ROUTINELY WINS INNOVATION COMPETITION

Charlie Parr poses with a check for $10,000 after winning the top prize at the 2014 Arctic Innovation Competition. Parr and team members developed Routinely which is an open-source software platform that simplifies the use of unmanned aircraft. The software lets users control their drones and the payloads with their phones, tablets or computers. Routinely is part of the ArcticFire Development Corporation. The team includes: Bruce Crevensten, Rayjan Wilson, Michael Lindgren, Will Fisher and Charlie Parr. For more information visit their website at http://www.flyroutinely.com

INVENTORS’ FORUM

Stewardship of Oil and Gas Lands and Waters

In October 2014, presenter Bill Streever, biologist and author, discussed technological needs related to ecological stewardship in the oil and gas industry. In attendance were 26 UAF faculty, staff and students in the Elvey Globe room. Mr. Streever drew from examples related to tundra restoration, pipeline installation, protected species monitoring, geophysical exploration, underwater sound and remote sensing.

OIPC hosts quarterly inventors’ forums on various topics of interest at the University. Keep up to date on the next forums by visiting our website.

NEW LICENSES

GeoNorth, LLC, has acquired the exclusive rights to resell the State of Alaska’s Statewide Digital Mapping Initiative’s (SDMI) 2.5m ortho imagery dataset which was developed in conjunction with UAF’s Geographic Information Network of Alaska and the State of Alaska’s Department of Natural Resources. GeoNorth worked with the Nanook Innovation Corporation, a non-profit corporation which supports the University of Alaska Fairbanks, and Airbus DS Geo, Inc. to acquire these rights. This marks the very first time Alaska’s SDMI ortho imagery is available to commercial users. For more information please read the official press release.

V-ADAPT, the first start-up company based upon UAF developed intellectual property, has licensed a modeling calibration technique known as Val/Cal. This technology improves future forecasting by rapidly validating the accuracy of existing particle cloud transport and dispersion models. This technology is patent-pending.

Jago River Air, an Alaska LLC has licensed Airborne FODAR, an airborne digital SLR photogrammetry technique perfected by the Institute of Northern Engineering’s Matt Nolan. Airborne FODAR makes topographic maps more precise by capturing images with higher accuracy and resolution.

NEW PATENT FILINGs

In October 2014 OIPC filed a design patent application on the “Interlocking Cryovial” invented by Link Olson, Kyndall Hildebrandt and Aren Gunderson of the Museum of the North. At the same diameter as commercial cryovials but half the height, these vials double storage capacity available for small volume samples while fitting perfectly into standard cryovial freezer boxes. These small-volume vials also interlock vertically for secure, easy storage in and removal from standard freezer boxes. The vials can be intermingled with standard cryovials within the same freezer box, allowing the user to dictate the storage volume needed to maximize available space.

In December 2014 OIPC filed a non-provisional patent application on Jack Chen and Fang Ge’s “Pathogen Detection Method” developed through UAF’s Institute of Arctic Biology. This broadly applicable technology called Preferential Amplification of Pathogenic Sequences (PAPseq) can be used to enrich pathogenic sequences in human clinical samples, and does not require prior knowledge by the clinician of the infecting pathogen. This technique minimizes the sample volume needed from the infected individual and provides a fast and un-biased approach to identifying the infecting pathogen.

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