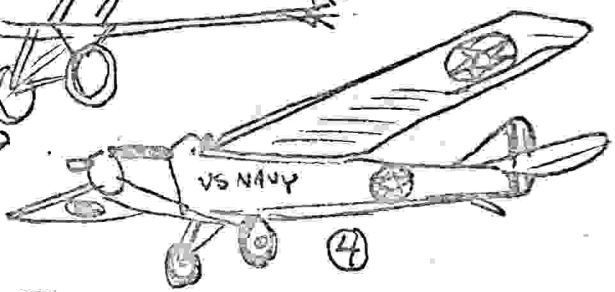
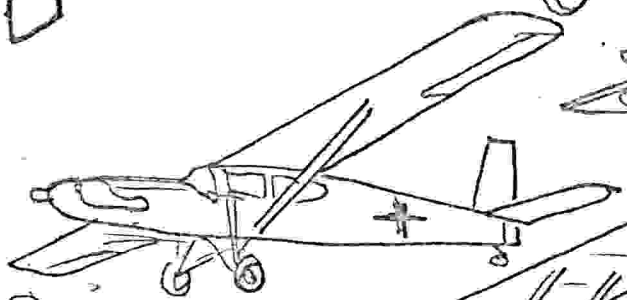
THE HANGAR PILOT

ISSUE # 36
DECEMBER 1976
AMA CLUB 986
M.I.A.M.A.





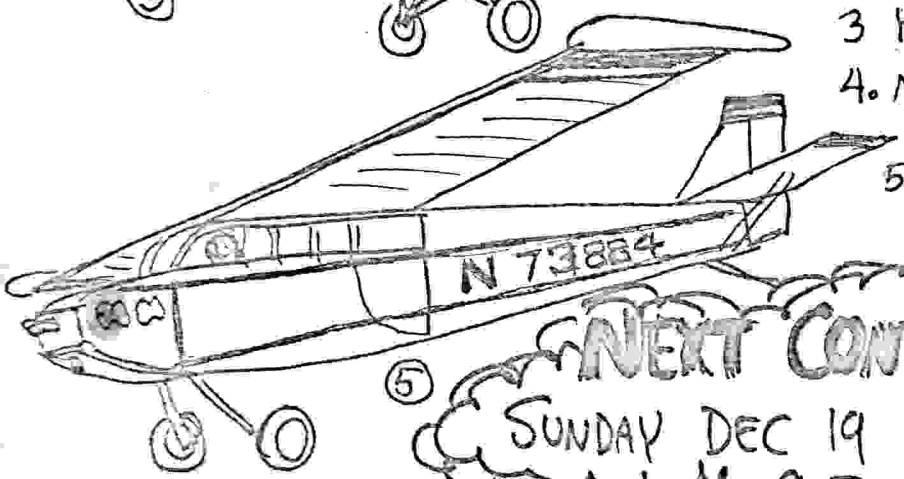






FAMOUS PEANUTS:

1. STOTT'S WATERMAN RACER
2. HANNAN'S PILATUS PORTER
3. HANNAN'S SKYROCKET
4. MARTIN'S MO-1
5. WARNER & HADLAND'S LACEY M-10



NEXT CONTEST:

SUNDAY DEC 19 OPA-LOCKA
9 TO 5

THE HANGAR PILOT is published by Miami Indoor Aircraft Model Assoc. AMA Club *986, the only active all-indoor club in the USA. Editor Pres. Dr. John Martin 3227 Darwin St. Miami Fla Miami 33133. Secretary/treas. Jim Whelan 8830 Sunset Dr. Apt. B-305 33173. PUBLISHER...ALAN MCADAM

INDOOR CONTESTS: SUNDAYS 9 to 5

Goodyear Hangar, Opa Locka AMA SANCTIONED CLASS A, CAT II For Scale, Peanut Scale (MIAMA rules) EZB, Penny Plane , HL Stick, Paper Stick, Manhattan Cabin, HL glider.

IN 1977

Dec 19 Contest Director Roman Szymula

Jan 16 Contest Director John Martin

Feb 20 Contest Director Jim Whelan

March 20 Contest Director Roman Szymula

April 24 Contest Director John Martin

May 22 Contest Director Jim Whelan



INDOOR IS NOT FOR MR. AVERAGE

NEXT FUN FLY IN MONDAY NITE JAN 3 1977

FROM 6 TO 10 PM AT YOUTH FAIR ON 109AV & CORAL WAY - FIU COLLEGE GROUNDS CAT I SITE.

