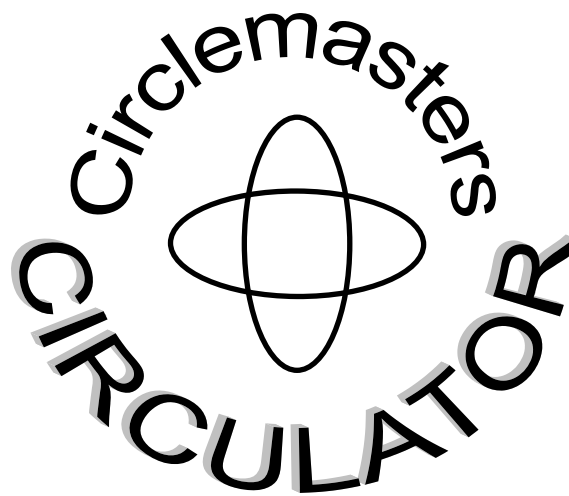
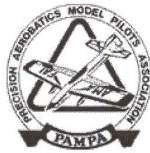


Circulator
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Newsletter of the Circlemasters Flying Club
Milwaukee Wisconsin
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At The Handle



If you would like to contribute material, please submit to the address on the cover or contact me at (715) 697-8458 I may be reached via e-mail at clmodman@wctc.net

Wandering around the circle with your Editor

Happy New Year! Wow, it's time to start 2015 off right. No I don't mean with silly resolutions you have no intention of keeping anyway. Ring in the new year with your pal, Big How and another exciting issue of the *Circulator*. This month I have a couple good things for you. There's an article in here from the July 1980 issue of *Model Airplane News*. This beaut is all about how to make yourself a building board that is so flat, you couldn't build a crooked wing on it if you tried. I am sorely tempted to throw in a little off color joke in here about how flat this thing is, but, but I'm trying to keep up my stellar literary reputation. Also gracing these pages, is a plan for a profile sport stunt model of the Sorrell Hiperbiplane homebuilt bi-plane. This one is from an old *M. A. N.* also, March of 1980. You can never have too many bi-planes in your fleet and this one lends itself especially well to profile construction. The upper wing is fuselage mounted, dispensing with the need for tricky to align cabane struts. You don't see too many staggered wing arrangements on biplanes, other than those Beeches. This would make a great eye catching project for the upcoming flying season. Of course, Name That Plane is back again to lay an aeronautical beat down on your investigative skills. Remember, must be present to win is the key here. This one is so good, I'm not even sure what it is! Just kidding, Don't get your party horn all up in a knot.

Did you take a look at the latest issue of *Model Aviation*? Nestled in there amongst all that malarkey about quad copters and ARFs are a couple of really interesting articles. One is for you stunty guys and deals with reverse wingovers, the other is about carrier at the NATS. You see what's happening here don't you? All of those R/C types are throwing us a bone to butter us up for the inevitability that R/C will be shut down by the FAA and Department of Homeland Security real soon, when some ten year old with an 80 megapixel digital movie camera on his quad gets a video of Hillary in her unmentionables and puts it on the web, setting off a panic that space aliens have in fact, landed. Then the radio control crowd will need us to help them learn the pure form of model airplane flying, control line of course. Don't quote me exactly here on how all of this is going to go down, but I'm certain my theory is close.

Ok, so you should really try to make it to the January meeting. Don't forget, the swap meet is on Sunday and Mike will be headlining the after party with a demo showing them how it's done with his indoor electric Gee Bee R3 looking thing that he brought to show and tell last year. The meeting is on the third, so that gives you a couple days to get the lamp shade off your head from New Year's eve. So no excuses. I will try my best to attend. Show the old Howser Wowser some love and make a real resolution, not one of those lame ones you make to get the old lady off your back, to send him some stuff for the newsletter in 2015.

Until next time

Howard



The Chicago "Aero Angels" circa 1967.

CIRCLE MASTERS FLYING CLUB

MEETING MINUTES FOR DECEMBER 2014

The last monthly meeting of the Circle Masters Flying Club for 2014 was held in conjunction with the annual Christmas Party on Saturday December 6th at the Sussex Library. Although invited, Santa did not show up; claimed to be too busy.

