



The Leader In Recreational Aviation



The Leader In Recreational Aviation

Vol. 4, No. 4, July, 2008

LEADING EDGE



Photos by Dean May

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EAA Chapter 1414

**5151 Orth Road
Poplar Grove
IL 61065**

Mission Statement

**Promote, encourage
and facilitate an
environment that fosters
safety, education and high
standards in the design,
construction, restoration
and operation of all types
of recreational aircraft,
as well as, nurture
camaraderie and
friendship amongst all
members!**

President's Corner



As a chapter, we are in the process of exploring our future. We would appreciate your input on the matter in regards to a chapter hangar, yearly events and the like. Your participation in Monthly Meetings, volunteering at our many events right on down to just dropping a line are what makes EAA 1414 successful. At the July meeting you will be given your chance to respond. Be thinking about it now. Everyone's opinion is important!

Lee

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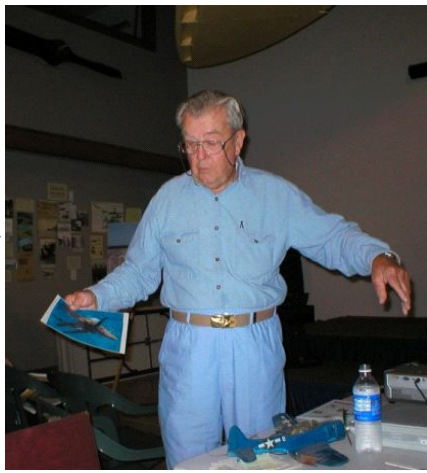
Ken Kresmery

Scott Ross

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June News

On Tuesday, June 10, EAA Chapter 1414 held its regular meeting. The guest speaker was our own Captain Chuck Downey, who in his career flew 45 different airplanes. He regaled the group with stories about his years as an SB2C Helldiver pilot flying off of aircraft carriers in World War II.



The next meeting will be held on Tuesday, July 8. As our guest speaker, we are fortunate enough to have Bernard Heimos. Bern is flying from California to Pennsylvania and has arranged his schedule to land at Poplar Grove Airport just in time for the meeting. Visit the Chapter website at www.eaa1414.org to learn all about his **Heartland Adventure 2008**.



Bernard Heimos and his Cub

Flag Day

Saturday, June 14, was Flag Day. On this day the country celebrates the anniversary of the Flag Act in 1777, when the American flag came to be.

At the Poplar Grove Vintage Wings and Wheels Museum members and guests joined Captain Chuck Downey to commemorate this event. Captain Downey led a flag raising ceremony and presented a special flag flown over the White House to a young patriot in attendance. This flag was commissioned by Senator Don Manzullo to be given at this place.

After the ceremony everyone was invited into the museum for punch and cookies. The children then hunted for American flags in all of the museum exhibits. Each child received a small flag to display at home.

Captain Downey would like to thank all who participated that day. If you missed the event this year, put it on your calendar for next year.



Cover: No Flying Today Dean captured an advancing wall of roll clouds, before a Father's Day storm. Other photos in this issue were furnished by Kendra Helvey, Mike Perkins and Kip Kirkland.

Events Calendar

July 8	Chapter 1414 Board of Director's Meeting, Vintage Wings & Wheels Museum , 5151 Orth Road, 5:45PM. All Members are welcome.
July 8	Chapter 1414 Monthly meeting, Vintage Wings & Wheels Museum , 5151 Orth Road, 7PM
July 12	Family Fly Day, Vintage Wings & Wheels Museum (C77)
July 28-Aug 3	EAA AirVenture, Oshkosh, WI (OSH)
August 24	Kresmery's 13th Annual Day at the Hangar/ Corn Roast, Opens Noon, Lunch 2PM
Aug 24-Sept 1	Labor Day Weekend Fly-in/Drive-in, Ken & Polly's, Able Island, Iowa (C74)

