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SAM Chapter #14

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Heart of America Free Flight Association

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DISPATCH MARCH 2015

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Schedule of Flying Events

Date	Day	Location	Time	Notes
INDOOR Events				
March 1st*	Sun	Osawatomie	9am to 3pm	Flying
March 15th*	Sun	Ozanam	8am to 12:30pm	Flying
* March 17th*	Tues	Cedar Roe	7 to 9 pm	MEETING
March 17th	Tues		All day	HAPPY ST PATRICKS DAY
April 5th, 2015	Sun	Osawatomie	9am to 3pm	Flying
April 19th, 2015	Sun	Ozanam	8am to 12:30pm	Flying
May 3rd, 2015	Sun	Osawatomie	9 am to 3 pm	**(Championship meet).**
June 8 – 12, 2015		**2015 Indoor Nats – City Auditorium, Colorado Springs**		
OUTDOOR Events				
April 14th, 2015	3rd Tues	Frontier Trail JrHi, 143rd at Black Bob, Olathe	~6:30 until dark	Practice for Championship
May 19th, 2015	"			Championship Flying for Points
June 16th, 2015	"			"
July 21st, 2015	"			"
August 18th, 2015	"			"
* September 8th, 2015	2nd Tues			Championship FINALS
*** October 3rd & 4th**	**Sat-Sun**	**Marion, KS**		**HAFFA Annual Outdoor Contest**

* indicates official HAFFA event/activity

HAFFA Indoor Site Locations:

Ozanam Gymnasium
421 E. 137th St.
Kansas City, MO

Osawatomie City Auditorium
425 Main St.
Osawatomie, KS

Cedar Roe
5120 Cedar St
Roeland Park, KS

For Outdoor flying information contact Mike Basta (913-492-4830)
For Indoor flying information contact Jeff Renz (913-341-2781)

1. Osawatomie reserves the right to cancel our reservation if they get a paying customer.
2. Outdoor flying is subject to weather conditions.

This is a reminder that our indoor flying fee is $10/person.

