UNFLAPPABLE

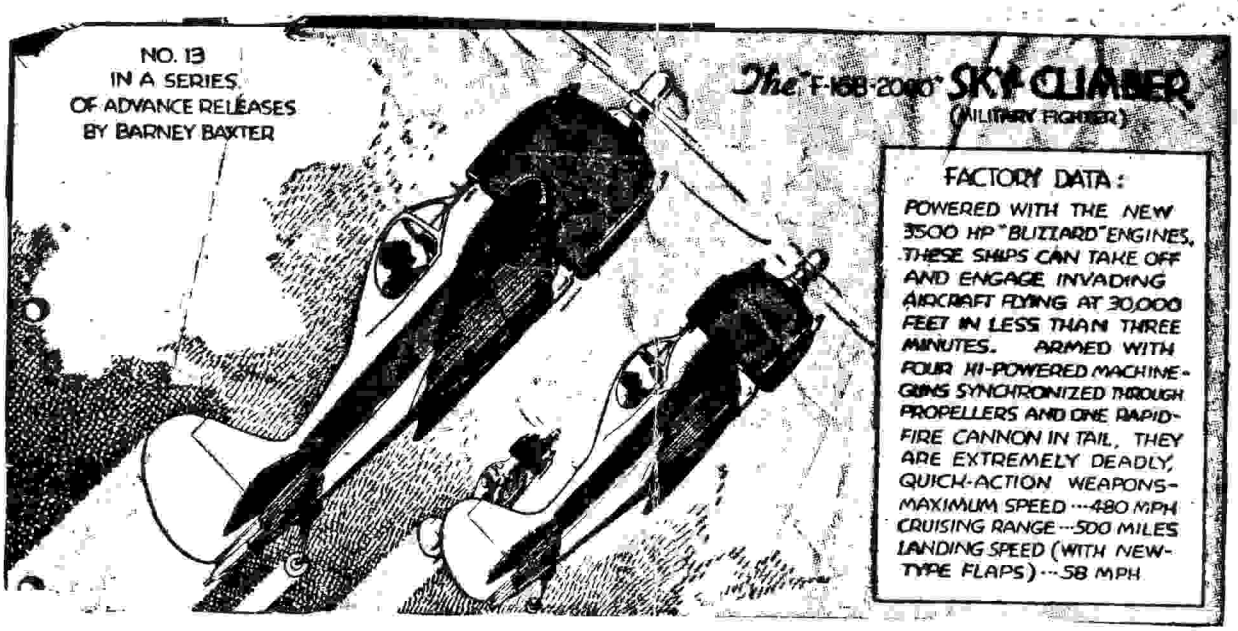
THE HANGAR PILOT

21ST YEAR OF PUBLICATION-
ENTERIAS NON ES
OMNIBUS

MIAMI INDOOR AIRCRAFT MODEL ASSOCIATION
MIAMA

ISSUE 146

- RESULTS USCG MIAMA MEET 4
- LONGSTER + LOENING KITTEN
- BUILDING WITH FOAM - TONY PETERS



NEXT MEET

MIAMA INDOOR MEET #5
MACDILL AFB 9 TO 5
FEB 22-23 TAMPA, FL. MODERN MASS LAUNCH

NEXT LOCAL EVENT. FUNFLY, MARCH 8 MIAMI DADE S. COLLEGE 9 TO ?



"LIKE A LETTER FROM HOME" - Whelan

THE HANGER PILOT

The Hanger Pilot, edited by John Martin Jr., who is solely responsible for its content, is published 8 or 9 times a season for bunch of middle aged guys who refuse to grow up. MIAMA (Miami Indoor Aircraft Model Association) - AMA club 986. One of two active all indoor free flight clubs in AMA. For a mere $12.50 you will receive all of the published issues that year. We encourage reader contributions because, frankly, we need the material. Letters, plans, j-views, complaints, gripes and compliments to: Dr.John Martin Jr., President / Editor, 2180 Tigertail Ave., Miami, FL 33133 USA. phone: 305-858-6363.

THE MIAMA / COAST GUARD MEET #4 CAT II
C.D. DICK OBARSKI JAN 25,26 1992

A very cool week end at the Coast Guard Station in St. Pete, a good turn out of flyers, and a lot of interested spectators, both USCG and civil, and 4 new state records. We experienced the usual very fine treatment by all the Guardsmen, including many who had never seen indoor models before. We especially want to thank Ensign Jeff McCullars and his family who really went out of their way to make us welcome...he even shot at least an Hour of Video. Lotsa favorable comment. We hope we didn't disrupt their changing of command for the reserve USCG on Sunday.. we proceeded with the meet while they held their ceremony and party. During the commander's speech, Obarski blew up a huge hydrogen balloon he was filling. BOOM!... I'm afraid this WAS just a bit distracting...appologies,guys.

I'm telling you,pilots,it's harder to win a first at a MIAMA meet than the indoor part of recent AMA"combined Nats." Wayne Trivin set 3 Fla.State records in Cat.II..all held previously by him! New kids on the block: Rich MacEntee was back after an absence of over a year. Jake Larson got points on the board with three great looking peanuts that lacked documentation.. This was John LeBlanc's first meet since movin' from Miami. John Voorhees from Ohio, and John Barker from Georgia were our out of state entries with Voorhees setting a new state record in NO-CAL. In the FAC mass launch, Millard Wells prevailed with his Huntington H-12, doing a fine

A MIAMA SCOOP! A NEW COVERING:
THE ULTIMATE INDOOR FILM

This is the thinnest mylar film produced to date. Compared to Ultra Film it is, on the average, 25% thinner and 23% lighter[1], yet, it is easier to handle and it does not display as much static electricity cling.

[1] Tests were conducted using precalibrated digital instruments at Tool & Die Supply Co. and scales at the University of South Florida Chemistry Department.

$20.00 for 20' x 12" plus $2.50 shipping anywhere in the U.S.

Make check or M.O. payable to:
Wayne R. Trivin
7408 W. Hanna Ave.
Tampa, FL 33615

1:22 to Doc's 1:11 with his 1927 Messerschmitt. A great sight in the final with both 1020's models, the big M20b transport, and the tiny H-12 homebuilt circling slowly round and round, side by side at scale speed looking just like the roaring 20's. Walt Schlesinger's new Leopard Moth earned 3rd with flights over 40 seconds. Wayne Trivin is marketing a new product...the lightest yet mylar film...give it a try. Next meet is Feb. 22,23 at MacDill with MODERN models (since WWII) for the FAC mass launch. See you there,GHOSTS

RESULTS OF THE MIAMA/COAST GUARD MEET. C.D. DICK"THIS IS THE LAST MEET I'LL C.D." OBARSKI (Does he really mean it, pilots?)(When you CD,it's hard to FLY)

Peanut Scale event:

	Static score	2 best flights		
1.Doc Martin Waco E floatplane	103.5	54.4	46.0	153.7(Retired w/ 2 wins)
2.Millard Wells,Huntington H-12	61.6	1:28.2	1:26.6	148.6
3.Wayne Trivin,Astra Kapferer	103.4	:16.1		111.4
X M. Wells Curtiss P-40	93	:59.9	:58.8	141.8
X M.Wells Cessna Cardinal	60	:58.5	1:01	119.0
4.Fred Beeson Cougar	70	;36.9	:37.8	107.3
5.Bill Stoutenburg Cougar	68	:23	:23	91.0
6. Jake Larson Blackburn Bluebird	73.5	:13	:17	88.5
X. " " " " Fairy Fantome	70.8	:4.5	:4.0	74.2
X. " " " " SOC-3 floatplane	87.0	:08	:10	87.0

