



EAA 252 OSHKOSH Steve Wittman Chapter



Issue
December 2009
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Oshkosh – Sport Aviation Capitol of the World Oshkosh – Sport Aviation Capitol of the World Oshkosh – Sport Aviation Capitol of the World Oshkosh – Sport

Next Chapter 252 Meeting

December 10th

**Doors Open at
6:30 PM
Meeting starts at
7:00 PM**

**Fox Valley Tech
Spanbauer Aviation
& Industrial Center
3601 Oregon Street
Oshkosh
Airport Campus**

The school campus is located south on Oregon St., near Basler Turbo Conversions.

Snacks are always appreciated!

2010 Dues Will Be Due Jan. 1

**Send \$20.00 to:
Janet Davidson**

**3218 Bellfield Rd
Oshkosh, WI 54904**

Dues are payable as of Jan. 1st & must be received before March 31st (to avoid being dropped from the Chapter membership).

December Chapter 252 Meeting

Chapter member Dennis Moehn will be our host for the December meeting at the airport campus of Fox Valley Tech. To those who are not already familiar with it, the school offers aviation programs for A&P Mechanic, Avionics Technician, and Pilot training. The airport campus is also used for some non-aviation classes as well.

Dennis is an A&P instructor at the school and will provide a tour of the facilities used for the A&P and Avionics programs. He is also planning to have one of the schools instructors available to provide a tour and information about the pilot training that they offer.

Celebration of Flight Banquet Planning For 2010

Reserve the evening of Feb. 6th on your calendars for the Chapter's annual "Celebration of Flight" Banquet at the Founders Wing in the EAA Museum. It will be a catered meal provided by Sodexo/Ripon College. The cost is \$20.00 for members (spouses not included) and \$25.00 for non-members.

The evening will feature guest speaker Pat Halloran, a noted U-2 and SR-71 pilot. As in the past there will be door prizes, the silent auction, and of course the presentation of the ELO Award.

Some help is needed. Contact the event Chairperson if you are able to help out.

Janet Davidson
3218 Bellfield Rd
Oshkosh, WI 54904
(920) 232-9238
gbvfx@hotmail.com

At this time Janet needs someone to help with soliciting for the items for our silent auction.

Chapter 252 Strategic Planning Meeting, and Your Help Is Needed

Back in the October issue of the Pylon I wrote about how the Chapter was at a transition point, moving to the next level of being an active Chapter organization. We have taken on new and significant responsibilities, buying more equipment, are realizing an increased income level, and are becoming an active part of the local aviation community.

At recent board meetings we have been questioning what is our responsibility to our members and our local community – aviation and non-aviation? Should we sponsor Aviation Education Scholarships? Should we donate to local Oshkosh charities? Should we focus only on what the Chapter needs?

The Board has recognized the need for an in-depth strategic planning session, and they are inviting any interested Chapter members to participate in the discussion. The outcome of the meeting should be a plan for our project objectives for the next few years, and an understanding of what part the Chapter should play in supporting our aviation community. Specifics for the meeting are:

When: January 9th, 2010,
starting at 8:30 A.M.

Where: Batten Board Room
at EAA Headquarters

Enter through the museum's front entrance, and follow the signs directing you to the Board Room.

Charlie said he will have the coffee brewing, and the Chapter will provide lunch. The Chapter Board will be meeting in advance to prepare a meeting outline/agenda to help keep things moving along, but we will have a lot of material to cover. We expect the discussion could last 4 to 6 hours. If you cannot be there for the entire time, it's OK (as long as it's not only for lunch!), your input is valuable and your Board of Directors would appreciate your participation.



Welcome New Member

Chapter 252 has another new member, **Jim Janes** (EAA 752061).

Jim's present level of interest in flying is relatively new, having decided to start taking flying lessons at 64 years of age. In October Jim received his Private Pilot's license, and so far he's accumulated about 120 hours. Presently he's taking IFR training out of Tailwinds. He does remember as a kid flying model airplanes with his dad. He says his dad did the building and he did the crashing. He also remembers attending some of the early EAA fly-ins with his dad. He began attending Young Eagle events in 2005, and then joined EAA a couple of years later.

Jim does not have any immediate desires to build a plane. Actually, he sees himself more as a businessman with his expertise in finance and management, and admits he may be mechanically challenged if he were to try his hand at working on a plane.

Jim is an active entrepreneur. Jim and his wife own two local companies, Derby Molded Products and Oshkosh Marine Supply. He was previously Chairman of the Oshkosh Chamber of Commerce, is politically active, and appreciates fine imported German sports cars.

Originally a native of Milwaukee, Jim and his wife moved to the Oshkosh area in the late 70's. They have 3 children and 10 grandchildren.

Holiday Dinner & Gathering

December 12th – Munsil William's Annual Christmas Dinner - All are welcome!

