

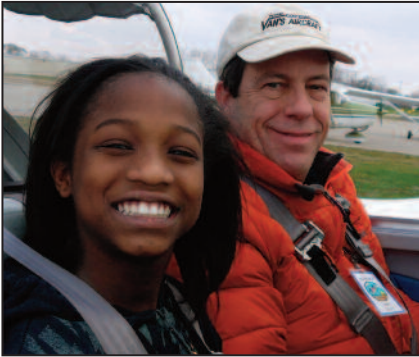
# EAGLE'S PROPWASH



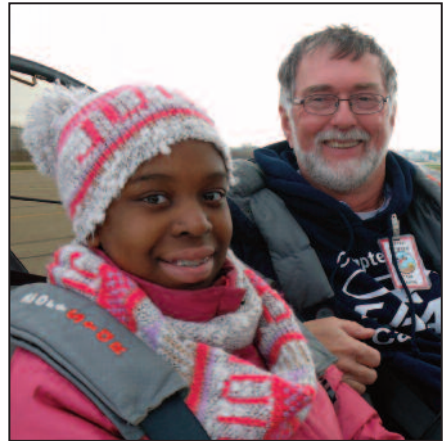
December 2014 Issue

## CHAPTER 113

*"The Backyard Eagles"*



Young Eagles - November 15, 2014  
Photos Courtesy of Shunsuke Shibata



Our Web Site: [www.113.eaachapter.org](http://www.113.eaachapter.org)    [EAA113@yahoogroups.com](mailto: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**

## Member Services

### Class I Board of Directors:

**President:** John Maxfield (248) 890-6767

**Vice President:** Shahar Golan (248) 767-6630

**Secretary:** Debbie Forsman (734) 397-3452

**Treasurer:** Grant Cook (734) 223-2688

### Class II Board Members:

Al Bosonetto (734) 261-5518

Bill Brown (734) 420-2733

Dave Buck (734) 453-5375

Lou Lambert (734) 207-7986

Mike Scovel (734) 462-1176

**Library:** Barb Cook (734) 277-3469

**Newsletter:** Elizabeth Hebron (734) 776-9294

liz.hebron@gmail.com

### Class III Board Member:

Tom Smith (734) 459-9654

### **Membership Committee:**

Roster: Mark Freeland (248) 212-9666

Dues: Grant Cook (734) 223-2688

### **Technical Counselors:**

Randy Hebron (734) 326-7659

Dan Valle (313) 539-9818

### **Flight Advisors:**

John Maxfield (248) 890-6767

Dan Valle (313) 539-9818

**Scholarships:** Jim Trick (517) 546-3944

Elizabeth Hebron (734) 776-9294

### **Young Eagles/Eagle Flights:**

Debbie Forsman (734) 397-3452

Dave James (734) 721-4213

**Refreshments:** Joe Griffin (734) 455-3107

**Webmaster:** John Maxfield

webmaster@eaa113.org

### **Aviation Center Management Committee:**

Al Bosonetto (734) 261-5518

Dave Buck (734) 453-5375

Bill Brown (734) 420-2733

Bob Skingley (734) 522-1456

## 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

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



## PRESIDENT'S PODIUM

**John Maxfield** (248) 890-6767

avee8rrr@yahoo.com

December 2014

Happy Holidays everyone! May you enjoy the peace, love, and happiness of the Season. We in aviation, and through EAA, are blessed with many opportunities to help make the world a better place. The first weekend of December was Operation Good Cheer at Pontiac Airport. Many Chapter 113 members helped unload and sort thousands of gifts, bound for underprivileged children throughout Michigan. Member Joe Kirik worked with his employer, ITC Transmission, to donate the proceeds from casual dress days to Operation Good Cheer this year. Debbie Forsman purchased and wrapped the Christmas gifts in our Chapter's name for a young man benefiting from Operation Good Cheer. Thank you to all Chapter members who volunteered in making such a difference in the lives of others.

Due to the scheduling of Operation Good Cheer, December's EAA Movie Night is being moved to Friday, December 12th. There will be light snacks during this aviation themed movie; show time is 7:30 pm.

