THE HANGAR PILOT

STILL SEEKING SITES FAC SQUN #11

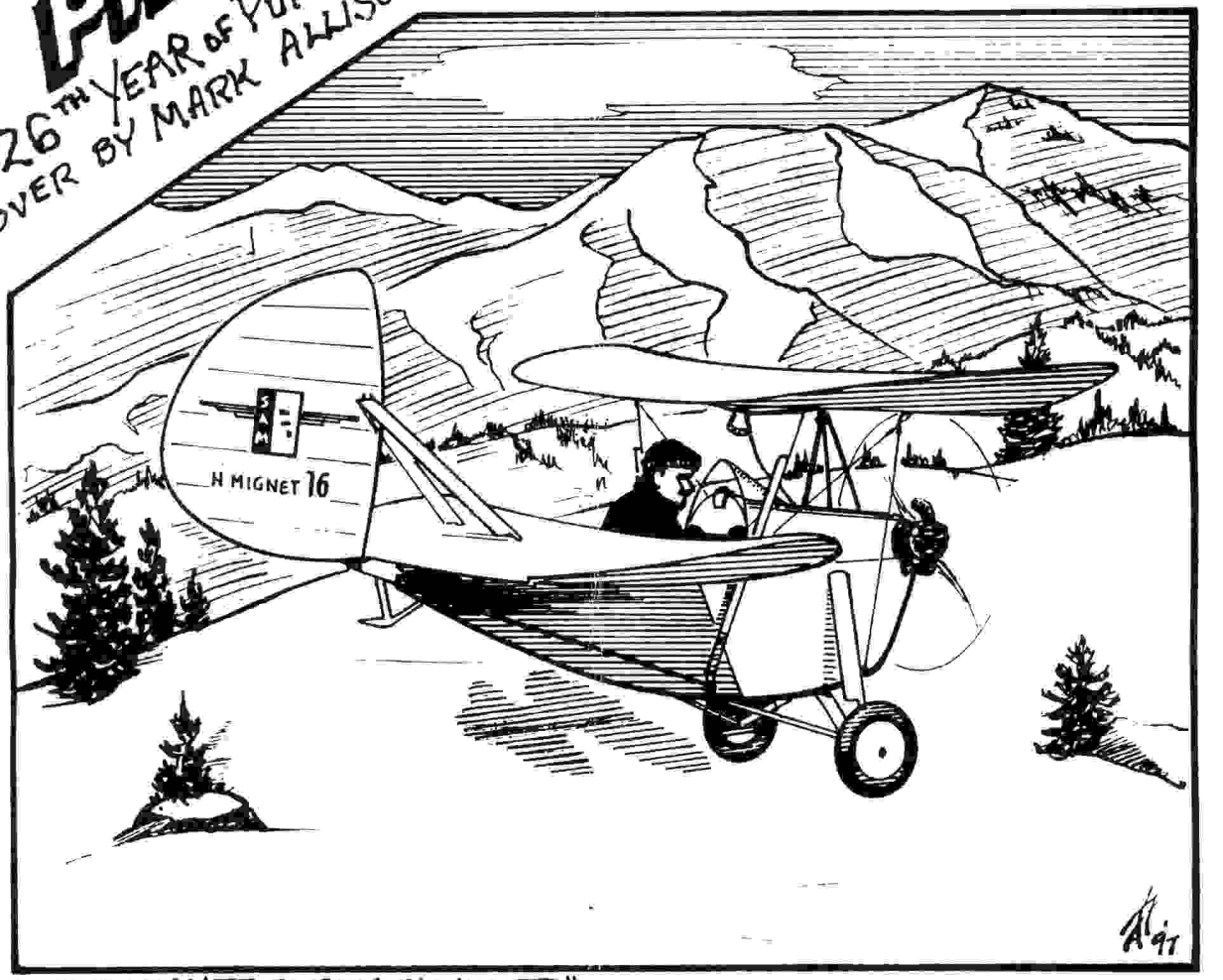
ISSUE 186

MIAMA INDOOR AIRCRAFT MODEL ASSOCIATION

THIS ISSUE FEATURES AN 8 PAGE BROCHURE TO AID IN PROMOTING INDOOR

26TH YEAR OF PUBLICATION

COVER BY MARK ALLISON



"HENRI MIGNET TOURING IN WINTER"

MIAMA USCG MEET #3

(1)

Long time no fly. so the flying was intense and non stop. Three months between meets brought out plenty of enthusiasm for MIAMA meet III. Five new State records were set in Cat. II. Dick Hardcastle set Dime Scale, and Easy B records, Obarski upped the Legal Eagle record, Barker set a new Mini-Stick mark, and Doc eliminated Linstrum's old Coconut Zippy record by a lot.

The Coast Guard hangar was never in better shape. Not too hot, spic and span with more floor area than ever, and a careful, guard operated cherry picker to retrieve the hung models, Sat. and Sun. we ate at the Station Mess Hall This is a champion Cat II site,pilots. Thanks, Dick Obarski, and THANK YOU COAST GUARD!

Dad Nunez and the Nunez Juniors were in action both days. It's great to see these little guys learning the game. Ed Seay brought his model shop and great indoor wood over from Texas. He has 2 new Dale Hoague Peanuts in production...The WW I Moraine Saulnier parasol, and the '30's Polish PZL Fighter with both radial and in line engines. Ten bucks each P.P. Ed's MAL postal for indoor peanut is extended to MAY 21,1997. Build one of his kits and sEnd indoor time to MAL. 108 S. Lee St. Irving,TX 75060.

It was great to see lots of new faces and flyers..Elliot Taylor and Dennis Weigt from St. Pete, Bob Barnes of Ruskin, Milo Holmes of MIami, and Jeff Auen of Sarasota. Sidney Gilbert's Guest,John Wormley brought his FAC Curtiss Robin, and Bruce Knox of Sun City Center flew his FAC Tailwind. Also welcome to John Polento and his scratch built Hardly Ableson. We'll be seing more of him at Palm Bay. George Loeffler showed up with his collection of fine aircraft books and allowed all to take one away. Thanks,George. Jake Larson had a fleet of five new Flying Aces scale models. He must have had a pressing engagement because a few hours later he was missing and none of his planes had an official time. Is this some new kind of a game, as Terry Rimert once said?

We hope to have two more meets for a five meet season. We'll count 4 of them It sure looks like we'll have to go into the hot Summer months. The raw score on the results page are not based on your "Best 5 events per meet"... just on your total points per meet. Lots of nibbles for a new site for meet 4 but nothing firm. ARE YOU LOOKING?

For those FAC flyers who are going to PALM BAY for the first time from the West Coast..Better give Ric Choate a call for directions on how to get there. It's a bit tricky to find. Don Brimmer would also be a good call as he is C/D. 813-525-6667 This is the SAM/FAC meet that is the first of four meets for the Fla FAC Champs. Bring all your old time models and all your FAC stuff May 3 & 4.