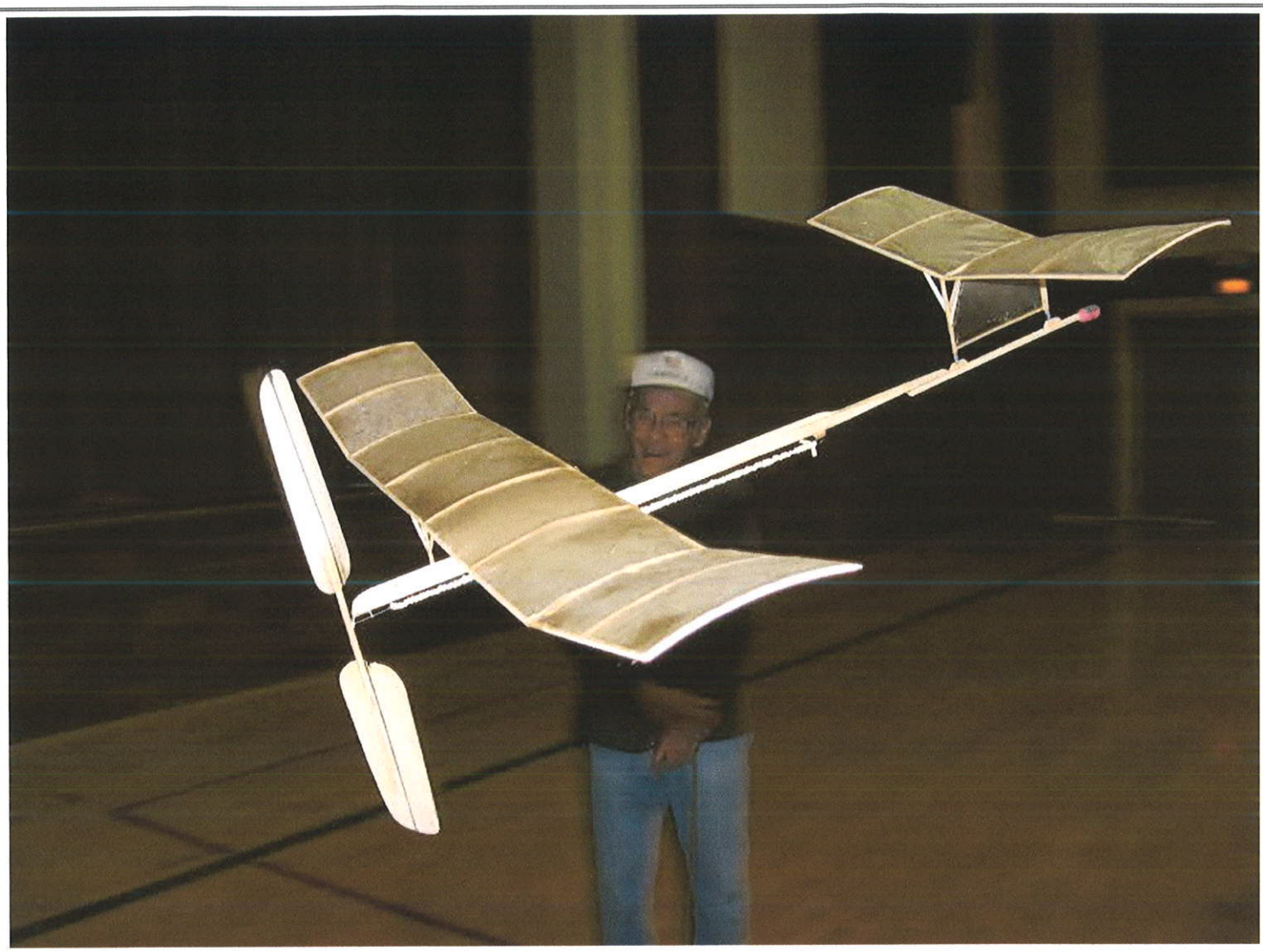
* * *

With the current interest in indoor catapult-launched gliders, this would be an appropriate time to review Tem Johnson's glider. At Osawatomie's 27 ft. ceiling, I watched him put up repeated 31-34 second flights. Once he had the launch stick/rubber figured out, he put up back to back to back repeat launches to 6 inches from the ceiling which transitioned into an immediate slow left hand glide. An early flapper that is still a competitive, and durable, design. - Dana Field

Plans for Tem's glider are printed at the end of the Newsletter

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The 2015 northeast regional science Olympiad catapult glider event and Rubber Powered aircraft events were held on February 28th in the Johnson County Community College Gym. Scott Clampitt, Charlie Tayler and Christine made it over to the event to help as timers for both the glider and rubber powered event. Mike Basta brought his tool box and set up in a corner to fly some indoor airplane examples between contest flights and assist the contestants with emergency materials and guidance. Dana and Doris ran the catapult glider event for the middle school kids. They were very busy as a steady line of 34 contestants piled in to gym to fly gliders. They started flying gliders at 9 am all the way to 2:30 without a break! Each kid had 5 attempts. The top 3 of the 5 counted as the score. Peg, and my brother in law Bill Potter ran the rubber powered airplane event (not popular). The rubber powered event only had 12 contestants one of which had a DQ. Our club had held a flying clinic at Olathe East about 3 weeks ago. It was very clear which competitors had attended as their scored/time flights were well ahead of the bottom 80% of the contestants. The rubber powered event was won with an 86 second flight. The glider event was also dominated by clinic attendees, with the top three places swept by attendees with over 50 second 3 flight totals. This was with gliders that had a 4 gram minimum weight requirement, and the difference between first and second place was 0.9 seconds! This was the first year we had to bring a computer for inputting the scores. I felt a little out of place when we tried to do this logging on the Wi-Fi and getting all connected to be even able to input the data. (How intimidating). However we managed to get the scores input into the system by 3pm and got out of there. I talked to a couple of the teachers and hope to have a 2015/2016 fall session to help the kids. One high school senior with a successful airplane happened to mention that when he was in his first year of middle school some years ago and he had the assistance of Bob Kochersperger our beloved member. This kid still remembered a lot about Bob and happened to mention that Bob had given him some construction materials and rubber he had saved all these years. I was so impressed with this kid. It was clear evidence of Bob's help still having its effect in 2015. I would say the penny plane and Comet ROG that Mike flew for demo created interest in flying indoor models. Several teachers and spectators did not know this hobby even existed. Thanks again everyone for all your help this year. I really appreciate it! Jeff Renz

