

NORTHERN FLIGHTS



Official newsletter of the Minnesota Ninety Nines Women Pilots

September 2018

So Many **Opportunities**

As we enter into the fall season, I think back on what we accomplished this summer. We came together and were ready for those racers in Faribault...who for the most part never came due to weather. But there were lots of Chapter members there having a good time and getting to know each other. We have another **opportunity** next June in Fairmont to do the same thing. We hope for better weather.

We did three compass roses on the hottest of summer days. Each one was attended by different members, which means we are passing on the tricks of the trade to others. Every time I do a compass rose, I am amazed at its beauty and I leave with a great feeling of accomplishment and camaraderie. We have the **opportunity** to do 4 more next year! If you have never done one, I hope you will try it! The more the merrier and the lighter the load.

Our Outreach Committee has done so much work this year to develop a working program of lesson plans and activities to use with youth or young adults to educate about aviation. (A HUGE thank you to Robyn Stoller for her hours of work developing the materials, which are posted on the Chapter website on the Members Only page). We are ready for the **opportunities** we are already being presented with. Several members just worked at the Girls In Aviation Day at FCM, which was a huge success. Mikaela is doing a talk at a Girl Scout event at the end of October. We have had several other requests for these types of events. If you are interested in helping out at something like this, let us know. There will be lots of **opportunities** to spark an interest in and share the joy of aviation!

As you are all aware, the North Central Section (that's us) is hosting the International 99s Conference in Dayton, Ohio in July 2019. Our Chapter is responsible for registration and all the things that entails. I just returned from the Fall Section meeting in Mansfield, Ohio, where we discussed our tasks. There will be **opportunities** for all of us to do some part of the work, before and during the conference. I hope that as many of you as possible will be able to attend the Conference. It is a great **opportunity** to meet 99s from all over the world. It's a great **opportunity** to tour the US Museum of the Air Force. There will be tours to other points of interest in Dayton, the birthplace of aviation. I hope you will take the **opportunity** to attend what will prove to be a fantastic event. More information will be available soon, as the registration website goes live in October.

We will wrap up our year with our Holiday party at Hummingbird Aviation at Flying Cloud airport. We will have several **opportunities** that day. Great North Auto Gyro will give a presentation on gyroplanes and give us an **opportunity** to take a demo ride. Would you like to try your hand at a crosswind simulator? You will have the **opportunity** to do that as well. And we have the **opportunity** to help our scholarship fund by purchasing pieces of handmade aviation jewelry. And best of all, we have the **opportunity** to socialize with each other and enjoy the camaraderie of the awesome women in our Chapter.

Is that enough **opportunities** for you? If not, I'm sure we will come up with more!! You are welcome to suggest some others!!

Best regards,

Cheryl



MINNESOTA CHAPTER
FOUNDED 1949

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FLYING ACTIVITIES

Oct 17 – @4:30 pm - C-130 Air Base Tour,
Mpls Airport (KMSP)

Dec 1 – Tree of Hope, Maple Lake Airport (KMGG)

Dec 8 – Holiday Gathering & Business Meeting,
Hummingbird Aviation at Flying Cloud Airport (KFCM)

**Check the Minnesota 99s website for more calendar
details for 2018.**

CONGRATULATIONS

Congratulations on your new roles:

Aura Austin assistant chief pilot at FullThrottle
Aviation LLC

Karen Workman, First Officer at Boutique Air

SCHOLARSHIPS

Please see below the deadline dates for scholarships.

Please note if you're planning to apply for an
International AE scholarship documents can be found
on the International website ninety-nines.org and you
need to work with our Chapter AE Scholarship Chair,
Marcy Drescher at marcyd@wctatel.net. Minnesota
Chapter Scholarship documents are on our Chapter
website Minnesota.ncs99s.org.

Deadlines:

Minnesota Scholarships - 12/31/18

International AE Scholarships - 1/1/19 (deadline
to chapter AE Scholarship Chair is 12/1/18)

International Fly Now Scholarship 4/1/19 (deadline
to chapter AE Scholarship Chair is 3/1/19)

Our 99s Humanitarian Award Winner and Role Model: Elaine Morrow

By Robyn Stoller



How proud are we of Elaine Morrow? We are mega-proud! Elaine is the winner of this year's International 99s Award of Achievement for Contributions to Humanitarian Efforts. Nominations for this prestigious award are received from around the world and competition is tough. A sincere congratulations to Elaine on receiving this very special International 99s award.