It's a potluck dinner, starting at 10:00 AM. The location is Elo International Airport, just off Hwy 44 between Fisk and Pickett. Bring your own plates and utensils.

S. J. Wittman Display Planning For Airport Terminal

As discussed at the last meeting we are starting on a new Chapter project that would benefit the Chapter, Wittman Airport, and help to promote some local history.

Members of Chapter 252 are working with Wittman Airport Manager (and Chapter member) Peter Moll to form a team whose purpose is to provide a decorative and educational display of S. J. Wittman memorabilia within the airport terminal building. At this time, the most likely location for the exhibit would be in the east end of the building where there is an unused room that presently contains the old baggage carousel.

Not only would something like this promote the local history of Wittman year round but also the display would fit in well for our annual spring fly-in breakfast. So – with that in mind it's likely we will get something in place in time for this spring's fly-in.

So far, we have about 5 or 6 members participating. If you have any ideas, or Wittman history or artifacts that you would be willing to share/loan, please contact President Wayne Daniels, or this newsletter editor.



2009 Chapter Calendar and Wittman Airport Events

December 10th

Chapter 252 Meeting,
Fox Valley Technical College
Airport Campus Courtesy of
Dennis Moehn

2010 Chapter Calendar and Wittman Airport Events

January 9th

Chapter Strategic Planning Meeting
Batten Board Room, EAA
8:30 A.M.

January 14th

Chapter 252 Meeting at Sonex
Narrative of Steve Wittman,
by Jim Casper

February 6th

Celebration of Flight Banquet
Location EAA Museum

March 11th

Chapter 252 Meeting at Sonex
Greg Rasske, Hot Air Ballooning

April 10th

Wittman Birthday Fly-in Breakfast
Wittman Airport Terminal

For Wisconsin aviation events check out the calendars at:

<http://www.eaa.org/calendar/>
and

<http://www.dot.wisconsin.gov/travel/air/fly-ins.htm>

For sale

Chapter member Frank Friedman is still trying to sell a few things. Frank is making the move to Oregon to be closer to his daughters. We hate to see him go – but can see it's for a good reason.

1. Craftsman 18" jig saw \$60.
2. Craftsman 10" table saw \$120
3. 3 bedroom ranch, 1600 sq feet, 1 1/2 bath, den, oversize garage, full basement (1000 sq feet) with outside entrance, ideal for homebuilding. \$154,900

Call: Frank Friedman 920-237-3536



Volunteer Support Needed For AEROMART

Planning is already in process for Aeromart 2010.

Interested in helping out? Want to be a part of one of the most popular attractions at AirVenture? Contact Aeromart Chairman Warren Baier at: skylight97@greenbaynet.com or (920) 583-2091.

President's Message



By Wayne Daniels

I hope that everyone enjoyed the presentation from John Douglas on his trip across the Atlantic to Cameroon in a Glastar as much as I did! What a thrill that must have been with all the planning, preparation and the actual flight. It is amazing to be able to exercise the privileges that we enjoy as U.S. licensed pilots. Thanks John, for allowing us to "ride along" on this trip!

This month I would like to pay special tribute to our newsletter editor, Randy Novak. With every issue of the "Pylon" the members of Chapter 252 enjoy a first rate newsletter. While past editors have done an excellent job of keeping our members informed, I think Randy has taken it to the next level. Every month we can look forward to an attractive publication with many articles and photo's of interest to all. Recently he has also had some assistance with articles from Doug Milius as well as Janet Davidson that we all enjoyed. Any chapter member with a flair for the pen is invited to also submit an article to Randy for the Pylon. I'm sure he would appreciate it, as will all of EAA 252!

Chapter 252's next big event will be the **Annual Community Celebration of Flight** banquet to be held in February 2010 in the new EAA Museum Founders Wing. We will soon be assembling the committee to plan this great celebration. If you would like to participate on this committee (many hands make light work!) please contact any of the chapter board members. Help make the 2010 banquet the best ever! Janet has agreed to assume the overall chair for the banquet and is accepting volunteers. Currently the highest priority is the solicitation of auction items. Please give Janet a call or email if you can help out here. An auction chair is also needed to coordinate this effort along with 3 or 4 members to write requests for auction donations!

Finally, I hope that everyone enjoys a safe and happy holiday season. Don't

Chapter 252 Survey

In the near future expect to see a survey in your mailbox. Your Chapter officers are working on a brief questionnaire that will be asking for information about you and what you expect from being a member of Chapter 252.

Chapter Building Plans On Hold

Throughout this past year a Chapter Committee had been operating to investigate the options available to the Chapter for construction of a hangar and clubhouse type building.

At the November 24th Chapter Board of Directors meeting Committee Chairman Steve Lark presented a final report of the groups recommendation. Based on primary requirements for the building that were established early in the project, various sites on the airport were identified, and options for building construction styles and costs were studied.

