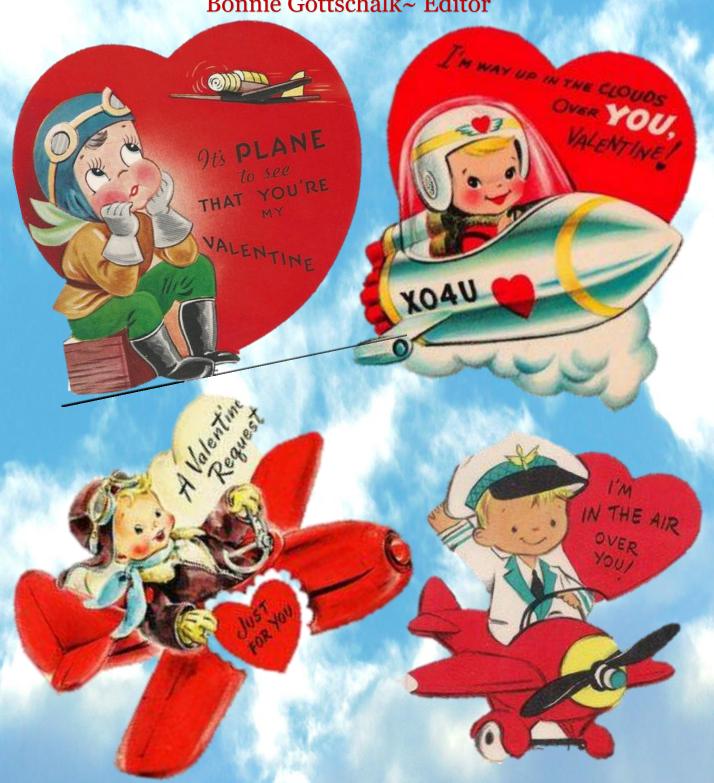
The Outer Marker

Gateway EAA Chapter 1401

Volume 16 Issue 2 Bonnie Gottschalk~ Editor





Happy Valentine's Day!

Hello Flight Enthusiasts!

Susan Bell! Wow! What an awesome guest speaker. You won't want to miss this month's meeting! That being said, John unfortunately will be missing it. I will be there to take photos and fill him in on what he missed. He will be on a cruise to Mexico with his father for his Uncle's 80th birthday. Last month's meeting was a great

success with Linton's presentation on the Wright Brothers being the highlight of the morning.

On the 13th of the month I will be flying to Las Vegas commercially because we still do not have our Cessna back. John will be driving there with his father. We are meeting my son and his family there to celebrate our 25th Anniversary. On Valentine's Day 1995 we were married in Las Vegas. We are not reenacting the actual event but will be going to the Excalibur Tournament of the Kings dinner show like we did after our wedding. So excited!

Please note that our meeting location has been moved to a new location. We will now be meeting at Gateway Community Church at 353 E. Donna Dr. in Merced. Also the time has been pushed back to 9:30 AM to give those who wish to eat beforehand the time to do so. Refreshments will be available.

May all your journeys be safe & all your touchdowns be smooth.

Bonnie G.

You Won't Want To Miss This Month's Meeting!



Competition aerobatic pilot Susan Bell will present her journey from student pilot, through spin training, to her first aerobatic contest with 168 hours in her logbook and winning the Sportsman National Aerobatic Championship. She'll dive into aerobatic competition, including the Aresti language, basic rules and concepts, and the aerobatic box, and talk about IAC's relationship to EAA and how to get involved, whether you're interested in flying inverted or not.



Susan Bell took her first spin lesson in a Citabria, fell in love with unusual attitudes and within months began competing in aerobatic contests in a Super Decathlon. A commercial airplane and glider pilot, and CFI, she won the U.S. National Sportsman Aerobatic Championship in 2018 in her third year of competition. Susan currently competes in the Intermediate category in a 1990 pink, blue and white Extra 300 and is the President of IAC Chapter 26, the oldest aerobatics chapter in California.