Elaine has made incredible humanitarian contributions over many years, and continues to do so, in her local community, her church, our 99s chapter and the aviation community at-large. She is a role model for all of us, showing how to give selflessly of yourself to help others live a more satisfying and happy life. Elaine embraces the foundational belief that all human beings deserve respect and dignity and should be treated as such.

To name just a few of Elaine's many humanitarian contributions...

- Flew life-saving blood for the American Red Cross from pick-up sites in 5 states
- Provided support to over 1400 Young Eagles flights and continues to do so!
- Flew / drove daffodils for American Cancer Society across MN
- Provided support in multiple roles to NIFA (National Inter-Collegiate Flying Association)
- Volunteers her time and expertise for Delano Helping Hands Food Shelf, Habitat for Humanity, Special Olympics, Samaritan's Purse, Simpson Shelter, The Ships Project, The Red Scarf project
- Served in every officer role for 99s at chapter, section and international level except Treasurer
- Serves as Vice President of 99s Endowment Fund
- Program Coordinator for Tree of Hope, delivering thousands of toys at the holidays to hospitalized children

Elaine – We salute you and congratulate you on this much-deserved and highly distinguished award. You're the best, and we are privileged to have you are in our chapter. Thank you for all you do!

Tree of Hope

 *By Elaine Morrow*



It's not too early to start planning for a gift collection box at your airport for the Tree of Hope! Wrap a box in holiday paper and ask your FBO if they will allow you to put the box in the FBO to accumulate new, unwrapped toys and gifts for delivery to Maple Lake (KMGG) on Saturday, December 1, 2018. The web site at <http://holidaytreeofhope.org/> has a brochure and a flyer to post by the box, and it would be great if you could send them to your local newspapers to request the community contribute also. Check out the video link on the website also!!

The Tree of Hope gives to every Minnesota hospital with a pediatric unit, several in Wisconsin, and to all five Ronald McDonald Houses, so every toy counts. Donations by credit card can be made via the website, or by check payable to Tree of Hope and sent to Elaine Morrow. Donations may be tax deductible for this 501(c)3 charity.

Thanks for your help – every toy counts!

Girls In Aviation Day

By Mikaela Sandager

Selfie with #AmeliaEarhart was a big hit at Girls In Aviation Day! On September 22nd industry partners got together at FCM for the annual event to share our love of aviation with the next generation of women. Robyn's idea for a life-size Amelia cutout was a big hit! We had an aviatrix's hat and goggles available for dress up and a picture with Amelia. Special thanks to Robin Giguere, Holly Latcham, Robyn Stoller, and Emily Wishard for volunteering! And a shout out to Tracy Lovness who was spotted volunteering at the Air Race Classic booth!

Tweet from an attendee



Tweets Tweets & replies Media Likes



Caroline Little @Mada... · 9/22/18 ✓
Had a great time at #GirlsInAviation day; merci @WomenInAviation for inspiring my daughters! #giad18 @Minnesota99s @AirForceAssoc "I believe that a girl should do not what she thinks she should do, but should find through experience what she wants to do."- #AmeliaEarhart



Membership Report - 2018

By Patti Sandusky

The Minnesota Chapter is the second largest chapter in the North Central Section at 79 members. Of those 19 are International members only and are assigned to our Chapter. There are many reasons why this happens – just joined International and have not yet had a chance to join at the chapter level; have not renewed for various reasons (i.e., forgot, are not interested in being active at the chapter level, etc.). It is important to be active at the Chapter level for many reasons including mentorship, scholarships, reference letters, and to meet other great women.

Also of the 79 members 16 are student pilots – the largest number we've ever had. I'm excited to see this number grow!

Patti Sandusky
Membership Chair

Flying Around Thunderstorms

By Jeff Van West

“The right answer is you turn far enough to stay away, but you can use a handy math trick to get a heading that’s roughly what you want. One degree of turn will displace you one nautical mile for every 60 nautical miles you travel. So one degree of turn to the left will put you 1.3 nautical miles left or right of your current course in 80 miles.

You want to pass the storm with 20 miles to spare, so let’s say you want to displace about 25 miles to the left by the time you get there.



If one degree of deviation will get you 1.3 miles left of a storm 80 miles away, a 10-degree turn will get you 13 miles left of course, and a 20-degrees will get you 26 miles. Therefore, turning left or right as looks better by 20 degrees is a good start.

If the storm isn’t moving much, or it’s moving away from you, that’ll do the trick. If the storm is moving toward you, you can either add five degrees or just reassess as you go. It’s usually bad form to turn in the same direction a storm is moving and try to pass in front—similar to the bad form of crossing the tracks ahead of an oncoming freight train. If you must, add lots of extra room.

