



PARTICULARS



AMA Charter 331

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AMA CONTEST DIRECTORS: Bob Wilson, Jim Hogan, Jim Fassino

Flying Field Location

The flying field is located off Old Galena Road, ½ mile north of the Caterpillar Technical Center on the west side of the road.

GPS Location: N40 51.844' W89 33.788'

Flying Hours

Flying hours are 8am until dusk, Monday thru Friday, Saturday and Sunday.

Membership

Club dues are \$100/year. All members and flyers must belong to the Academy of Model Aeronautics (AMA). A \$100 new field assessment will be initiated for all new club members in 2011. Beginning in 2012 the new field assessment will expire.

General

We are committed to having fun and the safe operation of model aircraft. The Peoria RC Modelers is an equal opportunity, not-for-profit organization and welcomes all new members.

Flight Instruction

The Peoria RC Modelers offers flight instruction as a free service to anyone requesting it. Contact a club officer for further information.

PHOTO OF THE MONTH



Replica Hughes H1 Racer

This was a tough month to find a "Photo of the Month". So I searched and searched and then...found this gorgeous photo of The Howard Hughes Racer replica.

Sadly, this airplane crashed August 4, 2003 on route from the EAA Air Venture in Oshkosh, Wisconsin to the pilot's home in Cottage Grove, Oregon. The pilot, Jim Wright, was also the builder of the amazing airplane. At a fuel stop in Gillette, Wyoming he complained of mechanical problems with the Hamilton Standard 12D40 variable pitch propeller hub. In fact, after refueling, he returned to the field to make adjustments. While over Yellowstone National Park the loss of a counterweight caused one of the blades to go to low pitch while the other remained at high pitch.

Attempting to land on a foot path in the park near Midway Geyser, witnesses said he swerved at the last moment to avoid hikers. Jim Wright was killed in the crash.

Jim Wright's plans were to duplicate the speed setting runs conducted by the original H1 Racer. Hughes flew the airplane in 1935 to a

land speed record of 352 mph. Later in 1937 he equipped it with longer wings and flew from Los Angeles to New York City for a transcontinental speed record of 322 mph.

Where is the original H1 Racer today? It's in the Smithsonian Institution's National Air and Space Museum.



The original H1 at The Air & Space Museum

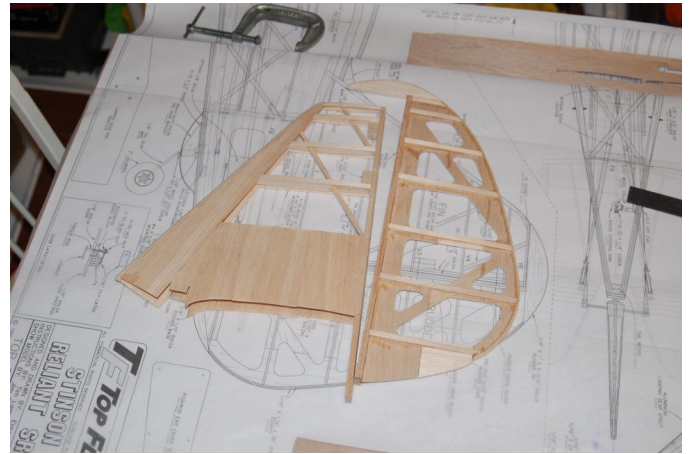


INTRODUCING THE 2012 PRCM PRESIDENT JOE LANG!

Happy Holidays! Hopefully everyone is knee deep in their winter projects and getting a bunch of new airplanes ready for next year!

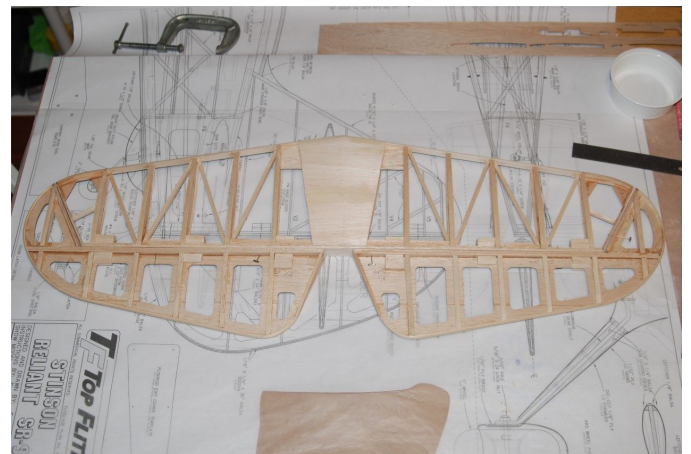
After a couple of winters assembling ARF's, I decided that this would be a good year to build a couple of kits. I started easy with a Sig Four-Star for next years racing. Last week I started the my big build: The Top-Flite Stinson Reliant. I have been interested in the Reliant

