

EAGLE'S PROPWASH

NOVEMBER 2017 ISSUE

CHAPTER 113 *"The Backyard Eagles"*



Our Web Site:

www.113.eaachapter.org

EAA113@yahoogroups.com

Meetings: 7:30 PM

the 3rd Thursday of each
month at the

EAA 113 AVIATION

EDUCATION CENTER

Mettetal Airport (1D2)

8550 Lilley Road, Canton, MI

(734) 392-8113



Editor's challenge: Can you identify the aircraft, pilot, and boy?

Member Services

Class I Board of Directors:

President: Joe Kirik	(248) 872-3220	president@eaa113.org
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Treasurer: Dave Buck	(734) 223-2675	treasurer@eaa113.org

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David Brent	(734) 755-4587
Dan Jones	(248) 310-6018
Dave Steiner	(734) 645-1150
Doug Sytsma	(734) 674-3345

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Newsletter: Elizabeth Hebron	(734) 776-9294	newsletter@eaa113.org

Class III Board Member:

John Maxfield	(248) 890-6767
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Membership Committee:

Al Bosonetto, Dave Buck, John Maxfield

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Scholarships:

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Debbie Redding	(734) 397-3452
John Maxfield	(248) 890-6767

Young Eagles/Eagle Flights:

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Dave James	(734) 721-4213	

Web: John Maxfield	(248) 890-6767	webmaster@eaa113.org
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Bruce Breisch	(734) 422-2692



CHAPTER MISSION STATEMENT:

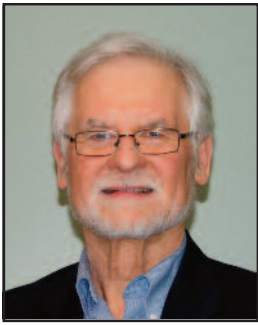
"EAA Chapter 113's major focus is on the relationships with people who have diverse aviation interests, centered around their love of flight, fellowship, learning, and fun."

Chapter members have a passion for flying and are willing to share it with others.

Chapter 113 provides the opportunity for exchange of information, as well as the interaction that leads to friendships that last a lifetime."

BOARD OF DIRECTORS:

"The Board of Directors are to provide both advice and assistance to the chapter officers on an ongoing basis."



PRESIDENT'S *PODIUM*

Joe Kirik (248) 872-3220
president@eaa113.org
November 2017

It's Chilly Chili Time!

The warmer-than-usual fall weather brought many great flying days, but reality finally rolled in and cooler temps are here – just in time for our Fall Chili Fly-In! So fire up those chili pots and bring your favorite chili creation (or a dessert) to the EAA 113 Aviation Center by 11 a.m. on Saturday, Nov. 11. The Chapter will provide hot dogs and drinks until the event wraps up at 2 p.m.

Movie Nights are Back!

November 3 marked the return of Friday Movie Nights with the showing of the classic aviation movie Memphis Belle. Movie Nights will continue on the first Friday of the month through next spring, except for December when it will be on the second Friday (December 8) due to a conflict with Operation Good Cheer (see below). The fun starts at 7:30 p.m. in the EAA 113 Aviation Center, complete with free popcorn.

Chapter Elections

Nominations for Chapter Officer and Board Member positions were made at the October Chapter Meeting. The current Chapter Officers have agreed to stand for another two-year term, and all but one the current Board Members have accepted nominations to continue. Due to demands on his time by his corporate flying duties and fatherhood, David Brent is stepping down from the Board. Thank you, David, for your service to the Chapter! Past President Tom Smith has accepted a nomination to replace David on the Board. Elections will take place at the November meeting, and the newly elected officers and board members will begin their new terms at the Holiday Dinner in December.

November Chapter Meeting

Back in May, we had a great presentation on summer flying tips, so why not winter flying tips six months later? EAA 113 Board Member and Technical Counselor Dan Jones will present some winter flying scenarios and lead a discussion on coping with cold conditions. Please feel free to chime in with your own winter flying experiences and suggestions.

In this month's EAA Chapter Video, Chapters Chief Charlie Becker reveals new software from EAA for Young Eagles rally planning and chapter roster management. And two video features will cover Oshkosh-based Basler Turbo Conversions and the EAA Air Academy.

Date Change -- IMC/VMC Club meeting

The fourth Thursday of November is Thanksgiving Day, but hey – that's when the IMC/VMC club is supposed to meet! Lucky for us, November has five Thursdays, so IMC/VMC will meet on November 30 with two more challenging flight scenarios.