FAC AT JOHNSON CITY

The entry form for USIC Flying Aces events is far from clear.(JOHNSON CITY) Here are the events, from Jim Miller: "High wing monoplane..P-Nut size. Golden Age (any size) Total of 3 flights. Civil Production (Any size) total of 3 flights. WW II Mass Launch. We will use 3 Min. maxes this year. 2 min. too easy! (Can you believe it?) Remember to bring your Dime Scale (Either FAC rules or MIAMA rules, and your Legal EAGLE.

MIAMA MEET 3 USCG APR. 12/13 1997 CD DICK OBARSKI (2)

AMA PEANUT SCALE

1.1.Newt Bollinger	Cougar	84	1:23	1:24	167.5
2.Geo Nunez	Turbo Beaver	90	1:08	1:15	161.5
3.Doc Martin	Ford 2-AT	80.6	1:26	1:25	161.2
4.Sidney Gilbert	Lacey	86,4	1:18	1:11	160.9
5..Ric Choate	Pottier	90	:41	--	110.5
6.Walt Schlesinger	Fike	84	:20	:16	102
7.John Polento	Hardly Ableson	78	:24	:23	101.5
1st Junior JJ Nunez	Zippy	95	1:00	1:01	155.5

DNF Brimmer Lacey 88.8 DNF MacEntee Currie Wot 96.6

AMA Easy B NEW RECORD ★

1.Dick Hardcastle	18:03
2.Dick Obarski	17:04
3.John Barker	7:59

MINI-STICK NEW RECORD ★

1.John Barker	7:59
2.Dick Hardcastle	7:44
3.Dick Obarski	7:07

FLYING ACES SCALE

1.Rich MacEntee	14-Bis	86	:66.5	152.5
2.Sidney Gilbert	C. Robin	55	:78.5	133.5
3.George Nunez	Grumman Avenger	:65	:68	133.0
4.Doc Martin	Lemberger	69.5	:62	131.5
6.Walter Schlesinger	Porter	56	:41	97
5.Bruce Knox	Tailwind	43.5	:61.5	105
7.John Wormley	C. Robin	49	:44.5	93.5
First Junior:J J Nunez	Avenger	65	:62	127

DNF Jake Larson 4 models

CATAPULT GLIDER

1.Don Brimmer	:39	:31
2.Charles Nelson	:30	:27

FLYING ACES No-Cal

1.Newt Bollinger Lacey	3:11
2.Rich MacEntee Lacey	3[05
3.Sidney Gilbert Cub	2:20
4.Doc Martin Windham	1:22

MIAMA PISTACHIO

1.Doc Martin	Windham Tandem 2	:51	:45	2	4
X " " "	Goldwing 3	1:08	:52	1	4
2.G.Nunez	Blackburn Airedale 2	:43	:38	3	5
3,Don Brimmer	Hi-Max 1	:48	:25	5	6
4..Sidney Gilbert	Fike 3	:42	:36	4	7
5.Walt Schlesinger	Cougar 3	:23	:27	6	9
First Junior JJ Nunez	Vagabond	:20	:18		

MIAMA COCONUT NEW RECORD ★

L.Doc Martin BMW 20	1:57.8
2.Ric Choate Aristocrat	1:55
3.R. MacEntee Vaco E	:55
4.W.Schlesinger Hi Max	:13

FLYING ACES EMBRYO

1.Newt Bollinger Colt 50	7:00
2.John Barker Scimitar	6:36
3.Sidney Gilbert Colt	6:28
4.Don Brimmer Hornet	5:32
5.Walt Schlesinger Hornet	2:15

MODEL OF A MODEL

1.Sidney Gilbert	Pussy Cat	:50 1:03
2.Don Brimmer	P. Cat	:48 :52
3.Charles Nelson	P. Cat	:26 :24
4.Walt Schlesinger	P.Cat	:28 :20

AMA BOSTONIAN Charisma

1.Dick Obarski	P/P	1.18		444.8
2.J. Barker	Scimitar 3	1.05		378
3.N. Bollinger	Colt 48	1.o5		311
4.S. Gilbert	6 of 7	1.05		287
5.J. Polento	Pac. Ace	1.05		118
6.C. Nelson		1.05		104
7.W. Schlesinger	Ugly	1:05		100

LEGAL EAGLE NEW RECORD ★

1.Dick Obarski	13:06
2.Rich MacEntee Verdict	10:14
3.Newt Bollinger Pro Bono	9:47
4.John Barker Rumpole	9:25
5.Don Brimmer	7:06
6.Sidney Gilbert Pro Bono	4:11
7.Charles Nelson	1:46

MIAMA DIME SCALE NEW RECORD ★

1.Dick Hardcastle	Fokker D-7 7:15
2.J. Barker	Farman Stratoplane 5:45
3.Doc Martin	Megow Nieuport 4:55
4.S. Gilbert	Curtiss Robin 3:37
5.W.Schlesinger	Nieuport 2:28

PENNY/LIMITED PENNY

1.Penny-Dick Hardcastle	8:18
1.Limited Penny-J. Barker	7:41

MASS LAUNCH EVENTS

PEANUT MASS LAUNCH

1.Doc Martin	6.Don Brimmer
2.Ric Choate	7.Sid Gilbert
3.Newt Bollinger	8.Charlie Nelson
4.John Polento	9.W. Schlesinger
5 Rich MacEntee	

COCONUT MASS LAUNCH

1.Doc Martin
2.Rich MacEntee
3.W. Schlesinger

FAC MODERN M/L

1.Newt Bollinger
2.Doc Martin
3.Sidney Gilbert
4.Rich MacEntee

RAW SCORES. TOP TEN AFTER 3 MEETS: 1. Doc Martin 60,2.John Barker 58, 3.Rich MacEntee 57,4.Sidney Gilbert 55, 5.Dick Obarski 39,5. Don Brimmer 39, 7.Dick Hardcastle 31,8.Newt Bollinger 26, 9.George Nunez 24,10.Wayne Trivin 20, 11. Walt Schlesinger 18

RESULTS - 13TH MIAMA POSTAL PROXY PISTACHIO

(3) Well, pilots, we felt that we could increase participation in the Inter-Gnats by requireing postal times, RATHER THAN THE PROXY MODEL. I don't know if it works or not due to the poor publicity the Inter-Gnats recieved. Thanks to all who entered, and we'll give it another go next year...as a POSTAL!