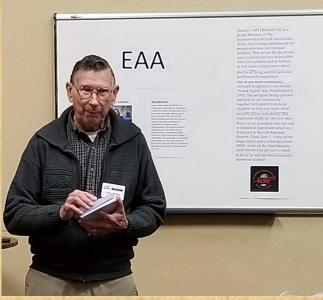
When not flying upside down, she works at NASA's Jet Propulsion Laboratory in Pasadena, CA, in Earth science public engagement and can be found every summer at Oshkosh AirVenture speaking about NASA Airborne Science and IAC aerobatics. She can be found on Twitter, Facebook and Instagram @susanbellair when she's not flying in the skies of the Mojave Desert out of Fox Field in Lancaster, California.

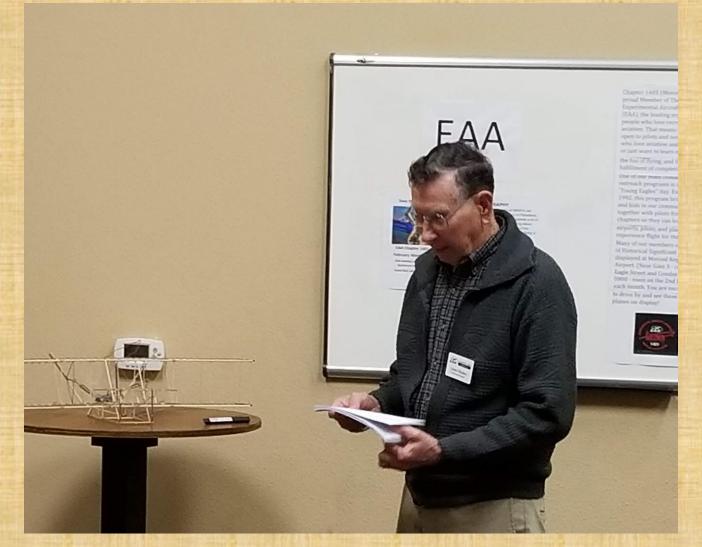
2020 Gateway EAA Meeting Schedule

Board	General	Meeting	Meeting
Meetings	Meetings	Location	Agenda and Activity
Jan 30	Feb 8	Gateway	Aircraft Display and Social
	77040000	Community	with water, coffee and treats
330000 at 1		Church	Guest Speaker, Susan Bell Competitive
			Aerobatic Pilot
Mar 5	Mar 14	Gateway	Aircraft Display and Social
		Community	with water, coffee and treats
ALC: YELL		Church	
Apr 2	Apr 11	Gateway	Aircraft Display and Social
J030	100	Community	with water, coffee and treats
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Apr 30	May9	Gateway	Aircraft Display and Social
	74)	Community	with water, coffee and treats
		Church	AND CONTRACT OF STREET
Jun 4	June 13	Gateway	Aircraft Display and Social
- A	1 × 1	Charack	with water, coffee and treats
Lulu 2	India 44	Church	Aircraft Display and Casial
July 2	July 11	Gateway	Aircraft Display and Social
The second	Balan (III)	Community Church	with water, coffee and treats
July 30	Aug 8		Aircraft Display and Social
July 50	Aug o	Gateway Community	Aircraft Display and Social with water, coffee and treats
N	Say Table	Church	with water, conee and treats
Sept 3	Sept 12	Merced	Young Eagles Flights
Care 1/4/3.	1,000,000	Airport KMCE	Touring Euglies Finghts
Oct 1	Oct 10	Gateway	Aircraft Display and Social
(T)		Community	with water, coffee and treats
Admin	And the State of the	Church	
Nov 5	Nov 14	Gateway	Aircraft Display and Social
		Community	with water, coffee and treats
		Church	
Dec 3	Dec 12	Bodine's	Chapter Christmas party
Det 3	Dec 12	bouille 5	Chapter Christinas party

CHAPTER EVENTS







CHAPTER EVENTS



Lift Your Spirits

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You gotta love the Canadian sense of humour.



A BIT OF HISTORY

Meet the Night Witches

Daring Female Pilots Who Bombed Nazis By Night.
They were a crucial Soviet asset to winning World War II.