This trick can also be used when approaching an airport perpendicular to the landing runway and Tower tells you to enter a left base directly. Suppose you’re 10 miles from the airport, the runway is a mile long, and you want that base leg to be about half a mile from the runway. Half the runway length is half a mile, plus the half-mile for your base, means you want to target a point about a mile from the airport center.

If you turn just one degree right of that GPS-direct heading that was taking you to the airport center, by the time you travel 10 miles you’ll be displaced about one-sixth of a mile from the airport center. So if you turn six degrees right, after 10 miles you’ll be displaced about one mile—perfect to enter a left base as instructed.”



FAA RELAUNCHES ADS-B REBATE

By AOPA Communications staff

The FAA on Oct. 12 reopened the \$500 rebate program to support Automatic Dependent Surveillance-Broadcast (ADS-B) Out equipage. The program that had ended in September 2017 will now close Oct. 11, 2019. The agency is making \$4.9 million available under the new rebate program, which will help to fund 9,792 new ADS-B Out installations.

Beginning Jan. 2, 2020, aircraft flying in airspace where a transponder is necessary today will be required to be equipped with compliant ADS-B Out technology.

In a statement provided to AOPA prior to release, FAA Acting Administrator Daniel Elwell said, “The ADS-B mandate is not going away. We are about 15 months from the January 1, 2020 deadline and now is the time for aircraft owners to equip.”

AOPA President Mark Baker said, “Pilots across America thank Acting Administrator Elwell for reopening the ADS-B out rebate that will make our skies safer and more efficient by incentivizing even more pilots to adopt the cutting-edge technology. This is the last opportunity for GA aircraft owners to take advantage of the FAA rebate in meeting the 2020 deadline.”

The previous rebate program, which ran from Sept. 19, 2016, to Sept. 18, 2017, issued more than 10,000 rebate payments.

Baker continued, “Over the past four years, AOPA has worked with the FAA and manufacturers through the Equip 2020 Working Group to develop lower cost solutions, especially for those flying legacy aircraft which often are not already equipped with a Wide Area Augmentation System GPS sensor, a necessary component for ADS-B Out. As a result of this collaboration, the cost of the equipment has dropped from more than \$5,000 a few years ago to less than \$2,000 today.”

A number of avionics manufacturers have recently released lower cost products that meet compliance regulations. The Appareo Stratus ESG and Garmin GTX 335 transponders are both \$2,995 plus installation, and the Garmin GDL 82 universal access transceiver—which works in conjunction with an existing transponder—is \$1,795 plus installation. uAvionix has promised lower cost products that replace aircraft navigation lights, including the skyBeacon, a UAT priced at \$1,849 plus installation, which is eligible for installation on certified aircraft as well as experimental and light sport aircraft.

As before, there are five steps aircraft owners should follow to meet the mandate and receive the \$500 rebate. First, purchase the equipment and schedule installation. Second, get a Rebate Reservation Code by reserving a position online. Third, install the equipment. Fourth, conduct the required equipment performance validation flight and get an Incentive Code. Fifth, claim the \$500 rebate online using the Rebate Reservation Code and Incentive Code.

A number of aircraft owners have seen issues with the performance validation flight requirement of the original rebate program, and AOPA recommends a number of steps to minimize the odds of failing the validation flight.

As with the earlier rebate program, the FAA reports that the new rebate program is available only to those who have not yet equipped their aircraft. Full rebate rules are available on the FAA website.

To help determine which ADS-B products might be best for your aircraft, see the AOPA ADS-B Selection Tool online.

An AWESOME Experience - Idaho Back Country Flying Program

By Robyn Stoller



Looking for a new and challenging flying experience? Sheila Gruba found an amazing experience in Idaho's back country this summer. She attended a 5-day program called Women Wise Awesome Adventures led by Christina Tindle. <https://www.christinatindle.com/wwaa.html> This year the program included 15 women participants, flight instructing staff, massage therapist and life coach. Sheila and the other women could choose morning flying times of 6 a.m.-9 a.m. or 9 a.m.-noon, with an opportunity to fly in the evenings, if an instructor was available. Participants could try different types of flying (float plane, tailwheel plane, gyroplane, upset training and back country flying)

Lunch was served each day at noon and program leader Christina Tindle facilitated seminars to help participants create individual life plans. A massage therapist was available and an artist led 'painting parties' and drawing classes. Sheila was actually able to paint her airplane on a small canvas!

