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# News!

## July 2021

On the Web: [www.EAA80.org](http://www.EAA80.org)

Facebook: [www.facebook.com/eaa80](https://www.facebook.com/eaa80)

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### President's Corner

By Bruce Mundie



Great news for the chapter! We have secured a great spot to finish building the Chapter's Zenith 750. The Oak View Mall has given at cost, us a store to finish the build. Our "ABLE ACE" facility is over 4000 sq. feet, so we have the room to build 4+ aircraft. Our grand opening is set for 6

August, and we have invited everyone aviation group or club that we know of to the event. Please plan on helping get the facility ready for the building projects, or to assist with the grand opening. If you are interested, a facility manager position is also available!

Our Ray Scholar has started flight training. Patrick has completed his first flights with Oracle at Millard and is doing great! If you see Patrick out and about at the airport, definitely say hello and give him words of encouragement.

Finally, our summer event schedule is in full swing. Please take a look at the calendar and volunteer for any events that look fun or interesting! Young Eagles, Harvest Fest, ABLE ACE grand opening, there are plenty of opportunities.

Thanks and fly safe!  
Bruce

# Young Eagles

The last rally Chapter 80 had 2 pilots, flew 13 Young Eagles, and year to date as a Chapter we are at 51 Young Eagles. Pilots are always needed. Contact Scott Pridie if you can volunteer to fly Young Eagles at 832-489-2159 or pridie@sbcglobal.net.

## EAA Chapter 80 Meeting Minutes June 2021

The chapter meeting was held on June 14<sup>th</sup> at Oracle Aviation. The meeting was called to order at 7 PM by President Bruce Mundie.

### Guests and New Members

New member Dan is a student pilot at KCBF.

New member Jerry Taylor was visiting. He recently finished a Thatcher CX-4 that Doug Humble had started.

Patrick "Pat" Solinski, our Ray Aviation Scholarship winner, was on hand again. He will start training bright and early at 0530 tomorrow morning!

Tony White is a visitor. "Rusty pilot," wanting to get back into flying and is interested in building his own airplane.

**Meeting Minutes:** The May 2021 minutes were approved.

**Treasurer's Report:** Steve Farner's treasurer report was reviewed for May. The opening balance was \$12,101.98. Chapter receipts totaled \$225.00 (dues). No expenses. The ending balance is \$12,326.98. The report was approved.

**Membership:** Bob Condrey reported about 2/3 of the members have paid have paid, their 2021 dues. Two new members joined tonight. This is typically a busy time for renewals. Bob will send out reminders for dues payment after AirVenture.

**Scholarship:** Mike Howard mentioned the chapter typically gives out \$2,000 for a

scholarship. In light of the chapter helping give out the Ray Aviation scholarship (EAA national money), should the chapter still give out \$2,000? It was moved and passed to continue a chapter \$2,000 scholarship this year.

**Tech Counselors:** Nothing new. Mike will be presenting tonight

**Young Eagles:** Scott Pridie stated the next YE event is this Saturday, June 19<sup>th</sup> at KMLE. There are only 2 pilots and the group will be small. These are kids that were not able to get rides at previous rallies. Ground support and pilots/planes are needed. The July 17<sup>th</sup> event may potentially be canceled as there are personal and group conflicts. The next YE events are: Jul 17 (may be canceled), Aug 14, Sep 4 (STEM), and Sep 12 (Plattsmouth).

**Tools:** No change. A member from Wahoo was looking for a rivet squeezer for one oversized rivet. Bob Condrey and Mike Howard offered. He will visit Mike since Mike is closer.

**Builder Reports:** Bill Haas' Berkut has had the engine removed, test ran at Central Cylinder, checked out ok, now back in the hangar.

Ken Bahr is working on his Sonex.. He has transitioned from building all the parts to buying parts. He has many extra parts for sale.

Jerry Taylor finished the Thatcher CX-4 purchased from Doug Humble and it has had a first flight.

Greg Ross is working on the firewall forward of his RV-12.

Tom Wieduwilt and Kim Vosfeldt's Bearhawk. The wings are in the paint shop and fuselage is already painted

**Builder Meeting:** None scheduled

**Chapter Build:** See Old Business

**Fly-outs:** Mike Howard reported a flyout to Ames, Iowa had about 19 airplanes and 25 people.

Mike and Craig Tylski flew to the National Biplane Fly In. There were only 2 biplanes.

Bruce reported he went to the York pancake feed and had a ground speed of 30 mph going there. It was a 2:20 ride to York from Eppley.

**Social Coordinator:** Ed Kirker confirmed the next social event is the Plattsmouth (Harvest Day) EAA 80 picnic with YE flights on Sunday September 12<sup>th</sup>.