FLYING ACES SCALE:

1.Millard Wells, Waco E	69	1:07(63,5)	132.5
2.Doc Martin, Astra	68	1:08.5(64.2)	132.2
3.Dave Linstrum,Val	65	:43	108
X.Millard Wells Fok D-7	74	:44.4	118.4
4.Walt Schlesinger Leopard Moth	50	:40.4	90.4

MINI-STICK NEW RECORD ★

1.Wayne Trivin	6:07.5
2.Dick Obarski	5:57.4
3.John Barker	5:30.6
4.John LeBlanc	4:08.8
5.Doc Martin	3:15

NO-Cal Scale: NEW RECORD ★

1.John Voorhees, Farman	3:39.1
2.Doc Martin,Dayton	2:26.5
3.Wayne Trivin,Lacey	2:04.7
4.Dick Obarski,Lacey	1:56.2
5.Millard Wells,Dayton	1:28.1
¢.Bill Stoutenburg	:29

COCONUT SCALE

1.Millard Wells, Ford 2AT	(1)	1:09.5(2)	3
2.Dave Linstrum,Comte	(1)	1:08.5(3)	4
3.Doc Martin , M20b	(3)	1:11 (1)	4
4.John LeBlanc,Longster	(1)	:37 (4)	5
5.Walt Schlesinger,Porter	(2)	:32 (5)	7

PISTACHIO SCALE

1.Dave LinstrumKalinin,:16.9

BOSTONIAN:

	Charisma				
1.Wayne Trivin,Flying Colors,	1.12	3:15.5	3:09	430.6	NEW STATE RECORD ★
2.John Barker, SCIMITAR,	1.11	2:42	2:47.3	365.5	
3.Dick Obarski. GEN	1.10	2:21.5	2:13,5	302.5	
4.Millard Wells Wee Bost.	1.12	1:46	1:56	248.6	
5.Doc Martin, Dr.Pepper	1.15	1:30.7	1:32.6	210.7	
6.Sidney Gilbert, 7-Up (1.10)	1:17.5	1:34.3		188.9	
7.Walter Schlesinger,Pup	1.10	:32.5	:39.7	79.4	

PENNY PLANE: (NOVICE)

1.W. Trivin	8:27
2.J.Voorhees	8:03.2
3.R.Obarski	7:41.5
4.Rich MacEntee	7:32.8
5.John Barker	4:19

MORE RESULTS - PAGE 14.

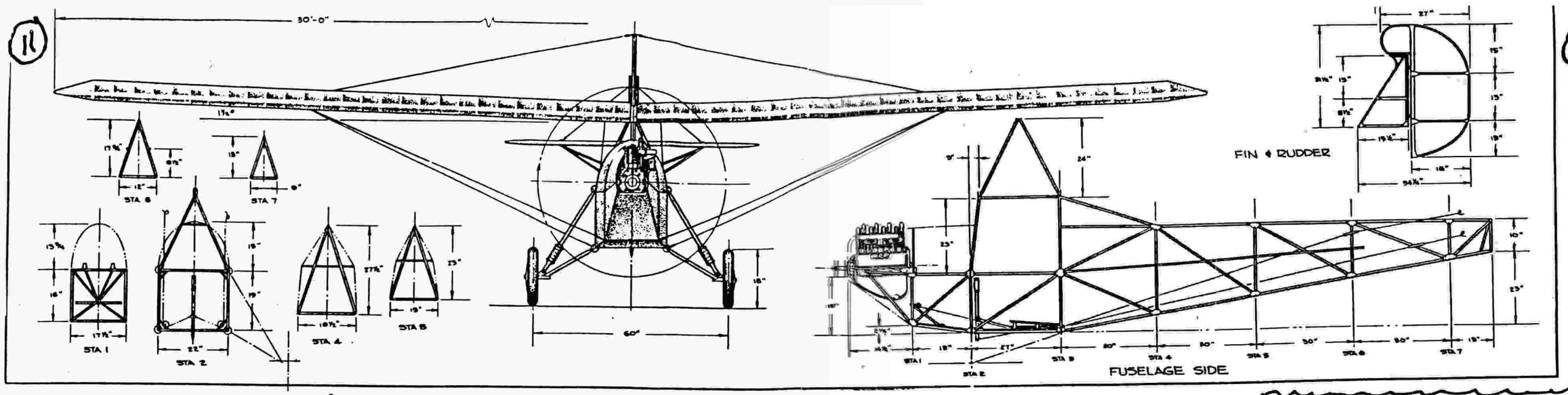
PILOTS: CUTOUT THIS PAGE + KEEP IT IN YOUR FIELD KIT. WHEN YOU HIT THE HOBBY SHOP – OR ART SUPPLY STORE (YEAH, BALSA THERE TOO) BRING YOUR GRAM SCALE + THIS CHART. BUY YOUR BALSA ACCORDING TO ITS WEIGHT & WRITE THE WEIGHT ON THE WOOD.