The flight instructors were exceptional. Sheila said one instructor she flew with was the best she'd ever had, Bob Del Valle (www.halloflighttraining.com). He gave ground instruction in mountain flying and survival techniques. He knows Idaho back country air strips well and Sheila obtained her high performance endorsement in his Cessna 182 (Congratulations Sheila!) along with gaining high altitude flying skills and training on how to put a plane down in trees in case of emergency. Sheila also flew with a different instructor in a Cessna 172 and gained retractable gear experience.

The program is based out of Cascade, ID (U70). Sheila said it was very different flying from there because airports you fly to have no METAR weather information. You'd get general weather for the area, fly to the airport, and then check the wind sock and sky to figure out which way you were flying.

Taking off from Cascade, circling climbs are necessary to get over the mountains at 9500'. Sheila got good experience flying in canyons too. She said it was necessary to get used to the feeling of being 'boxed in' while canyon flying. She said the 'Cadillac' of Idaho back country air strips is Johnson Creek. It has sprinklers on the runway, WIFI and showers! Johnson Creek is a beautiful place and very popular, and also a challenging place to land a plane. Pilots must get very close to a canyon wall (about 15 feet close!), then turn base which is also very close as you are boxed in.

Sheila saw amazing views of the mountains everywhere, and even got to fly a gyroplane, which was fun she said, but not as fun as the back country flying.

The 5-day program was exhilarating, fun, educational and motivating for everyone. Sheila had an AWESOME time. It's a program offered annually, so next time you're looking for a new flying challenge, consider the Women Wise Awesome Adventures Flying program. You'll come home with increased confidence and new flying skills!

Accomplishments



**Sauk Center Airmarking
September**



**Claire Nelson received
her Private Pilot Certificate
September 27**



**Christina Larson completed her
CFI oral/practical exam and
checkrides on Sept 7, 2018.**

Cheese Boat

Courtesy of Trisha Yearwood



Ingredients

1 loaf French or Italian bread

Two 8-ounce packages cream cheese,
at room temperature

10 ounces sharp Cheddar, grated
(about 2 1/2 cups)

6 ounces corned beef, such as Carl Buddig,
finely chopped

1 bunch green onions, finely chopped

1 medium tomato, finely chopped

1/2 red bell pepper, cored, seeded and
finely chopped

1/2 teaspoon hot sauce, such as Tabasco

1/2 teaspoon chili powder

Large corn chips, for serving

Preheat the oven to 350 degrees F.

Cut an oval in the top of the loaf of bread, scooping out the bread in the center and make a "bread boat." Place the bread on a cooking sheet.

In a large bowl, mix the cream cheese, Cheddar, beef, green onions, tomatoes, bell peppers, hot sauce and chili powder until fully combined. Spoon the mixture into the hollow center of the bread loaf.

Bake for 30 minutes, until bubbling, and serve warm with corn chips.

PILOT RESOURCES

We have talented flight instructors willing to provide their services. Please feel free to reach out to any of the ladies below to tap into their aviation experience.

Aura Austin

CFI
23541 3rd Ave,
Mankato, MN 56001
(507)380-7085

Cheryl Daml

CFI ratings: Private, Instrument,
Commercial, CFI, CFII
612-272-9717
cdaml@msn.com
Airport: Anoka, MN

Marcy Drescher

CFI ratings: Single and Multi engine
Instrument, Glider
507-265-3488, cell 507-473-0167.
65560 180th St., Alden, MN 56009.
marcyd@wctatel.net.
Airport: Wells, MN.

Mikaela Sandager

CFI ratings: Private
10461 4th St NE
Hanover MN 55341-4050
C (612) 816-1439
mikaela.sandager@gmail.com

Kjersti Kittelson

CFI/CFII ratings: Private, Instrument,
Commercial ASEL and ASES
Multi-instructor
651.769.7093
kjerstiliv@gmail.com
Airport: Airlake or lower metro airports.

Feel free to send any additional resources/websites you would like to be seen here in the future to Thuy at aviatrix99@mac.com



THE NINETY-NINES, INC.
International Organization of Women Pilots



WEBSITES

<http://minnesota.ncs99s.org>

<http://www.mnpilots.org/>

<http://www.ninety-nines.org>

<http://avmedmn.com>

<http://www.aopa.org/asf/publications/flashcards/>

<https://www.aopa.org/training-and-safety/online-learning>

<http://www.faa.gov>

Safety seminars <https://www.faasafety.gov/spans/events/EventList.aspx?statecd=MN>

<http://www.dot.state.mn.us/aero/avoffice/aviationaz.html>

Click on Aeronautical chart

<http://www.eaa.org>

http://www.nxtbook.com/nxtbooks/aopa/flashcards_201310/