**VP:** Next month Brian Petersen from the Nebraska State Patrol will be the presenter. They will bring their helicopter from Lincoln. The Omaha Police and their drone squad will be here August 9th. Dave Greer will be back September 13th.

**PRESIDENT:** Bruce commented on Bob Cartwright's passing and his upcoming memorial service.

**Calendar:**

Jul 12 Chapter meeting, Oracle, NSP presenting

Jul 17, YE flights, KMLE (pending)

Jul 26-Aug1, **Air Venture**, Oshkosh

Aug 9, Omaha Police, Drone Squad

Aug 14, YE flights, KMLE

Sep 4, STEM Day, KMLE

Sep 12, Young Eagles, chapter picnic (Plattsmouth)

Sep 13, Chapter meeting, Oracle  
Dave Greer presenting

**Old Business:**

- Bruce talked about the Oak View Mall location. The bay the chapter was going to rent has changed. The original bay has a water leak. We have been upgraded to a larger area, over 4,000 square feet. There is room for many builds and a classroom. Bay J7. We will be getting the keys this week. The rent for one year is \$150/month. The mall management wants traffic in the mall any way they can get it. The space is open whenever a mall key-carrying member can open it. Even if the mall is

closed, there is a back entrance. (See *additional photos in this newsletter*.)

- Jim Beyer reported on STEM Day is occurring September 4<sup>th</sup>.and there is a push to make it a year-round type of program, not just a one day a year event.
- Bruce reported talking with an architectural firm to provide exterior and interior renderings for a new chapter hangar to be located southwest of Oracle's building as part of a briefing to the Millard Airport and Omaha Airport Authority as part of the chapter's 10-year plan. The plan would be a hangar large enough for 6 airplanes and a learning center.

**New Business:**

- Jim Beyer talked about using the Oak View Zenith project as a way to recruit students to the EAA. The Zenith project is not a student build, like the Aviation Nation project is, but there is no reason students can't help build this aircraft as well. There was discussion about regularly scheduled times for students to stop by and help. Then, there was discussion on how to make that work with insurance, student memberships, how national has a plan for student members and the chapter does not. There is more to research on the idea, primarily on the liability. A motion was made and passed to create a student membership for the chapter. The age range will follow national guidelines with more details to follow.
- Bruce discussed August 6<sup>th</sup> will be the date for an open house at the Oak View location to showcase what we have done. Bruce will take charge on the idea. (The invite can be found at the end of the newsletter.)
- Bruce proposed a name for the Oak View facility the Aircraft Building Laboratory and Aviation Center of Education (ABLE ACE). We will then get signage of some type for the location. He is looking for other ideas. The chapter will vote on the name and create signage for the location.
- Last, the Oak View site will need a site manager/ chapter contact. Currently, it is

split up between Mike Howard, Jim Beyer, Bob Condrey, and Bruce Mundie.

**Announcements:** None

**Raffle Drawing:** No raffle drawing

**Presentation:** Bob Condrey and Mike Howard talked about the changes occurring for AirVenture, including changes to the NOTAM for AirVenture with different procedures for arrival, changes in parking lots and parking on the field, and how the trams used on the field have been studied and changes made, based on those studies, to improve traffic and people flow.

**Next Meeting:** The next meeting is July 12<sup>th</sup> at Oracle Aviation, 7pm.

## EAA 80 Calendar of Events

- Jul 12 Chapter meeting, Oracle, NSP presenting
- Jul 17, YE flights, KMLE (pending)
- Jul 26-Aug1, **Air Venture**, Oshkosh
- Aug 9, Omaha Police, Drone Squad
- Aug 14, YE flights, KMLE
- Sep 4, STEM Day, KMLE
- Sept 12, Young Eagles, chapter picnic (Plattsmouth)
- Sept 13, Chapter meeting, Oracle Dave Greer presenting

## Technical Advisor

### Koehler's Korner



I was in Oshkosh in May to teach an EAA SportAir Workshop and had a chance to chat with the EAAHQ team a little bit. By the way, the mask requirement was still in effect in

Winnebago County, but had been dropped for the rest of the state a week prior. The political pressure on the local Winnebago health official caused him to relent after about a

week so unless there is a major recurrence of the China virus, AirVenture 2021 should look like normal. This brings up the question of what to plan for size-wise for AirVenture 21. I think initially they were thinking that about ¾ of a normal crowd would attend. Then Sun N' Fun happened and set attendance records! So, there is probably a rethink going on. This is not an easy guess to make. If they pick wrong, EAA could be placed in major financial trouble (at the least, somewhat worse than it is now). Things like port-a-potties need to be ordered about two months in advance. I am glad I am not in EAA management shoes just now. It will be interesting to see how things develop.