We would like to welcome four new members this month, Maurice Kemp, Joe Freiman, Tom Jeffery, and Roy Hayden. I'd like to extend special congratulations to Tom and Roy. Tom, 16, soloed Grandfather Roy's Cessna 172 on November 10th. Welcome to EAA Chapter 113 Gentlemen!

I would like to remind everyone that we are going to an email only newsletter format in 2015 to save time and resources. Let us know if you want a paper copy and we'll mail them to you. Likewise, let us know if you're not getting an email version and we'll add you to the mailing list.

I read today about EAA Chapter 91 in Lee's Summit MO, having flown 10,000 Young Eagles! The pilot of that milestone flight also happened to achieve his 1,000th mission at the same time. That's quite remarkable, and so is its connection to us here at Mettetal. You see, Young Eagle number 9,999 was flown by Nancy Inderwiesen in a Beech Skipper also from Chapter 91. And just what are the chances it's the same Nancy Inderwiesen that purchased her Skipper from our own Jack McClellan, right here at Mettetal a few years ago? Pretty good actually, I met Nancy during one of their events in Lee's Summit, not long after she flew the Skipper home. Both she and the Skipper are doing very well. While Chapter 91's numbers are huge, I'm still enjoying in the enthusiasm from our last Young Eagle's event and Chili Fly-In. The weather was great on November 15th as 45 students from Southfield's Young Astronauts Class attended classes in four different aviation subjects before taking flight. As close as I can figure, our Chapter has flown 2,726 Young Eagle's overall with Dave James leading by example, with 838! Well done everyone! Afterwards, our Chili Fly-In was well attended as the weather held up for the Chapter's last flying event of the year.

The 2015 EAA Chapter 113 Scholarship applications are now available. Find it by clicking the scholarship button on our website, [www.113.eaachapter.org](http://www.113.eaachapter.org) Applications need to be returned by March 22nd.

The Great Lakes Aviation Conference is scheduled for January 23-24 at the Lansing Center in Lansing. Special Discounts are available for EAA Members. Find more information at [www.greatlakesconference.com](http://www.greatlakesconference.com)

I'm looking forward to seeing everyone Thursday, December 18th for our Holiday Party! Please bring a dish to pass or a dessert. Remember, dinner starts at 6:30 pm. Stay up to date with EAA 113 at [www.113.eaachapter.org](http://www.113.eaachapter.org) and follow us on Facebook!

Happy Holiday Landings Everyone!

John Maxfield



## PAULSON AVIATION & HISTORY *LIBRARY*

Barb Cook (734) 277-3469

barb@armipay.com

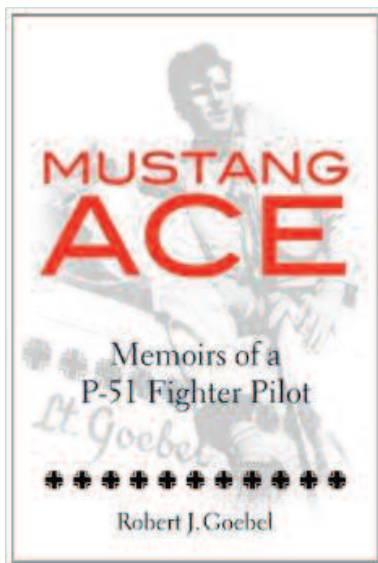
December 2014


***MUSTANG ACE; Memoirs of a P-51 Fighter Pilot*** by Robert J. Goebel. Zenith Press, 1991. Gift of Andy Folgmann.  
Shelf number 940.54 4973 GOE

By 1944, at the age of 21, Goebel had completed 61 missions with 11 Victories in his Mustang. "Goebel's memoir, a classic of combat aviation gives the reader a true sense of what it was like to fly and fight as a World War II fighter pilot." [back cover]

The book contains 14 pages of black and white photos of Goebel and his fellow pilots, a 6 page glossary, Goebel's mission list, and his Victory list, and transcripts of several mission reports.