Holiday Spirit

Our Chapter members have much to be thankful for, including our good fortune to be privileged to celebrate and promote aviation. In the spirit of Thanksgiving, again this year we are supporting Operation Good Cheer which provides Christmas presents to more than 5,700 children in foster care throughout Michigan. Debbie Redding is working on the wish list for the child our Chapter is sponsoring. Volunteer pilots and ground crew volunteers are needed in Pontiac on December 1 and 2. See John Maxfield's article elsewhere in this newsletter for details on how YOU can help.

Best wishes, and be safe!

Joe Kirik



PAULSON AVIATION & HISTORY LIBRARY

Barb Cook (734) 277-3469

library@eaa113.org

November 2017

Thanks to the generous donations of member Gary Hamilton, we have added several books to our 629.132 and 629.133 shelves.

We now have cataloged 19 books on soaring on the 629.132 523 shelf.

We have 7 fascinating books on lighter-than-air, airships, dirigibles, blimps, you name it! These will go on the 629.133 240 shelf.

GIANT AIRSHIPS by D Botting
METALCLAD AIRSHIP ZMC by C Fritsche
BLIMP BOOK by G Hall
AEROSPACE BALLOONS by E Kirschner
ZEPPELIN and the U S of A by H Knaud
AIRSHIPS AKRON & MACON by R Smith
GREAT DIRIGIBLES by J Toland

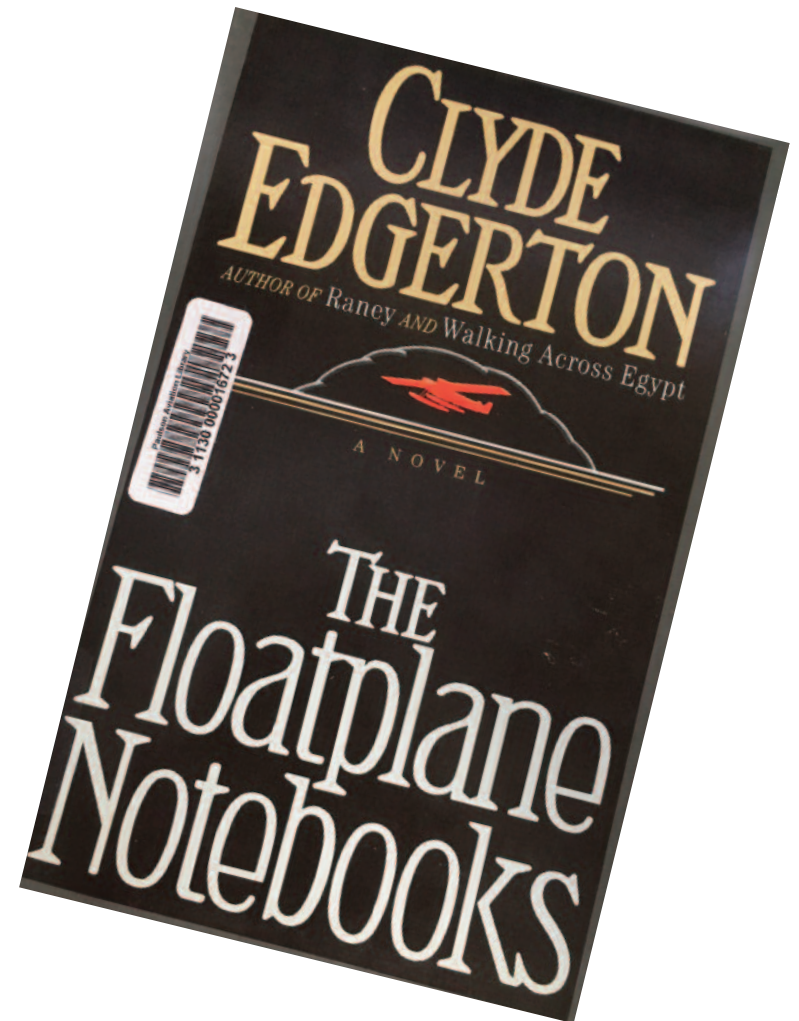
We have 5 books on Seaplanes on the 629.132 5247 shelf.

THE FLOATPLANE NOTEBOOKS by Clyde Edgerton, Algonquin Books of Chapel Hill, 1988.
A fictional novel by an Air Force pilot and an award winning writer and creative writing teacher. Two of his previous novels, *Raney*, *Walking Across Egypt*, and *Killer Diller* have been made into films.

