

2011 Arctic Innovation Competition

Winners

1st Place

\$10,000

Billy Koitzsch & Bob Ostrom

HydroHeater

A winter hydration system with a heating element inside the drinking tubes. Hydro-Heater thaws the tube in even the very coldest conditions, lessening the potentially life-threatening risk of dehydration. With the HydroHeater, users never have to worry about their hydration system freezing. Skiers, snowmachiners, cold-weather runners, and other sports enthusiasts will find this product particularly useful.



2nd Place

\$5,000

Jeremiah Costly

Reciprocating File

Allows motorized movement of a file hand tool. This product is the only of its type to utilize an ordinary blade as its coupler, eliminating the need for moving parts and allowing further use of dull blades. Whatever the material, the Reciprocating File makes short work of the task at hand.



3rd Place

\$2,000

Fr. Joshua Resnick & Seraphim McGann

Power-Dense Motor for Marine Applications

Modifying an existing three-phase motor, the power-dense motor (PDM) aims to solve the problem of high-cost, diesel-electric propulsion motors used on fishing boats. The PDM would provide a low-cost way for fishing boats to increase efficiency and use less fuel, while featuring a low-engine profile and elegant twin-prop design.



4th Place

\$1000

Edward Ashby

Individual Assisting Device for Bathtubs

This removable device sits in a bathtub and supports a person who would otherwise be unable to bathe unassisted. This device operates using a hydraulic jack and wouldn't require an electric power source. It could be used in private residences, as well as assisted-living facilities, to aid the elderly or disabled.



Meet the other AIC winners 

Honorable Mentions

\$100

- Josh Bennett** Insulated, Exhaust-Vent Cover
- Ruby Bullchild** Public Transportation Text Alerts
- Tamara Byrd & Jane Moore** Logger's Buddy
- Dayne Ellanna** Portable, Renewable-Energy Unit
- Michael Golub** Ultra-Efficient Personal Transportation
- Karina Huffaker** Airplane Sleeping Trays
- Tom A. Johnson** Backpack
- Tom H. Johnson** Open-Neutral Compensation for Residential Power Problems
- Ralph Moore** Variable Valve Actuation Camshaft

- Aaron & Shannon Mosdal** Arctic Accumulator Engine Start Assist
- Carl Olson** Micro-Processor, Controlled-Air Adjustment for Household Boilers
- Julia Phillips** Flashing Emblem Creates Safer Roads in Winter
- Shane Powers** Advanced Tracheal Device
- Pete Seims** Heated Trailer Brakes
- Isaac Thompson** Cold-Weather, Energy-Dense Battery
- Sabrina Yarsley** Temporary, Sunscreen-Reminder Tattoos



Photos courtesy of Maureen McCombs



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