

# EAA Chapter 974 Newsletter

EAA Chapter 974

June 2008

Hogan Field (KHAO)

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Linda Brainard, Chapter President

No Report.

Linda

### [Board Meeting Minutes](#)

Kent Forsythe  
Chapter Secretary

No report

### [Meeting Minutes](#)

Kent Forsythe  
Chapter Secretary

Meeting was called to order on June 1, 2008. Location of the meeting was John Wilemski's house in West Chester. President Linda Brainard presided over the meeting.

### **Attendance**

- 18 Club members (attendees found on last page)

- Guests

- o David Gallagher
- o Greg Yoscovits

## Reports

- Secretary's Report

- o None.

- Treasurer's Report

- o Balance was reported to members. The treasurer's report was accepted.

- Tech Counselors' Reports

- o Ray Parker
  - § No activity.

- Young Eagles Report

- o Flew about 10 kids last young eagles day.

- Hanger Master's Report

- o BD4 moving into the B side of the hanger for a while.
- o Not sure if the ice machine is working. Need someone to look at it.
- o Rolf worked on a new lease for the hangar space. The hangar policy is revised and available to be reviewed by the members. The board will review it first and then put it for review by the membership. We ended up at a 6 month lease, renewable if nobody is on the list.

- Web Masters Report

- o Brett would like to turn the newsletter over to someone else next year.
- o He'll keep doing the website though.

- Librarian's Report

- o None.

- Chapter Historian's Report

- o None.

- Publicity Officer's Report

- o None.

- Presidents Report

- o The 501(3)(c) is certification is finished.

- Programs

- o This month is a review of John Wilemski's Cozy.
- o Next month's meeting is the chapter picnic (on 13th)

- Project Reports

- o Brad Ankerstar.
  - § Brad invited everyone to his house after the meeting to see his project.
- o Jerry and Linda Brainard
  - § Working on retractable landing gear on Velocity
- o Wright B project
  - § All wings have been moved up to Dayton.
  - § Still trying to get everything done for the Paris Airshow.

## Announcements

- Brett's Kitplane magazine search for back issues is going well.

- Picnic is July 13th at 2:00pm at the hanger.

- o Everyone needs to bring a side dish if possible
- o We will have an auction so anyone with items they wish to donate should bring them.

- Planning a hanger cleanup day on July 12th.

## Old Business

- Articles of Incorporation are now online and filed.

- Need a new chairman for the Middletown airshow since John Wilemski will not be able to do it.

- Shirts are in progress and planned to be in before Oshkosh.

## New Business

- None

## Program

This month's program is a detailed overview of working with Composites (hot wiring foam, slurry and glass foam, material overview, etc.).

## Attendance

1) Ankerstar, Brad	11) McNamee, Tim	21)
2) Brainard, Jerry	12) Parker, Ray	22)
3) Brainard, Linda	13) Payne, Brad	23)
4) Burke, Sharon	14) Payne, Paul	24)
5) Burkhardt, Bob	15) Rose, Roger	25)
6) Ferrell, Brett	16) Schwinn, Ed	26)
7) Ferrell, Elizabeth	17) Wilemski, John	27)
8) Forsythe, Kent	18) Wyss, Mark	28)
9) Hetico, Rolf	19)	29)
10) McNamee, Deb	20)	30)
..	..	..
31)	32)	33)
34)	35)	36)
37)	38)	39)
40)		

## June Meeting

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This month's meeting was a composite demonstration by John Wilemski at his house where he's working on his [Cozy MK-IV project](#).

John demonstrated a wide range of composite operations and tools. First he described the different foam types and their uses:

1. [Polystyrene Foam](#) - For structural parts like airfoils
2. [Divinycell Foam](#) - for fuel baffles and tank walls
3. [Polyether Polyurethane \(last-a-foam\) Foam](#) - for non-structural complex shapes, as it's very easy to sand

Next John demonstrated mixing epoxy ([West Systems](#) in this case) with [microballoons](#) to create micro, and then applying this with a [squeegee](#) to foam board to fill the voids. Then he showed us how to apply and wet out two layers of [bidirectional fiberglass cloth](#) and [peel ply](#) on top of this to create a finished part. As he shared, West is workable for about 15 minutes and cures firm in a day, and completely in about 3.

Next he showed us his hot-wire setup for creating foam cores from templates, such as a canard wing. First a block of blue foam is cut slightly large, and a level line is scribed on both sides. Next the template's level line is attached on either end with nails to the foam. The template is numbered so that folks on either end can synchronize the wire to the same speed, each person should reach the #3 at the same time, for instance. This corrects for wire lag and keeps it reasonably square to the part. The hot wire is made of two pieces of steel bar in a 2"x4" board with Safety Wire strung between them, with a way to turn one bar to tighten the wire. The a power supply (a 2A battery charger in this case) is connected to each bar. The hot wire is then tested on a piece of scrap foam, and if it cuts and leaves fine "angel hairs" of foam, it's at the

right temperature.