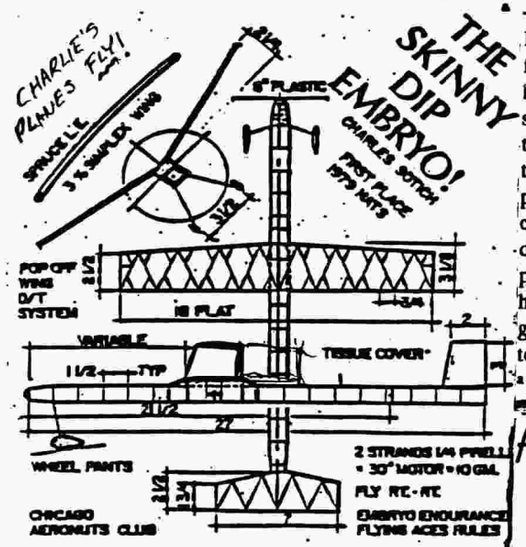
WEIGHT OF BALSA SHEETS IN GRAMS

SIZE			DENSITY IN LBS/CUBIC FT							
T	L	W	2	4	6	8	10	12	14	16
1/32	36	2	1.18	2.36	3.54	4.72	5.91	7.09	8.27	9.45
		3	1.77	3.54	5.32	7.09	8.86	10.6	12.4	14.2
		4	2.36	4.72	7.09	9.45	11.8	14.2	16.5	18.9
	48	2	1.57	3.15	4.72	6.30	7.87	9.45	11.0	12.6
		3	2.36	4.72	7.09	9.45	11.8	14.2	16.5	18.9
		4	3.15	6.30	9.45	12.6	15.7	18.9	22.1	25.2
1/16	36	2	2.36	4.72	7.09	9.45	11.8	14.2	16.5	18.9
		3	3.54	7.09	10.6	14.2	17.7	21.3	24.8	28.3
		4	4.72	9.45	14.2	18.9	23.6	28.3	33.1	37.8
	48	2	3.15	6.30	9.45	12.6	15.7	18.9	22.0	25.2
		3	4.73	9.45	14.2	18.9	23.6	28.3	33.1	37.8
		4	6.30	12.6	18.9	25.2	31.5	37.8	44.1	50.4
3/32	36	2	3.54	7.08	10.4	14.2	17.7	21.3	24.8	28.3
		3	5.31	10.6	15.9	21.3	26.6	31.9	37.2	42.5
		4	7.08	14.2	21.2	28.3	35.4	42.5	49.5	56.6
	48	2	4.72	9.94	14.9	19.9	24.9	29.8	34.8	39.8
		3	7.08	14.2	21.3	28.3	35.4	42.5	49.6	56.7
		4	9.44	18.9	28.3	37.8	47.2	56.7	66.1	75.6
1/8	36	2	4.72	9.45	14.2	18.9	23.6	28.3	33.1	37.8
		3	7.09	14.2	21.3	28.4	35.4	42.5	49.6	56.7
		4	9.45	18.9	28.4	37.8	47.3	56.7	66.2	75.6
	48	2	6.30	12.6	18.9	25.2	31.5	37.8	44.1	50.4
		3	9.45	18.9	28.4	37.8	47.3	56.7	66.2	75.6
		4	12.6	25.2	37.8	50.4	63.0	75.6	88.2	101.
3/16	36	2	7.09	14.2	21.3	28.3	35.4	42.5	49.6	56.7
		3	10.6	21.3	31.9	42.5	53.2	63.8	74.4	85.0
		4	14.2	28.4	42.5	56.7	70.9	85.1	99.2	113.
	48	2	9.45	18.9	28.4	37.8	47.3	56.7	66.2	75.6
		3	14.2	28.4	42.5	56.7	70.9	85.0	99.2	113.
		4	18.9	37.8	56.7	75.6	94.5	113.	132.	151.
1/4	36	2	9.50	18.9	28.4	37.8	47.3	56.7	66.2	75.6
		3	14.2	28.4	42.5	56.7	70.9	85.0	99.2	113.
		4	18.9	37.8	56.7	75.6	94.5	113.	132.	151.
	48	2	12.6	25.2	37.8	50.4	63.0	75.6	88.2	100.
		3	18.9	37.8	56.7	75.6	94.5	113.	132.	151.
		4	25.2	50.4	75.6	101.	126.	151.	178.	206.

FROM
EL TORBELLINO -

THANKS TO GARRY HUNTER





I WANT TO BE A NAVY PILOT WHEN I GROW UP because it's fun and easy to do. Pilots don't need much school, they just have to learn numbers so they can read instruments. Pilots should be brave so they won't be scared if it's foggy. Pilots have to have good eyes so they can see through clouds and they can't be afraid of lightning or thunder because they are closer to them than we are. The salary pilots make is another thing I like. They make more money than they can spend. This is because most people think airplane flying is dangerous except pilots. There isn't much I don't like, except girls like pilots and all the stewardesses want to marry them so they always have to chase them away so they won't bother them. I hope I don't' get airsick because if I do I couldn't be a pilot and would have to go to work. The above was submitted by former Navy pilot Paul Finley. It was written by a Fifth Grader who wanted to be a Navy pilot. FAHS NEWSLETTER

A NEW TAMPA HOBBY SHOP: THEY HAVE FREE FLIGHT!

EVERYBODY NEEDS A HOBBY!
WHY NOT MODEL AVIATION ?

DAN + SANDY CIESLA.



CONTROL LINE & R/C TOO

MODEL AVIATION HEADQUARTERS, INC.
5025 E. FOWLER AVE. #5
MON-SAT **TAMPA, FL 33617**
10AM-6PM **(813) 980-3991**

TRY SOME NEW RUBBER
RUBBER NEWS. I'VE (1992) GOT SOME NEW SIG RUBBER + IT'S DIFFERENT! .043 THICK - USED TO BE .032 GIVE US A REPORT!!

CHALK'S AIRLINE UNDER NEW OWNERSHIP; FLYING TO KEY WEST & POSSIBLY ST.PETE, ORLANDO, NAPLES AND FT. MYERS.

June 21, 1991...New service from Watson Island, Miami to Key West was begun today. Earlier this year, Resorts International (owner since 1974) sold Chalk's Airlines to United Capital Corp. of Illinois and is now operating under the new certificate of **Flying Boats, Inc.** This means that Paradise Island in the Bahamas retains the original oldest continuous airline-operating certificate in the U.S.

Chalk's began on the banks of Miami's Dinner Key in 1919 and moved to its present location on Miami Watson Island in 1920. (Arthur Burns "Pappy" Chalk, founder, was killed in 1978 at age 88 when he fell from a tree he was trimming.)

Chalk's currently operates a fleet of four Mallard and has 12 Albatross seaplanes in mothballs. The later are in storage at Marana, AZ. The first Albatross is due at Grumman in St. Augustine this July for refurbishing Possible future sights are Naples, Ft. Myers, St. Pete and Orlando with some seasonal deviation to Catalina Island, CA and areas of the Pacific Northwest. Information for above was taken from "Aviation News from South Florida."

MIAMA MEMBERS - BRING YOUR PECK P-NUT ANDREASON TO MIAMA MEET 5 - FLY IT IN MASS LAUNCH (MODERN) + PUT YOUR TIME IN THE POSTAL MEET ST. JOHN/SCALE STAFF.

PILOTS - BEAT THESE CAT. I RECORDS AT FART V - APRIL 25,26

CATAGORY I: Set at Youth Fair	(Up to 26'3")
FAC Scale: Doc Martin	116.4 (11/89)
COCONUT : John LeBlanc	1:05 (11/89)
PISTACHIO: Millard Wells	1:23.1 (4/86)JaiAlai
NO-CAL: Doc Martin	1:31 (11/89)
FAC SCALE: DOC Martin	116.4 (11/89)
NOVICE PENNY Nancy Beitz	7:59 (5/89)
EASY B: Stan Chilton	12:43 (2/86)
H.L.Stick: Roman Szymula	14:35 (10/74)
ROG Stick:Walt Everson	5:23 (3/83)
FED. ROG : Doc Martin	2:46.7 (11/89)
PAPER STICK: Gary Myers	8:25 (4/73)
MANHATTAN: Walt. Everson	3:54 (4/84)
H.L.GLIDER:Don Bal	1:12.4 (2/83)
BOSTONIAN: Carl Hedley	135.8 (11/89)
EMBRYO : Walt Everson	175.0 (11/89)

(5)

(10)

