

2014 Arctic Innovation Competition

Winners

1st Place

\$10,000

Charlie Parr

Routinely Ground Control System for Drones

The *Routinely* ground control system is an integrated hardware and software solution that makes flying drones a simple routine. *Routinely* is designed to fly a wide variety of drone aircraft using a simple, intuitive interface that emphasizes flight safety and data creation.



2nd Place

\$5,000

Seraphim McGann & Joshua Resnick

Arctic Lithium Energy System

This idea uses overages in supply power to maintain cell temperature in lithium batteries. This allows uniform heating of all battery cells, which would enable lithium battery storage to operate at its full potential in arctic climates such as Fairbanks.



3rd Place

\$2,000

Reggie Dallaire

Heated and Insulated Plumbing Coupling

This idea uses a heated and insulated pipe coupling that allows for the transfer of fluid in mobile applications when the atmospheric temperature is below freezing. Ideal for keeping water tanks from freezing, it is powered by a small electrical system in the back of the truck. This idea also won the Arctic Kicker Award.



4th Place

\$1,000

Taylor Seitz

Flow Test to Detect Shellfish Poisoning

This idea is a rapid test that would be a quick and user-friendly option for detecting toxic shellfish poisons, specifically the primary toxin Saxitoxin. This lateral flow test is designed to be portable, inexpensive and easily used while in the field.



Meet the other winners 

Alaska Student Kicker \$2,000

John Miller & Wylie Rogers

The Wylie Post

This idea is a safe and efficient way to anchor a hockey net to an ice playing surface. The newly-developed goal pegs address both stability and safety issues associated with the intense speed of ice hockey. The patented "dual-spike" design allows for a more secure connection to the ice surface, while the rubber peg feature allows the net to break free upon player impact.



Arctic Kicker \$2,000 Reggie Dallaire

Heated and Insulated Plumbing Coupling

This idea uses a heated and insulated pipe coupling that allows for the transfer of fluid in mobile applications when the atmospheric temperature is below freezing. Ideal for keeping water tanks from freezing, it is powered by a small electrical system in the back of the truck. This idea also won Third Place in the Main Division.



Honorable Mentions \$100

Andrew Bogar Mission Modules

Becca Brado Laptop Cat Cozy

John Bungart Magnetic Drum Shoe

James Cameron Receptacle Box Installer

Paul Carey Hoop Hitch

Lyle Chesley Safety Device

Craig Compeau Expandable Container for Diluted Liquids

Ben Dobrovolny Pole Snap

Duncan Meyers Insulative Material for Arctic Construction

John Miller & Wylie Rogers The Wylie Post

Gwyn Ostbloom Basting Sheet

Michelle Strehl Mitts That Fit



UAF photos by JR Ancheta.

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