Following the war, Goebel, using the GI Bill, earned a degree in physics, and then rejoined the Air Force for the next 30 years. He worked on the Gemini launch vehicle for NASA and on the Skylab project.



A red ribbon swirls around the top and left sides of the invitation. In the top left corner, there is a cluster of green holly leaves with red berries.

You are invited to  
EAA 113's annual

# Holiday Party


Come celebrate the season with  
your family and  
aviation friends.

Thursday, December 18th, 2014  
6:30 p.m.

**EAA 113 Aviation Center**

Bring your holiday spirit, your family and  
a dish to share.

EAA 113 will supply the delicious turkey!

A red ribbon swirls around the bottom and right sides of the invitation. In the bottom right corner, there is a large cluster of green holly leaves with red berries.



## CHAPTER 113 MEMBER NEWS

Kim Kovach is restoring 2 vintage airplanes for Kermit Weeks Fantasy of Flight Museum. It turns out that both of Kermit's airplanes have hand sewn envelopes! He changed his mind at the last minute and wanted Dacron, and we are machine sewing the envelopes with Dacron thread..... but then we are doing a decorative non-structural "over sew" with cotton thread. Stitches are hand sewn at the rate of 5 stitches per inch. Yes sir! 5 stitches per inch hand sewn on all trailing edges and all root ribs on all fabric for both airplanes. Several HUNDRED hours of hand sewing! Were talking biplanes with 24 and 30 ft wing spans! Plus four liggeron seams per fuselage! WOW! The stitching shows through the tapes so it's gotta be there! Imperfect stitch spacing is important.



Congratulations to Tom Jeffery who soloed his grandfather's Cessna 172 on November 10th at Mettetal. Roy Hayden bought the Mettetal based 172 recently to keep his hand in flying after retiring from years as a commercial pilot. Tom's instructor is John St. Peter, who you may remember guided his son on the new airport compass rose project.

David and Jack Groat finally got their engine installed and are looking forward to moving the RV-10 project to Willow Run Airport for final assembly. Their presentation at last month's meeting was very impressive, especially the level of comfort they afford themselves in their workshop. It looks like many of our houses

inside with a kitchen, bathroom, and dining area! Watch for this first flight report next year!

Sanjay Dahl has been hard at work on a electronic standby horizon that he showed at the last meeting. His prototype unit is not much larger than a pack of cigarettes, doesn't weigh a thing, and is fully upgradeable. Sanjay has even written a phone app to do the programming etc...

I had the opportunity to spend a day with Craig Sawka recently. Craig winters in Stuart FL and the day I was there, we hung the engine on his RV-7 project. The Max Air Drifter fuselage hanging from the ceiling belongs to Roy Penner as does the tail of the finished, but as of that day unflown, RV-7 also in view.

Lifetime Chapter member Doug Shumard has finally gotten his project on air. Doug's been working for more than two years with the FCC to launch the Good Shepard Radio Network Station. You can hear it at 93.3fm or 1510am as you pass through the Jackson and Lansing areas.



# WEYMOUTH/SKINGLEY O-300-A REBUILD UPDATE

by Bob Skingley

Jim and I have just finished the rebuild on our Continental O-300-A. We had the camshaft reconditioned, new valves and cylinders reworked by Paul Cline. The crankshaft spec was good for standard bearings and the rest are just details. We have much to do on the firewall forward, like exhaust stacks, cooling baffling, carburetor opening etc. This past year saw a redesign in seats and mounts as well as heel brakes front and back. The floor boards are done now and instrument panels along with firewall forward next.



## LETTER FROM KATHY BITONTI

We are both doing fine. Frank really enjoys me reading the Newsletter to him and especially likes seeing the photos. Brings tears to his eyes when he remembers how great it was at the airport with all his pilot friends. We're going to try to make the Christmas party as long as the weather is good. It's getting a little more difficult for him to get around.

His friend from church took him to the Henry Ford Museum last week and really enjoyed the day away from me. The photo shows him in a wheel chair only because they had to do a lot of walking and Frank tires quickly.