WITH ITS HIGH ASPECT RATIO THIS LONGSTER LENDS ITSELF TO COCONUT, JUMBO, 9" PEANUT + 6" PISTACHIO

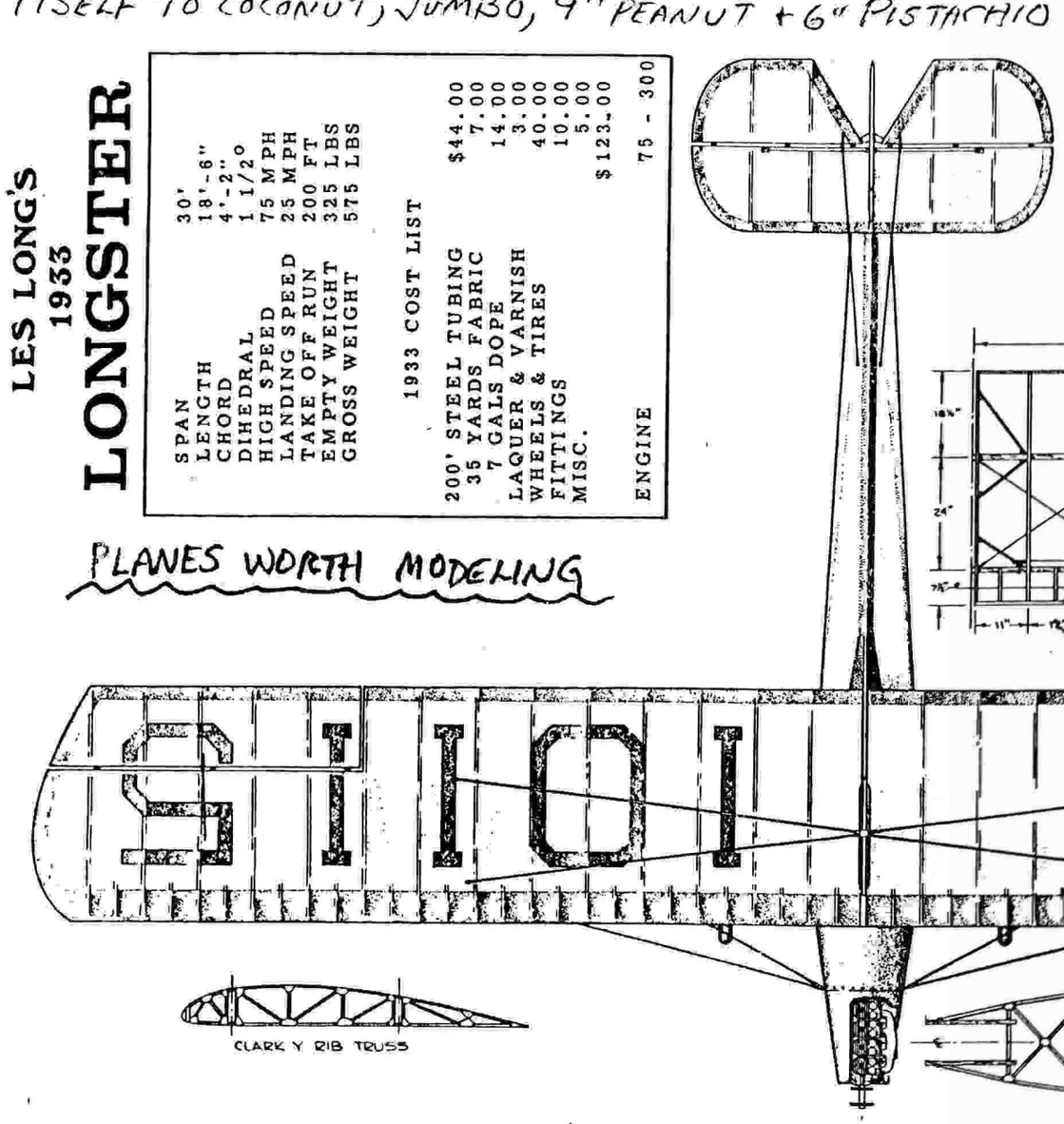
LES LONG'S
1933
LONGSTER

SPAN	30'
LENGTH	18'-6"
CHORD	4'-2"
DIHEDRAL	1 1/2°
HIGH SPEED	75 MPH
LANDING SPEED	25 MPH
TAKE OFF RUN	200 FT
EMPTY WEIGHT	325 LBS
GROSS WEIGHT	575 LBS

1933 COST LIST

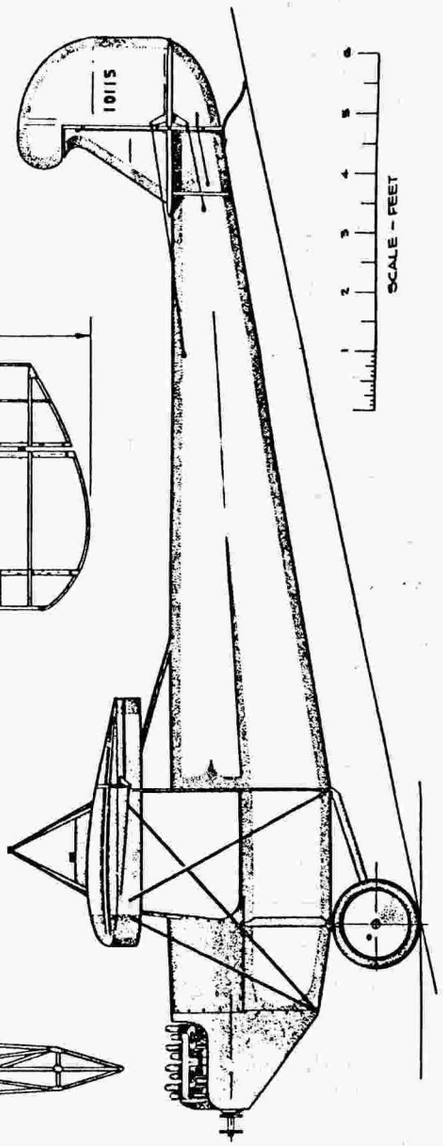
200' STEEL TUBING	$44.00
35 YARDS FABRIC	7.00
7 GALS DOPE	14.00
LAQUER & VARNISH	3.00
WHEELS & TIRES	40.00
FITTINGS	10.00
MISC.	5.00
	$123.00
ENGINE	75 - 300

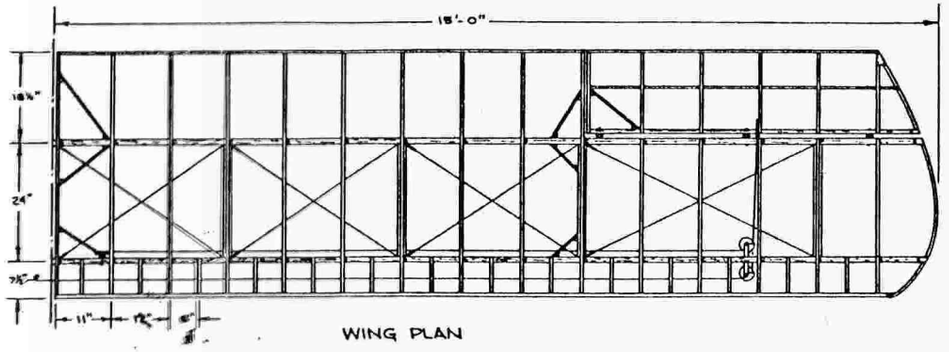
PLANES WORTH MODELING



STABILIZER & ELEVATOR PLAN







WING PLAN

FUSELAGE PLAN

CLARK Y RIB TRUSS

FROM SEPT. 1969 AMERICAN AIRCRAFT MODELLER / 6" OAL PISTACHIO

PROXY, POSTAL + OTHER MEETS

LOTS OF WINTER ACTIVITY FOR YOU IN LA-LA LAND

① MIAMA MEMBERS: BUILD A PECK ANDREASON PEANUT, FLY IT BEFORE APRIL, SEND US YOUR TIME + WE WILL ENTER YOU IN THE ST. JOHNS/SCALE STAFFEL POSTAL CONTEST.

