

# 2019 INNOVATIONS LIST



## ACTAGRO PROXIMUS

Name of Inventor: Actagro LLC

T: 306-630-6107 E: kyla.lewis@actagro.com

Location Hall 11, Booth 11323

Proximus is a patent-pending product with a unique blend of carboxylic acid and phenols is a new tool in managing nitrogen for Canadian farmers. Proximus has two major impacts on nitrogen and the crop. First, Proximus uses microbial cycling to reduce nitrate leaching. Secondly, Proximus signals plants to produce fine roots that increase the efficiency of applied nitrogen. Proximus has been proven to increase nitrogen use efficiency (NUE)

## BACKYARD POLLINATOR

Name of Inventor: Jed & Kathy Williams

T: 306-963-2411 E: sales@backyardpollinator.ca

Location Hall 11 – Innovation Pavilion, Booth #11031

Solitary Bee Barn

The Backyard Pollinator brings the little-known commercial solitary leafcutter bee into the limelight by scaling down a product from their family farm for the hobby and small-scale market. Leafcutter bees are super-pollinators for your back yard and garden. These small bees are friendly, efficient and fun to watch for the whole family and the growing community of ecologically aware gardeners.

## BARSI AIR SYSTEM (MORRIS IND.)

Name of Inventor: Barry Barsi & Lawrence Grodecki

T: 306-343-5273 E: ctillman@morris-industries.com

Location Outdoor – Lot F, Booth #9100

The Barsi Air System is a new, innovative air distribution system for the Quantum Drill. The design brings improved strength, longevity, durability, accuracy and ease of use to the market.

## EXPRESS FLUSH VALVE (HYPRO-SHURFLO, PENTAIR)

Name of Inventor: Pentair

T: 651-766-6366 E: erin.temme@pentair.com

Location Hall 7, Booth # 70651, 70653

Express Flush Valve is a boom flushing valve designed to be installed at the ends of each boom section. To allow for fast clean out, enable cleaner booms by removing dead ends where chemicals can build up. The valve removes air from the boom to allow for faster nozzle shut off.

## FARMBUCKS INC.

Name of Inventor: Lynn Dargis

T: 780-614-8044 E: hello@farmbucks.com

Location Hall 11 – Innovation Pavilion, Booth #11122

Provide an efficient way for farmers to identify grain pricing opportunities around them to make confident and profitable decisions. We show 12 months data and integrate premiums and discounts to make prices easy to compare.

## FIRETAMER

Name of Inventor: Clark Oberholtzer

T: 403-485-8198 E: sdoberholtzer@hotmail.com

Location Hall 11 – Innovation Pavilion, Booth #11035

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The FireTamer is a front mount turret styled remote controlled water cannon primarily intended for mounting on high clearance sprayers. The adjustable water cannon has 180 degree of horizontal travel and 70 degrees of vertical travel with a remote on/off valve for the supplied water. The unit utilizes the existing tank and pump from the sprayer to provide a 100 foot "shot" distance of 85 gpm water in a focused stream essentially turning the sprayer into a field fire truck. The unit could also be installed on a water truck to allow for one man fire suppression operation. Video of initial unit working off truck bumper mount is available on YouTube at FireTamer.ca along with a small slideshow. The primary purpose is to aid the farming industry in fighting field and grass fires. A video of initial unit is available on YouTube

## FIRST PASS

Name of Inventor: First Pass Technologies Inc.

T: 306-725-9224 E: info@firstpass.ag

Location Hall 11 – Innovation Pavilion, Booth # 11091 & 11093

First Pass is a subscription-based route optimization software solution built by farmers for farmers. First Pass integrates with the existing equipment guidance technology to reduce redundant passes in field by optimizing guidance lines, enabling farmers to increase productivity and profits while reducing environmental impact such as soil compaction across their farm.

First Pass increases field efficiency by making it easier to manage equipment and labour while reducing unnecessary passes in a field, all without affecting production.

## HAZARD ID VR

Name of Inventor: White Rabbit VR – Mike MacNaughton

Phone: 306-721-2590 E: mike@twistedpairproductions.com

Location Hall 11 - Innovation Pavilion, Booth #11033

A state of the art, industry approved virtual reality training system to complement traditional classroom training. This tool let workers see the dangers in the virtual world so that they can avoid them in the real world. Studies show VR training helps workers learn 23% faster and retain information over 1,000 % better.

