



MANITOBA PRECISION AGRICULTURE WORKSHOP

March 5, 2019

175 Musketeer Road E • Southport, MB

The Southport logo is located at the bottom of the poster, centered within a white rectangular box. It features the word "Southport" in a blue, sans-serif font. A blue swoosh is positioned above the letter "h", extending from the left and curving over the top of the letter. The background of the entire poster is a green field of corn plants, which is visible through the white box.

Southport

8:00
-
8:30

Registration

8:30
-
8:50

Breakfast Meet & Greet

8:50
-
9:00

Welcome Remarks

Peggy May, Southport



Mapping Small-to-Midsize Areas Using Fixed Wing RPAS

Matthew Johnson, M3 Aerial

Matthew Johnson is currently the President and CEO of M3 Aerial Productions Inc., a Winnipeg-based RPAS training authority and services provider. He obtained three bachelor's degrees from the University of Manitoba in Physical Education, Geography and Education. He taught high school mathematics in Manitoba from 2012-2017, and founded M3 Aerial Productions in 2015 as a fundamentally service-based business, with a focus on precision agriculture applications for drones. The M3 Aerial Productions Inc. RPAS Ground School program was launched in November 2016 after it was added to the list of Transport Canada-compliant Ground School programs. Over 550 RPAS pilots have graduated from the program. M3 Aerial has flown hundreds of missions, and Matthew has personally logged over 400 hours as Pilot-In-Command time on RPAS systems. Matthew was recently honoured to be listed as one of the Top 7 Drone Visionaries in Precision Agriculture in a report by the Commercial UAV News.

9:00
-
9:45



Precision Ag is Decision Ag

Matthew McDougald, Enns Brothers

Matthew was raised on a cattle operation south of MacGregor Manitoba and is still involved in the farm's operations today. He graduated from the University of Manitoba in 2008 with a Bachelors of Science in Agriculture, majoring in agronomy. After university, Matthew worked for 5 years with Munro Farm Supplies in a sales agronomist position. He is currently with Enns Brothers. For the past 6 years he has been providing Precision Ag services to customers in areas such as data management, electrical conductivity mapping, zone soil sampling, crop scouting and water management.



9:45
-
10:30

Coffee Break

10:30
-
11:00

Opportunities & Challenges in Adopting Precision Ag Technology for Famers and Industry

Eric Busch, Cibus

Eric Busch is a Sales Agronomist for Cibus, a San Diego based biotech company focused on bringing new traits into the Canadian canola industry utilizing gene editing technology. He is a graduate of the University of Manitoba Agroecology degree program and a Professional Agrologist. Over the last 15 years he has resisted specialization by working for non-profit farm organizations, government, and private ag industry in the areas of on-farm research, communications and public relations, ag input sales and agronomy. He believes in the power of precision agriculture to transform farming and agri-business, but also in it's ability to confuse and cause discomfort for many professionals in the industry.

11:00
-
11:30

The Cibus logo, with the word "CIBUS" in a blue, sans-serif font. The letter "i" is stylized with a green leaf-like shape above it. A small "TM" trademark symbol is to the right of the word. The logo is set against a background of green corn leaves.

CIBUS™

Advancing BVLOS in Canada - LOOKNorth Progress

William (Bill) Jeffries, LOOKNorth

William Jefferies is an independent consultant with 38 years experience in managing the development and delivery of operational Remote Sensing solutions to multiple users in over 40 countries. He has worked with several operational earth observation systems, including radar, optical, laser, thermal, magnetic, gravity and electro-magnetic sensors from airborne and spaceborne platforms. He has operations experience in the Arctic and spent several years in SE Asia as a regional manager overseeing airborne radar and geophysics mapping programs. In 1994 he joined RADARSAT International (later MDA Geospatial Services), where he was Director of Operations, Chief Operating Officer and Chief Technical Officer, and was directly involved in the planning, development and operations of both RADARSAT 1 and 2. From 2013 - 2016 he was the Executive Director of LOOKNorth, a Canadian National Centre of Excellence that identifies, evaluates, manages and accelerates the development of remote sensing technologies that support sustainable natural resource development. He holds Bachelor and Master of Science degrees from the University of Toronto, specializing in Remote Sensing. He has served on the executive of the Canadian Remote Sensing Society and has been a subject matter expert for the Ontario Centre of Excellence.