Hope you all have a wonderful Thanksgiving.  
Kathy Bitonti





## A SOARING YEAR FOR YOUNG EAGLES

by Debbie Forsman

A total of 164 Young Eagles soared over the skies around Mettetal Airport during 2014, thanks to the volunteer pilots of EAA 113.

Also, we could not host these events without the many members who provide their assistance with Ground Support. To all of you,

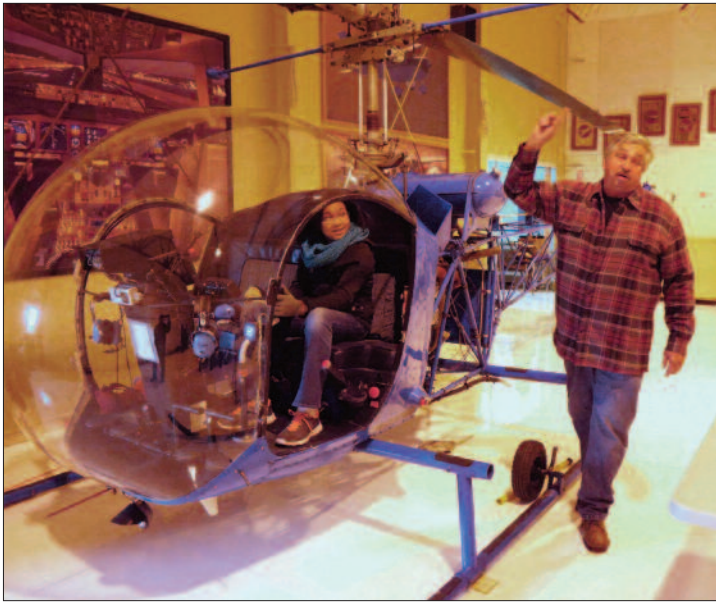
who donate your time, aircraft, fuel and talents to the Young Eagle Program, I offer my sincere THANK YOU! Always know that you have made a difference to a young person, whether by simply offering them an opportunity to do something they may have never experienced, or by fully lighting that spark towards aviation. Thank you to everyone for a safe and successful year.

EAA sets a goal for individual pilots to fly ten Young Eagles every year. When this is reached, our Chapter receives credits to help send a Young Eagle to a summer Air Academy in Oshkosh. I am pleased to announce that ten of our pilots achieved this goal this year: Dave Buck, Shahar Golan, Dave James, Dan Jones, Rick Karaschin, John Maxfield, Chris Richards, Tom Smith, Marc Stobbe and Dirk Wolf. Thanks to all our volunteer pilots, EAA 113 should be able to sponsor a young person in Oshkosh next summer. We will receive the actual credit amount from EAA in a couple months. Since the program began in 1992, EAA 113 has flown 2,726 Young Eagles. A special Congratulations goes to Dave Buck who reached a milestone this year by flying a total of 200 of those young people!

Perhaps what is most exciting, is the number of new volunteers we had assist with the program this year. It is wonderful to have new members get involved in our Chapter and what better way than to help introduce young people to aviation. We look forward to your help in the coming year as we continue to pass along our passion for aviation to future generations. Whether you are new to the Young Eagles program or a long standing volunteer, for one event or several, your help is invaluable and appreciated.







Young Eagles, November 15, 2014  
*All Photos Courtesy of Shunsuke Shibata*

Dear Santa,

We, at EAA 113, have been very good this year. Because so many members helped to make our Father's Day Pancake Breakfast so successful, we were able to award two very deserving aviation college students with scholarships to help them continue with their flight lessons.

We held several Young Eagle events this year and introduced 164 more young people to aviation. Recently, we participated in Operation Good Cheer by sponsoring a young man in foster care and helped children in need around Michigan by sorting and delivering Christmas presents.

Note: We use airplanes, not reindeer like you! But, if you run behind and need any help, let us know.

Our members are very kind and helpful to each other. Everyone freely shares their knowledge, talents and compassion. Just like you, Santa!