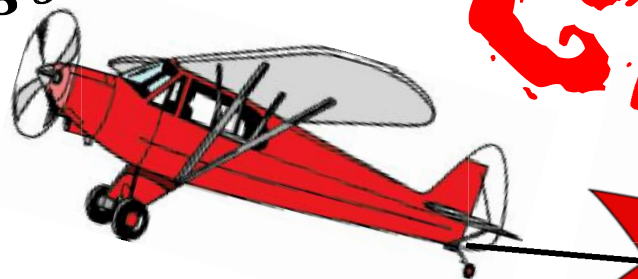
It all started with a homebuilt floatplane and the log books that were to record its history, and that of the whole family. Children's births and heights, airplane flights and failures, they're all in that book! It is a family history.

While not a how to book on flying, it is about a family who flies. Call number 813.54 EDGE

As of this date we have 3451 items cataloged and ready for you!



**You are invited to
EAA 113's**



CHILI!

Fly~In

Saturday, November 11th, 2017

11:00 a.m. to 2:00 p.m.

EAA 113 Aviation Center

Mettetal Airport (1D2)



Feel free to bring a pot of your family recipe or just come join us for a variety of chili, hotdogs and desserts.

For more information visit our website: www.113.eaachapter.org

OPERATION GOOD CHEER 2017

Operation Good Cheer and the “Spirit of Good Cheer” Flights are organized by Child and Family Services of Michigan. This year more than 6,200 infants, children, youth, and adults with disabilities in foster care will receive gifts on Christmas morning thanks to this program. Recipient’s gift wishes are distributed to donors in October who then purchase and wrap them. We’re talking about more than 19,000 gifts!

This year, on Friday, December 1st, all of these gifts will be collected in one of Pentastar Aviation’s large heated hangars at Pontiac Airport and sorted by an army of volunteers. They arrive by private car, truck, bus, semi, and even Army Transport, it’s quite a spectacle! On Saturday, December 2nd, over 300 pilots like you and I, deliver these presents from Pontiac Airport to more than 30 destinations around the state.

EAA Chapter 113 has supported Operation Good Cheer for many years by sponsoring a child, as we are again this year. Many of our members volunteer as sorters on Friday and pilots on Saturday, as well. If you’d like to join fellow Chapter 113 members this year, go to www.operationgoodcheer.com and register. NEW this year - volunteers can register to ride along on a plane delivering presents, space permitting. Registration for this new option is at the same site.

Happy “Spirit of Good Cheer” Flights to All!





Mechanics: Prevent Carbon Monoxide Poisoning

- The risk of carbon monoxide poisoning is overlooked and underestimated!

The problem

- **Carbon monoxide (CO)** is a colorless, odorless, tasteless gas by-product of internal combustion engines found in exhaust gases. Sufficiently high levels of CO in the bloodstream will lead to oxygen starvation and the onset of symptoms (such as headaches, drowsiness, nausea, or shortness of breath).
- Many internal combustion engine airplanes are heated by air that has been warmed by circulating air around the exhaust system using a heater shroud. **A defect or leak in the exhaust pipes or muffler can introduce CO into the cockpit.**
- Cracks in exhaust/heater mufflers and tubes and unplugged holes in the firewall can go unnoticed during inspections and lead to CO entering an airplane's cabin during flight. Degraded door and window seals or leaks in the air ducting can also allow CO into the cabin.

Related accidents

The National Transportation Safety Board (NTSB) has investigated several accidents (some fatal) in which pilots were incapacitated following CO exposure, such as the following:

- **A Mooney M20C airplane crashed in a field following the pilot's incapacitation;** the pilot was seriously injured.

Shortly after departure, the pilot lost consciousness and air traffic control was unable to contact the pilot. The airplane continued to fly for about 1.5 hours until the fuel in the selected tank was exhausted. The pilot's CO level was at least 28% (and likely higher) at the time of the accident. CO levels between 10% and 20% can result in confusion, impaired judgment, and difficulty concentrating. Postaccident examination of the airplane found a fracture in the exhaust/heater muffler (see left photograph in figure 1) and exhaust deposits inside the muffler shroud (right photograph in figure 1). This allowed the exhaust gas to enter the cabin, exposing the pilot to CO. ([CEN17LA101](#))



Figure 1. Photographs of a cracked muffler and exhaust deposits in the muffler shroud.

- **Witnesses observed an experimental amateur-built, Hefty Polar Cub airplane flying erratically at a low altitude before impacting terrain.** A postcrash fire ensued, and the pilot was fatally injured. Toxicology testing revealed that the pilot's CO level was 48%; no soot was found in his airways, indicating the CO was not a result of the fire; thus, the NTSB determined that the pilot's severe CO impairment likely caused the pilot's loss of airplane control. Examination of the airplane's exhaust system revealed that the exhaust/heater muffler was fractured, allowing CO to enter the cockpit (see figure 2). ([ANC16FA065](#))



Figure 2. Fractured exhaust muffler from a Hefty Polar Cub airplane (left) and a close-up photograph of the fracture in the exhaust muffler (right).