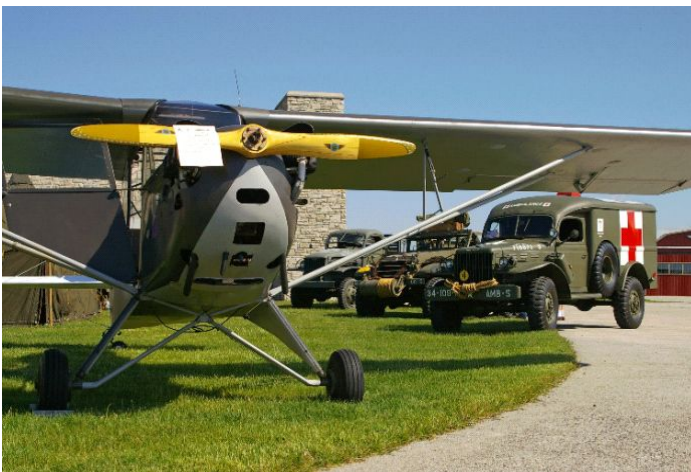
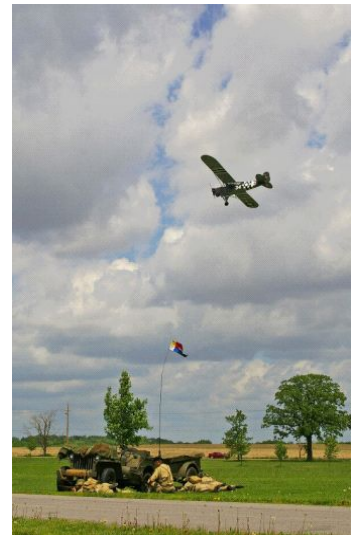
Army Wings and Wheels 2008



History came alive again this year on May 30 through June 1 at the Poplar Grove Airport. The Second Annual Army Wings and Wheels WWII Battle Re-enactment and L-Bird Fly-in was bigger and better than before.

The event is a joint venture by the Poplar Grove EAA Chapter 1414 and the Vintage Wings and Wheels Museum. It is coordinated by Tom Murray, an owner of L-Bird by the name of Aunt Bessie. The purpose of the event is to honor this aircraft and all who flew it and educate the public on its role in combat.

If the faces of all involved - volunteers, re-enactors, speakers, pilots and guests - are any indication, the event was a tremendous success.



Wind Farm Turbulence

By Mike Perkins

*EAA Chapter 790 Tech Counselor,
Newsletter Editor and Safety Writer*

From the ground or from the air, windfarms are quite an impressive and sometimes beautiful sight. Otherwise called wind turbines, they help the “green” effort. But the vortices that come off the churning blades are also impressive. Blades come in different sizes and can be from 130 to 300 feet in diameter. Tip speeds are hundreds of miles per hour.

The “prop” isn’t quite windmilling – these blades work pretty hard for a living. In fact, they are driving huge generators that produce from 500 kilowatts to 2 megawatts each. One horsepower is 746 watts. So those kilowatt numbers translate to 670 horsepower and 2680 horsepower, respectively.

But because the blades are less than 100% efficient, the “propellers” actually have to produce much greater horsepower than the generators put out. So you’re going to have a set of blades absorbing about 800 to 3500 horsepower from the wind. Note that on the graph they get their power from low windspeeds; at 15 mph, the generator is at its peak output and the power actually decreases above that speed. Such relatively low speeds imply that huge volumes of air are involved. Any pilot knows intuitively that this must be true; we’ve all seen the props on R2800 engines and their blades are no where near this large. So it’s volume, not speed, that runs wind turbines.

There’s obviously no resulting wind-blast, like a prop. But with the blades *taking* energy out of the wind, the wind behind the blades will have a power loss of between 800 and 3500 horsepower. Naturally this abrupt change in wind energy creates massive amounts of turbulence, most of which gets sent off downwind. But like wake turbulence, it will also rise especially in the presence of updrafts. I would imagine flying too near a windfarm would be like being a mosquito in a roomful of fans. Ironically, wind turbines are susceptible to stresses put on them by incoming turbulence, so big farms are located where turbulence is at a minimum.

Windfarms are not shown on sectionals. But a prudent VFR pilot would stay a mile or two away laterally and perhaps a thousand or more feet above. And, so as to be less obtrusive to the landscape, these blades are painted F-16 gray, making them hard to see in low visibility.

One thing I can tell you is that crop duster pilots avoid wind turbines like the plague. They follow special procedures when dusting within sight of a windfarm.

Maybe you should, too.



Wind turbine propeller blades



Windfarm north of Rockford

POBEREZNYPACKARD REUNION

By Paul Wallem

EAA Chapter 1414 and

Vintage Wings and Wheels Museum

Vintage Wings & Wheels Museum Co-Founder Pat Packard re-united with EAA Founder Paul Poberezny on June 25. VWWM Executive Director Kip Kirkland coordinated with EAA President Tom Poberezny for the trip to EAA headquarters.

Pat Packard spent 12 years designing all displays inside the EAA Museum. Tom Poberezny greeted Pat with a hug, as did the receptionist at his office!

During lunch in Tom's office, he reminisced at length about Pat's creativity in creating the inside of the unique, world-class EAA Museum.

