



President's Corner

Dear members and friends of EAA Chapter 2,

Happy New Year to All!

As a new decade dawns, we should be very thankful of the aviation and personal freedoms we have in America. Most other countries in the world do not allow the freedoms that we sometimes take for granted. We can enjoy ultralights, sport pilot, Light Sport Aircraft, building and restoring our own aircraft, Basic Med, freedom to fly and expanded freedoms that are on the horizon. From the very early days of EAA, our founder, Paul Poberezny, was the statesman and ambassador between the emerging sport aviation movement and the government – then CAA and now FAA. Without this continued dialog and focus, we might not have any of these freedoms today.

Our President and CEO Jack Pelton and the EAA staff continue this important work - leading the sport aviation industry in expanding our freedoms to fly. The AirVenture Oshkosh convention is the world's focus on all aspects of aviation every Summer. EAA formed the primary force in obtaining STC's for state of the art electronic glass cockpit instruments designed for homebuilts, to be used in factory built aircraft to enhance safety. This now includes digital autopilots, angle of attack instruments and many more to come. In response to these advancements and focus on safety, light plane safety is at an all time high!

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NEXT GATHERING

**Thursday
January 9 • 7 P.M.**

Ivy Tech Aviation Center at Smith Field

405 W Cook Rd, Fort Wayne, IN 46825

**CFII Bob Schmelz will present,
"Sharing SMD, GWB and our
airspace as changes are
happening."**

(See page 3 for more about Bob Schmelz)

2020 Chapter Dues Your Membership Matters



**Motivation, Friendship, Support, Mentorship,
Resources, Networking.**

*These are just a few of the words that describe
the benefits of being a member of EAA Chapter 2.*

**Renewing your membership is
quick & easy!**

See page 3 for details and renew today!

Are you a pilot? Are you building an aircraft? Are you an aircraft owner?
Are you just "plane nuts" about aviation?
If so, then join us! Visit our website at www.eaa2.org and click on "Join EAA2"

(President's Corner, Continued from page 1)

Mark your calendar for our first Get Together in the New Year – January 9, 2020. CFII and Chapter 2 member Bob Schmelz will discuss "Sharing SMD, GWB and our airspace as changes are happening". If time allows, we will also view the January Chapter Video Magazine.

In February, mark your calendars for the Chapter 2 Banquet starting at 6:00 p.m. – hosted at Brotherhood Insurance. Be sure to check the Events Calendar in this newsletter for the many upcoming activities.

We have two special events coming up in March and April and we are using the EAA email blast to publicize these events to all national EAA members in a 75 mile radius of Fort Wayne. **In March, we will temporarily change to a Monday night Get-Together (March 9) with a presentation by Randy Streb, President of the Indiana Seaplane Assoc. at the Ivy Tech Aviation Center at KSMD.** Randy and the organization he formed are responsible for opening up many Indiana lakes to seaplane traffic – where they were formerly closed. Make sure you put this Monday, March 9 Get Together on your calendar!

On Thursday April 9 at 7 p.m. we are hosting the EAA2 Young Eagle Pilot Expo. & Chapter Get-Together at Ivy Tech. This is intended to introduce many of the area EAA members to the joys of the Young Eagles program. We are surrounded by national EAA members that do not participate in a local chapter. I have to believe than most of them do not know what they are missing! Besides having a lot of flying and building fun, I fully believe that the Young Eagles program is the glue that holds a local EAA chapter together. Chapter 2 has participated in an active Young Eagles program since it started in 1992 – 27 years ago! The program volunteers are powered by the smiles of the kids. This event will feature presentations by both Young Eagles and Young Eagle pilots, explaining requirements and how to get started flying Young Eagles or donating time as a ground volunteer. **Make sure you mention this event to your EAA friends that are not currently helping with Young Eagles!**

Many thanks to all of the officers, board and members that make EAA Chapter 2 an aviation and education focus in our community!

Happy New Year and ring in 2020!

Larry Zepp



Bob Schmelz



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2020 Membership Renewal

It's Time to Renew Your Membership with EAA Chapter 2 for 2020.

Your support of, and participation in EAA Chapter 2 can enrich your aviation interest and understanding, as well as that of aviation enthusiasts of all ages.

Your support and participation also helps promote aviation throughout the broader community.

Membership renewal is easy, using the interactive form on the [website](#), or you can mail the printable version.

Dues can be paid via credit card or Pay Pal on the [website](#). Alternately, your printed form and check can be mailed to Geoff Robison, **EAA Chapter Two Treasurer, P.O. Box 28, New Haven, IN 46774.**

- ◆ **Individual** memberships are \$20.00
- ◆ **Family** memberships (up to two adults and all children in family unit) are \$30.00
- ◆ **Student** memberships are free to those under the age of 19 who hold a Student membership with EAA Incorporated, which is also free to students. (See www.eaa.org/membership for details on Student memberships.)
- ◆ **Remember** also to check your current information / your membership category / interest areas / suggestions / projects / aircraft.



