MORE INCREDIBLY BIZARRE HAPPENINGS IN

ONE AND ONLY!

THE HANGAR PILOT

BY AIR FROM MIAMI, FLORIDA USA

PUBLISHED EIGHT TIMES A YEAR $5 SUBSCRIPTION

FABULOUS ISSUE # 53
FEB/MAR 1979

THE MIAMI INDOOR AIRCRAFT MODEL ASSOC.

AMA CLUB 986

M.I.A.M.A.

THE ONLY ALL-INDOOR CLUB IN THE ACADEMY OF MODEL AERONAUTICS

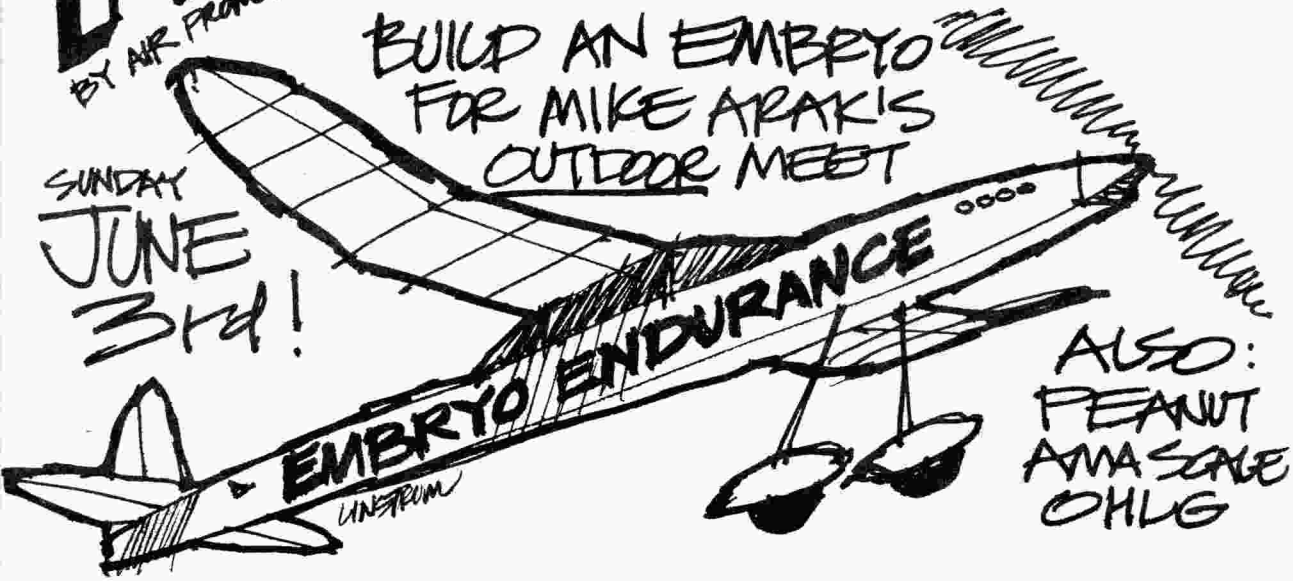
"WE FLY INDOORS IN THE SUNSHINE" IS OUR MOTTO

THIS MONTH'S FEATURE PEANUT:

FOKKER CVD BIPLANE
BY CARL HEDLEY

BUILD AN EMBRYO FOR MIKE ARAKIS OUTDOOR MEET

SUNDAY JUNE 3rd!



ALSO: PEANUT AMA SCALE OHLG

COMING EVENTS

CONFIRM BY PHONE 305·858·6363

INDOORS

MARCH 25 REGULAR MIAMA MEET OPA LOCKA
APRIL 28 (TENTATIVE) CAT I RECORD TRIALS COCONUT GROVE
APRIL 29 FAI INDOOR TEAM REGIONALS OPA LOCKA
MAY 27 LAST REGULAR INDOOR MIAMA MEET OPA LOCKA
JUNE 21-24 FNART RECORD TRIALS WEST BADEN, INDIANA

① FLYING SCHEDULE : CONFIRM! 305-858-6363!

