

## Calendar of Events

Program Director: Krista Nelson

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### **October 8-9: Iowa Aviation Conference**

Gateway Center Hotel - Ames, Iowa

For more information call: 515-256-5180 or visit

website at: <http://www.iowaairports.org/conference>

### **October 18-20: EAA/Van's Aircraft Builders Workshop**

Oshkosh, Wisconsin

For more information call: 800-967-5746

### **October 18: Chapter 227 Ladies Night Out**

Holiday Inn - Cedar Falls, Iowa

Social Hour - 6:00 pm    Dinner - 7:00 pm

(See page 7 for more details)

### **October 19-20: Iowa Aviation Heritage Museum**

Ankeny Airport - Ankeny, Iowa

Saturday: USO Dance - 7:30 to 11:00 pm

Sunday: Flight Breakfast 7:30 to 11:00 am

All proceeds go towards the Museum

For more information: 515-964-2629

### **October 30: FAA Safety Seminar**

Hawse Auditorium in Tama Hall

Hawkeye Community College

Waterloo, Iowa - 7:00 pm

For more information contact:

Eric Basile, Aviation Safety Counselor at 319-234-1783

Visit website at: [http://www.faa.gov/cen/s1030\\_d1.pdf](http://www.faa.gov/cen/s1030_d1.pdf)

### **November 2: Chapter 227 Monthly Breakfast**

Time and location pending

Watch website for update or call number below

You can also check our website (<http://www.eaa227.org>) for an expanded calendar of events including additional details and contact information. If you don't have web access please feel free to call Randy or Penny Dunham at 319-235-7438 for more information. →

## Picture Perfect Picnic



*Fly-Ins to Chapter picnic September 15th*

Chapter members and guests enjoyed a picture perfect day at our Chapter picnic held on Sunday, September 15th. Beautiful weather and great flying conditions brought over 70 people to Carol Severance's place just west of Dike. The potluck picnic included a very tasty variety of dishes and desserts. Following the meal some of the fly-in pilots gave flights to those who drove in while the rest enjoyed watching them flying and visiting with each other.

*(See pages 4 and 5 for more photos)*



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## President's Notes

Randy Dunham (EAA Chapter 227 President)  
[eaachapter227@yahoo.com](mailto:eaachapter227@yahoo.com)

It seems like we had a pretty good summer for flying this year. I can only remember a couple of flight breakfast weekends that were weathered out. One of the few marginal days that kept even Gary Witcombe and me at home didn't stop Jim Salyer and the Cub from going to Cresco. I think we had our best turnout of Chapter members at Monona on August 18th. Don Walker, Gary Witcombe, Dave Hagen, Warren Brecheisen, Mike Lewis, Jim Salyer, Carl Campbell and I all made an appearance that day. The best food and possibly the most interesting breakfast took place at New Hampton on September 8<sup>th</sup>.



Harold Zimmermann, Randy Dunham and Gary Witcombe  
at flight breakfast in New Hampton

Most of the regular suspects were there from our chapter, in addition to several aviators from Waverly. Gary, his co-pilot Harold Zimmermann, a John Deere employee from Germany and I got there early and we were the first in line. After a great breakfast we found our way to the pit area of a Tractor and Pick-up Pull that was scheduled for that afternoon. We were soon joined by the rest of the aviators and spent the next couple of hours talking to the owners and drivers of all those remarkable machines as they prepared for the contest later that day. We had also planned to fly to Dubuque, but never made it. A very interesting day. ➔

**Our Program Director, Krista Nelson, would welcome any suggestions you may have regarding program ideas for upcoming meetings and events. You can contact Krista at:**

Phone: 319-266-1929      Email: [knelson22@hotmail.com](mailto:knelson22@hotmail.com)

## Secretary's Report

Keene Petersen (EAA Chapter 227 Secretary)  
[keeneflyer@yahoo.com](mailto:keeneflyer@yahoo.com)

Over 50 members attended our September breakfast held at Mallard Point Retirement Residence. We were invited by the managers to have our October breakfast there, which was agreed upon by all members present. The Chapter picnic held at Carol Severance's place was attended by over 70 members.

