President: Mike Basta
913-492-4830
Vice President: Mike Schmidt
913-685-5669
Treasurer: Lynn Chaffee
913-469-9196
Dues: $20
Secretary: Dana Field
913-400-2132

AMA Charter # 2357
SAM Chapter #71

Newsletter Editor:
Gary Hodson
warthodson@aol.com
913-441-8335

HEART OF AMERICA FREE FLIGHT ASSOCIATION

9135 HALL DR.
LENEXA, KS 66219

Website: http:/haffa.wikispaces.com/

DISPATCH — NOVEMBER 2011

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Schedule of Flying Events

Date	Day	Location	Time	Notes
Dec. 11*	Sun.	Osawatomie	9AM - 4PM	
Dec. 18*	Sun.	Ozanam	8:30AM - 12:00	
Jan. 8*	Sun.	Osawatomie	9AM - 4PM	
Jan. 15*	Sun.	Ozanam	8:30AM - 12:00	
Feb. 5*	Sun.	Osawatomie	9AM - 4PM	
Feb. 19*	Sun.	Ozanam	8:30AM - 12:00	
Mar. 4*	Sun.	Osawatomie	9AM - 4PM	
Mar. 18*	Sun.	Ozanam	8:30AM - 12:00	
April 7*	**Sat.**	**Osawatomie**	**9AM - 4PM**	**HAFFA Annual Indoor Contest**
April 15*	Sun.	Ozanam	8:30AM - 12:00	
May 20*	Sun.	Ozanam	8:30AM - 12:00	
May 23 -27	Wed.-Sun.	Johnson City, TN		United States Indoor Championships
TBA		Moscow, ID		Kibbie Dome
TBA		Muncie, Indiana		Outdoor Free Flight Nationals

***** indicates official HAFFA event/activity

HAFFA Indoor Site Locations:

Ozanam Gymnasium	Kansas City College & Bible School	Osawatomie City Auditorium
421 E. 137th St.	7401 Metcalf	425 Main St.
Kansas City, MO	Overland Park, KS	Osawatomie, KS

For Outdoor flying information contact Mike Basta (913-492-4830)
For Indoor flying information contact Emil Schutzel (913-341-7788)

1. Osawatomie reserves the right to cancel our reservation if they get a paying customer. HAFFA has paid their fee for the April 7th Annual Indoor Contest, so it is confirmed.

INDOOR FLYING SITE FEE UPDATE:

Beginning in November our indoor flying fee will be $10/person. This modest increase is the first in a long time & is necessitated by increases in our cost to obtain these flying sites combined with a decrease in the number of members participating in them. The cost of the HAFFA Annual Indoor Contest is yet to be determined.

HAFFA Indoor Championship Points Standings

Name	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	**Total**
Emil Schutzel	5	3	0	0	0	0	0	**8**
Gary Hodson	3	5	0	0	0	0	0	**8**
Tem Johnson	2	4	0	0	0	0	0	**6**
Jeff Renz	4	0	0	0	0	0	0	**4**
Mike Schmidt	0	2	0	0	0	0	0	**2**
Jack Vetter	1	1	0	0	0	0	0	**2**

Note: Notify Gary Hodson of any scoring discrepancies

HAFFA minutes from 10-18-2011 meeting by Jeff Renz

Meet out at the hangar of Heart of America Commemorative Airforce in Gardner at the Naval Airstation
Members present: Mike B., Lynn C., Jack V., Ralph Carlson, Jeff R., Mike Schmidt
Mtg. called to order at 7:19pm: Reading of the Sept. Minutes (taken at Jeresey Mikes Subshop in Sept.)/ Sept. minutes accepted with some corrections marked up.

Treasures Report: $120 from Marion/ $734.79 balance
Motion was accepted for the treasures report seconded and approved

Old business:
Discussed the success of the Marion Contest. Marion does want HAFFA there.
This year the Marion contest was held on the same date as the SAM champs and a large meet in SEQUIN/SEGUIN Texas.
1st weekend in October will be the permanent date of the Marion contest (provided by Dick Mclendon)
Mike Schmidt sent email to the Olathe North school for the aspect of a student program which involves building model airplanes.
Discussed the upcoming Beatrice contest and discussed indoor flying at Oz.