11:20

-

12:00

12:00

-

1:00

Lunch

USC Association

Mark Aruja, Unmanned Systems Canada

Mark Aruja is the Chairman of Unmanned Systems Canada, the national not-for-profit association representing the unmanned vehicle systems community. His involvement with USC started with the inception of the association in 2003. After spending several years on the Executive, he was elected Chairman in 2015. Mark has diverse experience in defence, government, industry and the not-for-profit sector spanning over 40 years. His 32 year aviation career in the Canadian Armed Forces included a number of senior appointments including Wing Commander, responsible for naval aviation, Director of Space Development, and Director General Joint Force Development. Mark leveraged his operational and procurement experience in defence during 12 years as a Business Development Manager with Thales, a multinational company in the defence, aerospace and security sectors.



1:00
-
1:30

RPAS Integration

Fred Petrie & Alan Tay, Aurora Aerial

Fred owned and managed a cargo airline, growing from a single aircraft charter operation to four aircraft in scheduled services, while holding the designations of Accountable Executive, Person Responsible for Maintenance and Operations Manager. In 2004, he acquired one of the first Light Sport Aircraft, pioneering shared use. In 2007, he formed Buoyant Aircraft Systems Inc. (BASI) to pioneer the commercial use of airships in Canada; BASI continues today as an R&D company that continues innovation in buoyant lift technology. With his spouse, he operated travel agencies over fifteen years. He has worked as an independent financial advisor and published "THE END OF WORK – Financial planning for people with better things to do". Fred owns and manages an airport in the north. Last year, he incorporated Aurora Aerial Inc. for the commercialization of innovative aeronautical technology. It launched October 1st with Sunward Science & Technology of China, with rights to commercialize Sunward's general aviation products, both piloted and remotely piloted aircraft, throughout North America.

1:30
-
2:00

Please see next page for the biography of Alan Tay.

Alan Tay, is a bilingual Master postgraduate of Aviation Management Degree with over 20 years of aviation experience as ATPL Class 1 Instructor. Alan was from Singapore Airforce, flying on the C130. He came to Canada to experience both the general and commercial aviation from Part 702 (Aerial Works) to Part 705 (Airline Operation). Alan has been involved in International flight training mainly with Asia Pacific since 2008 and was instrumental in developing the first online ground school in Canada in 2004; the Integrated Pilot program in Moncton in 2006; Integrated Pilot Program in Buttonville in 2007. Since 2012, he has been involved with a few Asian Corporations as Senior Executive whose capital assets are well over USD 100million. His responsibility ranges from commercialization of new products, to managing a business group.



2:00

-

2:30

Coffee Break

NAV Canada RPAS App, New RPAS Grids

Derek Yakielashek, NAV Canada

Derek Yakielashek has always had an interest in aviation. He applied and was accepted for training as an Air Traffic Specialist in 1989, completing training in 1990. As an ATS, he worked in Sioux Lookout, Ontario; The Pas, Manitoba; Winnipeg, Manitoba and an Arctic tour of duty in Resolute, Nunavut. Derek has endorsements for the Aviation Weather Information Service (AWIS), the advanced Pilot Briefing Service (PBS) and is a certified On-the-Job Instructor, is active with the Manitoba Aviation Council, the Canadian Aviation Executive Safety Network and the Canadian Aviation Regulation Advisory Council. He was a member of the Transport Canada Meteorological Observation and Reporting Standards Working Group and is currently the Airport Operations Specialist for FSS in the Winnipeg FIR providing advice and guidance on air traffic standards and procedures for 11 Flight Service Stations, one Flight Information Centre, 11 Remote Aerodrome Advisory Sites and one Area Control Centre. In 2012, he created the first RPAS database and RPAS operational protocol at NAV CANADA and is responsible for all drone and remotely piloted aircraft systems/unmanned aerial vehicles coordination in the Winnipeg Flight Information Region.

2:30

-

3:00

Transport Canada - RPAS Operations and Regulations

Cindy Haughton, Transport Canada

Cindy has been an Inspector with Transport Canada (TC) for 18 years. The last 10 have been in UAV/RPAS operations and now she is with the RPAS Center of Expertise out of Dorval QC. Prior to TC, she worked in the industry as a Class 1 Instructor and Pilot Examiner. She ended her industry career with Canadian Regional Airlines during the Air Canada merger in 2000. Cindy is currently flying the Transport Canada citation 550 and recently joined ranks as RPAS owner this past Christmas when she purchased a small RPAS for her son.



3:00

-

3:30

Networking Event

3:30

-

4:30

**Thank you to our
sponsor and partner!**

Gold Sponsor

Aurora Aerial



Partner

Unmanned Systems Canada