- **About 3 hours into a 3.5-hour postmaintenance flight, a Cessna 207 airplane impacted trees and a river.** The pilot was fatally injured. Toxicology tests identified a CO level of 21% in the pilot's blood, which likely adversely affected his performance. The airplane's original cabin heat system had been modified with a "winter heat kit" that, according to maintenance records, had not been installed in accordance with Federal Aviation Administration (FAA) field approval procedures. The full heat system was not recovered, and it was not possible to determine the exact source of the CO. ([ANC15FA032](#))
- **A Bellanca 14-19-3A descended from cruise flight at a rate of 2,900 ft per minute and collided with power lines and trees.** The pilot was fatally injured. The wreckage examination revealed cracks and holes in the muffler wall and exhaust gas penetration into the interior of the shroud. Toxicology tests identified a CO level of 37% in the pilot's blood. Most of the CO detected in the pilot's blood was likely from inhalation during the flight; the CO levels would have impaired his ability to safely fly the airplane. ([CEN14FA024](#))

What can **YOU** do?

- **Inspect exhaust systems, air ducting, firewalls, and door/window seals thoroughly at every 100-hour or annual inspection to reduce the chance of CO being introduced into the cockpit.**
- **Inspect heater air inlet cockpit vents for evidence of sooting, consistent with the presence of CO.**
- **Talk to pilots about installing electrochemical CO detectors with aural and visual alerts in the cockpit.**
- **Be informed and review and comply with any airworthiness directives and service bulletins regarding the exhaust system. Speak with the owner about regular inspections and the replacement schedule of parts.**

Interested in more information?






The following FAA resources are accessible via www.faa.gov:

- "Acceptable Methods, Techniques, and Practices – Aircraft Inspection and Repair" (AC 43-13-1B) contains inspection methods and repair techniques in **chapter 8** to prevent exhaust system failures that could lead to CO exposure.
- **Special Airworthiness Information Bulletin CE-04-22** addresses the importance of properly inspecting and maintaining components to prevent CO poisoning
- **AC 91-59A, Inspection and Care of General Aviation Aircraft Exhaust Systems** emphasizes the safety hazards of poorly maintained aircraft exhaust systems and highlights points at which exhaust system failures occur.
- FAA brochure *Carbon Monoxide: A Deadly Menace* contains medical information concerning the symptoms of CO exposure and methods of avoiding exposure.

A companion **video** to this safety alert can be accessed from the **Aviation Safety Alerts** link.

The reports for the accidents referenced in this safety alert are accessible by NTSB accident number from the **Aviation Accident Database** link, and each accident's public docket is accessible from the **Accident Dockets** link for the Docket Management System. Related Safety Alert **SA-022, "Mechanics: Manage Risks to Ensure Safety,"** can be accessed from the **Aviation Safety Alerts** link.

The NTSB's Aviation Information Resources web page, www.nts.gov/air, provides convenient access to NTSB aviation safety products. This Safety Alert and others can be accessed from the **Aviation Safety Alerts** link at www.nts.gov.

www.twitter.com/ntsb 
www.facebook.com/ntsbgov 
www.youtube.com/user/ntsbgov 
www.instagram.com/ntsbgov 
www.flickr.com/photos/ntsb 



The NTSB is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant accidents in other modes of transportation—highway, marine, railroad, and pipeline. The NTSB determines the probable cause of the accidents and issues safety recommendations aimed at preventing future accidents. For more information, visit www.nts.gov.

DECEMBER 7TH BUILDERS' PROJECT CORNER

6:30 Pizza and Hangar Talk, 7:00 Presentation

Grand Rapids Technology – Greg Toman

Please put the date in your calendar, we are going to have a very interesting meeting! Greg Toman of GRT will be presenting that evening, covering a number of subjects including the following:

- Heads-Up Display (for experimental and General Aviation) - A great addition to almost any airplane.
- Android Tablet Use with the GRT Remote App and other Aviation Apps while in flight.
- EFIS screen selection - Choosing your screen size, and the number of them for your airplane.
- EFIS Functions - What is important for VFR airplanes, IFR, and your personal needs.
- Autopilot - When it makes sense for your airplane.
- ADS-B Solutions for Experimental Airplanes
- Planning your purchase - What to order when to make building easy, without closing your options.
- Future Plans at GRT Avionics
- Overview of programming the EIS Engine Monitor

If there are any other subjects that you would like Greg to cover please try to let me know in advance so that I can forward him the details, or just be prepared to ask at the meeting. This would be a good time to let any of your friends you know that are building or may be interested in GRT products or have purchased them and have questions this would be GREAT time to seek the help or advice on your GRT products. We should have a good number of people coming to this meeting, there will be food (Pizza) and refreshments available, if you know that you will be coming, please let me know so that we can be better prepared. Looking forward to seeing you there. This should be a GREAT evening!