SUNDAYS, MARCH 25, *APRIL 29, MAY 27

THINK FWRT - JUNE 21, 22, 23, 24 WEST BADEN, IND.

FOURTH NIMAS ANNUAL RECORD TRIALS - PLAN YOUR VACATION NOW

* APRIL 29 IS SOUTHEAST REGIONAL FID TEAM TRIALS

JUNE 3 ANNUAL OUTDOOR MEET - SEE COVER

BRING A PECK ROG ON MARCH 25TH ★

LINSTRUM'S "ONE DESIGN" EVENT

THE HANGAR PILOT Is published 8 times a season by Miami Indoor Aircraft Model Association, AMA Club 986, the only active all indoor club in USA, and also the only indoor club publication. For $5.00 a year you will get all 8 publications, and for $10.00 a year you get both the PILOT, and a membership in MIAMA, providing you are already an AMA member. For $1,000,000 we will send you the Blimp, ready to be inflated. We currently sponsor 8 monthly indoor meets at which members earn points toward annual awards. We also have fly-ins for learning, comraderie, and low pressure fun. We have a youth committee of BERNIE CLARK, MIKE ARAK, and DAVE LINSTRUM et. al. who run Delta Dart, and associated tyro events to encourage young builders in developing indoor skills. MIAMA and NIMAS (National Indoor Model Airplane Society) cO-sponsor the annual time trials in Northwood Institute in West Baden, Ind. We are indebted to the GOODYEAR TIRE & RUBBER CO. for letting us use their hangar at Opa Locka for our meets....So next time...BUY GOODYEAR!! MIAMA also sponsors the unofficial Manhattan event at the NATS each year, and has in the past sponsored both peanut scale, and Navy scale at the Nats since 1973.

EDITOR/PRES. John Martin ARTIST/ILLUSTRATOR/SECY Dave Linstrum
CHIEF SCRUTINEER Dan Kilgore ARCHIVEIST Terry Rimert
PROPERTIES & RETRIEVAL Jim Stewart PEANUTEER: CARL HEDLEY
Kindly send all comments, letters, contributions, and money to MIAMA, 3227 Darwin St. Coconut Grove, Miami, Fla 33133

MEET #4 - BATTLE of GLIDER & PEANUT ②

Despite the fact that meet #4 was held only 2 weeks after #3, there was a fine group of Hangar Pilots in attendance. It is gratifying to see so many flyers enjoying Goodyear's hospitality, and we want Maxine & Joe Nick to know how much we appreciate their "chaperoning" our meets.

More & more contestants are coming from distant towns. At meet #4 we had the usual out-of-county crowd and some new faces - Jim Black from Lauderdale, and Dale Elder from Orlando. Jim had some wild paper gliders and we will publish some of the designs next issue. Dale did well in glider.

With 3 meets to go almost all classes are still "up for grabs". A glance at the class standings will give you the idea. Peanut is all tied up, and glider has only a one point spread. All Junior events are wide open, and Manhattan, HL Stick, Paper Stick & Penny Plane are all in contention. The State Junior Championship is only tepidly contested by 5 Juniors with Jeff Everson in the lead. Bill & Jim Smead are battling defending glider champ John Arthur for the honors, and Jim Stewart & Carl Hedley are challanging long time peanut champ Doc Martin.

Dan Kilgore finally entered Manhattan with his 3 similar ships of different weights. His state record holder weighs almost 6 grams and is not his lightest Manhattan. All are similar to John Triolo's Lakehurst ship.

A first - Duke Donovan & Anne made a brief appearance. Next time bring a Peck R.O.G., Duke.