## MIXMATE FUSION – PRAXIDYN

Name of Inventor: Brent Applegate, Luke Applegate, Doug Applegate

T: 402-740-8919 E: doug.applegate@praxidyn.com

Location Hall #11 – Innovation Pavilion, Booth #11004

The Mixmate Fusion combines the best feature of Mixmate in an economical package. The Mixmate Fusion measures by flow for automatic chemical mixing from bulk products and a specially designed plastic inductor which measures by weight all in one compact unit. The record keeping is automatic. The new plastic inductor with stainless frame design has a high floe rate rinsing system for dry products and the new software and electronics support a manifold of multiple valves to automatically route multiple bulk chemical inputs and rinse water through a single flowmeter. The Fusion has the same patent-pending jug processing system as the original Mixmate to drain, measure, rinse, record and reconcile the data from a jug in about 12 seconds. The scale and flowmeter come pre-calibrated and no additional calibrations are needed in the field. Fusion is compatible with existing Mixmate components for system expansion through CAN Bus connections.

## MAXXIM SILO

Name of Inventor: Arno Keller

T: 403-668-0688 E: arno@nrgdivestitures.com

Location Hall 11 – Innovation Pavilion, Booth #11120

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Maxxim Industries was started in 2017 with the intent to provide more safety for workers that are around silos, reduce the amount of workers needed to load and reload silo's, reduce times to setup time of portable silo's, and provide end users with real time data for improved logistics. Maxxim Industries has built 30 silo's all being used by Sand Revolution who has an exclusive to the United States for sand fracking in the Permian Basin. Please google you tube under Sand Revolution too see the silo's in action. There are 6 silos with the package and each silo holds 500,000 lbs. Total storage on site in 3,000,000 lbs. Each Silo can be setup in 3 mins. Also with the Maxxim package comes with 20 trailers each holding 27 tons and loaded in 6 mins. and one conveyor belt. The Complete set of the equipment can be done in under 2 hours with 2 workers.

Maxxim Industries is bring this system to the farm industry, gravel business, cement and sanding of highways in the winter. We know with a portable system there is improved safety for workers and end users, reduce traffic on the roads (Reduce carbon Footprint). The Maxxim Silo's are safer to operate, more time efficient and very cost effective.

We also have a Super Bee for hauling grain at the show. This is the lightest Super Bee and most efficient trailer to load and unload due to the welding used on the trailers. Maxxim Industries can custom build any trailer for any industry just come by the booth to discuss innovation you would like to see.

Let's discuss today your finance options or purchase of this innovative system

## OUTBACK WRAP – (WALKABOUT MOTHER BINS)

Name of Inventor: David Hedt

T: 605-380-1817 E: dave@usakangaroo.com

Location Hall 11 – Innovation Pavilion, Booth #11006

Polyethylene wrap that is colored. It is different lengths and has numbers and letters lasered into it to easily identify hydraulic hoses and where they should be connected to the tractor. It comes as standard hydraulic coloring for any tractor. To assist in hooking implements to agricultural tractors. They will not go brittle or break, nor will it fade over time.

## PRAIRIE FILTER FLOAT LTD. (FILTER FLOAT)

Name of Inventor: James and Nathan Breti

T: 306-7467205 E: jbrete@sasktel.net

Location: Hall 7 – Booth #70120, 70122

A device to be able to use large water filters without having to enter the water. To use as little as 10 inches of water in low level conditions. Use the filters without disturbing fine debris in the pond. Reduces travel time and installation time saving fuel and reducing liability exposure.

## PRECISION.AI

Name of Inventor: Daniel McCann

T: 306-581-6888 E: dan\_nospam@precision.ai

Location Hall 11 – Innovation Pavilion, Booth #11009

Precision AI produces artificially intelligent drones for fully autonomous farming. The AI-powered machines make decisions at the per-plant level, allowing a level of yield optimization unattainable by humans. The product consists of a platform of drones that autonomously monitor their fields in real-time and spray weeds as they emerge. Through this technology, crop inputs are projected to be reduced by 18%, generating a 52% improvement in annualized return over total expenses.

## PROAG BALE TITAN RXR (MORRIS INDUSTRIES)

Name of Inventor: Mark Benko

T: 306-343-5273 E: ctillman@morris-industries.com

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Location Outdoor – Lot F, Booth #9100

The ProAg Bale Titan RXR is our newest bale hauling product, bringing never before seen speed, durability, ease of use and versatility to ProAG's well-renowned hay equipment line in addition to its' customers.

## QUANTUM GENETIX APP

Name of Inventor: Quantum Genetix

T: 306-956-2092 E: heather@quantumgenetix.com

Location Hall 11 – Innovation Pavilion, Booth #11095

The Quantum Genetix App compliments the Q-protect sclerotinia test. Q-protect provides farmers with a snap shot in time of the presence of spores and the potential risk for sclerotinia disease development. The App not only delivers the test results, but also provides a cost analysis calculator to make fungicide application decisions easier. Farmers will be able to access all of their results and view them simultaneously within the app, making it easier to see how disease risk might change over time and how disease risk might vary across all farmed acres. Farmers will also have the ability to share this knowledge with their crop advisor, retailer or certified advisor. There are currently no technologies like this available in the crop protection industry, which makes it very unique and attracts a lot of positive attention.