② MINI-STICK POSTAL CONTEST. GET TOGETHER AT A CLUB MEETING + FLY YOURS BY MARCH 31. SEND TIME + ROOM HEIGHT TO MIAMA. WE WILL PUT TIMES ON OFFICIAL RESULTS FORM + SEND TO ENGLAND.

③ FINISH YOUR PISTACHIO, TRIM IT OUT, AND PACK IT UP WITH INSTRUCTIONS TO YOUR PROXY PILOT + RETURN POSTAGE. SEND TO MIAMA BY APRIL 11. PARTICIPATE IN THIS WORLD EVENT; FAME + FORTUNE!

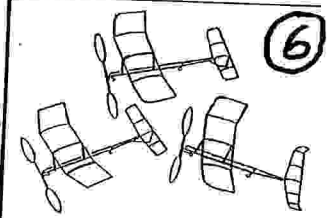
WANTS AND DISPOSALS: If you have something to dispose of, or something you want,...write to Hangar Pilot.

Wanted: Documentation, especially a 3-view of the Waco YOC of 1935. Also a 3-view of the 1935 Fairchild F-45. Please send to: Dick Skerrett Levant, Llannon, Dyfed SY 23 5HE , ENGLAND

Wanted: Megow ¢10 plans- F12 Hi Climber, F19 Puss Moth, F32 DH Hornet Moth. Send to Dr. John Martin 2180 Tigertail Av. Miami, 33133, Fla.

FOR SALE: Full size Pietenpol Air Camper, wood and fabric. Airworthy except for 75HP Continental motor that needs work. $3,000 • Call Ralph Squeglia 305- 458-0500, or, home: 925-8145

FLY THE PISTACHIO PROXY INTER-GNATS! ENTER YOUR PISTACHIO BY APRIL 11.

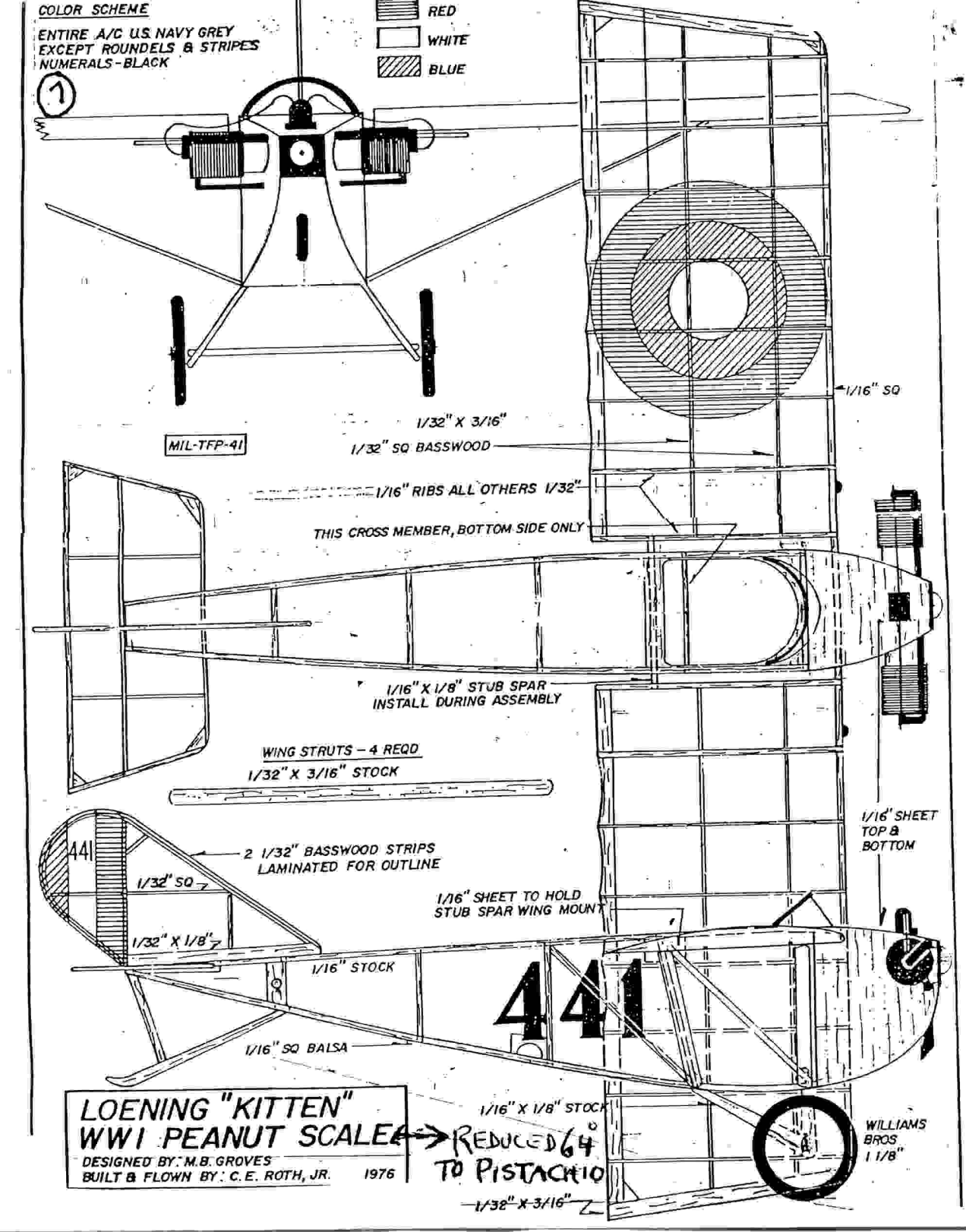


Lew Gitlow, the head man at Indoor Model Supply, wrote to tell us about a new indoor rubber duration event that's gaining popularity here and abroad. Called "Mini-Stick," the models are limited to seven-inch span, and although you might not think such miniscule models would be capable of much performance, times of up to nine minutes are not uncommon. These things really fly!

IMS is making it easy to get started in this new event by offering a $9.95 kit that contains enough premium indoor balsa for at least three Mini-Stick models, plus dual bearings, rubber, wire, clear Ultra Film covering, a plan sheet with prop jig templates, full instructions, and the current Mini-Stick design requirements. If ordering a kit by mail, be sure to add $3.00 for packaging and shipping.