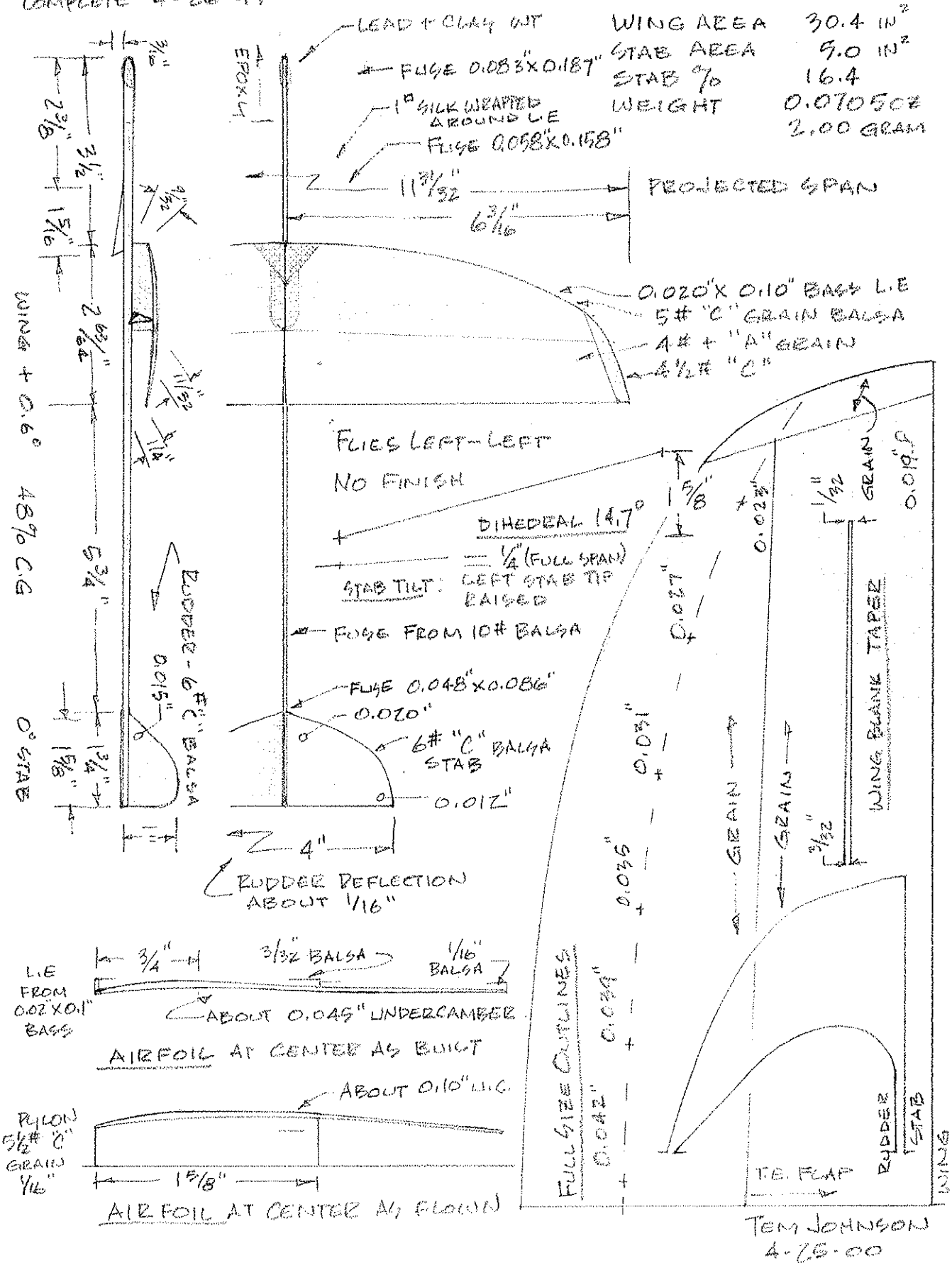


This is a picture of Bob K. It was taken at Nebraska in the early 2003 a couple years before Bob K. passed. Bob spent a tremendous amount of time working in the school systems during the week when he retired. He promoted the science Olympiad airplane events and was very popular with the kids. Here he is with his canard EZB pusher looking back at the camera with a twinkle in his eye. What a great man!