John and several assistants then hot-wired a small canard core. John then had several other canard core's completed beforehand to show the various steps in the process:

1. cut off the nose
2. lay up the spar caps
3. glue the nose back on
4. micro one side of the core
5. lay up same side of the core, peel ply end
6. remove peel ply and sand back a bit so you get glass-to-glass contact, layup other side (core has recess so no ridge is created)

After the demos were over, several of us helped John flip the fuselage over and attached the wings, canard, canopy, and instrument cover.



**Good, though late arriving, turnout**



**Retractable Nose Gear**



**Ken dutiously taking notes**



**Beth naps with a cookie**



**John's beautiful Cozy sporting the 'dead-bug' look**



**Our chapter Shirt order is coming together**



**A good crowd showed in Middletown/West Chester/wherever**



**John demos applying micro to divinycell foam**



**John's passing around spar cap weave**



**John Hot Wires.... his foam**



**John describes Unidirectional Cloth, Kent goes into power-save mode**



**John secures canard template to foam**



**John secures canard template to foam, 2**



**finishing canard template, preworked core with spar in foreground with Uni and BID samples and last-a-foam**



**Template on foam with numbers shown**



**Close-up ready for hot-wire**



Cut core in foreground, layed up core next to John's hand



Layed up core, after carving off support tab, sanding for trailing edge lay-up



John demo's pulling peel ply and prepping aft canard join



John's crib with lots of cars

## [WhiteKnightTwo rollout to be celebrated at AirVenture](#)

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The blogosphere is abuzz with reports of Virgin Galactic's recently sent invitations to selected individuals for a progress report and a rollout of WhiteKnightTwo on July 28 at Mojave, California, Spaceport. These reports foreshadow a parallel media event and follow-up engagements with EAA members and visitors at EAA AirVenture Oshkosh 2008, "The World's Greatest Aviation Celebration," July 28-August 3.

"I can absolutely confirm that the Virgin Galactic event, which takes place during the opening day of AirVenture, will have ties back to Oshkosh, both real-time and throughout the week," said EAA President and AirVenture Chairman Tom Poberezny. "We've been in regular communications with our friends at Virgin Galactic and its partner organization, Scaled Composites, to coordinate." [Read the Story](#)

## Hatz at Airventure

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Organizers hope 40 Hatzes will attend this year's EAA AirVenture Oshkosh for the biplane's 40th anniversary of its first flight. But even if they don't reach that number, they're optimistic about setting a record for the most Hatzes to congregate in one place.

"We really don't have a number of how many Hatzes will fly to Oshkosh; that will depend on the weather," said Chuck Brownlow, of Waupaca, Wisconsin, and past president of the Hatz Biplane Association. "We're hoping to get the largest gathering ever - at least 15 or 16." [Read more.](#)

## Web Tip of the Month

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In this sixth installment of the Web Tip of the Month (WTOM). This month, we'll be talking about the Airventure section of the website.

If you've missed the previous WTOM installments, here are the topics you've missed:

- [December](#) - How to register and login to the members-only section
- [January](#) - How to check the chapter calendar, and add events to it
- [February](#) - Chapter builder Projects pages, and how to get yours
- [March](#) - Looking up member data (phone, email)
- [April](#) - How to add events to the chapter calendar
- [May](#) - How to use the weatherbug

The Airventure page has a lot of great information for helping you plan your visit to Oshkosh, and remember past conventions. The top of the page has the dates, and a link to pictures from Oshkosh's past, as well as link to a map of Camp Scholler with the chapter's typical campsite location highlighted.



## OSHKOSH 2008 (AIRVENTURE) JULY 28 - AUGUST 3



[Click here](#) to see pictures from past Oshkosh Airventures!

**PLAN** to join us for Oshkosh 2008 at Camp Cincy, an ongoing tradition of setting up camp with the folks from EAA174 and other local chapters. We camp with the 174 and 974 chapter banners displayed on either end of the campsite, and a windsock flying high above. Click [here](#) for a map of Camp Schholler indicating Camp Cincy, or for a [PDF file](#) for you to print..