FUTURE FLY INS - IN JEOPORDY - WHERE ?

REMEMBER TO CONFIRM CONTEST DATES BY CALLING 858-6363 — THERE ARE LAST MINUTE CHANGES.

MERRY CHRISTMAS & HAPPY NEW YEAR FROM MIAMA !

CONTEST #2

It was a crummy day for indoor flying at the Goodyear hangar on Sun. Nov. 21, but it was even worse outside with gale winds and rain squalls all day long. It is usual to have many rubber motors break in the high heat and humidity of Florida flying,but on this day the motors did not break, they just did not take their planes over one half way up the hangar. More power was needed to get the job done in the cool and drafty hangar. It took .6&0 to do what .6&0 would do on a "normal" day. We are learning..or are we? All times were less than we expect. It was nice to see some new faces at meet #2, and nice to see more wifes coming out!! We hope things never get too boring for the family. The ARAKs were out in force and HEATHER ARAK won a second place red ribbon at her first ever indoor to meetwith a nice 41 second flight in Penny Plane, and really had Allen Horsey worried in the event. His big, microlite biplane was going NOWHERE until he converted it into a monoplane and nosed out E Heather for 1st place. Her dad, Mike, found the going a bit tough in indoor glider competition and finished 4th in a field of 5. Mike is a tough competitor in outdoor HLG and will not easily be put off. Mike's FIVE E looked and flew great in Peanut Scale, but the lack of 3-views hurt his static score. Dan Kilgore built a beautiful new FIVE also. ANYONE WITH THIS PLANE'S 3-VIEWS PLEASE SEND to us and we will put 'em in the "Pilot" for all to use. HELP! Dan Kilgore also had a Bristol Scout biplane which he flew to 5th in Peanut. DICK KELSO made his best showing in both scale and peanut with two third place finishes. BILL HISCOCK discovered some "great" new lightweight tissue and re-covered the DH-4 that did so well last meet with it. I think it was either BOUNTY or Scott Towel because it absorbed 4 times its weight in water before one hour was up. The DH-4 flew like a sponge. Sam Billy was a little annoyed 'cause dad talked him into covering his EZB with this stuff. Martin had a new scale/peanut in his Weymann-Lepere WEL 10 French observation plane. Of course we are all very familiar with this ship. (They never heard of it in France). The only ship that did better than before was Charles Slater's 14 Bis which set a new Senior Florida record in scale with a flight of 1:12.5. Good thing he isn't in open class or he'd have won that too. ROMAN SZYMULA continued to murder the competition in the endurance events, and got his foot in the door in glider with a third.

FLY IN ..... FLY IN .....

THE first Monday night FUN FLY IN at the YOUTH FAIR on Mon night Dec6th from 6 to 10 PM was less than a roaring success. I regret to report that the same old bunch showed up, had a great time, justified the expenditure of $16.00 in MIAMA funds, and raised the same old question..... WHERE THE HELL WERE YOU ????

NEXT FLY IN (AND MAYBE LAST) MON JAN 3 YOUTH FAIR 6-10

RESULTS OF CONTEST #2 (CONT.) (3)

DUKE DONOVAN gave a demonstration of what can be expected from the new British TELKO CO2 motor as he flew an original design model especially built for the motor. We suggest you get them from your local hobby shops because they cost less here than in England where they are made!! In the DECEMBER issue of AERO MODELLER, UK MIAMA member BUTCH HADLAND has full size plans for his LACEY M-10, and the WITTMAN TAILWIND... Two great Peanuts.

RESULTS OF CONTEST NUMBER TWO [31 entries] JIM WHELAN CONTEST DIRECTOR

PEANUT SCALE:

1. John Martin 3 points (Weymann-Lepere 27.5) 2 static, 1 flight 82.0
2. Al McAdam 4 points (Waco SRE 30.0) 1 static, 3 flight 46.5
3. DIck Kelso 8 pts. (Waco SRE 27.5) 2 static, 6 flight 22.5
4. Dan Kilgore 9 points (Bristol Scout 25.4) 4 static, 5 flight 36.8
5. Jim Stewart 9 points (Nord 853S 12.0) 7 static, 2 flight 81.3
6. Mike Arak 10 pts. (FIKE E 21) 6 Static, 4 flight 42.3
7. Bill Hiscock 12 Pts. (DH-4 24.5) 5 static, 7 flight .08

The static score for the peanuts is in the parenthesis after the name of the plane.... the flight time is the total of two best flights of 9.