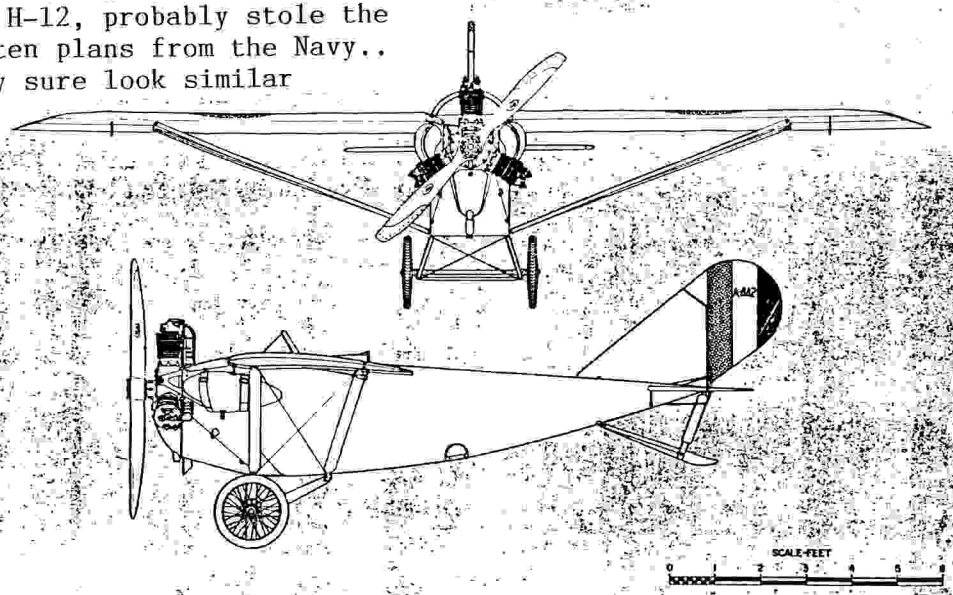
For indoor modelers who are heavily into Easy-B or similar size stick-type duration models, IMS sells a tool called a Motor Stick Sander Jig, which is used to put the upper tapers of a typical motor stick on a two-inch wide, 12-inch long sheet of balsa; perfectly matched motor sticks can then be baloney-sliced off as needed. Pretty clever, huh? The jig itself retails for $11.95, a sheet of selected motor stick balsa is $2.50, and packaging and shipping adds $3.00 to the total.

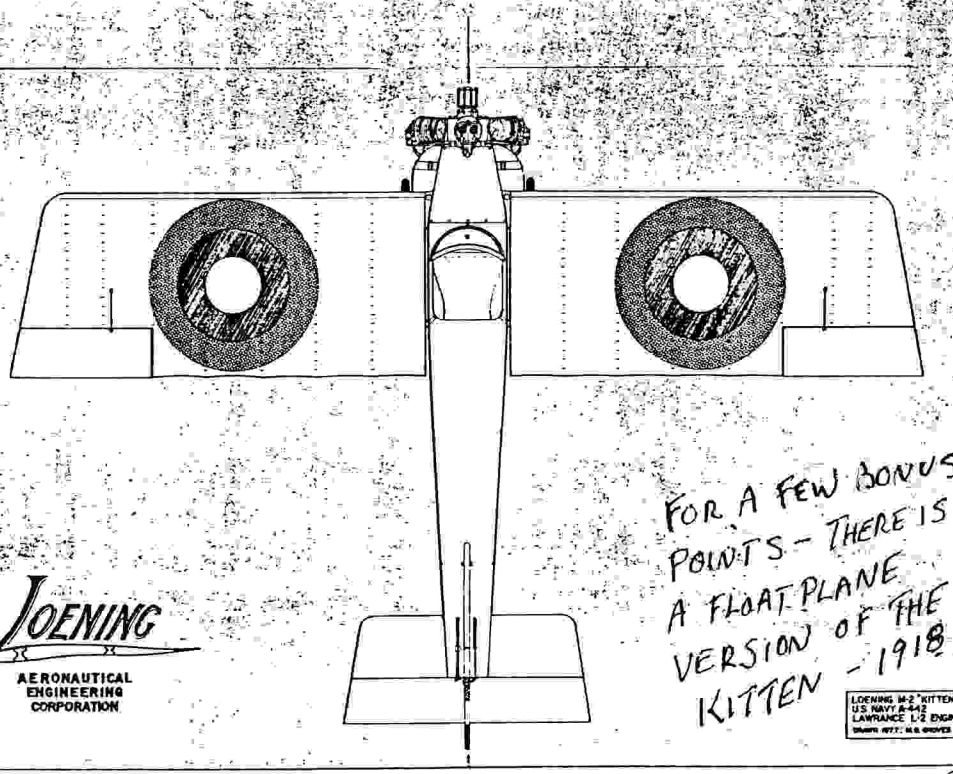
A complete 18-page catalog of all of the IMS products is available for $2.00 alone or $1.00 with any order. Write to Indoor Model Supply, 1887 West Haven, N.W., Salem, OR 97304.


COLOR SCHEME
ENTIRE A/C U.S. NAVY GREY
EXCEPT ROUNDELS & STRIPES
NUMERALS - BLACK
RED
WHITE
BLUE
1/16" SQ
1/32" X 3/16"
MIL-TFP-41
1/32" SQ BASSWOOD
1/16" RIBS ALL OTHERS 1/32"
THIS CROSS MEMBER, BOTTOM SIDE ONLY
1/16" X 1/8" STUB SPAR
INSTALL DURING ASSEMBLY
WING STRUTS - 4 REQD
1/32" X 3/16" STOCK
1/16" SHEET
TOP & BOTTOM
441
2 1/32" BASSWOOD STRIPS
LAMINATED FOR OUTLINE
1/32" SQ
1/32" X 1/8"
1/16" SHEET TO HOLD
STUB SPAR WING MOUNT
1/16" STOCK
441
1/16" SQ BALSA
1/16" X 1/8" STOCK
WILLIAMS
BROS
1 1/8"
LOENING "KITTEN"
WWI PEANUT SCALE
DESIGNED BY: M.B. GROVES
BUILT & FLOWN BY: C.E. ROTH, JR. 1976
REDUCED 64°
TO PISTACHIO
1/32" X 3/16"

IS THIS CUTE, OR WHAT? IT PLAYS WITH A BALL OF YARN! (8)

Mr. Huntington, who designed his H-12, probably stole the Kitten plans from the Navy.. they sure look similar





LOENING
AERONAUTICAL ENGINEERING CORPORATION

LOENING M-2 "KITTEN"
U.S. NAVY A-442
LAWRANCE L-2 ENGINE

FOR A FEW BONUS POINTS - THERE IS A FLOAT PLANE VERSION OF THE KITTEN - 1918

FOAM TECH.
instant miracles inc.
322 eighth avenue
new york, ny 10001
(212) 243-1750

MIAMA MEMBERS ARE ALWAYS FOOLIN' (9) AROUND WITH NEW MATERIALS & TECH. TONY PETERS - MIAMA'S DOWNTOWN BIG APPLE MEMBER, FILLS US IN ON SOME FOAM TECHNIQUES - ESPECIALLY IF YOUR MODEL IS GOING TO GET WET.

December 19, 1991

Dear Doc:

Here are some notes on building with foam. The foam models aren't as esthetically pleasing as stick and tissue, but they're easy and fast to build, very sturdy and absolutely immune to the constant threat of failure from tan rubber.

Most of the foam I use is found one place or another: a friend worked for a firm that used sheet foam as packing material, some local eateries give foam as a bonus with their take-out meals. My major purchase was a lifetime supply of disposable foam dinner plates for 98 cents. These are particularly useful for making tails as the coating gives them some rigidity. You can make but-joints to piece together smaller sections using pinking shears to increase the area of the joint and then reinforce the joint with tissue or if you really need the strength, Tyvec from an Express Mail or Federal Express envelope.

Some glues work on foam, and some don't. R/C-56 works, Elmer's doesn't. There are a number of craft glues that list foam among the recommended uses and I've tried a number of them, all satisfactorily. However, you can't sand them. You can speed up their drying time with a hair dryer but I just use a liberal application of rubber bands, clamps and masking tapes and put the piece aside. You can also use contact cement which I found very handy for sticking the rudders and tip floats onto the Dornier.

