

EAA CHAPTER 80 NEBRASKA IOWA



News!

Visit Our Web Site
www.EAA80.org

December 2014 Newsletter

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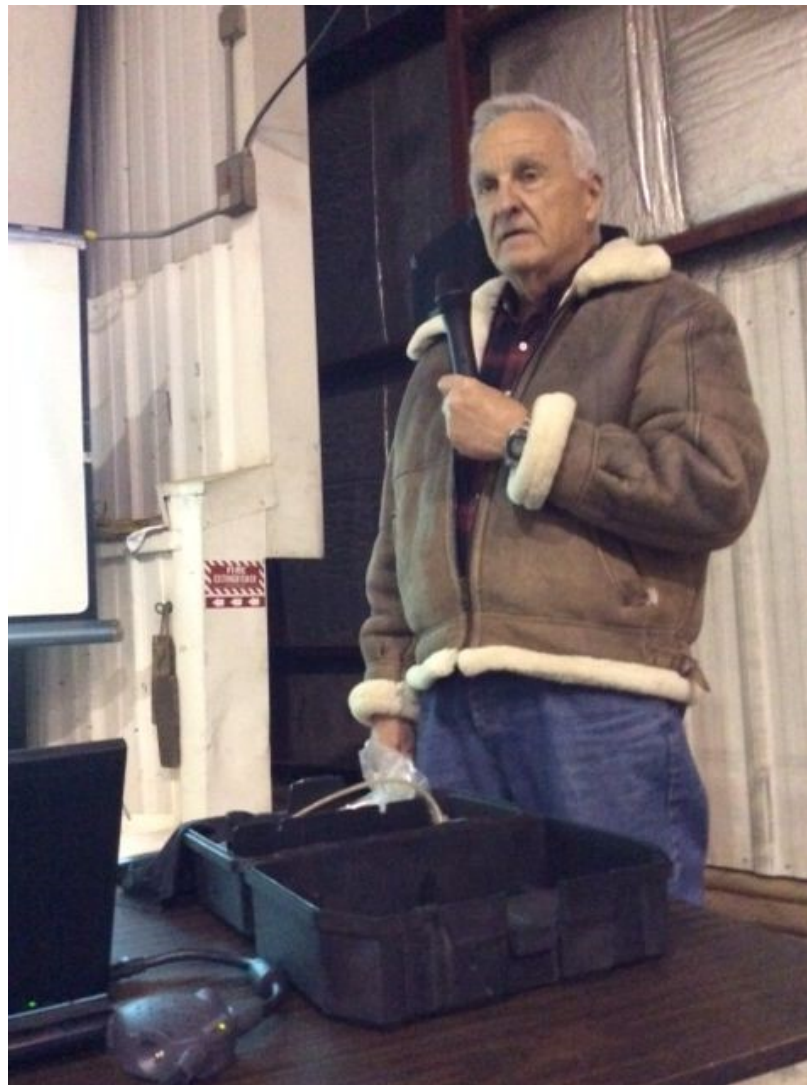
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Flutter is Not Good

Mike Howard, the chapter Tech Counselor, presented a program on flutter; what it is, what kinds of problems it causes, and things that can be done to prevent it. Flutter phenomena are seen when vibrations occurring in an aircraft match the natural frequency of the structure. If they aren't properly damped, the oscillations can increase in amplitude, leading to structural damage or even failure.



A similar problem occurs in bridges and brought down the Tacoma Narrows Bridge in 1940.

Flutter as a controlled aerodynamic instability phenomenon is used intentionally and positively in wind mills for generating electricity and in other works like making musical tones on ground-mounted devices, as well as musical kites. Flutter is not always a destructive force; recent progress has been made

in windmills for underserved communities in developing countries, designed specifically to take advantage of this effect. The oscillating motion allows variable stroke waterpumping to match the variable power. Following several fatal accidents involving in-flight structural breakups of the Zodiac, a homebuilt aircraft, the Safety Board issued several [recommendations](#) to the FAA. These recommendations addressed: mitigating the potential for aerodynamic flutter, correcting airspeed correlations, and evaluating the sensitivity of flight controls in the wind. Mass balancing experimental aircraft control surfaces is critical part of the flight test process. Listed below are few of the more recent accidents attributed to flutter:

11/2001, American Airlines. Airbus 300, pilot error, overuse of rudder leading to loss of vertical stabilizer.

04/2002, Elgin Air Force Base, F15, Gulf of Mexico, leading edge failed during test dive.

5/2002, China Airlines, Boeing 747, Taiwan Strait. Tail section broke off. Aircraft disintegrated.

2/2003, Space Shuttle Columbia, Texas, damaged heat tiles during launch, breakup during reentry.

5/2008, General aviation crash, Spain, Pilatus PC6, 2 wing failure.

NO MEETING IN DECEMBER. CHAPTER XMAS PARTY WILL BE HELD ON DECEMBER 12TH, \$25 PER PERSON, 6 - 10PM, ARBOR HALL, 14040 ARBOR STREET

Minutes of the November 10 Meeting

Meeting opened at 7PM by President Tom

Mann. There were 6 guests present.

Treasurer: \$9992.+ available funds.

Membership: No Report.

Young Eagles: November 15th rally flew 76 kids. Excellent pilot and support staff turnout.

Tech Counselor/Fly Out: Eight planes and nine members flew 210 miles to Stearman Field in Wichita, KS for lunch. Good flight, good food.

Social Coordinator: XMAS Party at the Arbor Lodge on December 12, 2014.

Tools: All tools accounted for. Brake and shear are in Jerry Ronk's hanger.

Builders Reports:

- Chris Halfman. RV-7A, Solo with 52 hours on aircraft.
- Doug Humble, CX4 with 1835 Volkswagen, working on tail section, moving forward.
- Tom Mann, Velocity still being worked.

Old Business: A gift check was given to Jack, previous owner of the FBO, for his many years of supporting Chapter 80. Jack retired effective December 1, 2014.

New Business: A motion was made, seconded, and passed to get a post office box so the club can have a real address. Ed the treasurer will follow up.

Elections: New officers starting January 2015 :

- President: Jerry Ronk
- Vice President: Chris Halfman
- Treasurer: Ed Haffke
- Secretary: Don Myers
- Membership: Tim Hewitt
- Young Eagles: Dale McClure/Lester Tinnin

Webmaster: Dale Botkin

Kevin Faris volunteered to bring in the refreshments for the chapter meetings during the upcoming year.

The chapter would like to thank all of the outgoing officers for the jobs they have done and at the same time thank and welcome the incoming officers.

Website: www.eaa80.org

For the Secretary: Lester Tinnin



President Tom Mann presenting Jack with letter and gift from Chapter 80 members thanking him for his support of the chapter for many years

SportAir Workshops

Dec 13/14 Vans RV Assembly Riverside, CA, \$349/\$389

Jan 10/11, TIG Welding, Griffin, GA, \$349/\$389

Jan 24/25, Composite Construction,

Oshkosh, WI, \$349/\$389

Jan 24/25, Fabric Covering, Oshkosh, WI, \$349/\$389

Jan 24/25, Sheet Metal Basics, Oshkosh, WI, \$349/\$389

Jan 24/25, Electrical Systems & Avionics, Oshkosh, WI, \$349/\$389

Department of Aeronautics

York Airport (JYR), EAA Chapter 1055 Fly -In breakfast (free will donation) on the 1st Saturday of every month, 8:00 AM to 10:00 AM.

Crete Airport (CEK), EAA Chapter 569, Fly -In breakfast, on the 3rd Saturday of every month, 8:00am to 10:00 am.



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