We were delighted to see Ernie Clark attending his first meet this season. As usual he spent so much time with the kids he never got to fly his Manhattan, but claimed he had more fun than anyone else there. Welcome back, Ern. SEE NEXT PAGE FOR MEET RESULTS -

HORSES:

AMA medals will be awarded as prizes at Mike's event - duly enscribed with a dental drill.

As long as we're divulging ceiling heights here are the WEST BADEN statistics: Bucky Servantes measured them several times and got: 96'10" to the top girders, and 94' 3" to the large round disc in the center of the dome. There had been some question as to whether Northwood was truly a CatII site (under 100') as some of the college literature mentions a dome height of over 100! We are happy to point out to one and all that the college brochures are in error. If you don't believe us - measure it yourself. We still feel this would be an excellent site for the 1980 World Champs.

If you haven't built your Peck ROG it can still be done in just one evening. Bring it to meet #5 on Sunday, March 25th and enter it in Dave Linstrums "one design" event. Prizes are honor, fame, & goodies. Build it strictly stock.

RESULTS OF MEET No. 4

FEB. 18, 1979

(3)

PEANUT SCALE:

1. John Martin (Baboon 24.7) 4pts., 1 looks, 3 flight - 74.5
2. Jim Stweart (Church 22.0) 6 pts., 2 looks, 4 flight - 63.0
3. Carl Hedley (Moustique 20.0) 7 pts, 6 looks, 1 flight - 104.5
4. Bill Smead (Pietenpol 21.5) 9 pts, 4 looks, 5 flight - 38.9
5. Mike Arak (Pietenpol 20.5) 11 pts., 5 looks, 6 flight - 34.7
6. Jim Smead (Ganagobie 17.2) 15 pts., 9 looks , 6 flight - 34.7
7. Dick Kelso (Mauboussin 18.5) 16 pts, 8 looks, 8 flight - 26.0

J. Martin (2nd entry) (Ford) 4 pts., 2 looks (22), 2 flite - 101.0

GLIDER:

1.	Bill Smead	(49.8) (51.7)	101.5
2.	Jim Smead	(43.1) (46.2)	89.3
3.	John Arthur	(40.6) (46.2)	86.8
4.	Dale Elder	(37.2) (40.4)	77.6
5.	Terry Rimert	(32.8) (42.4)	75.2
6.	Jim Stewart	(36.7)(37.0)	73.7
7.	Mike Arak	(30.0) (32.0)	62.0
8.	Ron Sharpton	(14.0)(31.7)	45.7

SCALE:

1. John Martin (LePere 70) 1:05.6
2. Dick Kelso (Taylorcraft 60) 25.0

PENNY:

1. Roman Szymula 9:36.6
2. Ron Sharpton 6:24.4
3. Jim Stewart 4:59.5
4. Bill Smead 3:50.2

JUNIOR:

1. Jeff Everson 7:01
2. Carl Linstrum 2:43

PAPER STICK:

1. Ron Sharpton 6:59.3
2. Jim Smead 4:07.4

MANHATTAN:

1. Dan Kilgore 3:56.5
2. John Martin 1:03
3. Walt Everson D.N.S.

1. Jeff Everson 2:06 (Junior)

EASY B:

1. Roman Szymula 9:33
2. Jim Stewart 7:32.5
3. Ron Sharpton 7:20
4. Carl Hedley 4:16.8
5. Walt Everson 3:40
6. Jim Smead 3:13

DELTA DART:

1. Nathan Miller 32
2. Cliff Shaw 31
3. Heather Arak 28
4. Pepper Doyle 25



NEXT ISSUE: "SAFE STORAGE FOR YOUR GOOD PIRELLI" BY BRINKS
ALSO A TREATISE ON "ALTERNATIVES TO A LIGHT AIRFRAME" BY DICK KELSO. AND "MAKING SILVER MICROLITE BEHAVE" BY THUMBS MARTIN.