Mike Scovel ezdriver@sbcglobal.net (313) 607-7202

Save the Date



EAA 113 Holiday Party

December 21st, 2017

6:30 p.m.

SALEM, MICHIGAN AIRPORT

Then and Now



Salem Airport in 1973.

The field had a single paved north/south runway and unpaved crosswind runway.

Four hangars were located on the southwest side of the field, and a total of 16 light aircraft were parked on the southwest & southeast sides of the field.



Salem Airport today.
Photo Courtesy of Dave James.



November 2017



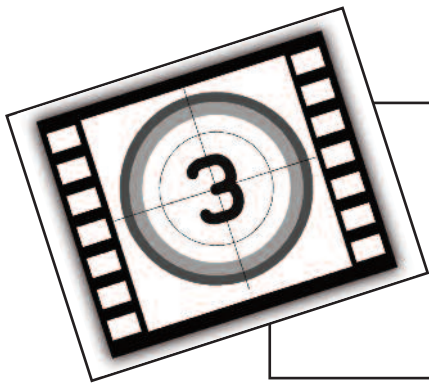
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2 EAA 113 Home-builder's Meeting 7:30 p.m	3 Movie Night 7:30	4 <i>Breakfast @ 3 Brothers</i> 8:15am
5	6	7	8	9 EAA 113 Board Meeting 7:30 pm	10 Veteran's Day 	11 <i>Breakfast @ 3 Brothers</i> 8:15am EAA 113 Chili Fly-In 11:00 AM TO 2:00 PM
12	13	14 	15	16 EAA 113 General Meeting 7:30 p.m	17	18 <i>Breakfast @ 3 Brothers</i> 8:15am
19 	20	21	22	23 	24	25 <i>Breakfast @ 3 Brothers</i> 8:15am
26	27	28	29	30		



December 2017



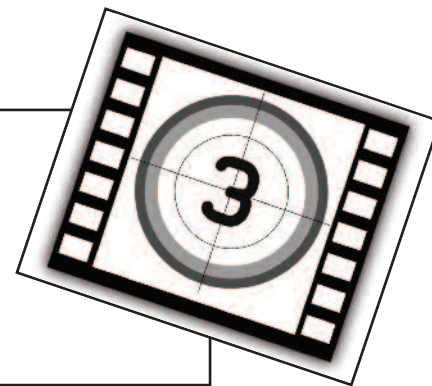
Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1 Operation Good Cheer Oakland International Airport 10:00am-8:00pm 	2 Breakfast @ 3 Brothers 8:15am Operation Good Cheer Oakland International Airport
3	4	5	6	7 EAA 113 Homebuilder's Meeting 7:30 p.m.	8 7:30 p.m. MOVIE NIGHT 	9 Breakfast @ 3 Brothers 8:15am
10 	11	12 HAPPY HANUKKAH 	13	14 EAA 113 Board Meeting 7:30 p.m.	15	16 Breakfast @ 3 Brothers 8:15am
17	18	19	20	21 EAA 113 Holiday Party 6:30 p.m. 	22 Welcome Winter 	23 Breakfast @ 3 Brothers 8:15am
24	25 Merry Christmas 	26	27	28	29	30 Breakfast @ 3 Brothers 8:15am
31 						



Calling all video enthusiasts!

*Submit your video of the month to Sanjay Dhall
at vicepresident@eaa113.org*

(Or you might be watching someone's 60-year-old 8 mm home movies next month....)



EAA Chapter 113 member Mark French, FAA parachute rigger, offers his services to all members of the chapter at a special rate; ***FREE*** for any of their parachute needs. If anyone is in need of a pilot rig for testing or acrobatics, a number of pilot emergency parachutes are available for loan. Any questions related to parachutes and parachuting can be answered by contacting him at: mark.r.french1@gmail.com or by calling 734.260.7342.



Next Meeting:
Thursday, November 16, 2017
7:30 PM at the
EAA Aviation Education Center

EAA Chapter 113
8512 N. Lilley Rd
Canton, MI 48187
(734) 392-8113

