



The ThunderWord

Thunderbird Field EAA Chapter 1217 October 2014

Scottsdale, Arizona

PRESIDENT'S CORNER

Greetings from my corner of the hangar! At the September meeting, Deer Valley Airport Manager Ed Faron gave us a rundown of the past, present and future for the busiest GA airport in the country. It was interesting to learn why certain projects were being done and what the future holds.

Several of our Chapter members have been asking about modifying their Standard Category planes and putting them in the Experimental Category. This is a common theme on websites and chat groups, and usually the people spouting off have little or no knowledge of the subject. The time to ask your questions is before you modify your Standard Category plane in any way that deviates from its FAA-issued Type Certificate.

There is an online Type Certificate Data Sheet (TCDS) database that is a repository of Make and Model information. The TCDS is a formal description of the aircraft, engine or propeller. It lists limitations and information required for type certification including airspeed limits, weight limits, thrust limitations, placards, etc. You can make certain modifications using approved modifications but you can't change certification categories without a lot of paperwork.

Before you even think about modifying a standard category plane, you need to sit down with your IA and perhaps an FAA Airworthiness Inspector to educate yourself on the subject. It is very possible to take a perfectly usable airplane and do irreversible damage to it, rendering it never to fly again.

The same goes for when you buy a half-restored project that someone else has

started to restore and added a few "custom modifications." You might be buying a pile of parts or some very expensive yard art. Buyer beware!!

The fall flying season is almost here so it is time to start cleaning up your planes. A good wash, vacuum and wax are always a way to do an extensive preflight. Don't forget a little bug spray so your plane smells like a Stearman and keeps the six-legged critters away. Also be sure and make plans for this month's Copperstate Fly-In.

See you at the October meeting!

Curtis

OCTOBER CHAPTER MEETING

The next meeting of Thunderbird Field EAA Chapter 1217 will be held on Thursday, October 16, starting at 7 pm. The location is the Scottsdale Aviation Business Center, 15041 North Airport Drive. This month's guest speaker is Lindsey Goss from GossHawk Unlimited aircraft restoration at Casa Grande Airport. Lindsey is going to talk about Aviation Archeology and the role it plays in aircraft restoration.

Lindsey, along with her father Dave, participated in the first ever Aviation Archeology Symposium, put on by the Seattle Museum of Flight, earlier this year. Some of the topics discussed included: funding and how it directs a project, static vs. airworthy, original vs. new fabrication, original and airworthy aircraft documentation, and examples of these different projects. They concluded their presentation by talking about how to fit in directly with the Seattle Museum of Flight. So how did GossHawk tie in? Well,

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Dave restored and maintained many of the aircraft in the Champlin Collection, and the Champlin Collection now lives on at the Seattle Museum of Flight, and can be seen in the Personal Courage Wing.

It should be an interesting evening, and while most of us aren't funding outsourced

restorations, it will be interesting to learn about what goes into restoring and preserving historic aircraft. As the number of historic aircraft to restore gets smaller, it will be interesting to learn the depths people will go to, to find projects.

Guests are always welcome!



Dave and Lindsey Goss at the Aviation Archeology Symposium

COPPERSTATE FLY-IN

The COPPERSTATE Fly-In & Aviation Expo is a great place to see a diverse blend of aircraft in action, attend informative workshops, and check out the latest, greatest aviation products. In its 42nd year, this year's fly-in - scheduled for Thursday, Oct. 23 to Saturday, Oct. 25, 2014 at the Casa Grande Municipal Airport in Casa Grande, Arizona - promises to be no exception.

Over the years, COPPERSTATE has grown to the point that it attracts about 500 aircraft and 5,000 attendees per year, representing 10 countries and 40 U.S. states.

Attendees particularly enjoy the wide variety of aircraft on the ground and in the air. Over 1,000 people attend COPPERSTATE's workshops and forums every year, and
October 2014

several dozen kids participate in the youth activities, including a wing rib building workshop.

The annual aircraft judging awards banquet, held on Saturday night of the event, is another crowd-pleaser.

Last (but certainly not least), COPPERSTATE also plays host to about 50 diverse exhibitors. In their "big tent", a pilot or aviation enthusiast can find just about anything they're looking for. Check out www.Copperstate.org for all the latest updates.

VAL RADIOS ON SALE

VAL Avionics would like to thank all of their EAA customers for their continuing support of VAL's "Made In USA" products.