SCALE:

1. John Martin (Weymann-Lepere WEL 10) 87 static, 50 flight 137.0
2. Alan McAdam (Waco SRE) 92 Static, 22 flight 114.0
3. Dick Kelso (Acroduster bipe) 85 static , 05 flight 90.0
4. Bill Hiscock (DH-4) 64 static, 09 flight 73.0
4. Mike Arak (Fike E) 67 static, 06 flight 73.0
SENIOR 1. Charles Slater (14 BIS) 87 Static, flight 1:12.5 159.5 ☆

EASY B: 1. Roman Szymula (4) 7:42.2
2. Jim Stewart 7:06
3. Al McAdam 5:18.3
4. Mike Arak 14.0
SENIOR 1. Allen Honey .37

GLIDER: 1. John Arthur (43.6)(41.2)
2. Jim Stewart (32.5)(31.1)
3. Roman Szymula (34.1)(26.8) (2)
4. Mike Arak (27.6)(26.4)
Jr/Sr 1. John Arthur Jr: (26.0)(25.0)

Penny Plane: 1. Roman Szymula 6:12.4 (1)
Jr/Sr : 1. Allen Honey 1:07.7
2. Heather Arak :41.2

HL Stick 1. Roman Szymula 7:33.6 (1)
Allen Honey..No flite

Paper Stik: 1. Jim Stewart 9:02.2
2. Roman Szymula 7:34.8 (1)

MANHATTAN 1. John Martin 3:35.5
2. Kevin Smith 2:33.3

☆ = NEW STATE RECORD

936 RC CLUBS + TWO (2) INDOOR:

INDOOR IS NOT 'BOWLING FOR DOLLARS'

I'LL TAKE MANHATTAN



I'll start with a quote from Ed Whitten who dreamed up this event: "I think the Miami club's rules came fairly close to the original Manhattan Formula intent... a model somewhere between indoor cabin and flying scale... a strictly indoor cabin indurance model that would have a definite fuselage with a very modest amount of scale appearance and none of the scale judging and rules squabbles. Although Manhattan was considered a possible entree to indoor flying, at no time has it ever been considered a beginners event."

We like the compliments, and ,as mentioned last issue, we have received many comments on the rules. At a club meeting recently we decided to continue the same rules for at least another season without any change except for clarification. We want to see what type of model will emerge, and eventually dominate the event. As yet no design trend is evident, and there is certainly enough innovation to keep things from getting stereotyped. So BACK TO THE DRAWING BOARDS.

M.I.A.M.A. MANHATTAN FORMULA RULES. OFFICIAL FOR 1977 NATS/West Baden

Airframe weight, less rubber....Minimum four (4) grams.

Overall length...20 inch max. Measured from front of prop bearing aft.

Fuselage..(a) Must support and enclose a single rubber motor. No motor sticks.

(b)Must include or exceed a "box" $2\frac{1}{2}$" x 4" x 2". No diamond shapes.

(c)Must have a windshield of 2 square inches min. area, and a window on each side of one sq. in. min. area covered with cellophane or similar material.

Prop: Solid wood, direct drive, fixed pitch.

Wing: Unbraced monoplane with 4" max. chord, and max span of 20",projected.

Stab: 8" max. span projected, max. chord..$3\frac{1}{2}$".

Landing gear: Rigid and fixed with at least two wheels of 1" min. diam. Must be able to support plane.

Flying: All flights R.O.G. unlimited attempts to record 5 flights. Flights less than 20 seconds are attempts. Best flight counts.

Covering: Except for windshield and windows...Paper covering. No film or microlite

DAN KILGORE LUCKY LINDY TROPHY - ON MAY 22 AT OUR LAST CONTEST DAN IS PROVIDING A TROPHY TO THE BEST PEANUT REPLICA OF LINDBURGH'S RYAN NYP IN COMMEMORATION OF THE 50TH ANNIVERSARY OF HIS FLIGHT.

MIAMA RULES

POSTAL CONTESTS - FIVE OF THEM!



And this is not counting the NIMAS indoor postal events, or the upcoming Proxy Peanut contest of Model Builder.