If you stick to an appropriate model -- one with a simple, square, fuselage -- construction is very easy and fast. I cut out the fuselage sides, wings and tail from the plan and trace them onto the foam, then cut out the foam with a razor. I sand a bit of an airfoil shape into the wing and then bend it gently over a rounded shape. The heat of your hand will help form it and adding an airfoil shaped rib at the dihedral joint helps hold it in. An airfoil shape where the wing attaches to the fuselage also helps. I reinforce the wing leading edge with a folded strip of Tyvec or monofilament fishing line.

Assemble the fuselage with a conventional wooden nose block, a temporary cardboard spacer or two at the wide point, and then glue the tail together. Add the top and bottom of the fuselage by gluing on slightly oversize pieces and then trimming them to the sides. You can use thin foam or paper for a rounded cowling but you'll need a permanent former for that. You can also just carve the rounded shapes from a big hunk of foam.

I decorate my models with tissue attached with a water based acrylic varnish, but a friend has used markers to very good effect. The varnish will also help protect the glue joints if you're building a seaplane. I flew my Dornier on a lake all last summer* with no problems. I wiped the water off after each flight, but mostly because I didn't want to carry all that heavy water on the next flight.

My foam models end up weighing about the same as my stick and tissue ones and I fly them indoors and out. I think the single surface undercambered wings are a big help.

Try it, you'll like it.

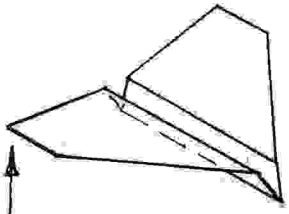
Keep 'em flying,

Antony T. Peters

* DORNIER 212 AMPHIB. REALLY TOUGH TO TRIM.

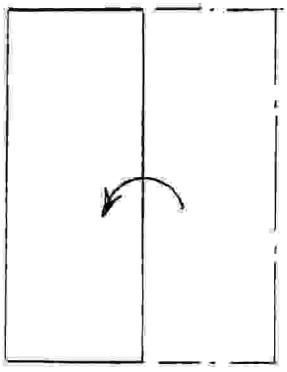
HOW TO FOLD THE "ORIGAMI DELTA"

A GOOD FLIER

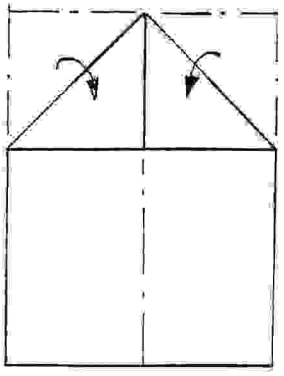


IT WILL PROBABLY REQUIRE A SLIGHT UP ELEVATOR, BOTH SIDES (VERY SLIGHT)

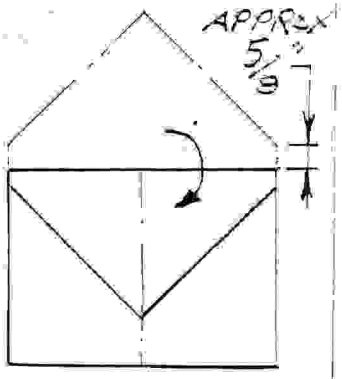
1 START WITH A SHEET OF $8\frac{1}{2} \times 11$" PAPER. FOLD IN HALF THE LONG WAY.



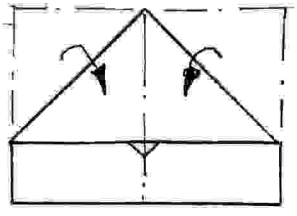
2 UNFOLD STEP 1 & FOLD CORNERS AT 45°



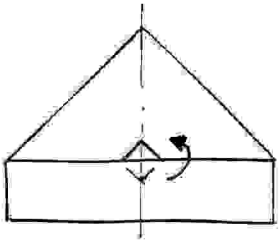
3 FOLD NOSE BACK AT APPROX. $\frac{5}{8}$" TO REAR OF STEP 2 FOLDS



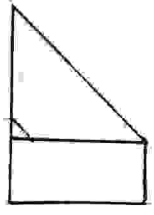
4 FOLD CORNERS AGAIN AT 45°, SIMILAR TO STEP 2.



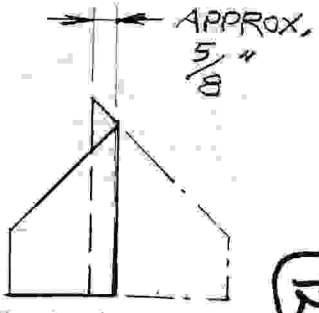
5 FOLD THE LITTLE TRIANGLE (THE ORIGINAL NOSE) OVER AS SHOWN. THIS WILL KEEP THE PAPER FROM SEPARATING



6 REFOLD AT THE CENTER FOLD CREASE WITH THE PREVIOUS (STEP 5) FOLD ON THE OUTSIDE



7 FOLD WINGS AT APPROX $\frac{5}{8}$" FROM CENTER FOLD. ARRANGE AS SHOWN ON TITLE BLOCK.



CARL HEDLEY

(13)

Ancient Egyptians invented world's first whoopee cushion!

PHINEAS I. 1800BC



THESE BIZARRE hieroglyphics were reproduced from an ancient catalog-like scroll discovered in the ruins of an ancient Egyptian temple. Note the incredible representation of a whoopee cushion, left, and a crude joy buzzer, right.

Archaeologists find 3,000-yr.-old gag items in temple ruins!

By NICK MANN
Special correspondent

The ancient Egyptians loved to play practical jokes and actually invented primitive versions of the joy buzzer, trick flower and whoopee cushion as early as 1350 B.C.!

That's the word from archaeologist Paul Renet, who found several gag items as well as a catalog-like scroll listing dozens more in the ruins of an old temple near Cairo, including:



Dr. Paul Renet

- Fake vomit and cat poop.
- Bogus bugs and spiders.
- A food additive that starts out tasting sweet but turns horribly bitter.
- A gum-like resin that turns teeth green.
- A kaleidoscope that blackens the user's eye when he twists the viewing tube.
- Itching powder.

Incredibly, there's more.

The expert also found a crude "water gun" that aims straight but shoots to the right and an X-ray eyepiece that makes it appear as if the user can see through clothes.

"Ancient Egyptians were big on practical jokes and they clearly put a lot of time and thought into the development of new and better gags," Dr. Renet said. "Many of them were very much like the gags that are sold today. In that regard, they make a huge statement about human nature.

"It proves that even after thousands of years, some things never change."

Dr. Renet found the gags and catalog while sifting through the ruins of a temple that was built in 1350 B.C.

They were sealed in a ceramic urn and found to be in remarkably good condition in spite of the fact that they are over 3,300 years old.