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Lindsey and a Friend

Through December 31, 2014, VAL Avionics will be making America's best buy in Avionics even better with a substantial **10 to 20% savings** offer for products purchased online at their **VAL**ue Store; visit their website at www.valavionics.com

For more information you can also contact Jim Harr, President, VAL Avionics, Ltd. 2950 Pringle Rd S.E., P.O. Box 13025 Salem, Oregon 97309-1025

EAA MEMBER

REINVENTS CLECO PLIERS

As the saying goes, necessity is the mother of invention. In Christopher Braun's case, building a Zenith CH 750 STOL in his garage provided the inspiration to reimagine a tool that's been around for about 80 years. His completely redesigned Cleco pliers, the Clecall, has an upright orientation allowing easier access when working in tight areas, are 70 percent lighter than traditional Cleco pliers, and should result in far less fatigue

from continuous inserting and removing of Clecos.

Braun, EAA 808722, of Roseville, California, started experiencing hand and wrist pain within weeks of starting his own project. He was told by other builders that this is "just the way it is" when working with large quantities of Clecos, but Braun worried that numbness and wrist pain could develop into a serious repetitive stress injury like carpal tunnel syndrome.

In 2012 he began analyzing how he might get his natural hand and wrist angle to work with Cleco pliers. After creating various cardboard and aluminum designs, he employed 3-D printing to fashion a working plastic prototype, then fine-tuned it over the ensuing weeks to create an aluminum prototype - the Clecall - that he's now selling.

The Clecall Company is headquartered in Rocklin, California. CNC-machined out of a solid aluminum billet, Clecalls are now

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available for an introductory price of \$29.50 through the company's website. www.clecall.com

Since becoming available on September 11, the Clecall has been incredibly popular – in fact, new purchases are currently on backorder until after October 15, 2014, according to the website.

“The builders and mechanics that we have spoken to are very excited about the feel of the new Cleco plier and the speed in which it can be used on projects,” he said. “Clecall is thrilled that users around the world will begin to experience less pain and headache when using the ergonomically designed tool.”

At about six weeks away from completing his CH 750 STOL, Braun observed, “It is amazing what a project can teach you over the course of 18 months.”

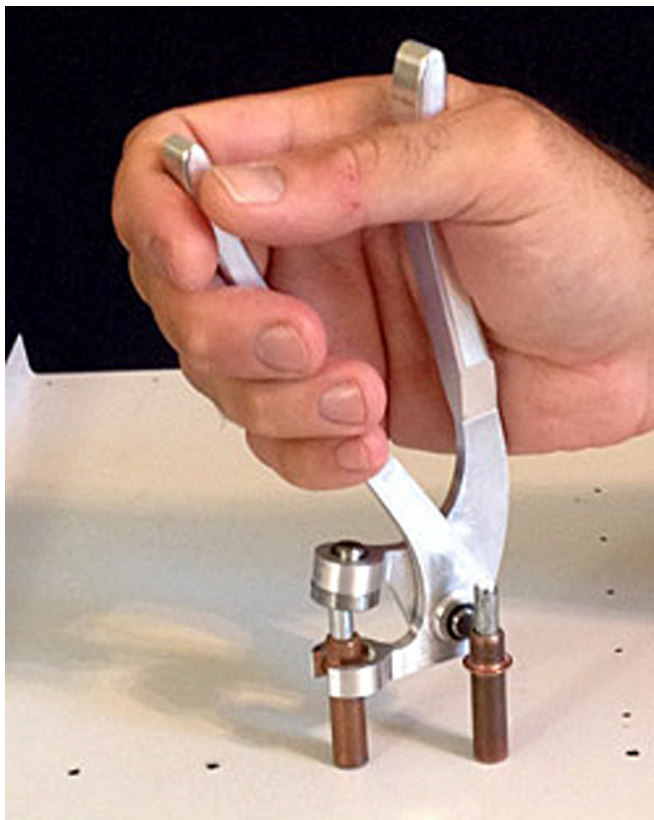


Photo courtesy of the Clecall Co.

Clecall Pliers for Handling Clecos

AIRCRAFT BUILDER RETIRING

Several years ago Jim Platz built an RV-7A and sold it shortly after completion. After that

he started on a Sonex but eventually decided that due to age and an elevated blood pressure, it was time to give up on flying. He still loves flying but will be satisfied by occasionally hitching a ride with someone.

So, Jim is going to sell the rest of his aircraft building equipment. He lives near Redmond OR and will be coming down to Apache Junction in November for about 4 months. He plans to bring the tools with him. So if you are interested, drop him an e-mail to get a PDF file listing what he has. He also has pictures of each item and can e-mail them to anyone interested. Contact Jim Platz by e-mail at jhplatz@gmail.com

OLD PROP FOR SALE

From Ned Dolan

I have had this old prop for at least 37 years. I have been meaning to refinish it and put it on a wall but never got around to it. I must have picked it up in NJ or PA and have been lugging it around since. I now believe I never will get around to it and that maybe someone else would like it. It is 87 inches long and apparently has been well used. I can't find any markings on it that would show its origin. Similar items are on eBay for \$200 to \$1000. Make me an offer. I live in Prescott, contact me at: nedolan@gmail.com