The meeting was brought to order by Pres. Greg at 1:05 PM. He began the meeting by inquiring if all members received the newsletter and had read the minutes of the November meeting. All members present (16), indicated that they had received the newsletter and had reviewed the minutes and found no errors so the minutes stood as published.

The Treasurers report was given by Ralph who outlined the current financial status of the club. He reminded those present that he is accepting dues for 2015. A motion to accept this report was made and seconded.

REPORTS & ANNOUNCEMENTS: Pres. Greg asked for volunteers to assist at the upcoming R/C Association Auction on Jan. 4th; he was able to obtain three. Jason reported that his neighbor Alex has officially joined our club. She was at a few of our events last year and flew one of Jason's planes.

OLD BUSINESS: In addition to the model display here at the library next April, Don discussed two types of foam gliders the club could make and pass out during the question/answer portion of this event. Start saving the egg cartons.

Jason discussed his efforts to present to the Sussex Part Board the reason we want to name the portion of the park designated as the flying field as the Dan Tetzlaff Memorial Flying Field. He must present a written report as well as a verbal one, hopefully at the next Park Board Meeting.

NEW BUSINESS: At last month's meeting the subject of a new site for the club contest was opened with a location which proved to be not acceptable. A new site was suggested at Mukwonago High School by Mike and reported to have sufficient area for all events including combat, parking and rest room facilities. It was decided to try to secure this site as well as Wagner Park, just in case.

Since there was no more business to discuss Greg called for a motion to adjourn the meeting. The motion was made and seconded. The meeting was adjourned at 1:55 PM.

SHOW & TELL: Pres. Greg presented a mini Bi-Slob to his brother Wayne as well as a framed picture of him when he was 16 posing with his models. Thanks brother!

Submitted by: Wayne M. Schmidt, Secretary

12/26/14

UPCOMING EVENTS

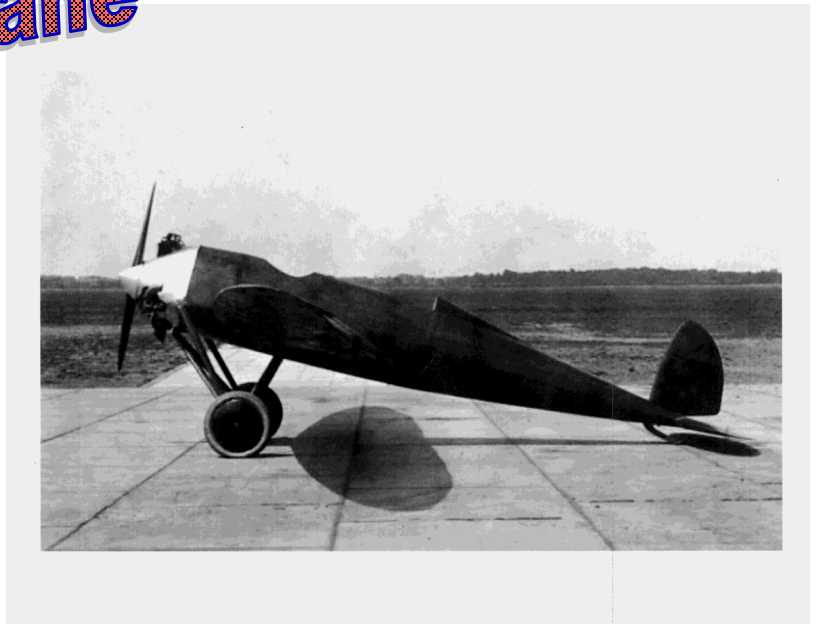
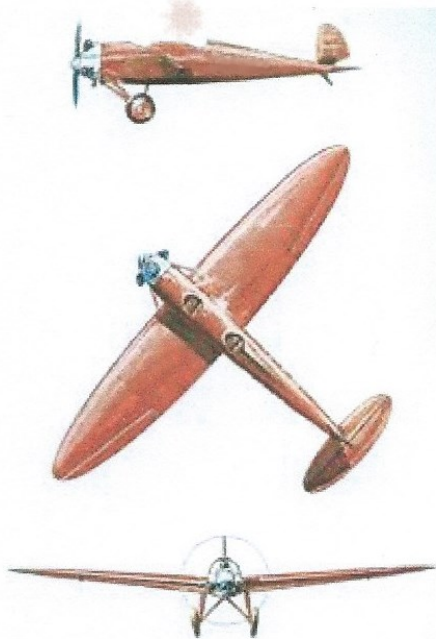
Time for the first meeting of 2015!

