



Periodical



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Customer Spotlight

NDDOT Photogrammetry Department



Aerial Cameraman Monte Obrigewitch, DMC and the NDDOT Skymaster

The quarter's Bismarck Aero Center customer spotlight is on the ND Department of Transportation (DOT) Photogrammetry & Plan Preparation Department.

Starting in the early 1970's, the ND DOT has used Aerial Photogrammetry to help with planning, aerial surveying and data collecting for different projects throughout the state. In 2007, the department acquired a high-tech Digital

Mapping Camera (DMC), seen to the upper right, to take high resolution images from 1,200ft or more above the ground. From this distance, the DMC is able to see a 2 inch water value on the ground. These images are used to create 3D plans and animations of a potential project to accurately see what the project could look like if completed.

With being able to use aviation to capture images and survey projects, the DOT is able to continue work on projects all year round, even through North Dakota's most unfavorable weather conditions. The technological advances and precision by those in

the office allow, them to create 3D mapping of locations and be within a tenth foot accurate. Right now, the department is currently working on 33 different projects across the state.

Section Leader, Paul Stubbs, stated "it's good for people to be able to see what their local government is doing to help improve our state." This is one of those things that brings great benefit to North Dakota, but people very rarely know much about it. North Dakota has the smallest DOT Photogrammetry Department in the US. It's only made up of four hard working individuals, but, as Paul Stubbs stated, "boy we do a lot of good work!"



The DMC lenses (101 Megapixels)



The now retired Skymaster and those that have worked with it over the years.

Flight Department adds two

Randy Lewis, CFI

Certified Flight Instructor – Part Time

Randy Lewis joins Bismarck Aero Center with the strong passion for aviation. His aviation career began at UND where he became a Certified Flight Instructor. Randy will be representing Bismarck Aero Center as CFI and he will be immediately working with Twin Engine Flight students along with other introductory students as needed.

Cameron Kostelecky, CFI

Certified Flight Instructor – Part Time

Cameron Kostelecky comes to Bismarck Aero Center with a strong aviation background. Cameron's aviation career began at UND where he worked as a Certified Flight Instructor for the 2012/2013 School Year. In addition, Cameron also logged a few hundred hours of Seneca flight time while working with Weather Modification performing cloud seeding missions. Cameron will be representing Bismarck Aero Center as a CFI with several of our new flight students.

Welcome to



In last quarter's newsletter, we gave you a little teaser about some big news happening with our company. This quarter, it is time to fully introduce Mandan Aero Center.

Located on the Mandan Municipal Airport, Mandan Aero Center is a complete aircraft maintenance facility. We offer a wide range of aircraft services from overhauls and annuals, to aircraft interiors and avionics work. As the Mandan Airport continues to grow, we are looking forward to Mandan Aero Center growing right along with it. The man that will be leading the new effort will be Mike Aarestad, along with Tim Baltzer and Garhett Langer working next to him in the shop.

For those who don't know a lot about Mike, he has been doing aircraft maintenance in the Bismarck-Mandan community for over 35 years and has attended numerous aircraft maintenance training schools. Mike is co-owner of Mandan Aero Center and sister company Bismarck Aero Center. He is also a past president of the North Dakota Professional Aviation Mechanics Association, former FAA FFAST team member and the recipient of the ND Aircraft Maintenance Technician of the Year. His experiences

over the years have given Mike a very practical approach to doing business and his stories will make anyone laugh.

Mandan Aero Center will be having an official ribbon cutting January 31st at 4:00PM. Feel free to come out to the event. Pizza and ribs from A&B Pizza will be provided and make sure to throw your name in for different raffle prizes to be given away.

For more information, check out Mandanaero.com or call 701.663.9925.



Co-owner and Director of Maintenance Mike Aarestad

Mandan Aero Center Teaser

As we have opened our doors to continue the maintenance operations, we are currently making plans to expand our operations to include flight instruction. The plan is to use a

Cessna 150 and two CFI's that are familiar faces at the Mandan Municipal Airport. Stay tuned for more updates in our next periodical!