ever since I saw one at an air show in Michigan many years ago, so it was an easy choice for a scale build. I am not sure exactly why I needed to build one this big (100.5" wingspan), but at least it will be easy to see in the air. After a nice week away from work, I have the stabilizer, elevators, tail-fin and rudder completed and am now ready to start on the wings. So far, it has been a very easy build. If all goes well over the next three or four months, it will be ready to fly this spring.



A couple of quick reminders:

Don't forget to join us for the New Year's Indoor event at Midwest Sports complex. There will also be outdoor flying if the weather permits. Doors open at 8:00AM and food will be available for purchase. Please stop in, do a little flying and earn the right to say that you were among the first to fly in 2012.



Keep your eyes open for the announcement of the date of our banquet. I had hoped to have the date by now, but have not been able to get the venue lined up yet. We are shooting for a date in the later

half of February. I should have the date by our January 3rd club meeting.

Finally, I would like to thank Scott and JD for their time and dedication last year. They did a great job and have left Jon and I pretty big shoes to fill going into 2012. Thanks guys!

Happy Flying!

Joe Lang



INTRODUCING THE 2012 VICE PRESIDENT JON DEWEY!

It looks like even Santa required a little help to make it around the world in just one night. Just like Santa, our club will require a little help to make it through this next year.



As the new 2012 P.R.C.M V.P. We will need some help with our annual events such as our indoor New Year's day flying, Open House, Family picnic, 4 star racing, and hopefully a couple of "at the field breakfast." Please remember our club is not just run by a small few, we all pay the

same amount in dues and we all have an equal voice. The only time you do not have a voice, is when you do not voice your opinion. Please help support OUR club by coming to the monthly meeting and I hope you will consider helping out with some of our events. A little help goes a long way. If you have any questions or concerns, Please do not hesitate to contact Joe or myself. I would like to wish you and your families a very Happy New Year.

Jon Dewey



RETURNING SEC/TREAS JIM FASSINO!

After a slow start, Peoria RC Modelers Indoor Flying has "taken off". We had been struggling to get 9 or 10 indoor flyers on a Friday evening in November. But December has shown there is real interest in indoor flying. It might be the addition of indoor pylon racing headed up by Tom Imhoff

or it could be the addition of indoor combat headed up by Roger Stegall. But if I had to guess I think it might be that George Knight invited the Horizon Hobby Santa Bryan Read to the December club meeting. Santa had a trunk full of RC indoor airplanes, and helicopters that he brought in for his talk. Little did the members know that he would not take any of them back to Champaign with him.

The next Friday evening we saw most of the newly acquired aircraft make their maiden flights. Attendance was up that Friday and it has continued to grow. We had 21 pilots paid for Friday, December 23, 2011. At this pace, we should have indoor flying through the month of March 2012. I want to give a big thank you to George Knight for bring our guest speaker Bryan Read and a special thank you to Horizon Hobby.

Self Service Santa

It was just a day or two until Christmas and my wife said.

“You know I didn't get you anything for Christmas.”

I had just been looking at a video again of the AR Drone. So I checked on Amazon and in just a click had ordered an orange and green AR Drone. It arrived in 24 hours and I flew it indoors that evening.

This is not your fathers (Oldsmobile) RC airplane. No this one is flown with an iPhone or iPad. It's not 2.4 but rather establishes a WIFI connection between the AR Drone and the smart phone. It takes telemetry to a new fun level with battery level, height above ground, roll and pitch data control deflection. In addition, all of that comes to you on the video link on the iPad. You have the choice of video from the camera on the front of the drone or the down facing camera. You can also select picture in picture so you have both views at once. And, just hit the picture button

and it captures a photo or hit the record button and record the video. You can have multiple smart phone receiving the data feed while one does the controlling.

The drone has an auto-launch and auto-land system. Plus, it will hover in one position until the battery runs low and land before it is out of power, that is what it will do if you shut off the phone or it drops the WIFI connection. Its 12 minutes of RC fun on 1,000 mAh 3 cell lipos.