In summary, it was recognized that construction of a building is a long term commitment, financial and otherwise. Also, it was recognized that our involvement in Aeromart may have changed some of the Chapter's primary requirements. The committee recommended:

- 1) the report be incorporated into the upcoming strategic planning session,
- 2) the Chapter prioritize Aeromart needs with the hangar/clubhouse needs,
- 3) the Chapter continue using the various facilities it now has available,
- 4) the Chapter consider expanding it's utilization of the Wittman Terminal Building.

This topic and others will be discussed on the January 9th planning session.

forget preheats for winter flying and watch for icy runways/taxiways! May Santa bring something for your airplane or flight bag to make flying more fun in 2010! Don't forget about Christmas in the Air at the EAA museum on Dec 8th and chapter meeting at Fox Valley Tech College on Oregon St on Dec 10th. 2010 dues are now being accepted by Janet Davidson, so please see her ASAP!



Chapter Shop Notes:

It's been a while since I've had the opportunity to write on any technical topics, my favorite subjects.

- Hey, My Name Is In The Airframe Logbook! -

In this case, the aircraft owner had been doing some maintenance on his certified airplane that exceeded his limitations as an owner or pilot, but he was properly supervised by his A&P Mechanic. What surprised him was not to find that the log book entry described the work that had been done, but it stated that the work had been accomplished by the owner and mentioned him by name! The owner wondered if this wasn't a ploy on the mechanics part to avoid responsibility.

Actually, the mechanic was doing the right thing, and it is required by regulation. FAR 43.9 states "*each person who maintains, performs preventive maintenance, rebuilds, or alters an aircraft, airframe, aircraft engine, propeller, appliance, or component part shall make an entry in the maintenance record of that equipment containing the following information:*" ... "*the signature, certificate number, and kind of certificate held by the person approving the work*"... "*The name of the person performing the work if other than the person specified in paragraph... (approv-*

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Wittman Birthday Fly-In Set for 2010

As mentioned in the previous newsletter the date has been set as April 10th. John Egan is the event Chairman. If you have any ideas and want to get involved early in the project, please contact John at johnegan99@yahoo.com, or 920-419-5631.



S.J. Wittman

ing the work)".

It's not a ploy to avoid responsibility, but to represent the work accurately and honestly. And, don't worry, the licensed mechanic returning the aircraft to service by virtue of his signature, is assuming the responsibility.

- More About Aircraft Welding -

A few questions about welding were recently asked: what type of filler rod can I use for welding a crack in my old T-craft (it could be any model), what's the correct technique and equipment, and if I need to replace some steel – what should I use? Good questions, and a good follow up to the February newsletter that touched on the subject of field failures due to poor welding technique.

First off – the smart thing is to research the question before lighting the torch or striking the arc. The wrong thing would have been to only rely on your buddy who took a welding class once, or the local welding shop that might have trouble welding anything less than 1/8" thick.

Choice of repair material –

Many of the popular antique/vintage welded light planes used 1020 or 1025 mild steel in their general structures, but not always, and 4130 steel was sometimes used in strategic areas or in the entire overall structure. So, unless you have a copy of a factory print or other legitimate document that specifies what material was used, you want to be conservative. Typically 4130 N steel is used for repair work on most welded steel structures. Your A&P mechanic who is supervising your work will likely refer to a recent FAA document, AC 23-27 Parts and Material Substitution For Vintage Aircraft. As always, AC43.13-1B Acceptable Methods Techniques and Practices is used as a general reference.

If it's a homebuilt, most likely it's 4130 steel, but refer to the original drawings if

they are available.

Choice of welding filler rod –

Many of the best books on aircraft welding were written years ago, and industry designations for filler rods have changed, and some are not available any more. Attached here is a general-purpose chart as a guide.

Tip Size for O/A Welding –

There are a variety of welding torches presently in use today for oxy-acetylene gas welding. It would have been nice if they would have commonized on their tip size designations, but they didn't. So, attached here is a nice chart provided as a general

guide for selecting tip sizes based on the material thickness. The required size may vary somewhat depending on what type of joint is being welded, the amount of heat sink in the area, etc.

Type of Repair -

Avoid the temptation to just fill in a crack without additional reinforcement. Why did it crack in the first place? Understanding the failure mode is key. Refer to the manuals: aircraft maintenance, AC43.13-1B, AC65-15A, etc.

If space permits I would like to continue with more welding information in future issues. Till next time...