INTER-GNATS

	Plane	Weight	Scale Points	Fly	Fly Pts.	Total	PHOTO #
1.Nick Peppiatt Lightwater England	Beercat	2.8	2	1:26	2	4	
2.Rich Miller Sperry Jenny Phoenix,AZ		1.75	3	1:35	1	4	6
3.Doc Martin Miama ,FL	Windham Tandem	3.2	2	1:11	4	6	-8
4.Dave Linstrum Provo,Utah	Dornier Komet	2.0	2	:59	5	7	-7
5.Marc Allison,Corvallis,OR	Sky Pup	2.42	1	:57.3	6	7	-5
X.Doc Martin Miami	Goldwing	2.2	3	1:22	3	6	
6.Rich MacEntee Largo,FL	Fike	1.4	1	:57	7	8	
7.Ric Choate Tampa FL	Fike		1	:44	9	10	
9.Don Brimmer St. Pete,FL	Hi Max		1	:39	11	12	
8.Sidney Gilbert Sarasota FL	Fike		3	:50	8	11	
11.W.Schlesinger St. Pete,FL	Cougar		2	[30	12	14	
10.Dick Harker Kewanee,IL	Hi Max	2.6	3	:43.7	10	13	-10
12.Larry Seals Phoenix,AZ	Elias Airccoupe	4.2	2	:25	14	16	-2
13.Richard Klingenberg Kewanee,IL	Pietenpol	2.5	3	:29	13	16	-4
14.Ralph Hudson Phoenix,AZ	Tipsey Junior	2.3	2	:12	15	17	

DID NOT FLY:: Gert Brendel, Netherlands, Volksplane 1.65 Gm. Blown Motor -(3)
Harvey Pastel Taube biplane 2.5gm. His cat ate it.

MODEL OF A MODEL

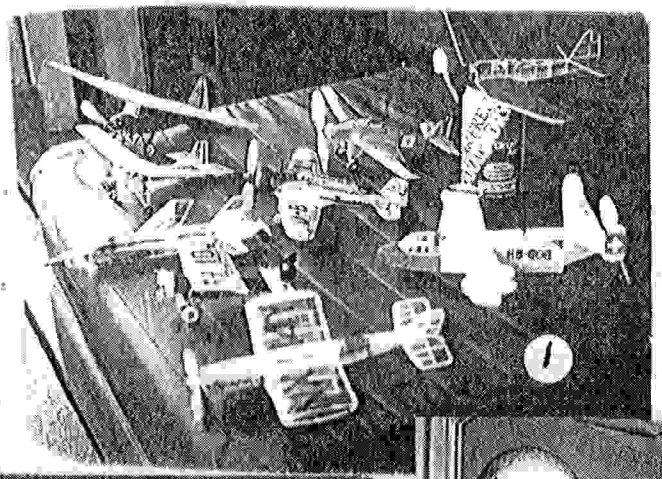
L .Rich MacEntee	PK-23	1:28 -(8)
2.Dave Linstrum	Pussy Cat	1:24
3.Frank Hirleman	Lincoln City OR	:54.1
4,Geo Nunez Sr.	Miami Streamliner	:40
5,Don Brimmer	Boston Found	:39
6.W. Schlesinger	Pussy Cat	:27

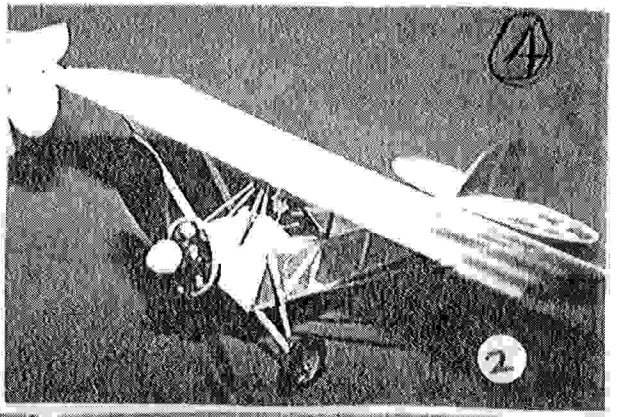
Photo (1) is a fleet of pistachios by Doc Martin + Dave Arensteen.
(2) Harvey Pastel - WWI Ursinus seaplane

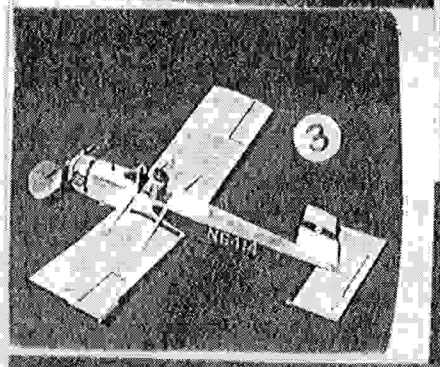
My vote for the worst publicized contest of 1996 was our own MIAMA Pistachio Inter Gnats. So little information appeared, and so few club newsletters picked up the information, that the 14th MIAMA Inter-Gnats was an embarassment. We thank profusely those entrants who responded to the anemic publicity. THIS YEAR WE ARE GOING TO DO MUCH BETTER..STARTING NOW, By the way my vote for the BEST PUBLICISED EVENTS ARE AS FOLLOWS: Tom McCoy's promotion of the Korda SAM Wakefield event on an international scale, and last years promotion of the JIMMY ALLEN postal event. You could NOT pick up a magazine without reading about JIMMY ALLEN. Way to go,guys you CANNOT have too much exposure!

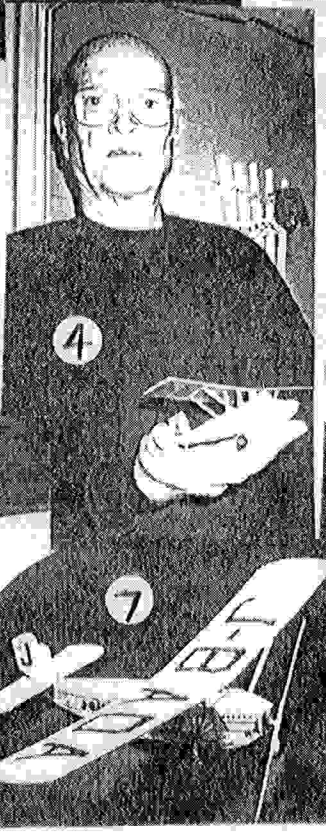
We apppal to our fellow newsletters to pass on the Pistachio Inter-Gnats info, AND WE WILL PROMOTE YOUR EVENTS. Let's do it, pilots, we need to pass on the information!!