(1) Is the annual FLYING ACES indoor/outdoor postal for peanut and No-cal scale jobs. I have not seen any NO-cal in this area. They are merely profile scale models. The details are simple.. just fly anytime you want and send in the following : Name and age, type plane and class, Date of flight. Also turn in your times anytime you better a performance from now UNTIL MARCH 15 1977. Send to: FLYING ACES CLUB GHQ 66 BANKSIDE ST. BRIDGEPORT, CONN. 06606

(2-5) Ed Whitten, originator of the Manhattan formula, is probably best known for his efforts to promote Junior activities, and his son Richard Nordiga a Senior, has a whole passle of records in the AMA book. The following contests are FOR FLYERS UP TO FIFTEEN YEARS OF AGE. So come, on you MIAMA Juniors, and support Ed's contests, and get your name in his STAR SKIPPERS magazine, which will be sent to you when you enter.

HEY, JUNIORS!

Here they are, folks...an outdoor MAXI, then 2 JUNIOR INDOOR, then another outdoor MAXI next spring...all for our young modeling friends 15 years old and younger.

November/December 1976 "Bicentennial" MAXI

4 Events: H.L. Glider, AMA Unlimited Rubber, Tow Line Glider, and R.O.G Profile Scale. Best 4 of 10 flights. 3 minute maxes. Glider and Scale can be flown indoors AMA Cubs and Delta Darts (and similar heavy stock kit beginner models) can be flown indoors in Unlimited Rubber.

January/February 1977 "Winter Fun" JR. INDOOR

4 Events: H.L. Glider, AMA H.L. Stick (all types combined), AMA Class "A" Stick R.O.G., PLUS... PLUS... New York R.O.G Peanut Scale. This last is a new event for us. Peanut is so popular, we just have to include it. We call it 'New York ROG Peanut' (for want of a better name), merely to indicate that, while ALL Peanut Scale jobs are eligible (13" max wingspan), there is NO scale judging and ALL flights must be R.O.G.

Jr. Indoor rules allow as many flights as wanted. Best two times for glider; best single time for the other events. Flying limited to halls with 50 foot or lower ceilings, with times fudged to 35 feet.

March/April 1977 "Super Star" JR. INDOOR

4 events same as Jan/Feb.

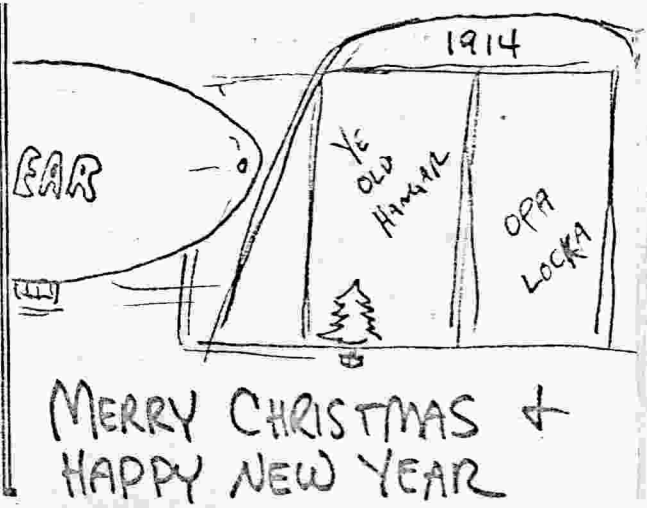
May/June 1977 "Spring-Is-Sprung" MAXI

4 events same as Nov/Dec.

That looks like a good set-up to us! We hope a lot of groups and single flyers will enter. We'll try real hard to get STAR SKIPPERS out promptly with the results. With Richard now away at school and unable to carry on as co-editor, we had to make a decision this summer whether or not to continue. At this summer's Nats we received adequate encouragement....so, let's get 'em up in the air.

STAR SKIPPERS is published as often as possible. It is th official newsletter of the Mini-Maxi and Jr. Indoor Postal Contests of National Free Flight Society. STAR Skippers i the voice of Junior aeromodelers everywhere. Entrants to Postals each receive a complimentary copy of STAR SKIPPERS listing their efforts.

STAR SKIPPERS is sponsored by Whitten Products Co., P. O. Box 176, W Street Station, New York, N. Y. 10005. Your support of Junior aeromodelling and the N.F.F.S. Postal Contests is solicitated by asking to subscribe to STAR SKIPPERS; $3.00 for 8 issues, which includes $1 for first class postage. Thanks.