It makes me wonder where this hobby is heading.

Thanks Santa.

Jim Fassina



STREAMERS OVER MOSSVILLE

It's time to ring-in another new year with resolutions we probably won't keep. One of the few changes I plan to keep for 2012 involves participation in combat. All that is required is an 18 AMP or smaller speed control and some type of electric motor. The speed control is the only limiting factor that keeps the cost of a suitable combat plane really low. If you purchase from a

discount hobby source, the cost of a 450-size motor, 4-channel DSM2 receiver, 3 servos and a speed control will only total \$45. If you choose to build your own plane from foam-board and blue foam and use carbon fiber control rods, the price increases by \$4.50. I have been experimenting with different construction techniques and design configurations.



Combat has the known potential for foam meeting foam so I have several airframes ready for action. If a mid-air causes the loss of a combat ship, the only loss is \$2.50 worth of foam (the carbon fiber rods actually cost more than the foam and foam board).



I hope other PRCM members will make a resolution to attach a 30-foot length of crepe paper to the rear of an electric plane.

An official set of rules for outdoor combat has been finalized to allow any plane, motor, propeller and battery combination. The only requirement is a speed control of 18 amps or less. If you are short on time to build a foamy for combat, contact Vern Holeman to work out a deal. I can attest to the fact that Vern can build some a really nice foam wing. Why not join in the fun while you “watch your 6.”

Roger Stegall



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Pylon Racing Program**

**Come see our special prices on
Four Star 40 kits & ARF's!**

Thunder Tiger Pro 40 Engines!

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**Call us at:
1 (815) 856 2272**

Happy New Year!





— **PRCM RACING** —→



4 Star Pylon & “Fat Lake Speed Run”

I haven't heard of anymore 4 Stars being built, but I got a “definite-maybe” from Scott Ferguson and Jim Fassino. Also, I heard a rumor that Jim White will be building a racer, No news yet of Don “Snappy” Stedman who lost his racer during competition last summer. “Snappy” is a tough competitor and we hope he returns to the fray.

The racing committee will discuss modifying a few of the race rules in the next few weeks.

Here are my suggestions.

1. No minimum weight limit on 4 Star 40
In the past we were concerned about competitors building their airplanes too light. That's ridiculous! As long as we stick to the basic built up construction who cares if someone finds a way to lighten up the airplane? If they make it too light and it affects structural integrity, it will blow up in the turns anyhow.

2. No regulation on prop size.
If you can find a prop that works better for

you...use it! Personally, I think the APC 9X6 is the fastest prop out there. But, who knows?

3. Tail Skids

I don't think a tail wheel is necessary. We don't spend any time taxing around the field...we blast into the air and race!

Finally, I am looking at an alternative engine that is more affordable. The LEO 40 is a OS clone produced in Taiwan with very similar performance. If approved, racers would have the option of using the Thunder Tiger Pro40 or the LEO 40. Here are the scoobies on both engines.



**Thunder Tiger
Pro 40**

\$95.00-\$99.98

SPECS: Displacement: .398 cu in (6.52cc)
Bore: .8228" (20.9mm)
Stroke: .7480" (19mm)
Power Output: 1.22 HP @ 16,000 RPM
Maximum RPM range: 2,000 - 17,000
Practical RPM range: 2,500 - 14,000
Weight (w/muffler): 17.19oz (487g)
Crankshaft thread size: 1/4-28
Crankcase width (for engine mount): 1.36"
Overall height: 3.4" (87mm)
Overall width (w/mount flanges): 1.97" (50mm)
Overall length (backplate to front of drive washer): 3.39" (86mm)
Recommended prop size: 10x6 (break-in); 10x6 (aerobatic);
11x5, 10x6 (sport and scale)



Leo engines are produced in Taiwan by the same factory for the last 22 years. The .40 is a reliable, easy starting, powerful motor. An economical yet good performing choice for .40 size trainers or sport planes. This high torque glow engine can swing a 10x6 prop on standard 0% nitro mix.

Spec.
Displacement: 6.47
Bore: 20.5mm
Stroke: 19.6mm
Suggested prop: 10" 6
RPM: 2,000 ~ 16,000
Weight: 340g

\$56.94

Let's get working on those 4 Stars. Racing season is only 4 or 5 months away!