Ditto the problem for the display folks. SNF had something like 15% of the display areas empty, and some of the booths were "virtual" and/or unmanned. I did not see any interest in this type of booth by the crowd. We just walked on by. I heard that the forums area was way behind in folks planning to give presentations. Again, it will be interesting to see what evolves.

Just heard that advanced ticket sales are ahead of 2019.

On to something technical: The question often comes up concerning the use of washers and how many to use, so let's get into that a bit. The simple answer is that you can use up to 3 washers on a bolt, in combinations of 2 and 1, under the head or nut. Let's see how this happens in common use. Probably the most common bolt on the airframe of our homebuilts is the AN3 size which has a shank and thread diameter of 3/16" (hence the 3 (16ths) in the name). The next digit in the nomenclature is the length of the bolt in eights. So, an AN3-4 would be ½" long as measured from the base of the head to the end. In other words, the length is the combined length of the shank (smooth) portion and threaded portion of the bolt. To finish this, an AN3 -7 is 7/8" long, and a 1" bolt is an AN3-10. There is no -8 or -9 or -18 or -19, etc. size bolt. A 2" is a -20.

To finish this basic discussion on bolt nomenclature, if there is a letter "A" after the length number, the bolt thread area is not

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drilled for a cotter pin and you should use a self-locking nut on it. I remember the nomenclature as “A” meaning that “it Ain’t drilled.” Also, much rarer is a drilled head bolt (for safety wire, like on a propeller) which is designated by an “H” after the basic size number, like AN3H-4. Drilled head bolts are usually very expensive.

Okay, back to washers. The normal washer used on our aircraft is designated AN960 for normal size and AN970 for large diameter washers. After this basic designation, there is a dash number and the size of the hole in the washer. A bit tricky here is that the 3/16” size is designated by two different systems. Screw sizes are assigned numbers, and the 3/16” size is a #10. Smaller sizes are #8, #6, #4, etc. Larger is a #12. So sometimes in hardware nomenclature the 3/16” size is a -3, and sometimes a 10! There does not seem to be much logic to it. You just have to memorize the differences. So, the cadmium plated steel washers for a 3/16” washer are AN960-10. The aluminum version would be AN960PD-10. A half thick washer in steel has an “L” after the size, or AN960-10L would be the half thick steel washer for 3/16”.

Now the punch line. The standard AN960-10 washer is 0.064” thick. Remembering back to the 1/8” size increments of the length of a bolt, and doing a little simple math shows that four (4) washers equal one size increment. So, the maximum number of washers one should use to compensate for length is three. If you need more, you go to the next size shorter bolt!

Let me be the first to recognize that the airframe designer may have called out additional washers for other reasons, but in basic construction not more than three is the rule. Light washers give you the flexibility to fine-tune the length, but again, a maximum of three. And to answer the next obvious question, yes, you can mix thick and thin washer, just not more than 3.

I hope this helps you build smarter and safer.

Keep building, flying and maintaining.

Dick 06/2021

Re-published with permission of Dick Koehler, EAA 186

### EAA 80 MONTHLY TREASURER REPORT

Jul-21

#### Checking

Opening Balance                      \$12,326.98

#### **DEPOSITS**

6/15/2021 Dues                      \$250.00  
6/15/2021 Misc                      \$10.00

#### **EXPENSES**

Food & Drink                      \$24.95

**Ending Balance                      \$12,562.03**

#### Asset Accounting

<u>Date</u>	<u>Item</u>	<u>Value</u>	<u>Date</u>	<u>Item</u>	<u>Value</u>
6/17/2020	T-Shirts	\$125.00	5/22/2020	Zenith 750 Proj.	TBD
7/13/2020		\$100.00			
8/10/2020		<u>\$25.00</u>			
<b>Total</b>		<b>\$250.00</b>			



## Photos

Photos from the Zenith Project's move to Oak View Mall



Nothing to see here. Just moving an airplane through the food court.....







## Upcoming Webinars

### [EAA AirVenture 2021 Features and Attractions](#)

7/13/21, 7 p.m. CDT

Rick Larsen and Dennis Dunbar

### [Get Your Gas In Gear: Preventing Misfueling Accidents](#)

Qualifies for FAA WINGS and AMT credit.

7/14/21, 7 p.m. CDT

Prof. H. Paul Shuch

### [Homebuilt Highlights from AirVenture](#)

Homebuilders Webinar Series

8/3/21, 7 p.m. CDT

Marc Cook

### [Misfueled with Jet A](#)

Qualifies for FAA WINGS and AMT credit.

8/4/21, 7 p.m. CDT

Mike Busch

### [Bugatti 100P: One of a Kind](#)

Museum Webinar Series

8/10/21, 7 p.m. CDT

Bob Havens

### [Runway Directional Control](#)

Qualifies for FAA WINGS credit.