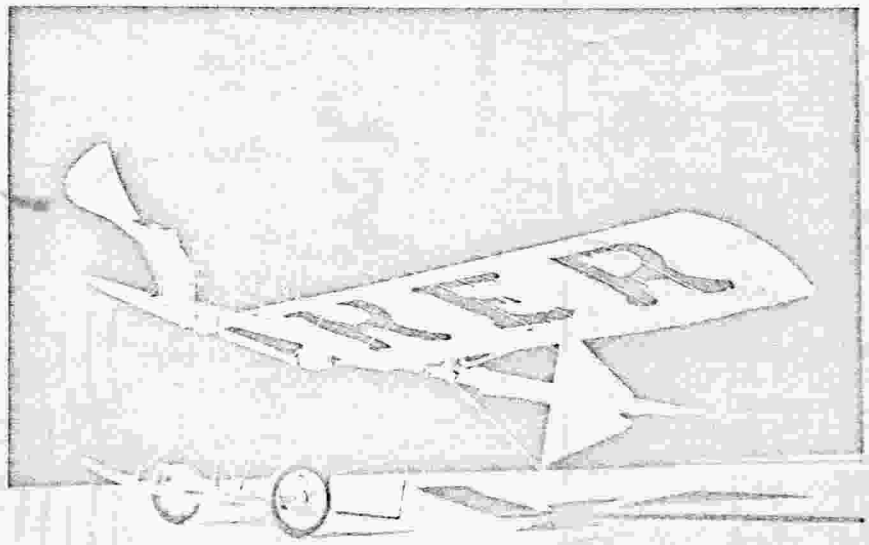


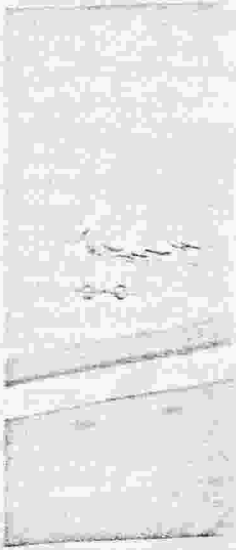


Left: Actual photo, Unretouched, of a citizen being attacked by a rabid peanut. Victim survived.

Below: Fulton Hungerford's Fokker Spyder Peanut. Very stable with swept back wings. Short motor run.

HISTORY FOR SALE:
In Washington the National Air + Space Museum has restored: The first non stop Transcontinental flyer - a FOKKER T-2. The original fabric is mounted on a beautiful poster for $12.00. The same type of poster WITH ORIGINAL FABRIC is also available of the NC-4 + Douglas World Cruiser $25
SMITHSONIAN INSTITUTION, WASH. D.C. 20560





TI RIGHT CLICK
ROOF - TITUSVILLE
FLA.

HOW MANY TURNS? (7)

here on back page of your PILOT
re you can cut it off and glue it in
r field kit is a chart showing the
ber of turns per inch that your motor
hould" take with good Pirelli. Sig
ubber should take even more. We owe
debt of thanks to Model Airplane News
o published it, and to Chicago's
arlie Sotich who figured it all out.
f you blow the tissue on your scale
ob, blame Charlie who likes to pack in
e turns.

pproximate eqivilants in inches:
.040 is 1/25" or 1 mm
.060 is 1/16" or 1½ mm
.090 is 3/32"
.125 is standard old 1/8"

STRAND PIRELLI MOTORS

IZE	WEIGHT	TURNS PER INCH	TORQUE
020	0.00092	210.0	0.150
.030	0.00138	171.5	0.276
040 —	0.00184	148.5	0.424
0.050	0.00230	132.8	0.593
0.060 —	0.00276	121.2	0.779
0.070 - 8	0.00322	112.2	0.982
0.080 - 2mm -	0.00368	105.0	1.200
0.090 —	0.00414	99.0	1.432
0.100	0.00460	93.9	1.677
0.110	0.00506	89.5	1.935
0.120 —	0.00552	85.7	2.205
0.130	0.00598	82.4	2.486
140	0.00644	79.4	2.778
150	0.00690	76.7	3.081
160	0.00736	74.2	3.394
0.170	0.00782	72.0	3.717
0.180 - 3/16" -	0.00828	70.0	4.050
0.190	0.00874	68.1	4.392
0.200	0.00920	66.4	4.743
210	0.00966	64.8	5.104
220	0.01012	63.3	5.472
230	0.01058	61.9	5.850
240 - 1/4" —	0.01104	60.6	6.235
250	0.01150	59.4	6.629
260	0.01196	58.2	7.031
270	0.01242	57.2	7.440
280	0.01288	56.1	7.857
290	0.01334	55.1	8.282
300	0.01380	54.2	8.714

Jim Rice
7545 S.W. 31st St.
Miami, Fla. 33155