MIAMA ANNUAL POINTS

OVERALL POINTS:

1. Jim Stewart 49
2. John Martin 36
3. Roman Szymula 32
4. Bill Smead 28
5. Jim Smead 26
6. John Arthur 21
6. Ron Sharpton 21
8. Carl Hedley 20
9. Mike Arak 19
10. Terry Rimert 12
11. Walt Everson 10
12. Jeff Everson 8 (Junior)
13. Nick DeCarlis 7
14. Dick Kelso 6
15. Blaine Miller 5
15. Dale Elder 5
17. Heather Arak 2 (Jr.)
18. Nathan Miller 2 (Jr.)
19. Lang Hiscock 2 (Jr.)
20. Harry Grogan 2
21. Charles Slater 2
22. Dan Kilgore 2
23. Kevin Smith 1
24. Carl Linstrum 1 (Jr.)

ANNUAL POINTS BY CLASS:

PEANUT:
1. Jim Stewart 21
2. John Martin 21
3. Carl Hedley 17
4. Mike Arak 13
5. Bill Smead 10
6. Nick DeCarlis 5
7. Jim Smead 5
8. Dick Kelso 3

GLIDER:
1. John Arthur 21
2. Bill Smead 20
3. Jim Smea d 15
4. Terry Rimert 12
5. Jim Stewart 11
6. Mike Arak 9
7. Ron Sharpton 7
8. Dale Elder 5
9. Blaine Miller 5
10. Harry Grogan 2
11. Nathan Miller 2 (Jr.)

SCALE:
1. John Martin 10
2. Dick Kelso 3
3. Nick DeCarlis 2
4. Charles Slater 2
5. Kevin Smith 1

EASY B:
1. Roman Szymula 18
2. Jim Stewart 13
3. Ron Sharpton 6
4. Jim Smead 5
5. Walt Everson 3
6. Carl Hedley 2
7. Charles Slater 2
8. John Martin 1

MANHATTAN:
1. John Martin 5
2. Walt Everson 4
3. Dan Kilgore 2
4. Carl Hedley 1

JR. PENNY:
1. Jeff Everson 4
2. Heather Arak 2
3. Lang Hiscock 2
4. Carl Linstrum 1

HL STICK:
1. Roman Szymula 2

PENNY PLANE:
1. Roman Szymula 9
2. Jim Stewart 5
3. Ron Sharpton 4
4. Walt Everson 3
5. Bill Smead 2