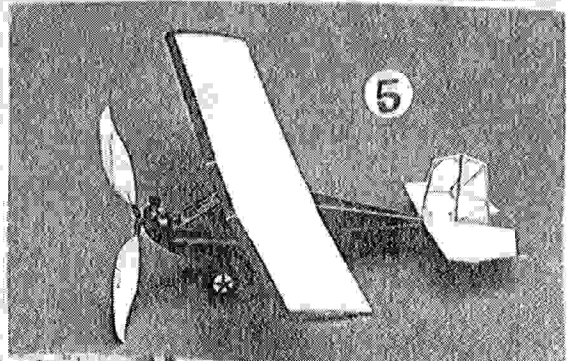
OTHER NEWSLETTERS PLEASE COPY: MIAMA PISTACHIO POSTAL INTERGNATS Starting Oct. 1 and ending FEB 1: postal Pistachio event for Pistacio Scale, Model of a Model, and Ridotto models, Send MIAMA a photo of your model, it's weight without rubber, and it's span, with it's best time. This is INTER-Gnats #15. Let's have a good photo page1 For MIAMA PISTACHIO RULES : Doc John Martin. 2180 Tigertail Ave. Miami, FL, 33133 More opportunities to fly your Pistachio: PROXY: INTERSCALE 1997, Maastricht, Netherlands Aug 29,31. NAGOYA NUTS. Proxy Pistachio AND Peanut Aug 14,15 For entry forms write MIAMA HQ.

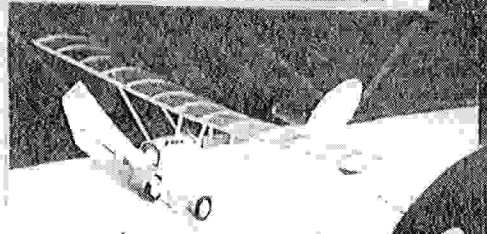

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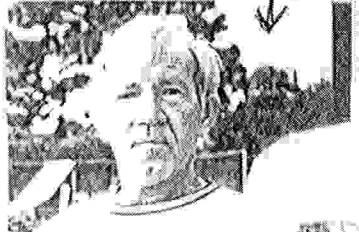

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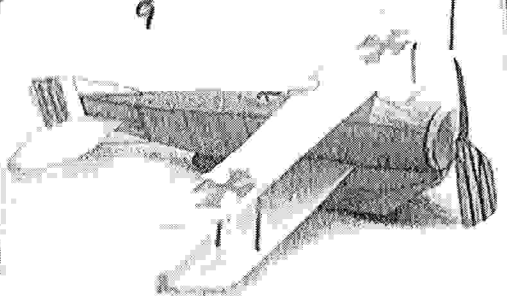

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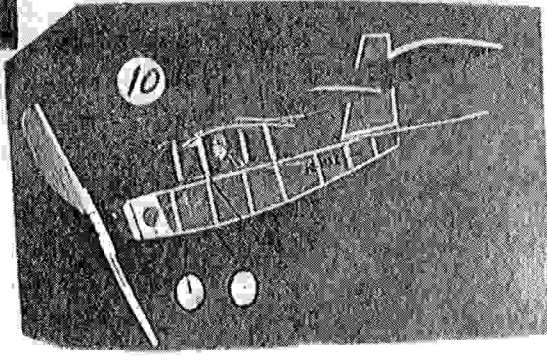
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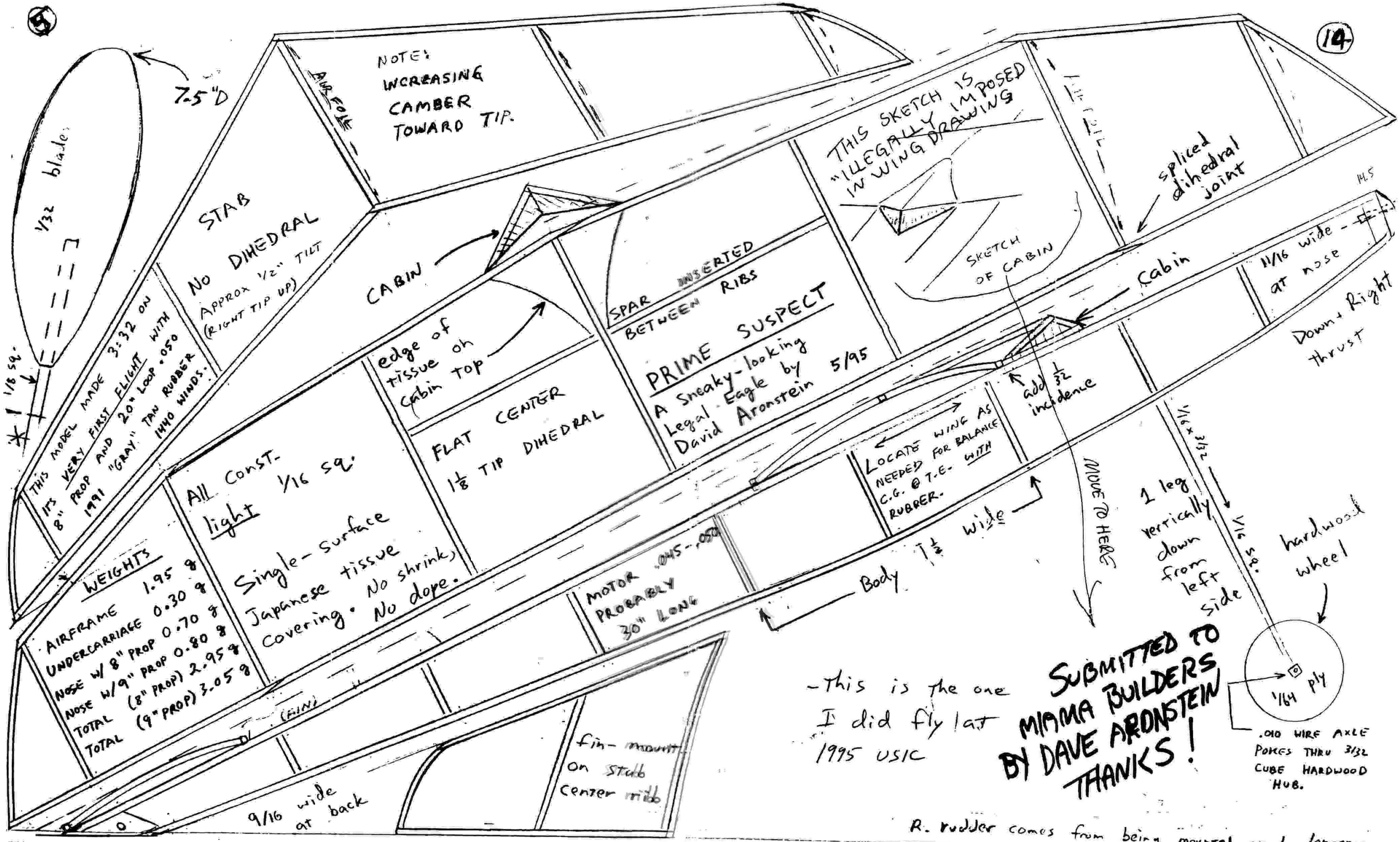

8


6




9


10



-This is the one I did fly at 1995 USIC

SUBMITTED TO MAMA BUILDERS BY DAVE ARONSTEIN THANKS!