The lower portion of the Airventure page has a bunch of link and documents for planning your stay. They include:

1. Link to the main [Airventure](#) website
2. Link to the [Airventure Cup](#) race website, and link to Airnav data for starting line airport ([UNU](#))
3. Link to [admission rates](#) information on Airventure website
4. Link to Airventure "[Where to Stay](#)" page
5. Link to map of [974 Campsite](#) (preferred location, if available)
6. Link to a handy [Packing List](#) (from Elizabeth - we forgot our pillows one year, so....)
7. Link to "[Flying to Airementure](#)" page
8. Link to "[First Time Visitors](#)" page
9. Link to [Forums Schedule](#)
10. Link to [NOTAM](#)

[Click here for you to plan...](#)  
**PLAN YOUR TRIP TO AIRVENTURE EARLY, AND JOIN US AT THE  
CHAPTER CAMPSITE!**

**LINKS**

[Airventure main site](#)  
[Airventure Cup \(26/27 UNU\)](#)  
[Admission rates](#)  
Camping at [Camp Scholler](#)  
[EAA 974 Campsite](#)  
Elizabeth's [packing list](#)  
[Flying information](#)  
[First time](#) visitors guide  
[Forums](#) schedule  
[NOTAM](#) has been issued!



**THANKS TO EVERYONE FROM THE CHAPTER THAT CAMPED WITH  
US AT AIRVENTURE 2007, WE HAD A GREAT TIME!**

**[FAA TO CHART CONTACT FREQUENCIES FOR MOAS, RESTRICTED  
AREAS](#)**

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Instead of feeling compelled to fly around charted military operations areas (MOAs) and restricted areas, soon you'll be able to gather real-time status information in the air to determine if you can safely fly through the airspace. The Air Force and Air National Guard have worked with the FAA to provide contact frequencies for an FAA center controller, military air traffic controller, or range control officer for each MOA and restricted area so that pilots can make a radio call to see if the airspace is active, and if it is, at what altitudes. The frequencies will appear with new charting cycles and be completed by the August cycle. Read more on [AOPA Online](#).

**[FSS TIP OF THE WEEK: KICK THE 'K'](#)**

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In an international context, airports in the 48 contiguous United States are prefixed with the ICAO country code "K." Because Lockheed Martin's flight service computer system is set up to automatically assume flights are domestic, pilots should not precede their airport identifier with a K unless they plan to fly internationally. Stating the K up front for a domestic flight could create extra steps for the briefer, thus slowing the process. Remember to phonetically spell airport identifiers to avoid miscommunication. For more FSS tips, download [AOPA's quick reference card](#) and take the AOPA Air Safety Foundation's A Pilot's Guide to Flight Service [online minicourse](#). Complaints or compliments on your briefing? Report them to 888/358-7782.

## BURT RUTAN STEPS DOWN AS PRESIDENT OF SCALED COMPOSITES

Burt Rutan has stepped down as president of Scaled Composites, LLC, the company announced Wednesday. Rutan, SpaceShipOne inventor, EAA Lifetime Member, and a pioneer of the homebuilt aircraft movement, gave up his day-to-day responsibilities at Scaled, the company he founded in 1982. Rutan will remain at the company as chief technology officer and chairman emeritus, while Doug Shane, the company's vice president, takes over as Scaled's president. [Read more.](#)



## [Newsletter Editor Position Open](#)

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Here's your chance folks! After heading up the Newsletter for 4 years, I've come to the decision that doing the website and the Newsletter is just too much for one guy. So... the search for a replacement begins. Now, to reassure you, I'll stay at the fore-front of the effort until December, and help the new person or persons transition into the role, so there's plenty of time to get your feet wet... just let me or one of the officers know if you're interested.

## LYCOMING ANNOUNCES AUTO GAS APPROVAL PROGRAM

Recognizing global concerns about the immediate and long-term availability of aviation grade 100LL fuel, Lycoming Engines announced an unleaded automotive gasoline approval program for its standard compression ratio O-360 and IO-360 product lines. Unleaded 93 AKI automotive gasoline conforming to either Euro Norm EN228 or ASTM D4814 will be the basis of this Lycoming specified fuel. Supplemental requirements within the scope of the existing standards will be stated as necessary for safe operation in aviation applications. Approval is expected by fall 2008. This program will be an engine approval only. Aircraft certification approval must be obtained separately to permit operation with this fuel. Learn more at [www.lycoming.com](http://www.lycoming.com).

## [Airventure NOTAM Available](#)

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Get your free EAA AirVenture Oshkosh 2008 Notice to Airmen (NOTAM) booklet today by ordering from EAA Membership Services at 800-564-6322, or download [here](#). The NOTAM contains the Special Flight Procedures in effect for Wittman Regional Airport and alternate airports from 6 a.m. CDT on Friday, July 25, to 11:59 p.m. CDT Sunday, August 3, 2008. EAA AirVenture Oshkosh runs from July 28-August 3. For additional EAA AirVenture Oshkosh 2008 information, including advance ticket purchasing, visit [www.airventure.org](http://www.airventure.org).