An FAA Safety Seminar is coming up on October 30<sup>th</sup> at Hawkeye Community College. Topics covered will include: Fuel Awareness, Pilot's and Aircraft Owners Liability Insurance Issues, NOTAMS L and D – What's the Difference and Runway Safety Update. This Safety Seminar meets one of the requirements of the "Wings" Program. Check the Calendar of Events on the front page for more information. ➔

### Single Tank Operation at 5000 Feet or Above

The owner of a 1961 Cessna 172B wonders if any pilot or mechanic could tell him why there is a placard in his plane that reads " Switch to single tank operation immediately after reaching a cruising altitude of 5000 ft". He wonders why he cannot leave his fuel selector on both tanks?? ➔

### Editor's Notes:

I would like to thank John Peacock for emailing some picnic photos that were used along with some I took. Thanks also to John and Brenda Yost (Yost Aviation in Waverly) for sending the photo they took of Zach Buchheit. Special thanks to Mark Hissey for the items of interest he emails. The article about air density on page 7 was from a link he passed along about density altitude. For those of you with internet access, I would encourage you to follow the link in the article to read more about this – it's quite interesting!

### NEWSLETTER INFORMATION:

EAA members who would like to be added to our mailing list, contribute items to the newsletter, or let us know of corrections to previous newsletters please contact the Newsletter Editor.

Newsletter Editor: Penny Dunham  
Address: 230 Gayle St, Waterloo, IA 50701-1812  
Phone: 319-235-7438

Email: [chapter227towertalk@yahoo.com](mailto:chapter227towertalk@yahoo.com)

# Young Eagles Update



*Three sisters from Longfellow Elementary in Waterloo after Young Eagle flight with pilot Randy Dunham*

**Attention all Young Eagle pilots** - If you need Young Eagle Certificates, Young Eagle Registration Forms, Young Eagle Promotional Brochures or Cessna C-172 Cockpit Posters (courtesy of Sporty's Pilot Shops), you can now order these supplies online at:

<https://secure.eaa.org/youngeagles/supplies.html>

You can also call EAA at 920-426-4800 to request these materials.

Gleim Publications has an excellent thirty-four page book called "Learn to Fly" which covers many of the common questions people ask about learning to fly. These books provide a wonderful introduction for Young Eagles. Gleim has offered to provide copies of "Learn to Fly" free of charge to any EAA Chapter or Young Eagles Pilot.

To obtain copies of "Learn to Fly" you can email Gleim Publications at: [youngeagles@gleim.com](mailto:youngeagles@gleim.com) or call Gleim at 800-87-GLEIM (800-874-5346) extension 145.



*Former Waterloo Mayor Bernie McKinley looks on as grandson prepares for Young Eagle flight*

# Zach Buchheit Takes Solo Flight



*Zach Buchheit after first solo flight*

Junior member Zach Buchheit took his first solo flight on Tuesday, September 24<sup>th</sup>. Linda and Mike Lewis get the credit for sparking Zach's interest in aviation through the Young Eagles program. In 2001, he attended the EAA Air Academy in Oshkosh, Wisconsin. Zach recently began lessons with Mel Kubicek at the Waverly Airport. Congratulations Zach and best wishes from all of us as you continue on towards your private pilot certificate.

## Aviation Links:

**Fiddlers Green Neat Paper Models**

<http://www.fiddlersgreen.net>

**World War II Ace Stories**

<http://www.elknet.pl/acestory/aces.htm>

## BrainTeaser

**What frequencies are available to pilots for air-to-air communications?**

- a. 122.75 and 122.85
- b. 122.75 and 123.4
- c. 122.85 and 123.4
- d. 122.75 and 123.45
- e. 122.85 and 123.45

*Answer on page 7*

# EAA CHAPTER 227 PICNIC



*A large crowd lines up to eat*



*Gary Witcombe's Tripacer*



*Jim Salyer's J3 Cub*



*Going thru introductions before the meal*

## Blind Pilots in Australia?

Australia's Federal Attorney General's Department has just found that the Civil Aviation Safety Authority's rules about pilots' having to be able to see is in conflict with Australia's anti-discrimination laws. The CASA has quickly petitioned the Human Rights and Equal Opportunity Commission for an exemption from federal Sex and Disability Discrimination Acts, as those acts apply to flight crews and Air Traffic Controllers. According to a Matthew Denholm story in Australia's Daily Telegraph, "The physically and mentally disabled may no longer be barred from becoming pilots or air traffic controllers." He explains, "Eyesight and other medical tests imposed on flight crew have been found to be in breach of anti-discrimination laws."