R. rudder comes from being mounted on L. longeron

THE INDOOR MODEL HOBBY (GA)

MIAMA Miami Indoor Aircraft Model Association

The effect of building a model airplane or of waTCHING ONE FLY IS SIMILAR TO THE complete absorbtion one has when playing chess or golf,or watching a tank of colorful tropical fish, or a flight of hawks circling in the sky. It puts a part of your brain to sleep--the part you desperately want to go to sleep. The part of your brain that constantly reminds you of pain ,sorrow,disappointment failure, worry, war, death and taxes. On the other hand , the many fascinating aspects of the model airplane hobby opens another part of your brain. The part you enjoy being awake. The part that deals with creation, innovation,imagination, inspiration. The artist, the poet, the craftsman, the inventor in you is stirred to action. When this occurs we. older modelers know you are hooked for life.
INDOOR MODELS-- We know you know the other kind. The kind that costs $800, weighs 10 pounds, and flys at 80 MPH. These are great and popular models,too. We're the other guys. Our planes cost a couple of bucks, weigh about as much as a cigarette, and fly quietly for minutes on a skinny loop of rubber band. They are flown in any large room..the larger the better. Typically a gymnasium, but also an auditorium,hangar, warehouse, fair exhibit hall,Masonic hall, ball room. They can be built in a few days with simple tools, a building board, and inexpensive materials.
GETTING STARTED...Plenty of books, kits, and plans are available to get you started. DO NOT EXPECT TO GO DOWN TO YOUR LOCAL HOBBY STORE TO PURCHASE THEM. They aren't there. You will have to go stricktly MAIL ORDER for indoor models. Many of us used to build these stick and tissue models as kids, but they never flew well..NOW they will.

If enough are interested we are proposing competition for VA individuals or teams. Flying in gyms, or rehab halls. Flight times are recorded, and sent to contest headquarters. These competitions can be local or National.

FOR FURTHER INFORMATION: Dr. John Martin MIAMA
2180 Tigertail Ave, Miami, FL. 33133

Don Ross 38 Churchill Rd. Cresskill, NJ 07626

Bruce Scott Dir. Sports & Rec. Paralyzed Vets. of America
801 18th St. Wash. D.C. 20006 1-800-424-8200

THE FIRST THING YOU SEND FOR IS THIS FOR $2.00 THIS IS A MUST DO. It is a list of All mail order businesses in UAS. From this list you can send off for all other INDOOR MODEL books and suppliers

COTTAGE WINGS BILL WARNER 1370 Monache Ave. Portersville,CA 93257
Ask Bill to Accent the indoor items. All other reading will spring from this comprehensive source.

RECOMMENDED READING

BUILDING + FLYING INDOOR MODEL AIRPLANES by RON WILLIAMS

Rubber Powered Model Aeroplanes by Don Ross. About $15. In Mill Valley library. A good overall guide to building and flying a wide range of models.

Hey Kid Ya Wanna Build A Model Aeroplane? by Bill Warner. A detailed guide to building, trimming and flying two simple rubber powered models available as kits. Two other books follow in the series and cover the *Sky Bunny* and *Flying Aces Moth*. About $8 each.

Indoor Scale Model Flying by Fred Hall is a concise guide to many areas of concern, i.e., model selection, construction, propellers, rubber choice and trimming. About $8.

These, and other books available from **Hannan's Runway**, P.O. Box 210, Magalia, CA 95954. Tel. No. (916) 873-6421. Bill Hannan has authored a series of excellent books emphasizing "Peanut" class .. 13" span scale models.