Our January 9 Get-Together

On Thursday, January 9, we welcome Bob Schmelz, CFII, Chapter 2 member and friend. Bob's topic will be "Sharing SMD, GWB and our airspace as changes are happening" ALL members and guests are welcome to learn more about sharing our airspace safely.

Bob earned his Private Pilot rating in 1984 and the CFII rating in 1988. He has been providing flight instruction in the Fort Wayne area since then, except for a two year stay in Tampa Florida - thanks to his employer, GTE. But while in Florida, he worked with two gentlemen in Tampa who earned their private tickets.

Bob stepped in to teach the Ground School at KFWA for a few years when Van Stiffler retired, and joined Smith Field Air Service when Dr. Hatch opened the doors at KSMD to keep Smith Field alive in 2003. Currently, he continues to instruct with Sweet Aviation. In his spare time, he continues to encourage future generations of pilots. He joined the Civil Air Patrol in 2003, has been involved with Aviation Explorer's for several years and flew the first of many Young Eagle flights on May 19, 2001.

We look forward to this presentation and encourage everyone to invite a friend to this gathering.



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Homebuilt Corner - Instrument Panel Design for a Cross Country VFR Homebuilt

Over the past eight years of planning and building a homebuilt kit aircraft, I have incorporated the advice of others and many new advancements in the aircraft avionics and instrument field. As my aircraft is being prepared to move to the hangar for final assembly and engine testing, I am very pleased and satisfied with the result of my instrument panel design.



At the beginning of this process, the idea of a light sport Zenith Zodiac being able to travel across the country VFR at a moderate speed was the end goal. The situational awareness of a glass cockpit presentation with horizon, airspeed, altitude and moving map was a key improvement over the traditional six pack of instruments and a paper chart. About 3 ½ years ago at Oshkosh, I became convinced that an IPAD and aviation display software was a capable way to go instead of a purchased glass cockpit system. Two factors tempered using an IPAD glass cockpit only – wanting backup instrument redundancy if the screen goes dark and I had never flown an aircraft without the traditional round instruments! The mix of backup instruments shown above gives me extra confidence on that first flight and if any instrument failure occurs.

The key data source for the IPAD is a Levil Aviation 3AW, which functions as the WIFI hub, electronic gyros and compass (AHARS), and for certified GPS, ADS-B IN, traffic and inflight digital weather. The Wing X software has been an early adopter of Levil enhancements, so Wing X is the software I use to do flight planning, moving map and other functions. The RAM mounting bracket allows easy IPAD removal and use outside the airplane. A second IPAD Mini mounting bracket serves as a backup and for use by a passenger. Up to (7) IPAD's or other devices can share the Levil WIFI signal and the software, for multiple backups.

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Key instruments to the left of the main IPAD screen are: angle of attack; electronic turn / bank; airspeed and tach-along with the throttle. The Honda based Viking engine has dual engine computers and a dual electrical system for reliability. A mode – S transponder is under the IPAD. Com radio is on the center console. Engine data is shown on the Viking View engine information system by Grand Rapids Instrument.

To the right of the main IPAD is a digital altimeter / vertical speed; dual bar graph fuel gauge, G meter for load testing, passenger throttle and a cutout for an autopilot with backup horizon, speed and altitude data. Since I selected the Y control stick mounted in the center console, both the pilot and passenger have their own throttle, connected to act in parallel. The passenger throttle has the locking collar removed to avoid conflict.

Not shown on the center console are:

- BRS emergency parachute pull handle
- Mini fuse panels for main and avionics
- Dual battery switches and dual voltmeter
- Fuel selector and dual fuel pump switches
- Com radio with integrated intercom
- Lighting switches
- Outside / inside temperature gauge

After all of the dreaming, sketching, instrument paste ups, CAD layout and assembly of the panel I am truly pleased at how this instrument layout has turned out. Now I really can't wait to fly it!

Fair Skies and Tailwinds - and Happy New Year!

Larry Zepp



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SAVE the DATE— 2020

Wednesday • January 8 • 6 p.m.
IMC / VMC Club



[Sweet Aviation Terminal Building, Suite 118](#)

Sponsored by EAA Chapter 2 & Sweet Aviation.
Refreshments provided. FAA WINGS event.
(See details in January Newsletter)

Thursday • January 9 • 7 p.m.
EAA 2 Monthly Get-Together

[Ivy Tech Aviation Center at Smith Field](#)

Guest presenter Bob Schmelz CFII and Chapter member, will discuss flight training experiences.