For Christmas this year, we would like you to bring us good health, safe events and lots of fair weather! Oh, maybe a few aviation things, like tools and parts, too! We will leave the hangar open for you to bring the reindeer in to warm up. Just be careful, the new floor can be a little slippery. (Don't worry: we will clean up after the reindeer.) We will leave cookies for you in the kitchen.

Merry Christmas and have a good flight!

Love,

EAA 113



# AN ELECTRONIC ATTITUDE INDICATOR

by Sanjay Dhall

I have been intrigued by the technologies that have recently become available to the masses. The coming of cell phones, and particularly smartphones have exposed the use of some very interesting behaviors that are based on location and orientation of the mobile device. A smartphone typically tends to include a GPS, accelerometers, LED lights, a touchscreen and various communications protocols.

Meanwhile mechanical aircraft instruments remain expensive, and need regular maintenance. Numerous electronic gizmos and offerings by Garmin, Dynon, Grand Rapid Technologies, etc including engine monitoring, GPS, synthetic vision, AHRS, etc are becoming mainstream, and available to factory and homebuilt airplanes. These electronic devices tend to be expensive. A mobile handheld aircraft GPS is generally about ten times more expensive than its automotive peers.

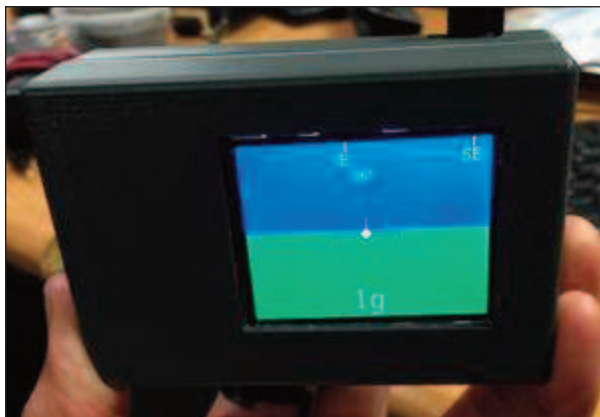
I have sorely missed having an attitude indicator in my homebuilt Quickie Q200. So I decided to build an electronic one using parts available to hobbyist all over the world. The one I have built uses a tiny full function computer available on a small footprint board, to which I have added an IMU board ( which provides gyros, accelerometers and magnetometers), and then added a 2.3 inch color screen. A friend and I have wired and programmed this setup and added traditional graphics. Then designed a small container to house the electronics and screen, which we have then 3D printed. See pictures nearby. There is a little more work to be done in packaging and compacting the setup, and making a clip to attach this to my instrument panel. Although it is setup to be powered from the 12volt cigarette lighter socket, I am also considering adding a cellphone battery to make it self-contained.

I have been testing this instrument in my car and hope to take this up in my plane in next week or 2. Based on observations from testing it, we have made some changes to the program. I have also added a G-meter, a reset button, and a heading gage. Now I need to add a power on off switch.

During the last chapter meeting people had asked if I was doing this as a hobby or wanted sell these commercially. The main reason that I built this was to understand and deploy and benefit from emerging technologies, as well as create a cheaper alternative to traditional instruments. I plan to make up a few of these units and do a

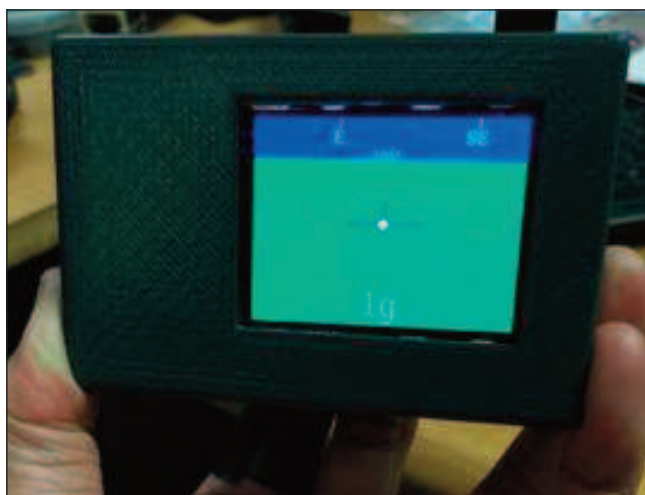
survey to determine if anyone would be interested in using, testing, or owning it. If this instrument proves robust and usable in my plane, then if anyone would have interest in having one, I would be happy to arrange that.

continued....