WINNING INDOOR DESIGNS RALPH KNIGHT USIC

INDOOR ISN'T FOR EVERYONE
THE OLDER YOU GET THE BETTER INDOOR LOOKS

IF YOU REMEMBER BARNEY BAXTER - You're ready for INDOOR



THIS IS THE MASTHEAD OF OUR CLUB PUBLICATION LIKE A LETTER FROM HOME" Wheland

SUBSCRIBE

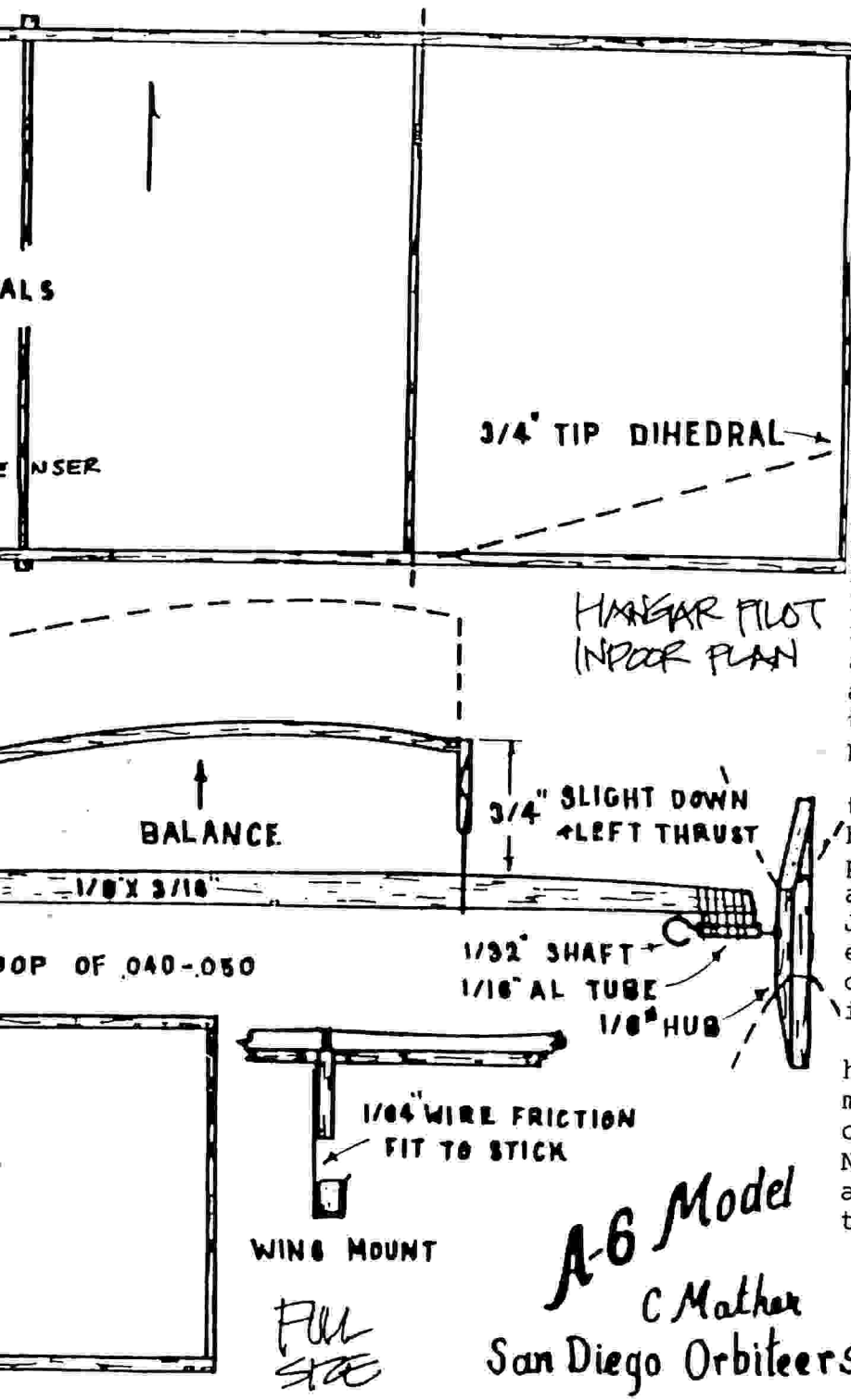
THE HANGER PILOT

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) - [redacted]. 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,]-views, complaints, gripes and compliments to: Dr.John Martin Jr., President / Editor, 2180 Tigertail Ave., Miami, FL 33133 USA. Phone: 305-858-6361.

[redacted]