Saturday • February 8 • 6 p.m.
EAA 2 Awards Banquet & Potluck

[Brotherhood Mutual](#)

Monday • March 9 • 7 p.m.
EAA 2 Monthly Get-Together

[Ivy Tech Aviation Center at Smith Field](#)

Speaker: Randy Streb, Indiana Seaplane Assoc

Wednesday • March 11 • 6 p.m.
IMC / VMC Club

[Sweet Aviation Terminal Building, Suite 118](#)

Refreshments provided. FAA WINGS event.

Thursday • April 9 • 7 p.m.
EAA2 Young Eagle Pilot Expo & Chapter Get-Together

[Ivy Tech Aviation Center at Smith Field](#)

Saturday • May 9 • 9 a.m.
EAA 2 Young Eagles Rally

[Hangar 2 at Smith Field](#)

Wednesday • May 13 • 6 p.m.
IMC / VMC Club

[Sweet Aviation Terminal Building, Suite 118](#)

Wednesday • January 8 • 6 p.m.



IMC / VMC Club

[Sweet Aviation Terminal Building, Suite 118](#)

Start the new year off right with a fun and thought provoking pilots and students club meeting!

- IMC Club - Title: "Flooded in the Air" - A business IFR cross country in a classic Beech 18 twin results in a serious systems failure before an approach.
- VMC Club - Title: "Snowman" A VFR cross country in a Cessna Cardinal encounters a snow storm.
- Refreshments provided, FAA WINGS event

Thursday • May 14 • 7 p.m.
EAA 2 Monthly Get-Together

Features of Zenith Zodiac N22LZ - Get Together at the DeKalb Co. airport hangar of Larry Zepp

Thursday • June 11 • 6 p.m.
EAA 2 Annual Cookout

Saturday • June 16 • 9 a.m.
EAA 2 Young Eagles Rally

[Hangar 2 at Smith Field](#)

Wednesday • July 8 • 6 p.m.
IMC / VMC Club

[Sweet Aviation Terminal Building, Suite 118](#)

Refreshments provided. FAA WINGS event.

July 2020—Oshkosh

Saturday • August 8 • 9 a.m.
EAA 2 Young Eagles Rally

[Hangar 2 at Smith Field](#)

Saturday • September 12 • 9 a.m.
EAA 2 Young Eagles Rally

[Hangar 2 at Smith Field](#)

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2020 Dues Renewal Form

Please complete this form and mail to the address below with a check for \$20 to renew an individual membership or \$30 family membership. If you are a new member, please download a membership form from our [website](#) or you may contact a Chapter 2 officer or board member for more information. *Dues renewals are due January 1 of each year.* Payments may be made by personal check via Postal Service — at monthly Chapter 2 gatherings, or on the Chapter 2 [website](#) by credit card or Pay Pal.

Name: _____ National EAA Member # _____

Address: _____

City: _____ State: _____ Zip Code: _____

Home Phone: _____ Alternate Phone: _____

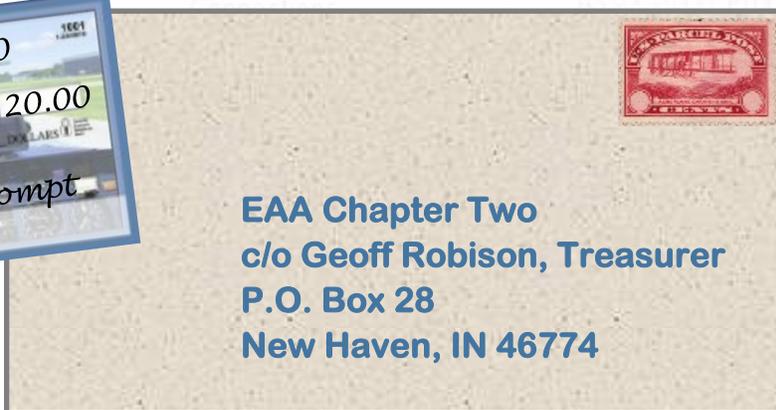
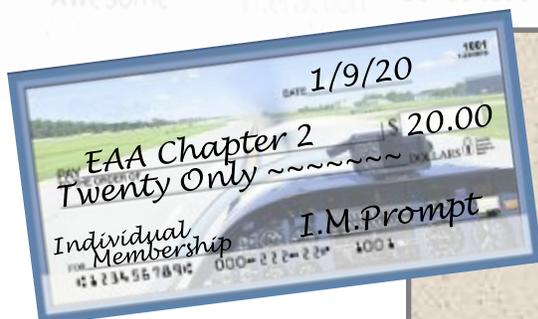
Email Address: _____

Spouse Name (if applicable): _____

— Memberships are \$20 Individual or \$30 Family —

— Payable to "EAA Chapter Two" —

— Send to the address below - or - Give to Larry Zepp at the next gathering —





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Experimental Aircraft Association Chapter Two Encourages and Promotes Sport Aviation and Aeronautical Education in Northeast Indiana.

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