Are we next???

## DIESEL CESSNA CROSSES THE NATION

A Cessna 182 recently flew from Daytona Beach, Florida, to Carlsbad, California, in 16 hours running on Jet-A fuel. The 230-hp SMA SR305-230 turbodiesel engine was tested at 100 percent power the whole trip and showed a 40-percent increase in range over regular avgas engines, according to Riley Aero International, the company that is pursuing a supplemental type certificate (STC) for the 182. The company also said the fixed-gear airplane flew at 153 knots at 12,000 feet, compared to 139 knots for a stock 182 and ran much quieter. FAA certification for the installation is expected early next year. Hartzell, meanwhile, is working to certify propellers for the engine. Other manufacturers, including Maule, Socata, and Cirrus, are evaluating the engine conversion. Riley estimates the cost of the upgrade at \$110,000, including prop and a full authority digital engine control (FADEC) system. The target TBO is 3,000 hours. ➔

# SUNDAY, SEPTEMBER 15th



*Bowden's Taylorcraft along side the drive-in area*



*We had fly-ins, drive-ins and bicycle-ins!*



*Chapter 227 members help Randy Dunham's father Tom celebrate his 77<sup>th</sup> birthday*



*Mike Lewis' Diamant*

## EAA Founder Wins NAA Wright Award

EAA founder Paul Poberezny will receive the National Aeronautic Association's most prestigious award, the Wright Brothers Memorial Trophy, at the annual NAA dinner on December 13.

Poberezny has logged some 30,000 hours of flight time in his career, piloting nearly 400 types of aircraft, including over 170 amateur-built planes. He has personally designed, fabricated, modified, or restored dozens of aircraft, and currently has several new models under construction in his workshop.

NAA is a non-profit, membership organization devoted to fostering opportunities to participate fully in aviation activities and to promoting public understanding of the importance of aviation and space flight to the United States. For additional information about NAA and its mission, log on to <http://www.naa-usa.org>. →

## TUSKEGEE AIRMEN ROY CHAPPELL DIES AT 81

The President of the Chicago DODO Chapter of Tuskegee Airmen and Chairman of the Friends of Meigs Field Roy Chappell died in his Chicago home on Sunday, September 22, 2002.

He had received numerous awards from several organizations, such as EAA's Humanitarian of the Year Award in 1998 on behalf of the Tuskegee Airmen DODO Chapter's work with youth in aviation in Chicago. To date more than 6,000 children have participated in the Young Eagles program brought to Meigs Field by Roy. In 2001, Roy received the prestigious Phillips 66 Civilian Aviation Leadership Award. The following year he received the Friends of Meigs Field Spirit of Flight Award, the organization's highest honor, and two national honors at the 2002 Tuskegee Airmen national convention, including the General Noel Parrish Award. →

## Mid-West's First Aviation-Themed Hotel

Looking for a weekend getaway? EAA members Jay and Mary Honeck of Iowa City recently purchased the Alexis Park Inn located adjacent to the Iowa City Airport. They are converting the entire inn to an "aviation theme" hotel, one suite at a time. Completed at this point are the Wright Brother's Suite and the Memphis Belle Suite which both include full kitchens and Jacuzzi hot tubs. Also completed is the Pan Am Clipper Honeymoon Suite with a hot tub adjacent to a king-sized soft-sided waterbed. The remaining suites will be converted to aviation themes with one new one to follow each month for the next 2 1/2 years. Each suite will eventually reflect a different, discrete era of aviation history.