PAPER STICK:
1. Jim Smead 3
2. Roman Szymula 2
3. Ron Sharpton 2

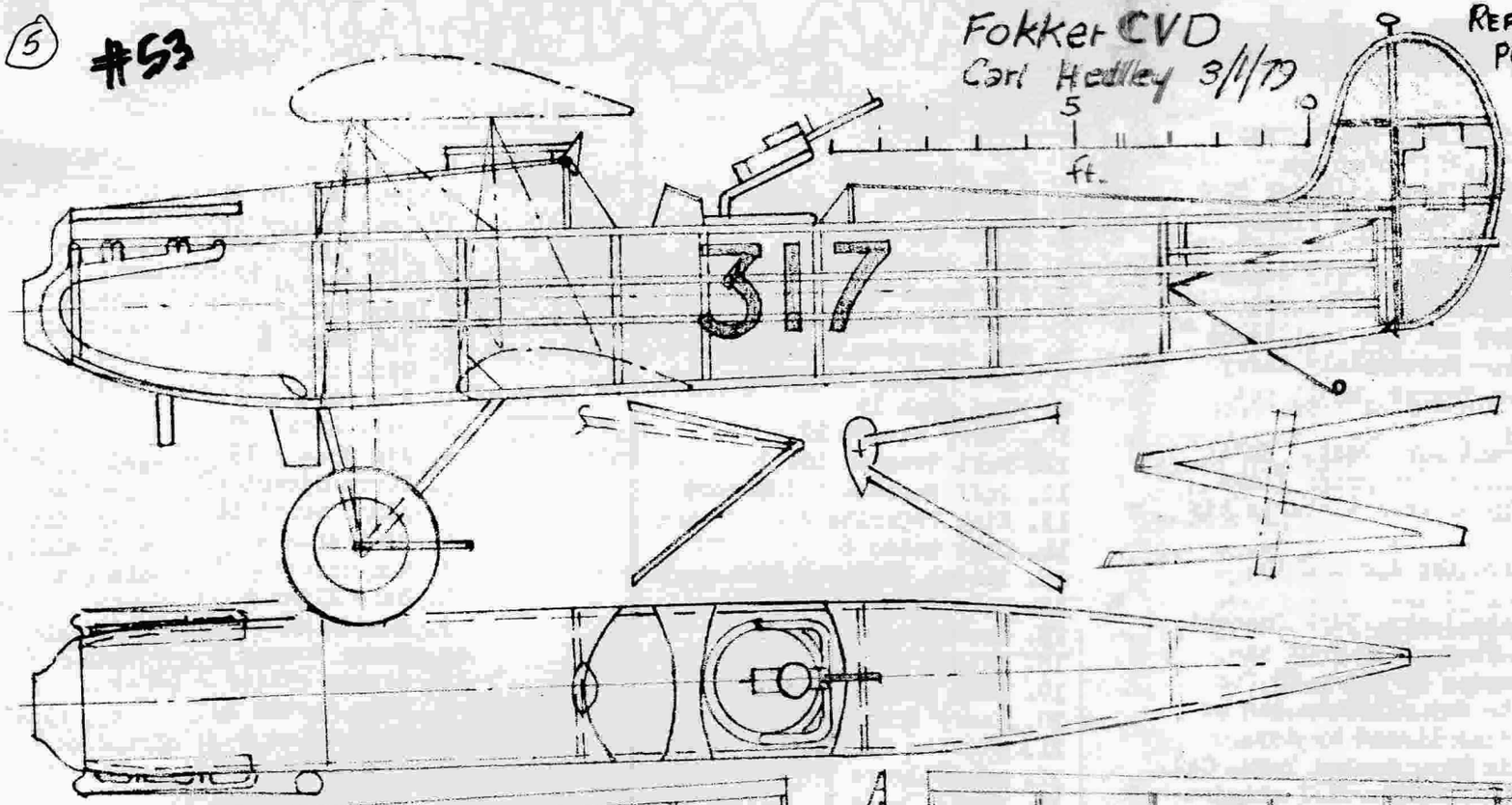
3 MEETS REMAIN IN 1978/79 SEASON

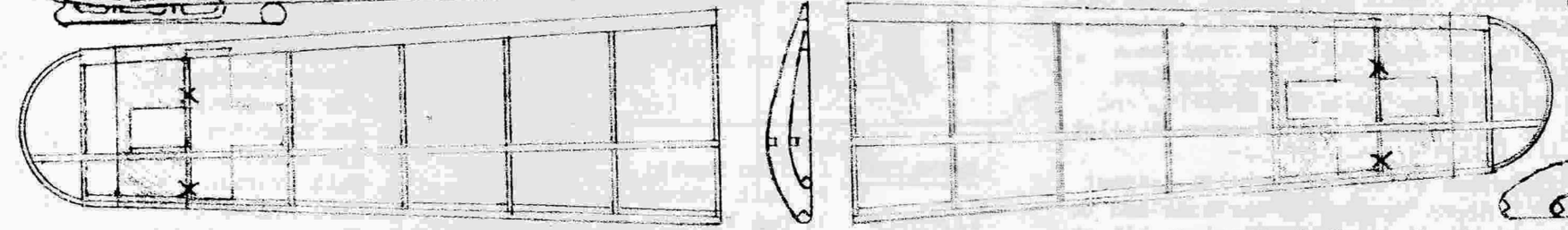
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