GWEDUCK KITS AVAILABLE

Ellsion-Mahon Aircraft, Inc. of Renton, Washington has selected Composite Creations, Inc. to develop, market and produce kit planes for the Gweduck 6-place twin engine amphibian flying boat. EM Aircraft has developed this very worthy successor to the flying boat tradition developed by Grumman with the Goose, Widgeon and larger models. This remarkable aircraft was developed by Ben Ellison, his brother Marty and Ross Mahon over an approximately 20-year period. They built a prototype and now flight testing of the prototype is substantially complete. The first Gweduck kit is in production and kits are available for sale. To get yours visit www.compositecreations.net



Gweduck Six-Place Twin Engine Amphibian Flying Boat to be Available in Kit Form

WINGBOARD

Imagine being towed through the air behind an airplane, like a wakeboarder or water skier being towed by a ski boat. That's the general idea behind the WingBoard, which is being developed by former Young Eagle Aaron Wypyszynski, EAA Lifetime 579057, and president of EAA Chapter 190 in Meridianville, Alabama.

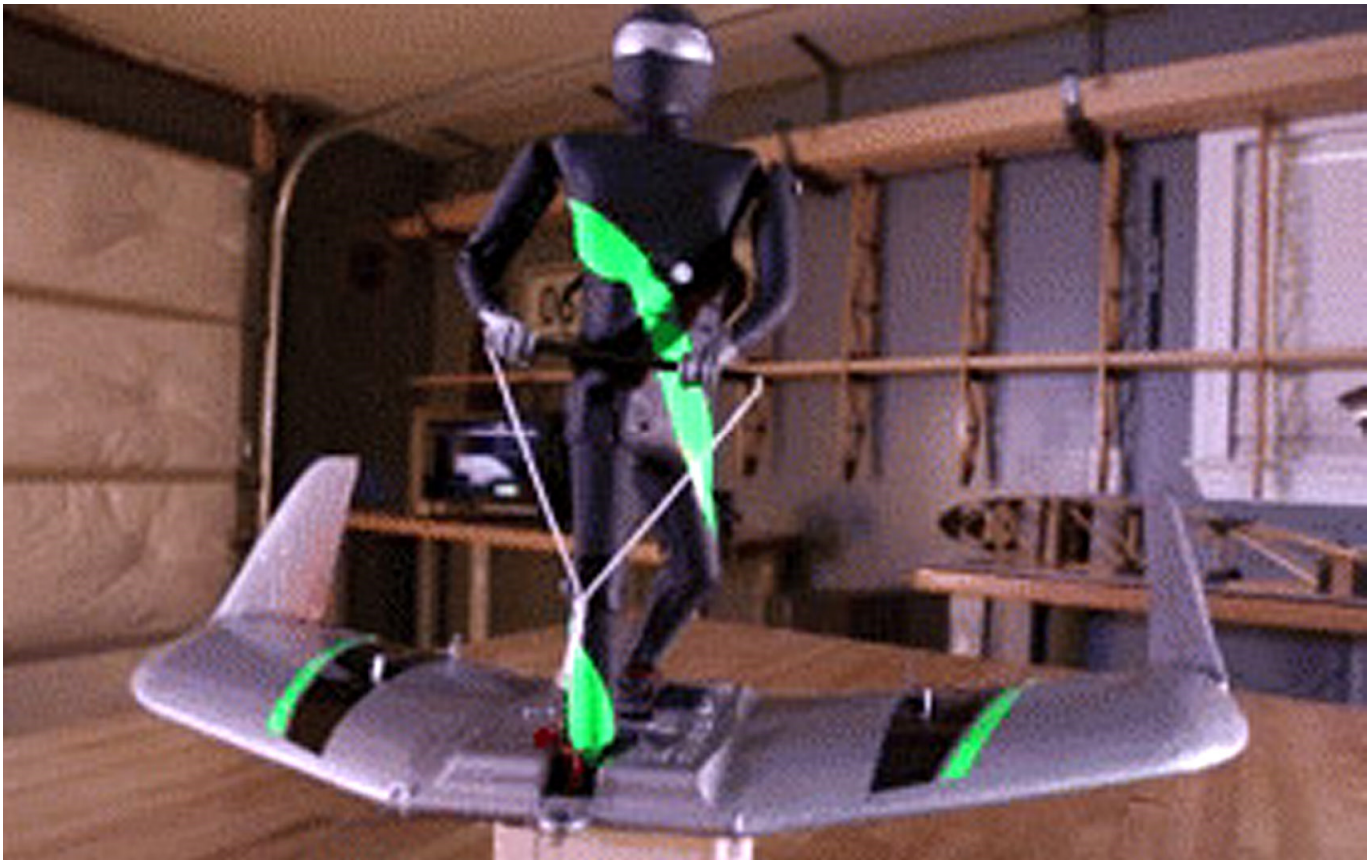
Wypyszynski was featured in a story during EAA AirVenture Oshkosh 2014 about his flight with EAA Young Eagles Chairman Sean D. Tucker. The WingBoard project was mentioned in the story, but now Wypyszynski is launching an effort to get the product off the ground through his company, Wyp Aviation.