## RAVEN INDUSTRIES CANADA - AUTOBOOM XRT

Name of Inventor: AutoBoom XRTT

T: 605-335-0250 E: Meagan.huisman@ravenind.com

Location Outdoor Lot F, Booth #9110

The purpose of AutoBoom XRT is to provide boom height control over challenging terrain to increase sprayer efficacy. Auto Boom XRT is the first boom leveling product to use radar sensors to measure the distance to the canopy and distance to the ground. Comparatively, other products use ultrasonic sensors – technology vulnerable to water ingress and mounting limitations. AutoBoom XRT's MR dampers automatically varies the center rack suspension over different terrain. AutoBoom XRT offers more control with machine look ahead. Therefore, AutoBoom XRT can predict how the boom will need to react based on the machine movement.

## SOLECTRAC

Name of Inventor: Steve Heckerroth

T: 707-235-8509 E: steve@solectrac.com

Location – Outdoor, Booth #5001

The Electric Utility Tractor can be used on vineyards, small farms, large indoor equestrian arenas, commercial greenhouses, hobby farms and livestock operations. The eUtility tractor can replace any 25 – 40 diesel tractor. It has Category 1 three point hitch and a 540 rpm PTO. At 68 decibels, the quietest tractor ever tested at the International Tractor Testing labs in Nebraska.

## TISDALE'S AG SAMPLING SYSTEMS INC.

Name of Inventor: Kim Althouse & Bill Martin

T: 844-347-2461 E: kim@tisdalesamplers.ca

Location Hall 11 – Innovation Pavilion, Booth #11007

Sample Master is the first automated sampler specifically designed to capture a truly representative grain sample while grains and oilseeds are being placed in storage at harvest-time. Primarily designed for use on "swing-away" grain augers, farmers have quickly adapted Sample Master for use on grain baggers, grain dryers and other conveyance systems. Benefits of a representative sample include improved stored grain management and better marketing results. Sample Master is fully adjustable, for sample size and number of samples, never forgets, and no one stands in the dust to gather a sample.



## UNIVERSITY OF NEWCASTLE UPON TYNE – MOLECULAR DIAGNOSTIC

Name of Inventor: Robert Edwards & Nawaporn Onkokesung  
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Location Hall 11 - Innovation Pavilion, Booth #11124

Molecular Diagnostic for herbicide resistance in grass weed. Researchers at Newcastle University have developed and commercialised farm deployable diagnostics that detect and evaluate the severity of resistance to herbicides in wild grasses and to fungicides in pathogens of major crops. Based on protein and DNA detection these diagnostics give real time information on resistance within 20 minutes of sampling and can be used by farmers and agronomists with minimal training. Specifically, the invention relates to novel biomarkers for non-target site resistance in wild grasses. Developed for application in Northern Europe, resistance diagnostics have the potential to revolutionize our ability to get the best of our decreasing arsenal of crop protection agents on a global stage.

## WALKABOUT MOTHER BINS

Name of Inventor: David Hedt  
T: 1-605-380-1817 E: dave@usakangaroo.com  
Location Hall 11 – Innovation Pavilion, Booth #11006

To increase the harvest efficiency, reduce labor costs, equipment costs and enable farmers to harvest longer and without delay. It's first of its kind in North America.

## WOLF ROLL-COUPLING HITCH (WOLF HITCH INC.)

Name of Inventor: Lawrence Wulff  
T: 226-802-1818 E: eric@wolfhitch.ca  
Locations Hall 11 – Innovation Pavilion, Booth #11002

The hitch is a mechanical device designed to couple heavy trucks and trailers and is used as an alternative, the conventional pintle hitch. It is comprised of three component: the insert and receiver assembly mounted to the rear frame of a heavy truck and two trailer components. A draw adapter assembly and a fork and eye coupling device that connects trailer to truck. This hitch provides freedom of motion for truck and trailer to articulate in conventional ways. In place of the traditional pintle hitch, the roll-coupling hitch provides a more solid connection between truck and trailer and maintains the availability of a resistive torque at the trailers drawbar, such that the trailer cannot roll-over independent of the truck.

## X-STEAM-INATOR AGRICULTURE PRODUCTS LTD.

Name of Inventor: Ron Gleim  
T: 306-631-8012 E: r.c.gleim@sasktel.net  
Location Hall 11 – Innovation Pavilion, Booth #11097

Through a tree-step patented process, the X-Steam-Inator uses o-broad electricity to heat water into high temperature steam for broad acre weed control. Controlling weed without herbicides or tillage will be a big benefit to both conventional and organic producers. Weeds growth can be controlled prior to seeding. The X-Steam-Inator should also achieve non-chemical crop desiccation prior to harvest.