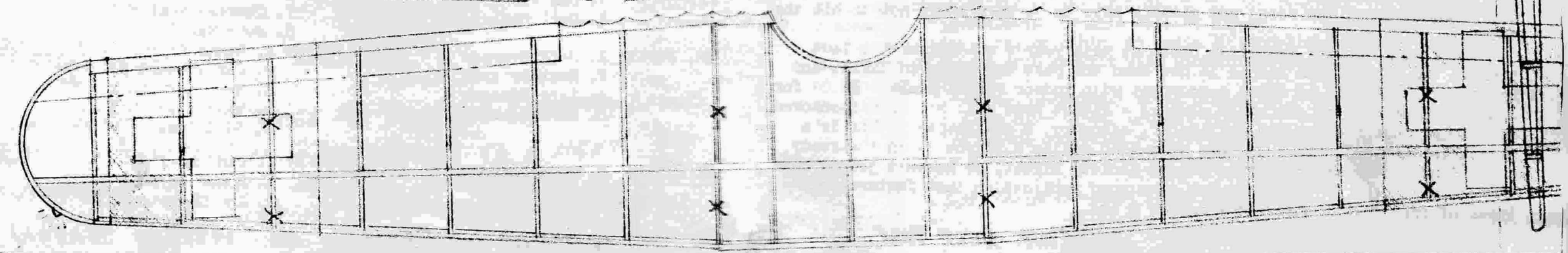
Fokker CVD
Carl Hedley 3/1/79

5
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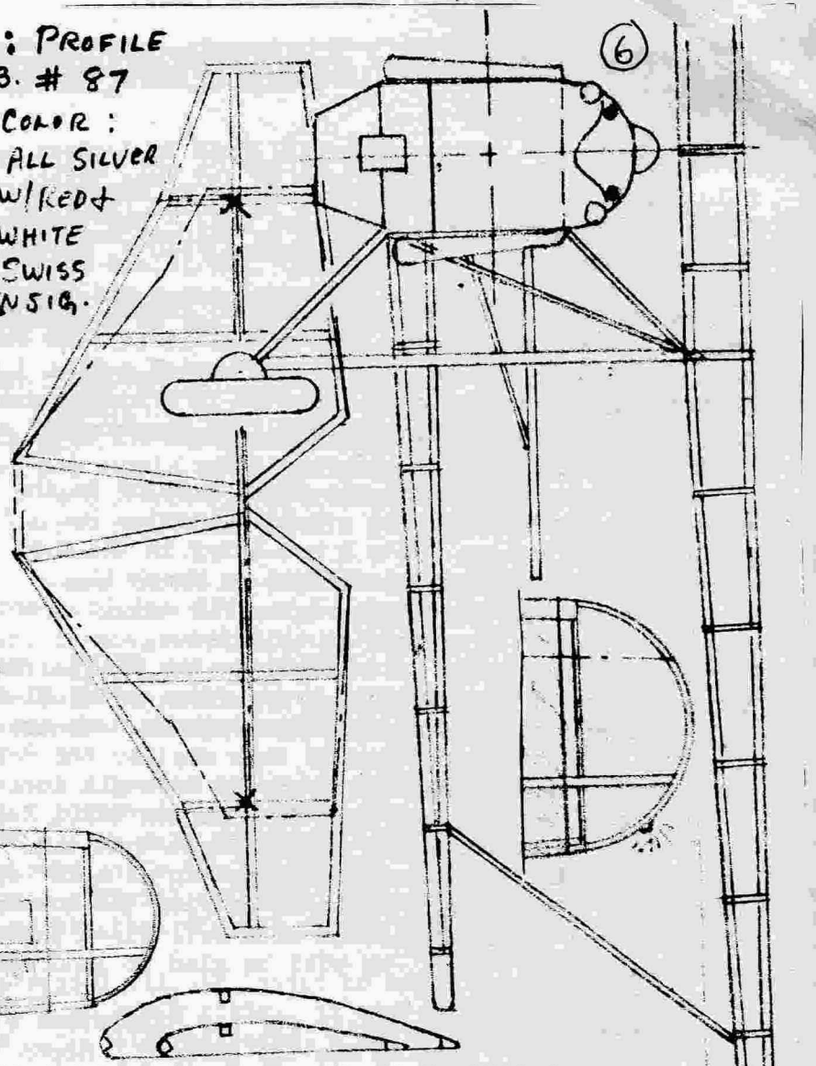
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(6)