Also if you are looking for something to do with the grandkids or neighborhood kids enjoys parades. Well, the 43rd Annual Kansas City St. Patrick's Day Parade is on Tuesday, March 17 at 11 am in Midtown, Broadway from Linwood to 43rd Street.

CATEGORY I STANDARD CATAPULT GLIDER

COMPLETE 4-26-97



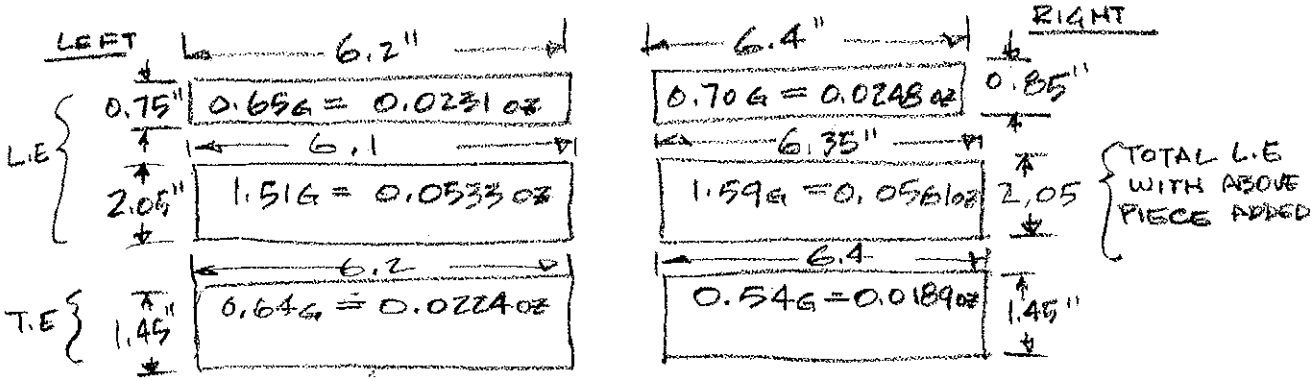
TEM JOHNSON
4-25-00

136 CATEGORY I CATAPULT GLIDER - STANDARD CLASS

BUILT TO FLY IN CATEGORY I (26' 3" OR LESS) SITES. FLYING #131 SUGGESTED PLANFORM & NEED TO REDUCE WING LOADING TO GET A LOWER SINK RATE. COMPLETE 4-26-97

WEIGHTS:

WING: LE FROM 3/32 X 3 X 48 5# "C" GRAIN (18.2G = 0.642oz)
TE FROM 1/16 X 3 X 36 4#+ "A" GRAIN (6.2G = 0.219oz)
TIPS FROM SCRAP 4 1/2# "C" GRAIN



BLANK WITH L.E — OVERSIZE	3.40G - 0.1198 oz
✓ BOTTOM SANDED SMOOTH - APPROX CHORD	2.84G - 0.1003 oz
✓ TAPERED	2.40G - 0.0846 oz
✓ T.E SHAPED	1.98G - 0.0698 oz
✓ L.E SHAPED — TOP FINISHED	1.53G - 0.0550 oz
✓ U/C SANDED	1.19G - 0.0418 oz
WING CUT TO SIZE — DIHEDRAL GLUED	1.16G - 0.0410 oz
✓ SILK REINFORCEMENT ADDED	1.19G - 0.0420 oz
PYLON FROM 1/16 5 1/2# "C" GRAIN — FINISHED	0.04G - 0.0015 oz
WING/PYLON ASSEMBLY	1.28G - 0.0451 oz

STAB & RUDDER: FROM 0.057" 6# "C" GRAIN

STAB BLANK	0.32G - 0.0114 oz
✓ SHAPED	0.10G - 0.0034 oz
RUDDER BLANK	0.11G - 0.0040 oz
✓ SHAPED	0.04G - 0.0013 oz
✓ TRIMMED	0.02G - 0.0006 oz

FUSELAGE: FROM 3/32 X 1/4 X 36 = 2.15G 10# - (CHAMPION)