*Alexis Park Inn and Suites adjacent to the Iowa City Airport*

When you check into one of the theme suites, you will receive their signature continental breakfast delivered to your suite along with the morning newspaper. Other amenities include a courtesy car available for pilot guests to use and a flight-planning room, complete with computerized weather. They also offer on-site car and van rentals, free rides to and from the airport, and can help pilots rent aircraft from the local FBO. Best of all, they offer a "VFR cancellation policy", which allows VFR pilots to cancel without penalty right up to the last minute. For those of you flying in, you can see your plane parked on the ramp from your balcony!

For more information about their hotel and suites, visit their website at <http://www.alexisparkinn.com>. If you have any questions, feel free to contact them and they'll do their best to provide whatever you need.

Jay & Mary Honeck  
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## Builder's Log

*From EAA Aviation Information Services*

What type of builder's log is necessary? Some builders use a regular aircraft airframe logbook, but this is sometimes limiting when trying to incorporate pictures of the construction as well as detailed notes of what tasks have been performed. Many builders choose to use a loose-leaf or three-ring binder, as this offers more flexibility in how to present and preserve the construction records.

More and more builders are thinking about using digital methods of keeping their construction records. This is acceptable as well, so long as you can make these records available to the FAA inspector or DAR when he/she performs the final inspection on your aircraft. This means that, if your records are on your computer, you'll have to have the computer available at the location where the final inspection is conducted.

There is a firm that has "electronic builder log" software available on their website at: <http://www.kitlog.com>. KitLog Pro is an organizational tool that will allow the builder of any type aircraft to create, maintain, display, and archive their complete building process. Simple journal entries and photo placement to each entry will create a detailed, printable journal for inspections, air shows, reference, or even aid in the resale of your aircraft. You can also contact them at:

812 South Fern Court  
Gilbert, Arizona 85296

Phone: 480-236-2786

Note that you are only required to keep track of the fabrication and assembly tasks you complete. There is no requirement to track the time spent building. This is due to the fact that the FAA recognizes that each builder will take a different amount of time to complete a particular task. Thus, only the task is counted. However, if in the future you decide to pursue an FAA mechanic license (i.e., an "A & P"), you can use the time spent building your project to help meet the minimum field experience requirement, so you might want to keep track of your time. ➔

## GLACIER GIRL SET TO FLY

The P-38 dubbed "Glacier Girl" is scheduled to take its first flight in almost 60 years on October 26 from the Middlesboro (Kentucky) airport. The aircraft had been under ice in Greenland since WWII. Roy Shoffner pulled the P-38 from 268 feet of ice at a cost of \$638,000 in 1992. Reno air racer Steve Hinton will be at the controls on the first flight. ➔

# Aviation Days Gone By

## August Aviation Firsts:

**October 8, 1928** - The first cinema film was projected in an aircraft in flight.

**October 5-9, 1930** - Laura Ingalls made the first woman's solo transcontinental flight in her De Havilland Gypsy Moth, from Roosevelt Field in New York to Glendale, California with nine stops. Flight time was 30 hours and 27 minutes.

**October 4, 1957** - Sputnik I, the first manmade satellite, was launched by the Soviet Union.

## World War II Ace "Ben" Drew

Urban "Ben" Drew was born in Detroit, Michigan on March 21, 1924. He entered the U.S. Army Air Force in **October 1942** and graduated as a 2nd Lieutenant and received his pilot's wings in 1943. He was assigned to the 375th Fighter Squadron, 361st Fighter Group, based at Bottisham, Cambridgeshire. During his tour with the "Yellow Jackets" Drew completed 75 missions, the last on November 1, 1944.



*P-51D "Detroit Miss" flown by Lt. Urban L. Drew*

Among his victories, most notable were the two Messerschmitt ME-262 jet aircraft shot down on **October 7, 1944**. This made Ben Drew the first allied airman to destroy two German jets in aerial combat. On September 18, 1944 with two wingmen, he helped destroy the largest aircraft then in existence, a Luftwaffe Blohm & Voss BV-238 six-engine flying boat at Lake Schaal in Northern Germany. In 1983, at a Pentagon ceremony, Mr. Vernon Orr, then Secretary of the U.S. Air Force presented Major Drew the Air Force Cross 39 years after he downed the two ME-262 jet fighters.