New Faces



Garhett Langer
Maintenance Assistant

Garhett Langer is joining Mandan Aero Center with a strong desire to grow in the aviation industry. Garhett has a Light Sport Pilot Certification and has passed his written for private pilot's license. He has been working at the Mandan Municipal Airport and will continue

as an apprentice towards his A&P certification. For the future, Garhett aspires to continue growing in the aviation industry and would like to become a commercial pilot. Garhett's experience and positive attitude will be a great addition to our growing team.

In the News

Local pilot and good friend Bruce Burkett had his article printed in the AOPA magazine. Check it out in the December 2013 magazine or at <http://www.aopa.org/News-and-Video/All-News/2013/December/Pilot/Never-Again-Unwelcome-guests.aspx>



Promotion



William Bohrer

Full-Time Commercial Pilot

With the growth in our Pilot Services department, William Bohrer has been promoted to Full-Time Commercial Pilot. Will is no stranger to hard work and leadership, as he has been with Bismarck Aero Center for over 3 years.

He started his work as a Flightline Technician and became a quickly became a mentor to new employees on the Flightline. As his experience and flight hours grew, Will started to take on more of the Flight Department workload and has been able to expand on his passion for aviation. Will's new responsibilities will include managing all student, pilot and flight requests as well as handling new students.

Events



Bismarck Aero Center's booth at the Scheduler & Dispatchers conference



Aviation 101 with Burleigh County 4H at BAC

Product Spotlight

New Alpha Systems AoA

Alpha Systems has just introduced a new line of AoA (Angle of Attack) products. The new AoA systems continually communicate to the pilot, via a grouping of colored lights, the available lift and margin above an actual stall. Thus, increasing the precision of the flight and improving stall/spin situational awareness.

The products use a probe (mounted at least two feet outside any prop tip and at least six inches behind a wing leading edge) that measures pressure at two points. As the AoA changes, these relative pressures change and a relative AoA is computed. Once calibrated, the system can display your relative AoA compared to your maximum lift potential.

In December of last year, Alpha Systems received a letter from the FAA state that their AoA (Angle of Attack) products is a minor alternation and can be installed by any willing A&P with only a logbook entry.

We are a new dealer of the Alpha Systems AoA products. For more information, please call Howard Burns or by email at howardb@bismarckaero.com



Maintenance Corner

We occasionally visit with pilots about leaning the mixture during flight. When a lot of pilots were in training, they were told not lean below 5000 feet. This misnomer is carrying on to this date. This causes unnecessary ground operational checks that have a rough running mag, all caused by extended taxiing with full rich mixture. Maintenance personnel should re-adjust, if necessary, the mixture on the fuel injector or carburetor twice a year; once in the summer and once in the winter (as it can change with the weather). The mixture adjustment generally is only applicable up to 1000 RPM,

and is called "idle mixture adjustments." The fuel scheduling during flight is controlled by the main jets in the units and is not field adjustable on Lycoming engines. This should be checked at each 100 hour inspection or Annual on Continental engines. Turbocharger engines are like turbine engines, in that the air system controls the fuel schedule and is important to be maintained properly. Call and talk to one of the maintenance technicians at Mandan Aero Center or Bismarck Aero Center for any questions.



Events to look forward to

February 17-19	2014 Tri-State Aerial Applicators Convention
March 2-4	Upper Midwest Aviation Symposium, Grand Forks, ND
May 7	11th Annual Aviation Career Day, Bismarck Municipal Airport
May 20-22	Williston Basin Petroleum Conference
June 7	Relay for Life, Bismarck Walk
September 14	4th Annual Bismarck Fly-in/Drive-in Pancake Breakfast

Trivia

The current Mandan Aero Center Hangar was not always located in Mandan. The hangar was once located in what McLean County city as a Studebaker Dealership? Hint: This city was built by the Core of Engineers during the construction of the Garrison Dam.

- A. Garrison
- B. Max
- C. Riverdale
- D. Coleharbor

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www.linkedin.com/company/bismarck-aero-center

Correctly answer before February 21 for your chance to win a \$25 gift card!
Contact Shae Helling at shaeh@bismarckaero.com or 701.223.4754

Last quarters correct answer was C. Amelia Earhart. She was the second person to fly across the Atlantic Ocean and first to solo from Hawaii to California. Congrats to Tyler Gaugler, last quarter's lucky trivia winner.

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