Pat reminded Founder Paul that they both have the same initials, (PHP) and are almost the same age (Pat is 87, Paul is 86) but Paul's EAA number is smaller! (#1). Pat is EAA 5926.

Chuck Downey, Paul Wallem and Kip Kirkland accompanied Pat to the EAA headquarters for a lunch that they will all remember.



Paul Wallem, Tom Poberezny, Pat Packard, Paul Poberezny, and Kip Kirkland at EAA Headquarters



Marc Kresmery of EAA Chapter 1414 poses with his new RV 10 after a Father's Day morning flight.

Ken & Polly's

13th Annual Day at the HANGAR

Poplar Grove Airport

Sunday August 24, 2008

**BAR OPENS AT HIGH NOON
LUNCH 2:00 PM**

Italian Sausage and Sweet Corn
We have all the drinks

Things to Do

Ride in a XKE JAG	Its Red
Ride in a 57 T Bird	Top Down
Ride in a 1979 Rolls Royce	Built for a Prince
Ride in a 1930 Model A Ford	It has a rumble seat
Bet on the Model T Race	Two at the Airport
Ride in a VW Bug Conv.	May have Bug Races
Ride in a 1911 Woods Mobellette	If we can get it to run
Ride a Motorcycle	With a side car
Ride in one of 4 Airplanes	One with out a top
	One-goes in water

Sign up for the Parachute Jump

Thing to bring....

1. Children
2. Friends
3. Sun-shine Party in the Hangar in case of rain
4. Some thing to go with the sausage and sweet corn

Directions on back** Ken & Polly Kresmery 847 742 0000

Buy, Sell, Trade, Give Away, or Participate!*

**Classified ads may be submitted by any member free of charge. Ads will run for three months unless cancelled, renewed or otherwise instructed..*

Tailwheel Endorsement

Bob O'Quinn, CFI, is offering tailwheel checkout and endorsement in a Piper J-3 Cub, Cessna 140, or your personal aircraft.



For more information:
Telephone (847)358-7554 or
e-mail
roquinn@TurfGrassSod.org

For Sale: Individual T Hangar at Poplar Grove Airport, well insulated, full 60-amp electric, ceiling fan, fluorescent lights, outlets, painted floor, liner panel al sides. \$45,000. Call 815-262-4082

Found: Extra large hooded black sweat jacket in the museum after the April Chapter 1414 meeting. Call the museum at 815-547-3115 or pick it up at the museum office or at the next chapter meeting.

Countdown to Oshkosh



July 28-August 3
Only Three Weeks Left!

Interested in Joining Chapter 1414?

Application For Membership

1414 Member Information Card

Name (last, first) _____

Spouse: _____

Address: _____

Home Phone: _____ Work Phone: _____

E-mail: _____

Military: Highest Rank: _____ Branch of Service: _____ Specialty: _____

Aviation Interest:

Pilot Rating (past or current): _____

Type of Airplane(s) I own: _____

Type of Airplane(s) under construction: _____

Type of Airplane(s) I have an interest in: _____

Would like to join a partnership to buy or build a plane (type): _____

Would like to see more: ☐ Social Functions ☐ Ground School

☐ Outside reps from aviation tech. dealers Other: _____

Would attend additional tech sessions (i.e. painting, welding etc.) ☐ Yes ☐ No

EAA Membership No. _____ Dues: \$20 email newsletter ____ \$30 print newsletter ____

Send to:

EAA Chapter 1414

5151 Orth Road

Poplar Grove, IL 61065

Premeeting Checklist

- ____ • Bring suggestion for activities, etc.
- ____ • Your member profile for the Newsletter
- ____ • Any aviation article of interest that you would like to share
With the other members

EAA Chapter 1414 meets on the second Tuesday of the month in the Vintage Wings & Wheels Museum, 5151 Orth Road, unless notified otherwise in the newsletter. The meeting starts at 7:00 PM.

Directions: From Belvidere, IL, go north on Rout 76 approx. 3.5 miles and turn right on Orth Road. Make the first right turn and the museum is on the left.

The Newsletter is always looking for interesting articles and pictures by our chapter members. Please submit anything you have written, would like to write, or any pictures that you believe would be of interest to the chapter membership. The preferred method for the editor to receive articles is by e-mail to: mayge46@verizon.net. Alternately, a ZIP disk or CD with articles written with any major word processor with a printed copy may be submitted to any board member at the meetings.

5151 Orth Road
Poplar Grove, IL 61065

1414

EAA CHAPTER