Welding Tip Size Conversion Chart

Wire Drill	Decimal Inch	Metric Eqiv. (mm)	Smiths AW1A	Henrob/Dillon	Harris 15	Victor J Series	Meco N Midget	Aluminum Thickness (in)	Steel Thickness (in)
97	0.0059	0.150						Foil	Foil
85	0.0110	0.279							
80	0.0135	0.343		#00			#00		
76	0.0200	0.508	AW200				#0		
75	0.0220	0.559		#0	#0	#000			.015
74	0.0225	0.572	AW20					.025	
73	0.0240	0.610					0.5		
72	0.0250	0.635		0.5					
71	0.0260	0.660	AW201		1				.032
70	0.0280	0.711				#00	1		
69	0.0292	0.742	AW202						
67	0.0320	0.813	AW203				1.5	.040	
66	0.0340	0.864		1					
65	0.0350	0.889			2	#0	2	.050	.046
63	0.0370	0.940	AW204				2.5		
60	0.0400	1.016				1			
59	0.0410	1.041		1.5					
58	0.0420	1.067			3		3		.062
57	0.0430	1.092	AW205						
56	0.0465	1.181	AW206			2	4	.063	
55	0.0520	1.321		2	4				.093
54	0.0550	1.397	AW207				4.5		
53	0.0595	1.511			5	3			.125
52	0.0635	1.613	AW208				5	.100	.187
51	0.0670	1.702			6				
49	0.0730	1.854	AW209	2.5		4	5.5		
48	0.0760	1.930			7			.188	.250
47	0.0780	1.981					6		
45	0.0820	2.083			8				.312
44	0.0860	2.184	AW210				6.5	.25	

Aircraft Filler Metal Selection Chart Guidelines

Base Metal	O/A	Tig	Mil Spec	Notes
Mild Steel	RG-45	ER70S-2		
4130N	RG-45(replaces Linde 7), RG-60(replaces Linde 1), RG-65(replaces Linde 32CMS)	ER70S-2, ER70S-6, ER80S-D2		RG-45 is common for weldments not heat treated above the normalized condition of the base 4130 material, and itself is not heat treatable. ER70S-2 and -6 are used in similar application as RG-45. RG-65 and ER80S-2 are heat treatable and are used in applications where the finished weldment is oven heat treated above the Normalized condition of the base 4130 material. RG-60 is listed in older texts, but is not commonly used due to its properties being very close to RG-65 and having no apparent advantage.
308 Stainless	308	308		Same filler metals are used for either process
316 Stainless	316, 316L	316, 316L		Same filler metals are used for either process

Note - Tip and filler rod charts provided courtesy of Aaron Novak.

November Chapter Meeting

Our November 12th meeting was well attended with a total of about 29 people present. We had a few guests attending: Fared Guyot, Sune & Jean Erickson (who saw our meeting announcement on the internet), Mike Hull, Dave & Nathan Borlee, Bart Case and our featured speaker John Douglas.

President Wayne Daniels updated the group on various Chapter business. Randy Novak spoke briefly about a S. J. Wittman display for the airport terminal that the Chapter and Wittman Airport Manager Peter Moll have agreed to work on together. Cindy Boelk has volunteered to help with the display and talked about the type of photos and artifacts that could be used to help represent Wittman's career.

Wayne and Jim Kress talked about Aeromart and the need for volunteers to support the new principal Chairman, Warren Baier. Site improvements for 2010 were also reviewed.

Wayne put out a request for a couple of people to help John Egan at the January 30 & 31st Sport Air Workshop.

Our featured speaker John Douglas provided a very interesting slide show and narrative of his cross Atlantic flight from Oshkosh to Cameroon, Africa in a Glasair 2+2. Of interest to me was how routine small aircraft transatlantic flights have become. However, it was evident that good pre-flight planning and preparation are required as the trip is still a risky venture. John did a good job describing his experience – and says he would do it again. Bart Case then followed up with a short talk about our hosts, Wings as Eagles, and their support of missionary work.



The Route To Cameroon



John Douglas spoke about the construction and qualities of the Glasair 2&2, in addition to the preparation and execution of the trip itself.



The meeting pulled in a nice size group of members and guests.



Cindy Boelk brought examples of the type of materials she recently made available for a Wittman exhibit in Byron, WI.



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 Oshkosh, WI 54901



**Newsletters Are Available
 On-Line at www.eaa252.org**

Items for submission are welcome and must be received by the newsletter editor no later than 3 weeks prior to the monthly meeting date.

About Us

Our chapter is named after famed aircraft designer, airplane racer and Oshkosh resident Steve Wittman.

EAA Chapter 252 offers the opportunity to share the spirit of aviation with a group of local EAA members.

Our members are mostly people who enjoy the company of others who love aircraft, are fascinated by flight, and appreciate the history of aviation in America. They include r/c enthusiasts, pilots, aircraft builders, and aircraft owners.

Join Us!

Regularly meetings are held on the second Thursday of the month at 7:00 PM. Dates are subject to change, call to confirm, visit us at www.eaa252.org. Annual dues are \$20 for all current members of the Experimental Aircraft Association (EAA).

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