Women pilots of the "Night Witches" receiving orders for an up-coming raid. (Credit: Sovfoto/UIG via Getty Images)

They flew under the cover of darkness in bare-bones plywood biplanes. They braved bullets and frostbite in the air, while battling skepticism and sexual harassment on the ground. They were feared and hated so much by the Nazis that any German airman who downed one was automatically awarded the prestigious Iron Cross medal.

All told, the pioneering all-female 588th Night Bomber Regiment dropped more than 23,000 tons of bombs on Nazi targets. And in doing so, they became a crucial Soviet asset in winning World War II.

The Germans nicknamed them the Nachthexen, or "night witches," because the whooshing noise their wooden planes made resembled that of a sweeping broom. "This sound was the only warning the

Germans had. The planes were too small to show up on radar... [or] on infrared locators," said Steve Prowse, author of the screenplay The Night Witches, a nonfiction account of the little-known female squadron. "They never used radios, so radio locators couldn't pick them up either. They were basically ghosts."

Using female bombardiers wasn't a first choice. While women had been previously barred from combat, the pressure of an encroaching enemy gave Soviet leaders a reason to rethink the policy. Adolf Hitler had launched Operation Barbarossa, his massive invasion of the Soviet Union, in June 1941. By the fall the Germans were pressing on Moscow, Leningrad was under siege and the Red Army was struggling. The Soviets were desperate.

The 588th's first mission, on June 28, 1942, took aim—successfully—at the headquarters of the invading Nazi forces.



A Woman Leads the Charge

The squadron was the brainchild of Marina Raskova, as the "Soviet Amelia Earhart"—famous not only as the first female navigator in the Soviet Air Force but also for her many long-distance flight records. She had been receiving letters from women all across

the Soviet Union wanting to join the World War II war effort. While they had been allowed to participate in support roles, there were many who wanted to be gunners and pilots, flying on their own. Many had lost brothers or sweethearts, or had seen their homes and villages ravaged. Seeing an opportunity, Raskova petitioned Soviet dictator Joseph Stalin to let her form an all-female fighting squadron. On October 8, 1941, Stalin gave orders to deploy three all-female air force units. The women would not only fly missions and drop bombs, they would return fire—making the Soviet Union the first nation to officially

allow women to engage in combat. Previously, women could help transfer planes and ammunition, after which the men took over. Raskova quickly started to fill out her teams. From more than 2,000 applications, she selected around 400 women for each of the three units. Most were students, ranging in age from 17 to 26. Those selected moved to Engels, a small town north of Stalingrad, to begin training at the Engels School of Aviation. They underwent a highly compressed education—expected to learn in a few months what it took most soldiers several years to grasp. Each recruit had to train and perform as pilots, navigators, maintenance and ground crew. Beyond their steep learning curve, the women faced skepticism from some of the male military personnel who believed they added no value to the combat effort. Raskova did her best to prepare her women for these attitudes, but they still faced sexual harassment, long nights and grueling conditions. "The men didn't like the 'little girls' going to the front line. It was a man's thing." Prowse told HISTORY.

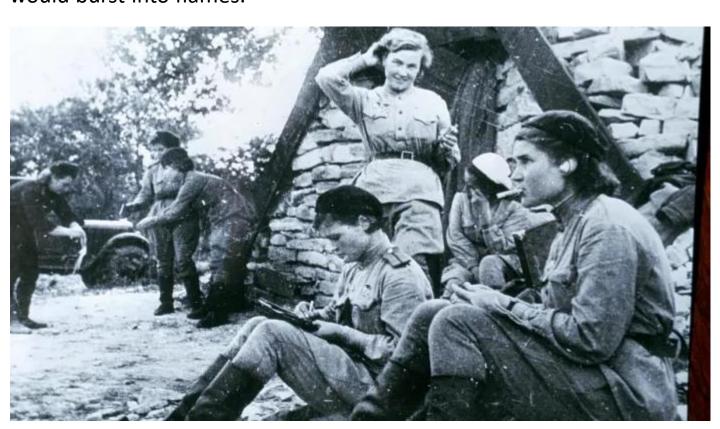
Making Do With Hand-Me-Downs and Relics

The military, unprepared for women pilots, offered them meager resources. Flyers received hand-me-down uniforms (from male soldiers), including oversized boots. "They had to tear up their bedding and stuff them in their boots to get them to fit," said Prowse.

