to optimize internal laboratory communications. The team came up with a new program they're calling the "CRREL Exchange."

The long-term vision for the CRREL Exchange is a well-connected workforce that has immediate access to the information they need to solve the problems impacting our warfighters, ultimately allowing CRREL to better fulfill its mission.



How It's Made

Whether you're a hobbyist at home or a researcher at CRREL, not having that one special piece to finish a project and that isn't readily available is universal.

CRREL researchers need only ask Chris Donnelly, a CRREL engineering technician and machine shop manager, to make them the part they require.

Click an image to see the full story.

CRREL is Welcoming Visitors Again



Due to the social distancing safety measures that began at the start of the pandemic, CRREL had to cease conducting almost all tours. As the number of COVID-19 cases continues to go down, the Hanover laboratory has opened its doors once again to groups who want to come in and learn more about what we do to support the nation and our warfighters.

ANDREW BERNIER, ONE OF CRREL'S CIVIL ENGINEERING TECHNICIANS, GIVES A TOUR OF THE FACILITY TO STUDENTS FROM NORWICH UNIVERSITY, HIS ALMA MATER. THE STUDENTS WERE ABLE TO VISIT AND HEAR RESEARCHERS DESCRIBE WHAT THEY DO EVERY DAY TO ENHANCE COLD REGIONS RESEARCH.

ONE OF THE LAST STOPS OF THE TOUR WAS CRREL'S FROST EFFECTS RESEARCH FACILITY. HERE, BERNIER SHOWS WHERE SOME ROAD CONSTRUCTION TESTING WILL BE TAKING PLACE IN THE NEAR FUTURE.

PHOTO BY
DAVID MARQUIS, ERDC PUBLIC AFFAIRS OFFICE



THE U.S. EUROPEAN COMMAND AND THE NORWEGIAN DEFENSE STAFF WERE IN ALASKA TO ATTEND THE SECURITY FORCES ROUNDTABLE HOSTED BY THE UNITED STATES NORTHERN COMMAND. VISITORS FROM 10 ARCTIC NATIONS ALSO ATTENDED, AND ALL THE ARCTIC SECURITY FORCES ROUNDTABLE ATTENDEES VISITED THE PERMAFROST TUNNEL RESEARCH FACILITY, IN FOX, ALASKA.

DR. TOM DOUGLAS DEMONSTRATES TO THE 40 VISITORS HOW FINE THE SILT PARTICLE SIZE IS ON THE TUNNEL FLOOR BY THROWING SOME UP IN THE AIR AND ILLUMINATING IT WITH HIS FLASHLIGHT.

PHOTO BY
TROY BOUFFARD, DIRECTOR OF THE CENTER FOR ARCTIC SECURITY AND RESILIENCE AT UAF



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