New Business:
Discussed the HAFFA web site
Science Olympiad
Mike S. has acquired a large roll of condenser paper
Emil will conduct a prop building Demo for A6 indoor airplanes
Nov. 15th will be the next HAFFA meeting
Lynn suggested an official "thank you" to Gary H. for the excellent newsletter he has put together.
Moved to adjourn and 2nd at 7:46 pm.

We were all given a tour of the aircraft in the facility. We got to see the Stearman wing with all the covering removed. It was very interesting and looked like a giant balsa wood airplane.

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Free Flight News

United States Indoor Championship (USIC) News by Phil Sullivan

Johnson City Indoor NATS

The Indoor NATS is scheduled for May 23-27 in Johnson City, Tennessee. This huge East Tennessee State University field house has been the home of the NATS for the past 25 years. Recently, their athletic conference mandated that banners of member schools be displayed in the Dome. The location of these ten banners prohibit the administration of our National Contest. Obviously it is too late to search for another venue. The company that installed them has given us a cost to take them down and put them back after the contest - $1,300. This would be an additional fee added to the $5,000+ currently paid. As a one-time project, I am confident that we indoor flyers (NATS Contestants, and those interested in sustaining indoor building and flying) can raise the money for this "Removal and Replacement" of the banners. Donations in any amount will make it possible. We need to do this soon. Step two would be to conduct a serious search for a possible indoor space for n ext year.

Please make check in any amount to AMA and send it to the AMA, c/o Yolanda, 5161 E. Memorial Drive, Muncie, IN 47302.

Money received in excess of $1,300 will be forwarded directly to the AMA for the specific purpose of offsetting the cost of renting the facility itself for the week.

Thank You
Phil Sullivan, AMA Free Flight Manager

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Tech Tips

Bronco Outdoor Glider by Tem Johnson

Several HAFFA members have requested that I include the plans & building instructions for Tem Johnson's outdoor glider **"Bronco".** You can find them on pages 8 thru 11 of this newsletter.

Beatrice Contest Report by John Pakiz

Son Tim and I had a ball at the contest. We really enjoyed ourselves and flew everything we took - probably a first for Beatrice. I made a new Dick Hawes No Cal Champ that flies very well but I lost in the mass launch to Jeff Renz by just a few seconds. I like the way this model flies. All in all a fine time. I flew the snot out of my Std. Class Catapult glider. Had as much fun with it as I did the Champ. Tem doesn't know yet that I was exactly a second behind him in Hand Launch Glider. Anyway, here are the results:

AMA Events:

EZB

Arsene Fauquet	5:02

Limited Penny Plane

Tem Johnson	6:47
Jeff Renz	3:09

Penny Plane

Tem Johnson	6:32
Jeff Renz	3:01

Ministick

Emil Schutzel	6:58

7 Gram Bostonian - Best Two Flight Total

Emil Schutzel	3:58
John Pakiz	3:05

Standard Class Catapult Glider -Best Two Flight Total

Tem Johnson	61.8 seconds
John Pakiz	48.2 seconds
Jeff Renz	22.8 seconds

Unlimited Catapult Glider - Best Two Flight Total

Tem Johnson	61.1 seconds

Hand Launch Glider - Best Two Flight Total

Tem Johnson	36.7 seconds
John Pakiz	35.7 seconds

Non AMA Events:

A-6

Tem Johnson	6:13
Emil Schutzel	5:26
Jeff Renz	3:06

Federation ROG

John Pakiz	1:47

Legal Eagle

John Pakiz	1:31
Jack Fluehr	1:05

FAC No Cal Scale

John Pakiz - Aeronca Champ	1:25

Junior A-6

Tim Pakiz	3:22

Mass Launch No Cal Events:

W.W. I

Ray Talacko - SE-5a

W.W. II

Jeff Renz - Jap Zero

Greve Trophy

Jack Fluehr - Benny Howard Ike

Dick Hawes Aeronca Champ Trophy

Jeff Renz

Heart of America Free Flight Association

CONTEST RESULTS (Page 1)