## Safety Corner

### CESSNAS COLLIDE ON FINAL, SEE AND AVOID THE SAME FATE

On Oct. 10, 2004, a Cessna 152 and a Cessna 172 collided on approach to Cincinnati West Airport in Harrison, Ohio. The two aircraft became locked together in flight at 300 feet agl and spiraled into a gravel pit. Find out what led to the accident and if the pilots and passenger survived in this [special report](#) prepared by the AOPA Air Safety Foundation.

## Upcoming Flying Destinations

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### UPCOMING FLYING DESTINATIONS:

**Columbia, S.C.** Thunder at Fort Jackson takes place May 17 at Fort Jackson. For more information, contact Anna Amick, 803/772-2945, or visit the [Website](#).

**Rome, Ga.** An American Heroes Aviation and Public Safety Expo takes place May 17 and 18 at Richard B. Russell (RMG). For more information, contact Mike Grier, 404/451-2212, or visit the [Website](#).

**Janesville, Wis.** AirFest '08 takes place May 24 and 25 at Southern Wisconsin Regional (JVL). For more information, contact Julia Dacy, 608/754-5405, or visit the [Web site](#).

**Columbia, Mo.** A Salute to Veterans Airshow takes place May 24 and 25 at Columbia Regional (COU). For more information, contact Mary Posner, 573/449-6520, or visit the [Web site](#). **Ranger, Texas.** An annual Memorial Day weekend airshow and fly-in takes place May 24 at Ranger Municipal (F23). For more information, contact Jared Calvert, 254/433-1267..



### ★ UPCOMING FLYING DESTINATIONS IN THE EASTERN REGION:

**Batavia, OH.** A Sporty's Hot Dog Fly-In takes place every Saturday at Clermont County (I69). Free hot dogs every Saturday from noon until 2 p.m. Contact Jason Pruitt, 513/735-9500.

**Gettysburg, Pa.** An apple blossom fly-in breakfast and lunch takes place May 17 and 18 at Gettysburg Regional (W05). For more information, contact Bob Howe or Henry Hartman, 717/451-3473 or 717/465-5952 or visit the [Web site](#).

**Lancaster, Pa.** A fly-in takes place May 25 at Lancaster (LNS). For more information, contact Jack Henderson, 717/872-5297.

**Mount Pocono, Pa.** A fly-in breakfast and open house takes place May 25 at Pocono Mountains

Municipal (MPO). For more information, contact Vern Moyer, 610/349-3241 or 570/839-0258.



★ **UPCOMING FLYING DESTINATIONS IN THE GREAT LAKES REGION:**

**Kewanee, Ill.** The sixth annual Midwest Aeronca Festival takes place May 16 through 18 at Kewanee Municipal (EZI). For more information, contact Jody Wittmeyer, 309/854-2393, or visit the [website](#).

**Jacksonville, Ill.** An Illinois Pilots Association fly-in and annual meeting takes place May 17 at Jacksonville Municipal (IJX). For more information, contact Brian Borecky, 217/787-4815, or visit the [Website](#).

**Frankfort, Ind.** An FKR Flyers pancake breakfast takes place May 17 at Frankfort Municipal (FKR). For more information, contact Becky, 765/654-6275.

**Lapeer, Mich.** An open house and airplane blessing takes place May 17 at Dupont-Lapeer (D95). For more information, contact Teresa Leming, 810/664-6966, or visit the [Website](#).

**Beloit, Wis.** A pancake breakfast, auto show, and fly-in takes place May 17 at Beloit (44C). For more information, contact Ken Brooks, 815/985-0717.

**Mount Morris, Ill.** A fly-in breakfast takes place May 18 at Ogle County (C55). For more information, contact Glen Orr, 815/732-7268.

**Benton Harbor, Mich.** A fly-in pancake breakfast takes place May 18 at Southwest Michigan Regional (BEH). For more information, contact Lee Scherwitz, 269/927-3194, ext. 11.

**Owosso, Mich.** A spring fly-in takes place May 18 at Owosso Community (RNP). For more information, contact Julie MacKay, 989/743-4519.

**Cahokia/St. Louis, Ill.** A Midwest regional fly-in takes place May 24 at St. Louis Downtown (CPS). For more information, contact Bob McDaniel, 618/337-6060, or visit the [Website](#).

To [submit an event](#) to the calendar or to [search all events](#) visit AOPA Online. For airport details, including FBO fuel prices, see [AOPA's Airport Directory Online](#).