Since 1953 Mr. Drew has been heavily involved in commercial aviation. He was a principle with several air cargo and charter operations. He brokers aircraft internationally and provided the C-47 aircraft and flight crews for the movie "A Bridge Too Far."

Read more about Ben Drew's ME-262 experience at: <http://www.elknet.pl/acestory/drew/drew.htm>

# Ladies Night Out

**Just a Reminder** - Ladies Night Out will be held Friday, October 18<sup>th</sup> at the Cedar Falls Holiday Inn. The Social Hour will start at 6:00 pm. The dinner will start at 7:00 pm. A seafood buffet will be served. The cost is \$14.70 per person. Marv Hoppenworth will give a presentation following the meal. We will need to let the Holiday Inn know how many will be attending, so please call Randy and Penny Dunham at 319-235-7438 and leave a message by October 14<sup>th</sup> to make reservations. ➔

## Humidity and Air Density

How can the air become lighter if we add water vapor to it? A fixed volume of gas, say one cubic meter, at the same temperature and pressure, always has the same number of molecules no matter what gas is in the container. .

Imagine a cubic foot of perfectly dry air. It contains about 78% nitrogen molecules, which each have an atomic weight of 28. Another 21% of the air is oxygen, with each molecule having an atomic weight of 32. The final one percent is a mixture of other gases, which we won't worry about. Molecules are free to move in and out of our cubic foot of air. If we add water vapor molecules to our cubic foot of air, some of the nitrogen and oxygen molecules will leave — remember, the total number of molecules in our cubic foot of air stays the same. The water molecules that replace nitrogen or oxygen have an atomic weight of 18. This is lighter than both nitrogen and oxygen. In other words, replacing nitrogen and oxygen with water vapor decreases the weight of the air in the cubic foot; that is, its density decreases.

Wait a minute, you might say, "I know water's heavier than air." True, liquid water is heavier, or more dense, than air. But, the water that makes the air humid isn't liquid. It's water vapor, which is a gas that is lighter than nitrogen or oxygen. For more information go to: <http://www.usatoday.com/weather/wdenalt.htm>.

### **Brainteaser Answer (from page 3):**

*a. Yes! Both of these frequencies are available to pilots for air-to-air communications, but only 122.75 is approved for general use. The other frequency, 122.85, is only available under certain circumstances that are specified by the FCC. If you use any frequency other than 122.75 for air-to-air communications, you're probably violating an FCC regulation. ➔*

## CHAPTER 227 OFFICERS, DIRECTORS AND COMMITTEE MEMBERS FOR 2001

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Experimental Aircraft Association Chapter 227 publishes TowerTalk for the use, education and enjoyment of chapter members and others to whom it is provided. Chapter and national events, new of members, member project activities and general aviation items of interest to the membership are included. Editorial content is the opinion of the contributor and does not necessarily reflect the position of Chapter 227 or the EAA and no claim is made for technical accuracy of material presented. Submissions for publication in the TowerTalk are encouraged and should be sent Newsletter Editor, Penny Dunham at 230 Gayle St, Waterloo, IA 50701-1812 or sent by email to [chapter227towertalk@yahoo.com](mailto:chapter227towertalk@yahoo.com). Meetings are normally held on the third Thursday of each month; meeting places vary and are announced in this publication. Please contact any officer for information about Chapter activities. Annual membership dues are \$15 for individuals and \$20 for family. Chapter members must be members of the Experimental Aircraft Association. For more information contact Membership Chairman, Carl Campbell at 234-2294 or by email at [joinchapter227@yahoo.com](mailto:joinchapter227@yahoo.com). ➔

### **Chapter 227 TowerTalk**

Penny Dunham (Newsletter Editor)

230 Gayle St

Waterloo, IA 50701-1812



**We encourage everyone to attend our breakfasts, meetings or other events. Whether you are a Chapter 227 member, belong to another Chapter or just like aviation - come join the fun!**