AMA Club 3624, Flying Aces Club 11

Hangar Pilot Rates: USA $12.50..Canada $14.00 Overseas $15.00

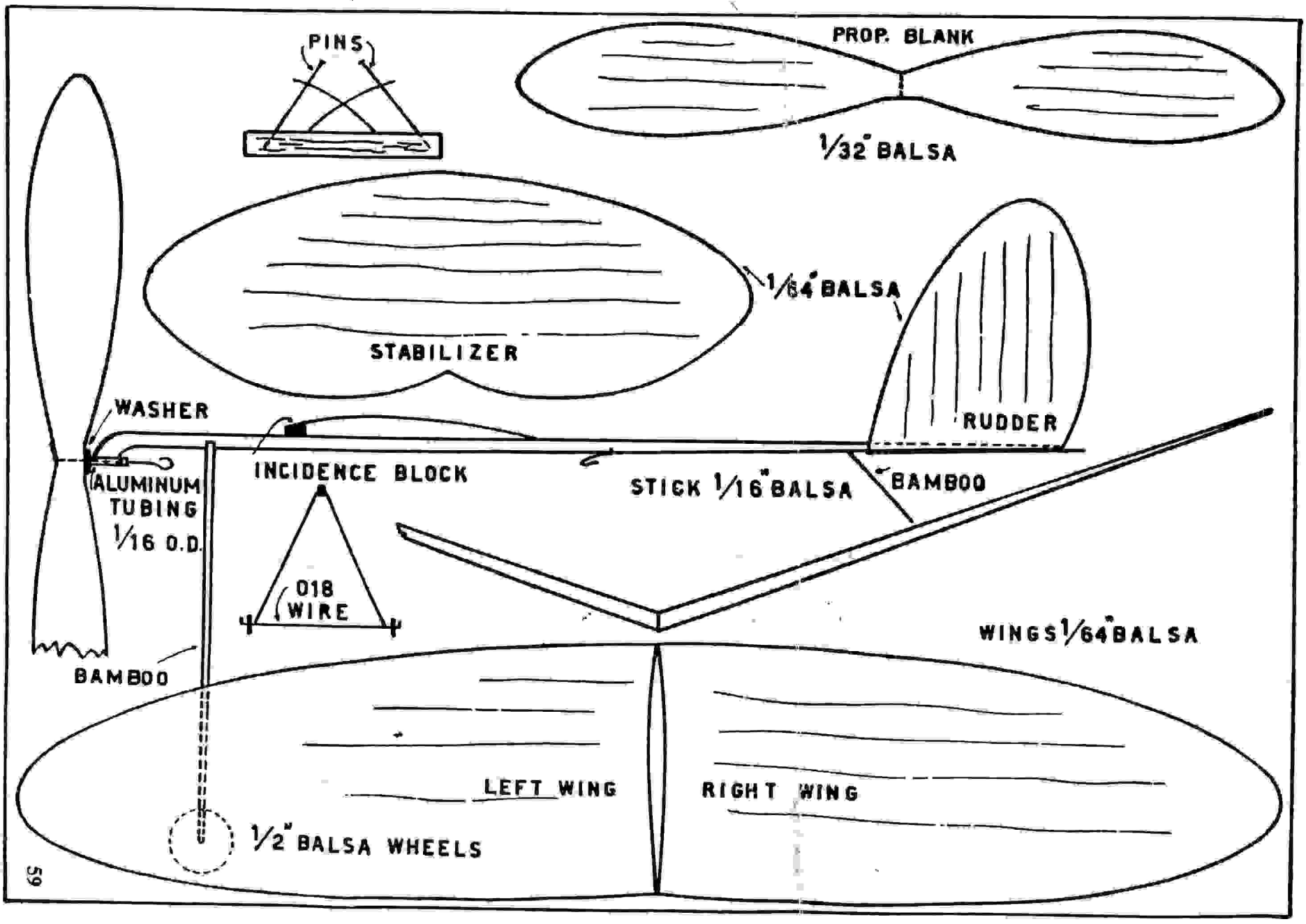


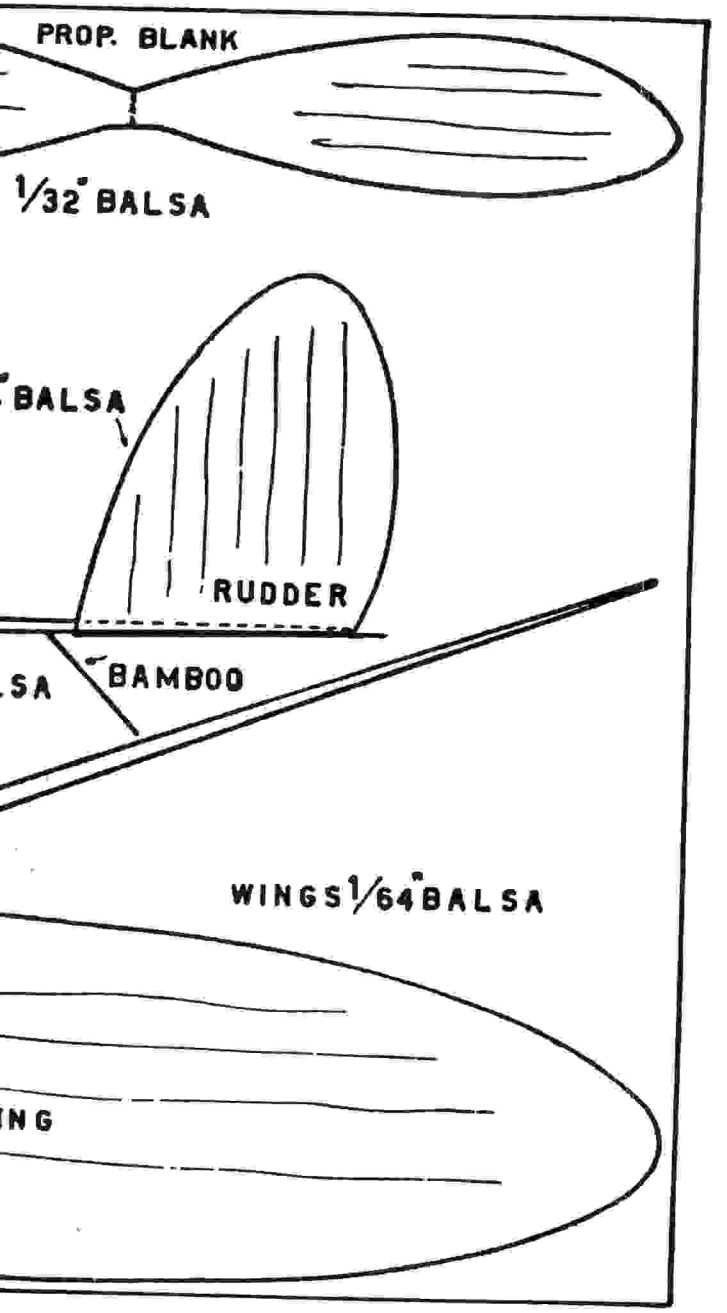
FOR PVA: (BA)
PARALYZED VETS. OF AMERICA

This eight page brochure was distributed to the Disabled American Veterans . The competition and recreation div. felt that the model building hobby would fit in with archery, skeet shooting, fishing, , and canoeing as an ideal pastime for the disabled. We agree. The PVA would like to start a pilot program to build and fly free flight models. If the Veterans Hospital in your area has a gym, an auditorium, or any suitable place to fly get in touch with MIAMA and we'll procede from there.

With modifications, this brochure can be used by you, or your club to promote indoor in your area. The NFFS video "The Joy of Flying Free" is excellent in that fully one third of the video is indoor flying.

Remember, you still have to bring your demo mini-stick, or parlor-mite on every occasion. No one knows what you are talking about until they SEE a Mini-stick fly.


PINS
PROP. BLANK
1/32" BALSA
1/64" BALSA
STABILIZER
RUDDER
WASHER
ALUMINUM TUBING 1/16 O.D.
INCIDENCE BLOCK
STICK 1/16" BALSA
BAMBOO
018 WIRE
WINGS 1/64" BALSA
BAMBOO
LEFT WING
RIGHT WING
1/2" BALSA WHEELS



PRESENTING THE INDOOR MOTH

(12A)

INDOOR MODEL SUPPLY

ENDURANCE RUBBER MODELS

COPTOR $6.50

THE "EASY B" 18" Span $7.50

IMS Glider 12" Span $4.95

THE SLOWPOKE 16" Span
Weight 2 Pennys $6.95
Plastic Prop

Salem 6 $4.95

3 Parlor Planes $10.95

The Novice Penny Plane
10" Span 18" Span $9.95

INDOOR FLYING MODELS

"FLAPPING FLYER" 24" Span $10.95

3 I.M.S. MINI STICKS 7" Span $10.95

AT LAST!
Lew Gitlow's NEW BOOK!
134 Pages, 8 1/2" x 11" $22.00

13" SCALE AIRCRAFT KITS • 3-VIEWS & HISTORY-$9.95
• AERONCA K 1937
• ALCO SPORT 1929 • WATERMAN RACER 1921
• ZIPPY SPORT A.R.V • HEATH PARASOL 1928

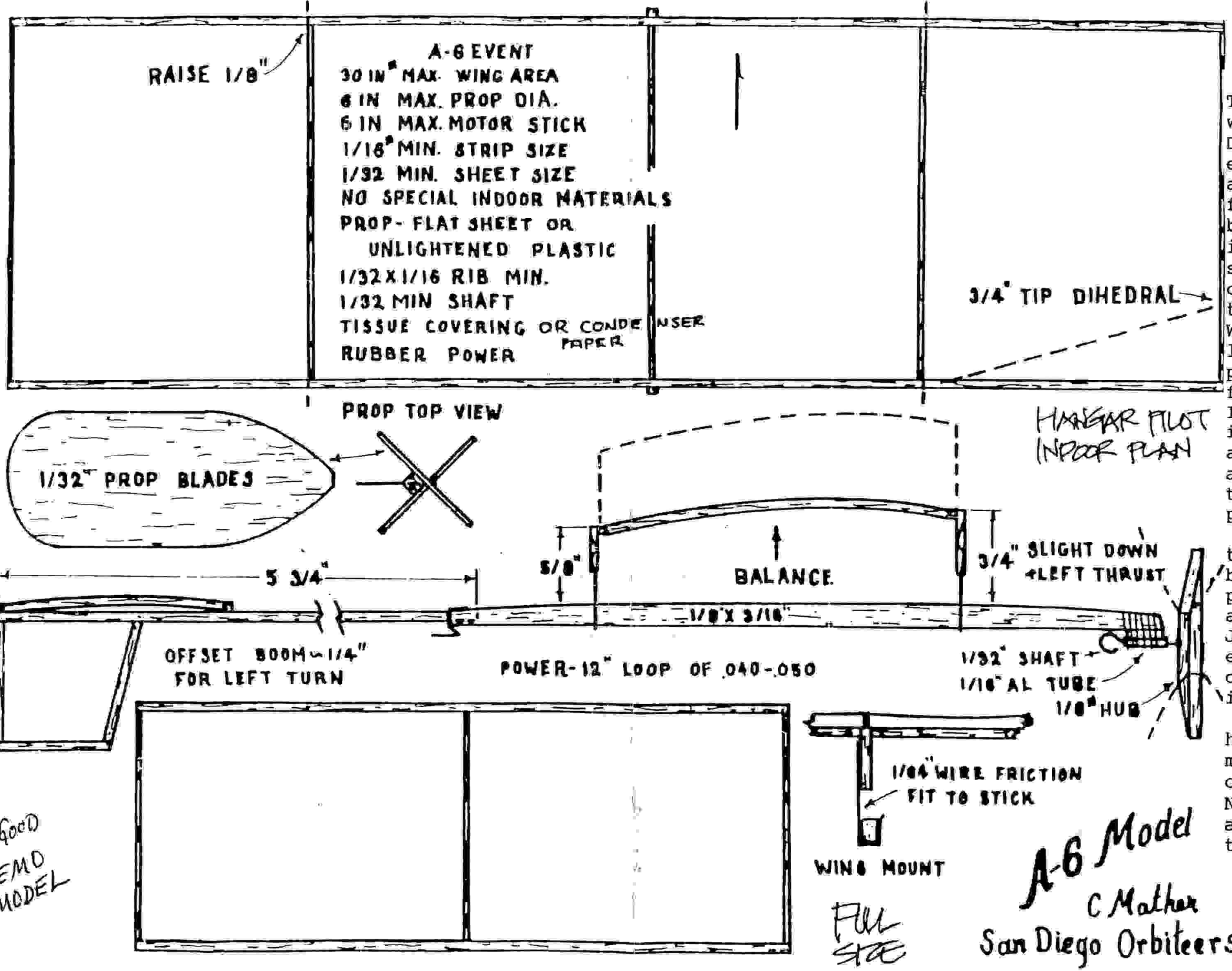
POLYMICRO .00285 OZ/100 Sq.In.-15 ft.-$12.00