Bob Wilson

THE FLIERS & LIARS CLUB
(Light on flying, long on Lying)



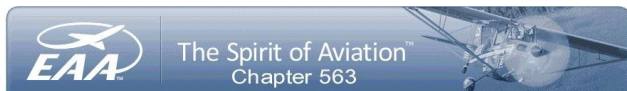
Meet for breakfast every Saturday morning at the
Bob Evans on Allen Rd.

Arrive any time before 7:00 AM or you will be
severely heckled.

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The Experimental Aircraft Association is an organization that promotes all forms of recreational aviation with chapters around the world. Peoria EAA Chapter 563 is located at Mt. Hawley Airport and has a stated mission that includes warbirds, aerobatic, ultralight, antique and classic aircraft.

You don't have to be a pilot or aircraft owner to be a member. You can fulfill your aviation interests with the many programs that are available. These include aircraft restoration, photography, "The Young Eagles" or just hanging out with a great group of people. And...don't forget to visit the world's premier aviation event...EAA AirVenture Oshkosh.

For information on joining EAA Chapter 563 call:

President Bob Young (309) 455-5602
VP Sam Sisk (309) 453-2020

Website: www.eaa563.org



THE SAFETY OFFICER SPEAKS

INTRODUCING THE 2012 PRCM SAFETY OFFICER, JIM HOGAN!

How safe are the members of PRCM? Just how safety conscious are we? Well, I think we are very safety aware.

How many times have you been to the field and someone will say;

"Where is the Safety Officer when you need him", or "It's a good thing the Safety Officer didn't see that."

In short, every time we say that, we are reminding an offending member a safety rule may have been broken and it is a way to remind him/her about the violation without offending them.

It also shows we are aware of safety issues and have a good understanding of issues at the field. You don't need a safety officer ragging on you if you fly behind the fence or walk out on the runway without letting the flyer's know our intentions. As long as we all act as safety officers to each other, we are showing we are safety conscious. Let's keep up the good work.

INDOOR FLYING

This indoor season has seen the rise of the racing airplanes. If you have not seen them yet, they are fast for indoor flying and require a skilled pilot to control them in our limited airspace.

It is suggested that when the racers fly, they announce their intentions to allow the slower flyer's to land to give them room. Then once in the air, it is a good idea not to get in a discussion with someone with your back to the flight line. Keep your eyes on the racers, they are fun to watch but can be handful to control while racing.

See you in the lawn chairs!

Jim Hogan



New Years Day "First to Fly 2012"

No Charge Swap and a Special Raffle

It's that time again when the Peoria RC Modelers host the first event of the year; New Years Day "First to Fly 2012". The fun begins at 8 AM January 1, 2012 and continues until 5 PM at the Midwest Sports Complex, 12026 N Old Galena Road, Mossville, Illinois. Join us for a day of flying and RC fun, including indoor flying and a chance to fly outdoors on the first day of the New Year. Plus there will be swap gear for sale and raffle prizes to win.

The indoor flying schedule will have times reserved each hour for open flying, micro flying and helicopter flying. We have two large indoor flying areas. The outdoor flying is right out the door! So you can fly outdoors in the cold and come right back in and warm

up with a coffee or hot chocolate. What a great way to start the New Year.

Special indoor events this year include combat, night flight, limbo, pylon racing and a hovering contest. ***In addition, rumor has it there will be a special raffle of goodies from Horizon Hobby!*** You do not want to miss this event.

If you have extra RC gear, you want to sell, bring your own table (or set it up on the floor) and sell your excess at our First to Fly 2012 event...no charge. We have lots of room so it is your chance to turn your RC related merchandise into cash.

When the doors open at 8 AM there will be coffee, hot coco and doughnuts to get you going. Sandwiches, chips and drinks will be available for lunch. Flying for the day is just \$15 and no charge for spectators.

AMA membership is required and airplanes weight is limited to 18 ounces maximum. Helicopters limited to 450 size and smaller. If you got something for Christmas that flies and you would like some help getting it in the air, join us and we will help even if you are not an AMA member.

Hope to see you there.

Jim Fassina



REMEMBER! JANUARY'S CLUB MEEING AT TGI FRIDAYS, ACROSS FROM "SHOPS AT GRANDE PRAIRIE". DINNER AT 6PM MEETING AT 7PM. BRING YOUR SHOW & TELL!

**HAPPY NEW YEAR TO
ALL THE PRCM
MEMBERS!**

Bob Wilson Editor