Contest Name: Annual HAFFA Contest/NFFS Nat'l Cup Meet, Marion, KS **Date(s):** October 1-2, 2011 **AMA Sanction #** 11-1898

PLACE	1	2	3	4	5	6	7
NFFS Events							
NOS POWER (S/O)							
¼ A	Hanford, B.						
½ A	Hanford, B.	Murphy, J.					
A	Hanford, B.						
B	Hanford, B.						
C	Hanford, B.	Avila, G.					
Early ½ A	Hanford, B.	Englert, J.					
AMA POWER (S/O)							
½ A	Hanford, B.	Deloach, D.					
A	Avila, G.						
B	Avila, G.						
C	--						
D	Avila, G.						
CLASSIC POWER (S/O)							
½ A	Deloach, D.	Hanford, B.	Murphy, J.				
A/B *	Avila, G.						
C/D *	Avila, G.						
AMA RUBBER (S/O)							
P-30	Deloach, D.	Griffith, E.	Murphy, J.	Field, D.	Gibson, D.		
Moffett	Griffith, E.	Chaffee, L.					
Mulvihill	Deloach, D.	Murphy, J.	Griffith, E.				
AMA GLIDER (S/O)							
HLG	Deloach, D.	Covington, M.	Powell, C.	Basta, M.			
CLG	Covington, M.	Field, D.	Basta, M.	Powell, C.	Powell, L.	Renz, J.	Englert, J.
Classic Tow	Covington, M.	Powell, C.					
NOS RUBBER (S/O)							
NosRub/Wake comb	Englert, J.	Deloach, D.	Basta, M.	Powell, C.			
JUNIOR							
½ A AMA							
½ A Classic							
P-30							
OHLG							
CLG							
Classic Tow							

Heart of America Free Flight Association

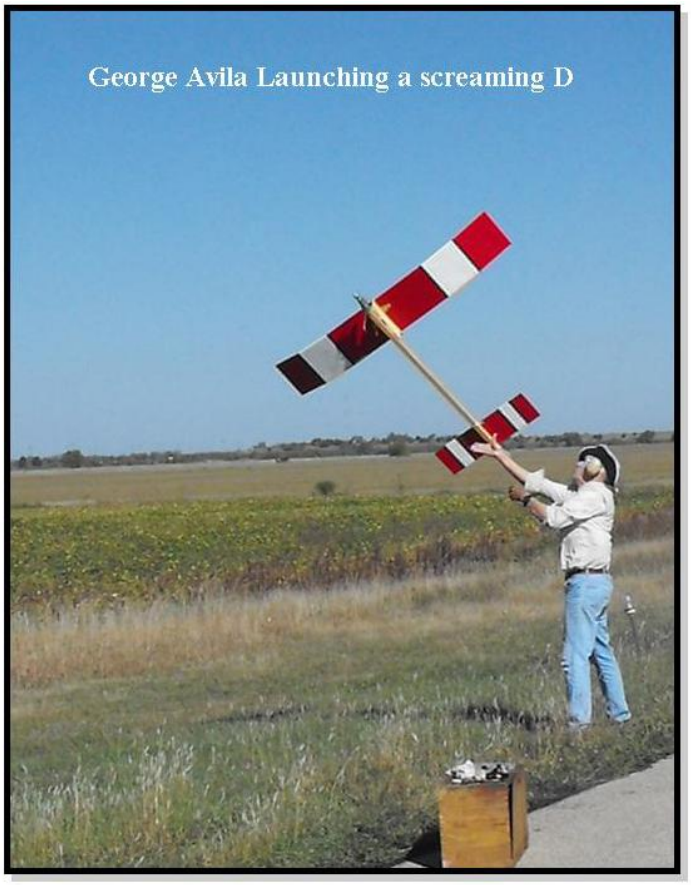
CONTEST RESULTS (Page 2)

Contest Name: Annual HAFFA Contest/NFFS Nat'l Cup Meet, Marion, KS **Date(s):** October 1-2, 2011 **AMA Sanction #** 11-1898