① FROM THE HORSES MOUTH & OTHER ORIFICES

From Bryton Barron comes notice of the ARVIDA FREE-FLIGHT MEET. The Gold Coast Free flight club is having an event April 21,22, on an AMA Class III site - Howard Hemminger C.D. - For information send stamped, self addressed envelope to B. Barron 7710 N. W. 8th St., Pembroke Pines, Fla. 33024.

Terry Rimert brought STATE RECORD AWARDS to the last meet. All state record holders who do not have one of these fine certificates of record - come to meet #5 and get yours. He wanted a MO-1 3 view and the last issue of Model Aviation had one. Only it is a little small. Fortunately Terry has the equipment to blow it up - How about a 13" span Terry? We'll put it in the next Pilot.

Dave Hagen is keeping the flame burning in the great Northwest. He'll be sending his area record - holding novice Penny Plane to be proxy flown at one of our meets. He's a new entry in the U.S. F1D program & starts his quest for a team berth at Moffett on March 11.

MIAMA has the southeast region F1D trials scheduled for April 29th. See announcement elsewhere in this issue.

We have had a lot of intesest in the FNART. Dennis Jacks, Dick Obarski, Larry Loucka et al. The dates are firm: June 21 to 24 so plan your vacation around this four day indoor circus. We are trying to get a CD for the FAI team trials portion of this meet so the day to day schedule can be announced - next Hangar Pilot should have all activities listed by day.

We received a letter from Ken Johnson 22701 Enadia Way, Canoga Park, Cal. 91303, who described a new indoor event that the FLIGHTMASTERS WEST originated, called AR XX. It can be summed up as a 20" span old timer replica "Manhattan" Type event. With 18 entries the concept proved very popular. Ken provided the Hangar Pilot with full sized plans for a 20" SPARKY", and a set of air XX rules. We will be glad to lend them to any interested pilot. It's worth trying.

We have had many requests for the dimensions of our hangar. It is just less than 70 feet high to the top girders. Ropes hanging on the side add to the "tightness" of the site, and gliders have to be very lucky not to hit the sides.

MIAMA will sponsor Manhattan Cabin at this year's nat's (for the last time if the field is as bad as it has been the past two years in Calif. and Louisiana.) It will be flown concurrent with indoor rubber scale - $2.00 for entries, (1.00 if you are aNFFS member) - Please note that NFFS has sponsored unofficial indoor events in Helicopter, autogyro, & ornithopter. This is a 51 ft. catagory II site. And one more NFFS notice - if you haven't already subscribed to the National Free Flight Society Digest, or haven't joined the NFFS - do it now! 12 issues a year of a good publication that features all types of free flight aircraft - indoor & out.

CONT. NEXT PAGE

Mike Arak will be CD at a revival of MIAMA'S annual outdoor all scale meet. It used to be an "all scale" meet but no more. It is a small field FF meet and will be held on the first Sunday in June, probably right next to the Goodyear Hangar in Opalocka, but perhaps at F.I.U. Campus . Events at Mikes outdoor event will be Peanut Scale, H.L. Glider, Rubber scale and Embryo Endurance. The last event has never been held in Fla. It is a small field endurance event promoted by the Flying Aces Club. Here are the rules:

FLYING ACES EMBRYO ENDURANCE

INTENT:

This event is intended to give the designer/builder a chance to fly in competition a sporty looking, yet simple model reminiscent of the Jimmie Allen Thunderbolt, Flying Aces Moth, Triangle Sportster, and Comet C-1 Pursuit of years ago. These were the fun to fly little jobs many of us were weaned on.