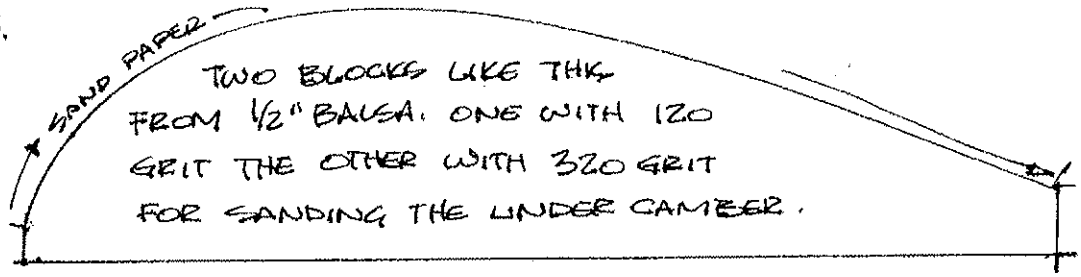
SIDE PROFILED	0.48G - 0.0168 oz
THICKNESS TAPERED	0.29G - 0.0101 oz
TRIMMED TO SIZE	0.28G - 0.0099 oz

ASSEMBLIES

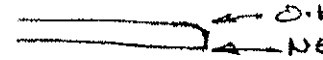
WING/PYLON	1.28G - 0.0451 oz
STAB/RUDDER/FUSELAGE	
COMPLETE AS FLOWN 4-27-97	1.98G 0.0697 oz
(C.G AT 47% ANGULAR DIFFERENCE 1.2°)	

CONSTRUCTION & FLYING SUGGESTIONS

TOOLS

1. A FLAT, SMOOTH, HARD SURFACE TO WORK ON. I USE A 12"X24" PIECE OF GLASS.
2. SANDING BLOCKS FROM PINE - 1½" x ½" x 5" WITH SAND PAPER GLUED ON THE WIDE SURFACES. USE GRITS 100, 120, 220, & 320
3. 

BUILDING THE WING

1. LAY UP THE BALSA PIECES WITH THINNED TITEBOND II. (YOU COULD USE DUCO OR SIMILAR WELL PLASTICIZED) I LIKE TO HAVE THE BLANK 1/16" → 3/32" OVER WIDE & 1/4" → 3/8" OVER LENGTH.
2. CUT THE LEADING EDGE TO PLANFORM SHAPE & GLUE ON THE BASS WOOD LEADING EDGE STRIP, AGAIN USING TITEBOND II.
3. SAND THE BOTTOM SMOOTH
4. TAPER THE TOP SURFACE.
5. MARK THE TOP SURFACE WITH DOTS AT EACH OF THE THICKNESS GAUGING POINTS ALONG THE HIGH POINT USING A FINE POINT ROLLER BALL PEN.
6. SHAPE THE TRAILING EDGE. CHECK THE THICKNESS FREQUENTLY USING A DIAL CALIPER. IT'S TOUGH TO GET BOTH WINGS THE SAME SO LET ANY EXCESS THICKNESS, 0.001" → 0.002", BE ON THE INNER (LEFT) WING.
7. SHAPE THE LEADING EDGE. CHECK THE THICKNESS.
8. SAND IN THE UNDERCAMBER. AGAIN, CHECK THE THICKNESS.
9. TRIM THE TRAILING EDGE SO THAT THE WING CHORD IS JUST UNDER THE MAXIMUM 3" ALLOWED. IT'S O.K. TO BREAK THE TOP CORNER BUT NEVER THE BOTTOM CORNER 

10. CUT WING PANELS TO LENGTH & BEVEL FOR DIHEDRAL. TRY ASSEMBLY (NO GLUE) TO MAKE SURE SPAN DOES NOT EXCEED 12"
11. GLUE DIHEDRAL JOINT USING ELMER'S WHITE GLUE, PUT GLUE SKIN 3/16" → 1/4" EITHER SIDE OF JOINT. ADD THE 1" SQUARE SILK REINFORCEMENT WITH THINNED & PLASTICIZED DUCO.
12. MAKE SURE THE WING TRAILING EDGES DON'T INTERFERE WITH EACH OTHER WHEN FLEXED. ADD THE PYLON.

FLYING

1. TAPE THE WING IN PLACE WITH MASKING TAPE.
2. ADJUST WING INCIDENCE BY SANDING BOTTOM OF THE PYLON.
3. USE A 7" → 8" LOOP OF 0.026" → 0.035" RUBBER FOR CATAPULT.
4. CATAPULT LAUNCH AT A NEAR VERTICAL ANGLE. BUNT CLIMBING PATTERN.