PLACE	1	2	3	4	5	6	7
AMA Event							
129 Bostonian	Renz, J.						
FAI Events							
Saturday (7 rounds)							
F1A	Basta, M.						
F1B							
F1C							
Sunday (5 rounds)							
F1G	Gibson, D.						
F1H	Basta, M.	Powell, C.					
F1J							
SAM Events							
.020 Replica	Englert, J.						
Small rubber cabin/stick	Deloach, D.	Murphy, J.	Basta, M.				
OT HLG	Covington, M.	Deloach, D.	Powell, C.	Basta, M.			
FAC Event							
Golden-age Civil Scale	Deloach, D.						
Old-time Plan/Kit Scale							
Jimmie Allen	Deloach, D.						
FAC Modern Scale							
Embryo	Renz, J.						
Mass Launch Events							
WW I							
WWII	Deloach, D.	Murphy, J.					
Thompson/Greve Combo	Deloach, D.	Renz, J.	Powell, C.	Englert, J.			



Don Deloach done winding his WWII Mass Launch



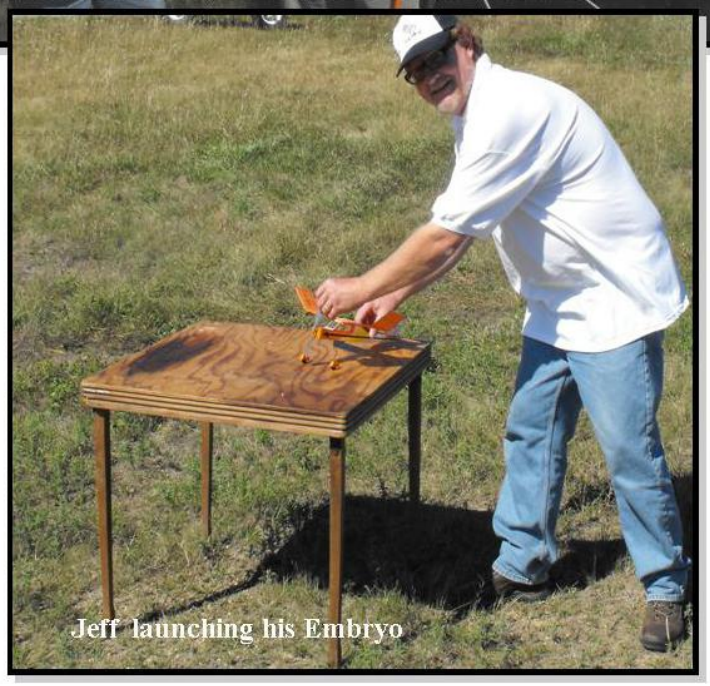
George Avila Launching a screaming D



Jeff Englert launching a SAM .020 Replica



Jeff Renz & Earl Griffith with a contrast in sizes



Jeff launching his Embryo



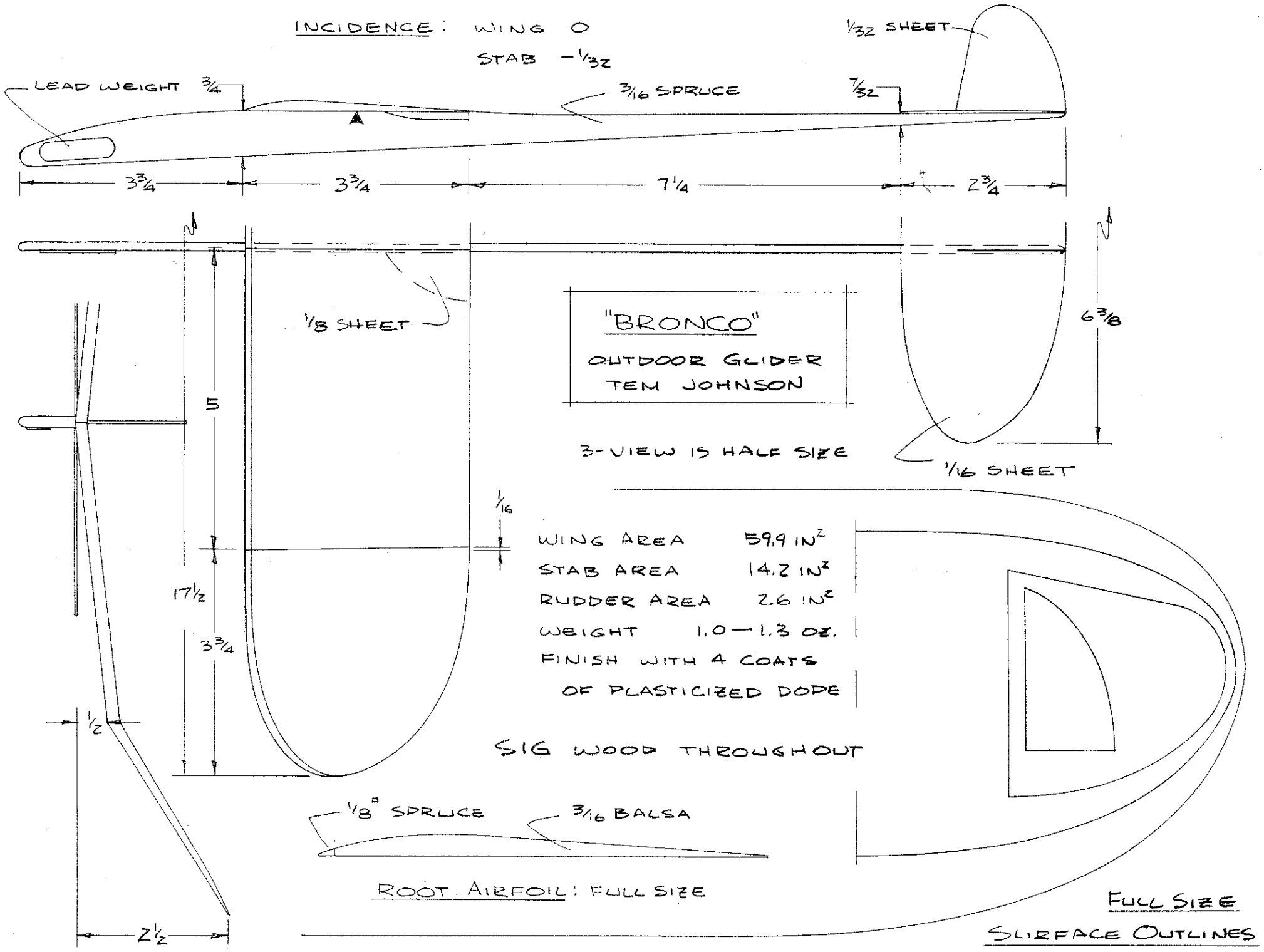
L to R: Dick McClendon, Don DeLoach winner of the Marion Cup the second year in a row, Mike Basta.



Mark Covington letting a discus HLG fly



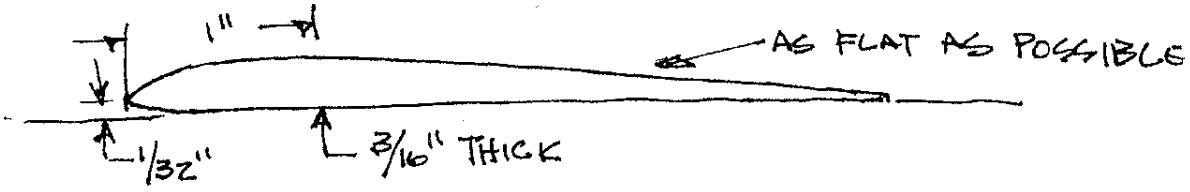
Earl Griffith launching his Mulvihill—he forgot to set the timer & it went OOS at 10+ Min. & maybe 1500 Ft. up.