Wypyszynski calls the WingBoard "a wakeboard in three dimensions" that combines wakeboarding, skydiving, and wingsuit flying, permitting riders to carve through the sky while being towed behind an airplane.

It works through a close coupling of the rider, tow rope, and composite WingBoard. Its shape has a stable center of gravity while the rider, attached to the board with a binding, stands upright and leans and twists in all directions to maneuver the board. The unique tow rope design provides stability and also reduces forces on the rider.

The phase I prototype is a 1/6 scale model using a remote control airplane towing the WingBoard with a 3D-printed human model on board. Wypyszynski claims the prototype has proven the aerodynamic stability and control of the design.

Next up is work on a phase II prototype, a 40 percent scale model and final stepping stone toward the development of the full-scale prototype. Wypyszynski has launched a crowd funding campaign to generate funding for this next development, expected to run a little over 6 months. To learn more about the project, visit the Wyp Aviation website: www.wypaviation.com



Aaron Wypyszynski's WingBoard

\$100 BREAKFAST FLIGHTS

There is a fly-in breakfast at Coolidge Municipal Airport the first Saturday of each month.

The Falcon EAA Warbirds Squadron Breakfast is on the third Saturday of the month and will be restarting on October 18. Breakfast will be served from 8 to 11 am at the old Champlin Fighter Aces Hangar.

Also the third Saturday of the month, there is a fly-in breakfast at Benson, with great fuel deals available from Southwest Aviation

The last Saturday of the month there is a fly-in breakfast at Casa Grande Municipal Airport that runs from 7 until 10 am. The breakfast is inside the air conditioned terminal building, and all proceeds go to Terry Emig. Please be generous, as he has many cottontails to feed in his yard.

EAA Chapter 1217 Personnel

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Young Eagles	YOUR NAME - HERE POSITION OPEN		
Technical Counselor	Dan Muxlow	480 563-4228	N27DM@cox.net

ThunderAds

FOR SALE, ETC.

VANS AIRCRAFT RV WHEEL PANTS

Pressure recovery wheel pants. New never used, painted, or drilled \$400. Jack 480 695-4441

GARMIN GDL39 PORTABLE GPS

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MISC. INSTRUMENTS

New Rapco Vacuum pump RA215CC-9, \$250.; New Electronics International oil pressure and temp, \$400.; New Elec. Int. carb temp and outside air, \$250.; New Elec. Int. volt amp gage, \$250.; New Elec. Int. single cyl head temp, \$250.; Ovh. RC Allen Horizon RCA22-7, \$400.; Ovh. Edo Air DG 4000B-8, \$400.; Repaired Cessna turn coordinator, \$200. Jerry 602- 663-2432, or e-mail: JerryLane90@aol.com

PULSE AUTOCYCLE

FAA got you grounded? Want a fun project that captures the thrill of flying? Jim Bede designed Pulse Autocycle for sale \$22,000., Arizona title and current registration. Curtis 602 710-4494 azskybum@aol.com

TAYLORCRAFT BC12 D

Beautifully restored BC12 D. TT: 2635 hrs. 255 hrs since total restoration. C-65 255 hrs smoh. Have all aircraft records & FAA data since new. Annual inspection with purchase. \$24,500. Steve Trieber, Located in Casa Grande• Telephone: 207-853-6060

LYCOMING 0-360 A1A

Engine built up for RV project that never got off the ground. Invested \$50,000. Price is very firm at \$25,000. Martin Del Giorgio delgiorgiopels@gmail.com

ESTATE SALE

Chapter member Marty Williams has flown west and his family is selling his Zenith 701 kit. Contact his son Keith at 480-998-4873.

CURTISS REED PROPELLER

Model 55511. 82" SAE 1 taper shaft. (Warner, Ranger, Maytag 604) \$4,000, Patrick McGarry: 602-430-0140

PROJECTS FOR SALE

Protech, PT-2, folding wings & trailer, 82 hp Mosler engine. & Gere bi-plane, about 75% complete, built from magazine plans, circa 1932, completely rebuilt Model A engine. Pat Wall 928-851-2244.

2009 LANCAIR 360

Superior IO-360 engine, TTAFE 20 hours, mineral oil, every thing new including paint, GPS, loaded, must see. Mary Shragal 630-897-7706

SERVICES

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