Their equipment wasn't much better. The military provided them with outdated Polikarpov Po-2 biplanes, 1920s crop-dusters that had been used as training vehicles. These light two-seater, open-cockpit planes were never meant for combat. "It was like a coffin with wings," said Prowse. Made out of plywood with canvas pulled over, the aircraft offered virtually no protection from the elements. Flying at night, pilots endured freezing temperatures, wind and frostbite. In the harsh Soviet winters, the planes became so cold, just touching them would rip off bare skin.

Due to both the planes' limited weight capacity and the military's limited funds, the pilots also lacked other "luxury" items their male counterparts enjoyed. Instead of parachutes (which were too heavy to carry), radar, guns and radios, they were forced to use more rudimentary tools such as rulers, stopwatches, flashlights, pencils, maps and compasses.

There was some upside to the older aircraft. Their maximum speed was slower than the stall speed of the Nazi planes, which meant these wooden planes, ironically, could maneuver faster than the enemy, making them hard to target. They also could easily take off and land from most locations. The downside? When coming under enemy fire, pilots had to duck by sending their planes into dives (almost none of the planes carried defense ammunition). If they happened to be hit by tracer bullets, which carry a pyrotechnic charge, their wooden planes would burst into flames.



(Credit: Nikolai Ignatiev/Alamy Stock Photo

Long Nights, Stealth Tactics

The Polikarpovs could only carry two bombs at a time, one under each wing. In order to make meaningful dents in the German front lines, the regiment sent out up to 40 two-person crews a night. Each would execute between eight and 18 missions a night, flying back to re-arm between runs. The weight of the bombs forced them to fly at lower altitudes, making them a much easier target—hence their night-only missions.

The planes, each with a pilot upfront and a navigator in back, traveled in packs: The first planes would go in as bait, attracting German spotlights, which provided much needed illumination. These planes, which rarely had ammunition to defend themselves, would release a flare to light up the intended target. The last plane would idle its engines and glide in darkness to the bombing area. It was this "stealth mode" that created their signature witch's broom sound.

There were 12 commandments the Night Witches followed. The first was "be proud you are a woman." Killing Germans was their job, but in their downtime the heroic flyers still did needlework, patchwork, decorated their planes and danced. They even put the pencils they used for navigation into double duty as eyeliner.

Disbanded and Overlooked

Their last flight took place on May 4, 1945—when the Night Witches flew within 60 kilometers (approx. 37 miles) of Berlin. Three days later, Germany officially surrendered.

According to Prowse, the Germans had two theories about why these women were so successful: They were all criminals who were masters at stealing and had been sent to the front line as punishment—or they had been given special injections that allowed them to see in the night.

Altogether these daredevil heroines flew more than 30,000 missions in total, or about 800 per pilot and navigator. They lost a total of 30 pilots, and 24 of the flyers were awarded the title Hero of the Soviet Union. Raskova, the mother of the movement, died on January 4, 1943, when she was finally sent to the front line—her plane never made it. She was given the very first state funeral of World War II and her ashes were buried in the Kremlin.

Despite being the most highly decorated unit in the Soviet Air Force during the war, the Night Witches regiment was disbanded six months after the end of World War II. And when it came to the big victory-day parade in Moscow, they weren't included—because, it was decided, their planes were too slow. (Click to see more photos.)

TAGSWORLD WAR IIWOMEN'S HISTORY BY BRYNN HOLLAND



A partisan airplane, the Polikarpov Po-2, during World War II. (Photo by: Sovfoto/UIG via Getty Images)

Plane & Pilot



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Bonnie Gottschalk

Webpage Editor:

Deb Toland

General Meeting

February 8th 9:30 AM

Gateway Community Church 353 E. Donna Dr. Merced, CA

Board Meeting

March 5th
700 PM
Mike Bodine
2519 Sea Breeze Ct.
Merced, CA