1. Monoplanes: Not over 50 square inches of useful wing area.
   Biplanes: Not over 70 square inches of useful wing area with no one wing larger than 45 square inches.
2. Lifting stabilizers permitted, not to exceed 50% wing area.
3. Wing and stabilizer to be built up and covered both sides with tissue. No microfilm, or condenser paper allowed. Rudders may be built up, or all sheet balsa.
4. Fuselage to be built in such a manner as to have part of it contain a theoretical cube $1\frac{1}{4}$ x $1\frac{1}{2}$ x 3 inches, or larger.
5. Landing gear must consist of two main wheels of at least 3/4 inch dia.
6. Model must R.O.G. from a card table top unassisted, from a three point rest.
7. Four attempts to make three official flights. Once model leaves table and attains an altitude higher than the top of the table, flight is automatically official.
8. Highest total of three official flights, added to bonus seconds using table below, wins. Fly-off to break a tie. As many Embryo Endurance models are easily fitted with dethermalizers, a two minute maximum flight time suggested, at the option of C.Ds.
9. A bonus for the following details will be given;
   a. 5 seconds for a raised cabin, at least 30° windshield slant.
   b. 5 seconds for an open cockpit with windshield, headrest, and actual hole in fuselage.
   c. 3 points for three dimensional wheel pants.
   d. 1 point for three dimensional exhaust pipes.

If all the above is too confusing - Jetco makes an EAGLET embryo, and Peck Polymers makes a 16" span "PRARIE BIRD" both in kit form & both good flyers.

CONTINUED - BOTTOM OF PAGE 2

Laminate Tips . 2-.020 x .050 Soft

Plans Half Size

"MICROLITE" Covered

Center bays only
No Rib

WING OFFSET 7/8"

WOOD SIZES:
.040 x .065" - Spars
~~.030 x .040~~ Tips
.040 x .050 - Ribs

Rubber:
.095" - .100" x 18"
- 22" long

6% "ARC" Airfoil -
(10 3/8" Radius)

Teflon Washers (2)

Epoxy

3/32" Hard "S" Hook

50% CG

1/16" Rounded Ports

3/16 x 1/4" MOTOR STICK Fairly Hard Stock - ~~twisting Stock~~ Under full winds, Upsets Wing Trim.

1/8" x 3/16" BOOM

NO Downthrust 2-3° Left

1/4" Clearance to prevent Knots Rubbing

Rolled Tissue Tubes

.020" Wire - Prop hook also

1/32" Sheet

FORM ON 1 GAL. JUG AT 7°
(17°)
"BANKS" 12" dia x 22" Pitch

1 gallon jug
17°
APPLE JUICE

45° @ 3.5" Radius

NOT TO SCALE

Brace .050 x .062"

Rear View

WOOD SIZES:
.030 x .040

1/2" Tilt

Boom Tilted 1/4" UP, Plus
3/4" to Left

Trim for tighter Circles at Albany by adding fin offset

4 7/8" "Simplex" airfoil
Reversed

Weights:
Wing - .025-.028 oz
Prop - .025 oz
Fuse., etc .060 oz
Total .113 oz (3.2 grams)

Adjustments:
1/8" Washin left wing
1/8" Washin left Stab

Trailing e. ~~Outline .040 x .050~~
Ribs .040 x .050

WOOD SIZES:
Leading edge - 5-6 lb AB Grain
- 6-6 lb C Grain

Leading e - .020 x .050

(44%)

(4%)

PENNY WALKER
Novice Pennyplane 10/6/77

by Dave Hagen
19957 S. Redland Rd
Oregon City, OR 97045