INCIDENCE: WING 0
STAB −1/32
1/32 SHEET
LEAD WEIGHT 3/4
3/16 SPRUCE
7/32
3 3/4
3 3/4
7 1/4
2 3/4
1/8 SHEET
"BRONCO"
OUTDOOR GLIDER
TEM JOHNSON
3-VIEW IS HALF SIZE
6 3/8
1/16 SHEET
5
1/16
17 1/2
3 3/4
WING AREA 59.9 IN²
STAB AREA 14.2 IN²
RUDDER AREA 2.6 IN²
WEIGHT 1.0—1.3 OZ.
FINISH WITH 4 COATS
OF PLASTICIZED DOPE
SIG WOOD THROUGHOUT
1/2
1/8" SPRUCE
3/16 BALSA
ROOT AIRFOIL: FULL SIZE
2 1/2
FULL SIZE
SURFACE OUTLINES

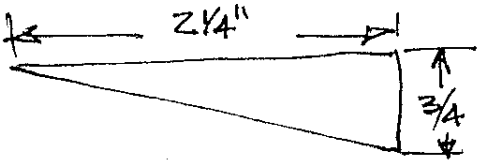
BRONCO UPDATES

WHEN YOU BUILD IT I'D MAKE THE FOLLOWING CHANGES:

1. USE 1/32" UPSWEEP ON L.E. OF AIRFOIL



2. USE A 1/8" X 3/4" X 2 1/4" TAB

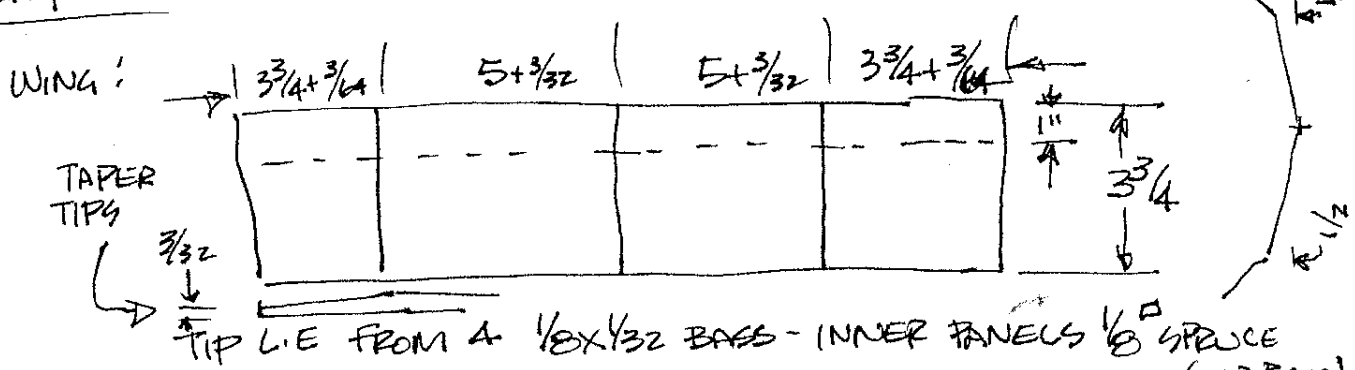


3 POSSIBLY A LITTLE MORE SKEW FOR WASHOUT — 3/32" INSTEAD OF 1/16"

4. YOU'LL NEED TO USE 3/4 X 3/16 X 24" SPRUCE FOR THE BODY. SK NO LONGER HAS THE 1" WIDE

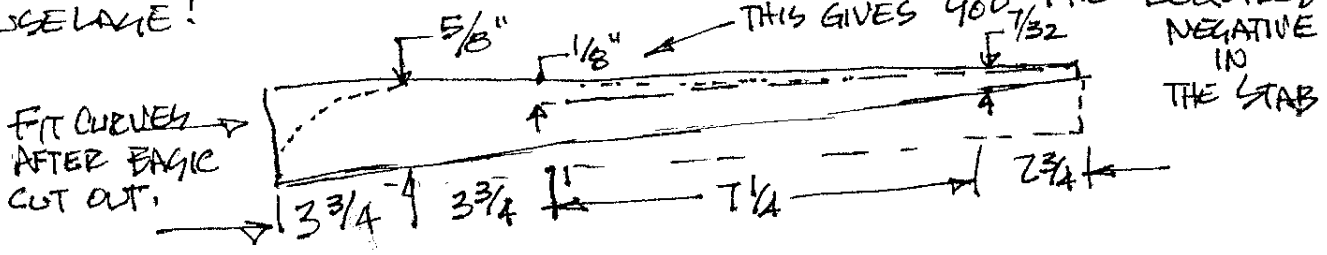
LAYOUT THE BLANKS AS FOLLOWS:

WING:



THE SMALL AMOUNT OF OVERAGE TO ALLOW A LITTLE ROOM TO MAKE DIHEDRAL JOINTS

FUSELAGE:

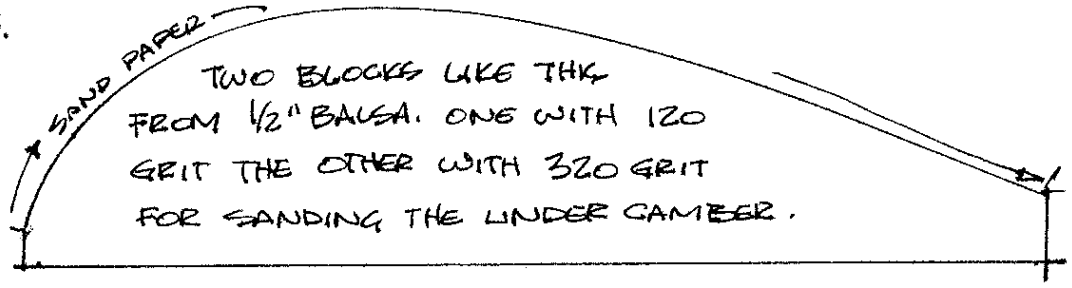


TEM JOHNSON 1995

CONSTRUCTION & FLYING SUGGESTIONS

TEM JOHNSON 2005

TOOLS

1. A FLAT, SMOOTH, HARD SURFACE TO WORK ON. I USE A 12"×24" PIECE OF GLASS.
2. SANDING BLOCKS FROM PINE - 1½" × ½" × 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 BALSA 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 ROLLERBALL 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 STICK REINFORCEMENT WITH THINNED & PLASTICIZED DUCO.
12. MAKE SURE THE WING TRAILING EDGES DON'T INTERFERE WITH EACH OTHER WHEN FLEXED. ADD THE PYLON.