8/11/21, 7 p.m. CDT

Tom Turner

### [Alluring Figures in Aerobatics: What the Rules Say, What Judges Like, and What Pilots Do](#)

Qualifies for FAA WINGS credit.

8/17/21, 7 p.m. CDT

DJ Molny

### [How to Become a CFI](#)

Qualifies for FAA WINGS credit.

8/18/21, 7 p.m. CDT

Radek Wyrzykowski

### [Tundra Tires Rule: Alaska Style](#)

Qualifies for FAA WINGS credit.

8/25/21, 7 p.m. CDT

Laura Herrmann

### [Avoiding Carburetor Icing - A Cool Pilot's Guide to Carb Heat](#)

Qualifies for FAA WINGS and AMT credit.

9/8/21, 7 p.m. CDT

Prof. H. Paul Shuch

These are the current webinars listed on [eaa.org](http://eaa.org).

Please check the site at:

[www.eaa.org/en/eeaa/news-and-publications/eeaa-webinars](http://www.eaa.org/en/eeaa/news-and-publications/eeaa-webinars) to see if there are other webinars available.

*EAA Chapter 80 is classified as a Non-Profit Charitable Organization per section 501(c)3 of the Internal Revenue Code. As a result, we are eligible to receive tax-deductible contributions in accordance with Code section 170.*

*Your contributions will go towards such things as:*

- ✓ Aviation scholarships
- ✓ Scholarships to send kids to EAA's Air Academy in Oshkosh, Wisconsin
- ✓ Helping promote Young Eagles events and rallies for the community
- ✓ Many other events that promote aviation in the Eastern Nebraska and Western Iowa region.

*EAA 80 is a 100% volunteer organization, there are no paid members to the staff. Our only funding comes from chapter dues and occasional fund raising.*

*Please visit our website [eaa80.org](http://eaa80.org) or contact an office to inquire about making a tax free donation.*



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***Experimental Aircraft Association  
Chapter 80  
Eastern Nebraska & Western Iowa  
3001 S. 144<sup>th</sup> Street, Omaha, NE***

June 24, 2021

Dear Aviation Enthusiast,

We would like to invite you to the grand opening of our Aircraft Building Laboratory and Aviation Center of Education (ABLE ACE) on August 6<sup>th</sup> 2021. Tours will begin at 5:30, with a short ribbon cutting ceremony at 6:00. The facility is at the Oak View Mall in Omaha (3001 S 144<sup>th</sup> St).

This facility will allow us to improve our mission of expanding the scope, value, and utility of general aviation, especially to the youth of our community. In fact, our first project in the new facility is well underway with the construction a Zenith 750 light- sport aircraft. Experienced EAA members, along with local high school and college students, will build and then fly this aircraft. Along the journey, we hope to enlighten and motivate our student members to pursue a career in aviation.

The partnerships we have with local aviation groups are critical to the success of our mission. We simply cannot do this without your help. Our plans include a continued cycle of building and flying aircraft, built by students and enthusiasts, from our facility. Additionally, we have plans for a permanent hangar facility where we can continue to host youth aviation education, aircraft construction, safety forums, and local flying events. We would also like to continue to expand our local scholarship programs, which directly supports students attending aviation programs at the University of Nebraska Omaha and Iowa Western Community College.

We are very excited about what we can accomplish with our partners in this new facility. We look forward to seeing you at our grand opening!

Bruce Mundie  
President EAA 80

RSVP by 2 August to Bruce Mundie: E-Mail [Reccefaip@aol.com](mailto:Reccefaip@aol.com) ; or Text or Voice (703) 405-7817

Mail checks to:  
 Bob Condrey  
 1105 Kountze Memorial Dr.  
 Bellevue, NE 68005

## EAA CHAPTER 80 2021 APPLICATION FORM

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CONTACT INFORMATION			
NAME		EAA NUMBER	
ADDRESS			
CITY, ST, ZIP			
SPOUSE NAME			
HOME PHONE		CELL PHONE	
E-MAIL ADDRESS			
PROFESSION		RETIRED	

MEMBERSHIP PROFILE										
OWNED ACFT						N-NUMBER				
ACFT BUILDER		TYPE:					COMPLETE %			
PILOT LICENSE										
AIRPORT BASE			HANGAR #							
EMAIL GROUPS	FLY-OUT		BUILDERS				YOUNG EAGLES			
PUBLISH INFORMATION IN CHAPTER DIRECTORY				HAVE A NAME TAG			YEAR JOINED CHAPTER 80			
YOUNG EAGLE VOLUNTEER			YOUTH PROTECTION TRAINING CURRENT							

OFFICE USE: (DUES \$25 PER YEAR)									
2021		2022		2023		2024		2025	
PAYMENT	TYPE			AMOUNT			DATE		

Last updated: 1/3/2020