*Photos Courtesy  
of  
Sanjay Dhall*





## Chapter 113 Newsletter

The volunteer manpower and expense needed to print, fold, label and mail 150 copies of EAA Chapter 113's monthly newsletter has grown over time. Words cannot express our gratitude to Grant, Barb, Mark and Liz for their continued efforts to produce and distribute it for so many years. After considerable discussion at the Board meeting, it was decided to eliminate the increasing expense of printing and mailing the newsletter. Instead, it will be sent via email to all members in current standing.

**BEGINNING WITH THE JANUARY 2015 ISSUE, WE WILL ONLY SEND OUR MONTHLY NEWSLETTERS OUT VIA EMAIL UNLESS WE HEAR FROM YOU.** *Please verify your email address with Debbie at the December meeting;* or send an email to [youngeagles113@wowway.com](mailto:youngeagles113@wowway.com); or call 734-397-3452. If you cannot receive email or do not have access to the Chapter website, we can still mail a printed copy to you but we need you to tell us.

**Remember your membership dues are due in January.** Enjoy your 2015 Newsletters in full color electronically!



## Holiday Party



Come celebrate the season with your EAA 113 family and aviation friends.

Thursday, December 18th, 2014

6:30 p.m.

EAA 113 Aviation Center

Bring your holiday spirit, your family and a dish to share.

EAA 113 will supply the delicious turkey!

*Don't forget to bring your favorite RECIPES to be included in the upcoming EAA 113 Cookbook.*







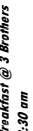
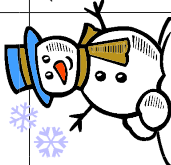
# December 2014

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4 <b>Homebuilder's Meeting 7:30 pm</b>	5 Operation Good Cheer Oakland International Airport 10:00am-8:00pm 	6 <i>Breakfast @ 3 Brothers 8:30 am</i> Operation Good Cheer Oakland International Airport
7	8	9	10 <b>EAA 113 Board Meeting 7:30 pm</b>	11	12 Movie Night 7:30 p.m. 	13 <i>Breakfast @ 3 Brothers 8:30 am</i>
14	15	16  <i>Happy Hanukkah</i>	17	18 <b>EAA 113 Holiday Party 6:30 pm</b> 	19	20 <i>Breakfast @ 3 Brothers 8:30 am</i>
21  <i>First Day of Winter</i>	22	23	24	25  <i>Merry Christmas</i>	26	27 <i>Breakfast @ 3 Brothers 8:30 am</i>
28	29	30	31  <i>New Year's Eve</i>		 <b>Happy Holidays</b> 	



# January 2015



Sun	Mon	Tue	Wed	Thu	Fri	Sat
				 1	 2 Dinner & Movie Night 7:30 p.m.	 3 Breakfast @ 3 Brothers 8:30 am
4	5	6	7	8 EAA 113 Board Meeting 7:30 pm	9	10 Breakfast @ 3 Brothers 8:30 am
11 	12	13	14	15 EAA 113 General Meeting 7:30 pm	16	17 Breakfast @ 3 Brothers 8:30 am
18	19	20	21	22 EAA 113 Fly Safely Meeting 7:30 pm	23  Great Lakes Aviation Conference Lansing - Jan 23 & 24th	24 Breakfast @ 3 Brothers 8:30 am
25	26	27	28 	29	30	31 Breakfast @ 3 Brothers 8:30 am

**EAA Chapter 113**

Mark Freeland

1480 Oakwood

Sylvan Lake, MI 48320

**Next Meeting : Thursday, December 18, 2014**  
**6:30 PM** at the EAA Aviation Education Center