FLYING

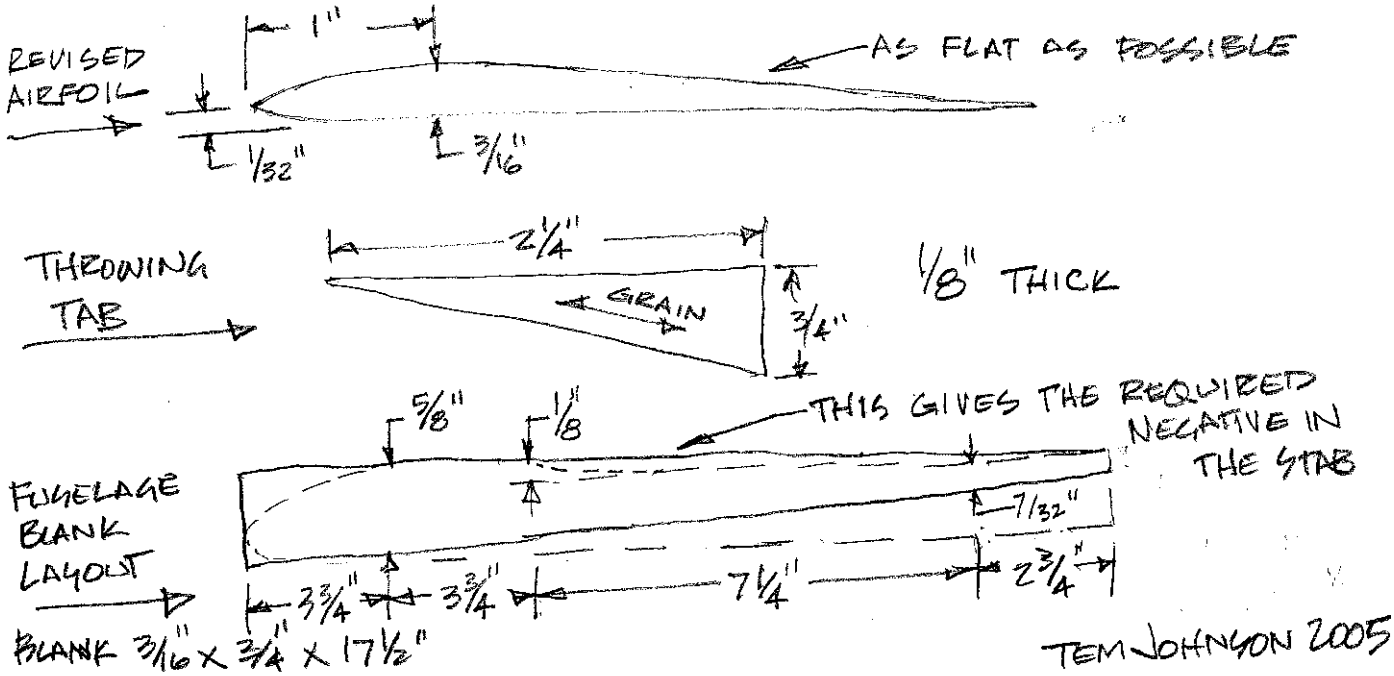
1. TAPE THE WING IN PLACE WITH MASKING TAPE.
2. ADJUST WING INCIDENCE BY SANDING BOTTOM OF THE PYLON.
3. USE A 7" → 8" LOOP OF 0.026" → 0.035" RUBBER FOR CATAPULT.
4. CATAPULT LAUNCH AT A NEAR VERTICAL ANGLE. BUNT CLIMBING PATTERN.

ON A BREEZY DAY A HAND-LAUNCHED GLIDER THAT PULLS OUT DOWN WIND WILL GO OUT OF SIGHT A LOT FASTER THAN ONE THAT PULLS OUT INTO THE WIND SO YOU WANT A PLANE THAT PULLS OUT INTO THE WIND. THE "BRONCO" WAS MY ANSWER TO THAT NEED.

THE FIRST CONTEST FOR THE "BRONCO" WAS THE SOUTHWESTERN CHAMPS AT DALLAS IN SEPTEMBER 1959. THE RESULT WAS 3RD PLACE. IN SIX SUBSEQUENT AMA SANCTIONED CONTESTS THROUGH 1962, IT ACCUMULATED THREE FIRSTS, TWO SECONDS, AND A FOURTH PLACE. AS I REMEMBER ONE OF THOSE FIRSTS WAS AT A TULSA GLUE DOBBERS ANNUAL AND A PLAN WAS LATER IN THEIR NEWSLETTER. SOMETIME EARLY IN 1963 I SENT THE PLAN OFF TO FRANK ZAIC AND IT APPEARED IN HIS "1964-65 MODEL AERONAUTIC YEAR BOOK."

LATER, WHEN JOHN KAUFMANN WROTE "FLYING HAND-LAUNCHED GLIDERS," THE "BRONCO" WAS ONE OF SEVEN RECOMMENDED DESIGNS. NFFS HAS REPRINTED THIS BOOK. IF YOU FLY HAND-LAUNCHED OR CATAPULT GLIDERS AND MISSED THE ORIGINAL EDITION, GET THE REPRINT. YOU SHOULD HAVE A COPY OF THIS BOOK.

I THINK THE DESIGN IS STILL VIABLE AS IT STANDS, BUT IF I WERE BUILDING IT TODAY I'D USE AN AIRFOIL WITH A RAISED ENTRY AS WAS USED ON THE FIRST "BRONCO" RATHER THAN THE FLAT BOTTOM FOIL USED LATER. I'D ALSO CHANGE THE SHAPE OF THE THROWING TAB TO MAKE IT STRONGER. GIVE STRONG CONSIDERATION TO ADDING A DETHERMALIZER. GOOD WOOD IS HARD TO GET.



TEM JOHNSON 2005