January meeting: Saturday January 3rd, Pauline Haas Library, Main Street in Sussex. Monthly activity begins at 12 noon with the meeting at 1:00 PM.

Waukesha swap meet. Sunday January 4th, 37th annual auction and swap meet. Waukesha Expo Center General admission opens at 9:00 AM. After the swap meet, there will be indoor electric flying featuring our own Mike S. Show up and support this effort!

HERE IT IS...

Name That Plane



Ok, take a good guess. No clues, some of you are too good at this.

Perfectly Flat Board

By Roy Anderson

During construction, sailplane wings are very flexible and fragile things that conform to the surface on which they are built. If the work surface has a warp, so will your wing. Commonly used building surfaces such as doors, kitchen counters, and floors are not reliable to maintain flatness. Age, gravity, and humidity have done or will do their thing to the building surface in very short order. "Roy's Building Board" is designed with leveling nuts at one-foot spacing under the building board to forever maintain flatness and warp-free wings.

CONSTRUCTION. The 1" x 4" foundation is constructed first. Tie crosspieces to long pieces with through-bolts and nuts and the 1" x 1" steel corner braces. In lieu of bolting, glued-and-nailed joints serve equally well. Install the 2 1/2" x 2 1/2" x 5/8" steel corner braces to the top of the long 1" x 4" pieces at one-foot spacing with wood screws.

After the braces are installed, turn the foundation upside down on the particle board. Mark the hole locations on the particle board for the carriage bolts. Use a 5/16" bit to drill holes through the particle board. With a bit slightly larger in diameter than the carriage bolt head, recess the top of the board for flush setting the carriage bolt head at each hole location. Install the carriage bolts in the particle board with washer and nut cinched tight against the bottom of the board.

Lower the particle board on top of the foundation so the carriage bolts go into the 2 1/2" brackets. Place a nut and washer on each of the carriage bolts above and below the 2 1/2" brackets. Moving these nuts up and down provides the building surface adjustments.

Insulation board usually has a painted side and a non-painted side. The non-painted side is usually the smoothest and is preferred for the work surface. Apply aliphatic or white glue to the painted surface of the insulation board. After the glue is dry, construction is complete. As an added touch, a 1" x 1" grid of lines can be scribed on top with a ball-point pen. Use string lines or a long straightedge to insure the straightness of the scribed lines.

MAKING IT FLAT. The board is leveled by using string lines in the three steps shown in the sketch. Cut a length of 1/4" x 1/4" square balsa scrap into three pieces. Start with Step 1. Stretch the string tight and hold it with pins. Slip the three balsa scraps between the string and the building board. Slide one balsa strip under the string to the end of the board. Do likewise with the second scrap to the opposite end of the board. The string should be suspended 1/4" above the surface of the board. Use the third balsa scrap as a measuring device under the string and over each leveling nut location. Raise or lower the board at each location with the leveling nuts to bring the board to exactly 1/4" from the string. After you are satisfied with the level of Step 1, proceed to Step 2. Adjust the nuts on the opposite side of those adjusted in Step 1. Proceed to Step 3. Adjust only those nuts under the string. The board is now flat!

Always check flatness prior to starting a construction project. The above technique insures that the board is a perfectly *flat* plane; however, it is not necessarily *level*. A carpenter's level and shims under the foundation can make the surface level, but many builders prefer to have the board tipped slightly toward them. The board is self-supporting, so it can be put on crooked floors, stepladders, desks — anywhere convenient for building. The dimensions of the building board presented in this article are sized to construct 6-foot wing panels. The dimensions can be varied to suit your particular building preferences and available space. The board is rigid enough to hang on a wall when not in use.

Material list for a 6-foot board:

- (2) 1" x 4" x 6'0" pieces of lumber
- (4) 1" x 4" x 9" pieces of lumber
- (1) 1'3" x 6'0" piece of 3/4" particle board
- (2) 1'3" x 6'0" piece of 1/2" insulation board
- (16) 1" x 1" x 1/2" steel corner braces
- (32) 1/8" x 1 1/2" machine bolts with nuts and washers
- (14) 2 1/2" x 2 1/2" x 5/8" steel corner braces
- (28) 3/4" wood screws
- (14) 1/4" x 2" carriage bolts, full