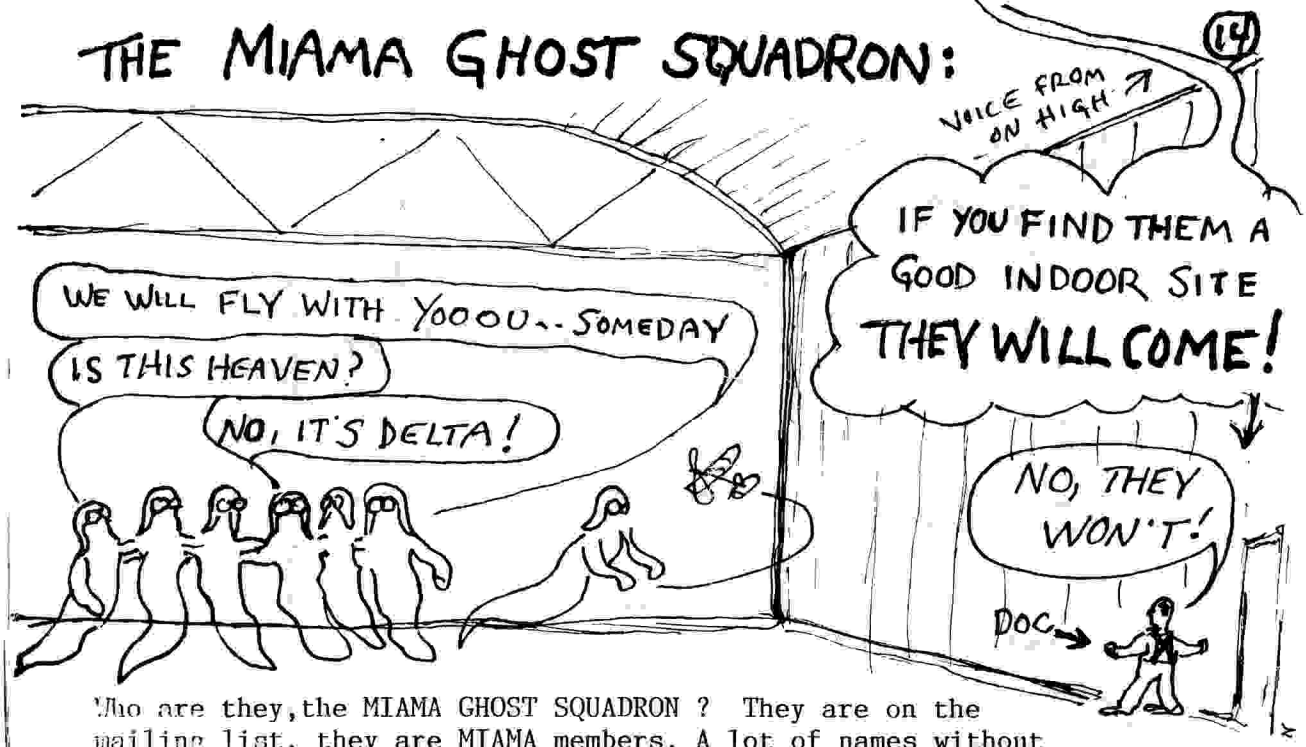
"The Egyptians didn't have plastics or rubber so they created their gag items out of materials they had at hand," continued Dr. Renet.

"The whoopee cushion is made out of goat skin and the water gun and trick flower are nothing more than reservoirs and nozzles made from reeds and animal intestines."

Dr. Renet hopes to publish a full report later this year.

LT. PHINEAS PINKHAM - THE JOKESTER FROM BOONTOWN, IOWA + WWI HERO OF JOE ARCHIBALD'S STORIES, GOT HIS INSPIRATION FROM HIS EGYPTIAN ANCESTORS

THE MIAMA GHOST SQUADRON:



Who are they, the MIAMA GHOST SQUADRON ? They are on the mailing list, they are MIAMA members. A lot of names without faces. The out of state pilots who never send in a postal time or a proxy entry. These are also the Florida state pilots who live an hour or so drive from the meets, but we never see them.. or haven't for a long time. C'mon out and just spectate, or build a Mini-Stick or peanut. We want to meet you and make some new friends from fellow hobbyists. Y'all come!

EMBRYO ENDURANCE:

1. Wayne Trivin, Yellow Bird	9	441.5	NEW STATE RECORD
2. Dave Linstrum DNA Defect	9.	291.3	
3. Doc Martin T-20/20	9	182.8	
4. Walt Schlesinger 12½¢	9	123.9	
5. Sidney Gilbert	9	112.1	

FROG R O G :

1. Wayne Trivin	4:47.9
2. Dick Obarski	4:34

EASY B EVENT:

1. Dick Obarski	12:49.6
2. Rich MacEntee	9:20.8
3. Wayne Trivin	9:01
4. John Barker	6:35.4

MEET 4-RESULTS- CONT.

WHO SAID YOU HAVE TO HAVE A MODEL MEET IN 1 DAY? The Pistachio INTER-GNATS: DAY 1 APRIL 11, MIAMI-DADE COLLEGE DAY 2+3 - DADE YOUTH FAIR, APRIL 25+26. ALSO: THE F.A.R.T. II - CATAGORY I RECORD TRIALS FOR EVERY TYPE OF INDOOR MODEL. GET YOURS TOGETHER + GET YOUR NAME IN THE RECORD BOOK!

WHAT'S ON IN FREE FLIGHT? ----- LOTS!

FEB 22.23 TAMPA,Fl. MacDill AFB, MIAMA INDOOR MEET #5 CD Doc Martin 305-858-6363 9 to 5. Confirm by calling above on Fri. before meet. Mass launch: MODERN. SAT. 5PM

MARCH 7,8-PALM BAY SPRING OPENER. Outdoor free flight. FAC events. call 904-788-7309

MARCH 8 DADE COUNTY: Local fly in at Miami Dade South College. 9 to ?

MARCH 21,22. MacDill AFB,Tampa. MIAMA INDOOR MEET #6. FAC MASS LAUNCH: WW-I

APRIL 4,5- Outdoor FF,Mini and Silent Knight Meet..PALM BAY

April 11. Part I MIAMI DADE SOUTH COLLEGE. Pistachio Inter-Gnats and fly in.

April 25,26. MIAMI, Dade County Youth Fair..Part II of Inter-Gnats and CATAGORY I FLORIDA ANNUAL RECORD TRIALS. The F.A.R.T. V.

April 25,26- PALM BAY. SAM 46 Spring Old Timers Meet. Outdoor FF. FAC events Call 904-788-7309

May 9,10 TAMPA,Fl. MacDill AFB,MIAMA last indoor meet of season(#7)FAC Mass Launch: Raceplanes

May 30,31- Rebel Rally

June 20,21 PALM BAY,FL One designer meet.

JUNE 4 to 7. JOHNSON CITY,TN. The indoor biggie. Please support the NFFS National Indoor champs..the USIC. The biggest indoor meet at the best indoor site.

June 20 to 23- Mass. Westover AFB. AMA COMBINED NATS. Site same as MacDill for indoor.

JULY 11,12. PALM BAY,FL. Outdoor Florida State FF Champs with plenty of FAC events.

July 10,11- GENESEO,NY- The bi-annual FAC Biggie..the FAC NATS.

AUG 1, ISLAMORADA,KEYS, FLA. The Annual Millard Wells ROW Meet.

THE HANGAR PILOT

EDITOR: DR JOHN MARTIN, JR
2180 TIGERTAIL AVE MIAMI FLA. 33133

MIAMI, FL
1992



Thanks for the letter, Jim. Yes I do get lonesome for some real controversial stuff! Regards - Doc