• INDOOR BALSA PACK $11.95 • P-NUT PACK $11.95
• JAPANESE TISSUE - 18"x22" 7 color roll - $8.95
• CONDENSER PAPER $3.95 • 12 FT. ULTRA FILM $7.50
• RUBBER LUBE $2.50 • BALSA CEMENT $2.50
• THRUST BEARINGS Mini Dual or Dual $1.00
• RUBBER .025 to .090, .005" increments each $2.65
• 6:1 WINDER $9.95 • 15:1 PRO#1 $16.95

ADD MINIMUM POSTAGE $4.00
NEW 18-PAGE ILLUSTRATED CATALOG - $2.00

BOX 5311, SALEM, OR 97304

LEW'S NEW BOOK - INDOOR FLYING MODELS - IS WORTH HAVING.



A-6 Model

C Mather

San Diego Orbiteers

WHY FLY INDOOR MODELS? REASONS !

(12A)

HARDY PLANES--LESS CRASH DAMAGE

Because most indoor planes weigh less than 1/2 ounce they fly slowly. Thay have very little inertial energy to dissipate in a crash. Usually they fly into walls,ceilings, basketball hoops, spiral dive to the floor,etc. with no damage.

Likewise if they hit someone, or a finger contacts a spinning prop,no injury results.

LOW COST

The average kit costs $4.00 to $10.00 including covering,motor & prop,and landing gear. Most planes can be scratch built for $2 to $3.00.

SILENT POWER-

--no permanent hearing loss due to noise damage to nerves.

FLYING CONDITIONS

-Warm in the winter, airconditioned in the summer. Fly when it is raining or stormy & windy.

NO SUNLIGHT EXPOSURE

--ultraviolet light exposure accumulated over the years causes skin cancer(can be fatal) and eye cataracts.

CHALLENGING

- Planes can be powered by rubber, CO2, electric, or handlaunch

-Radio control is now becoming achievable.

-Lighter than air models can be flown such as blimps or balloons.

- Build your own props with variable pitch or variable diameter or your own blade shape & design & pitch.

-Duration can be from 20 seconds to 30 minutes or more. Current world record (unofficial as yet) is 63 minutes 54 seconds with a dead stick landing from 15 ft altitude.

- Ornithopters are flown (birdlike with flapping wings for lift).

- Ministicks or small helicopters can be flown in your living room.

-Autogyros,-ducted-fan jets such as F-18 fighter,- lifting body models, are flown. Even sailplanes have been towed aloft with rubber powered "peanut" models.

13

TRIMMING & FLYING

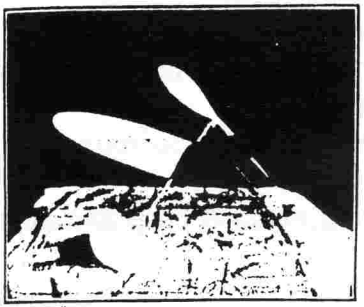
-- is different than radio controll or controll line. All input to the plane by the pilot is accomplished prior to launch, no correcting in flight for instability or warped flying surfaces or turbulence.

VISION CHALLENGED

-Persons with poor eyesight or poor hand to eye coordination can enjoy the sport !

(13A)

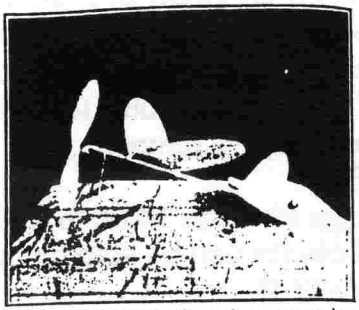
Presenting the Indoor Moth



This photo illustrates the super-plus flying lines of this neat model. It's a mighty pretty plane—and it flies even better than it looks! That large prop gives the Moth 15 to 20 seconds endurance on 'way less than a hundred turns.

A stick model that's got EVERYTHING when it comes to indoor flying—that's the Moth. And we know what we're talking about, for this trim little job took off in the FLYING ACES office and buzzed around everybody's head just to prove it. Very likely you'll be able to get ten spirals out of your Moth; but be sure to read the last paragraph of this article if you do!

o o o



On this side view of the tiny craft you can see how the all-balsa wing is fitted to the stick. Also note the special nose structure. As will be seen above, the rear motor hook is placed just aft of the wing.

By Louis Garami

MAY, 1936

ARE the spring rains keeping your outdoor models in their hangars? If so, it's time to roll out your indoor moth. For the few hours' work invested in putting one together it will give you barrels of fun in the living room—and it's one of the most educational of stick models.

Just imagine a small airplane flying around in your room at such a low speed that you can observe all its movements and flying tendencies without getting a stiff neck following it around. Our Moth is that kind of a craft because it is extremely light. Its large propeller gives it a 15 to 20 seconds endurance with only 60 to 90 turns, thus reducing the wearisome labor of winding it up. The adjustments are easily made on the thin, paper-like surfaces allowing many different types of flights and stunts.

Stick and Propeller

THE stick is made of 1/16" thick medium balsa. Note that the rear half is tapered toward the back to make it lighter. The nose comes down like a beak, and for the bearing we use a small piece of aluminum tubing which is cemented over several times (as should be done with all metal-to-balsa contacts). The rear hook is bent out of .018 wire and glued into the stick 4" from the front. The two landing gear struts are 1/16" x 1/32" bamboo while the spreader bar is .018 wire. These bamboo struts are to be sharpened at the ends and forced into the stick 1 inch from the nose. For wheels we use 1/16" soft balsa. After making two half-inch circles with a pair of dividers, cut them out with a razor blade and sandpaper them lightly. The wire axle should be bent up on both sides outside the wheels to prevent them from falling off. The tailskid is a piece of 1/32" sq. bamboo. Do not make it any heavier because the added weight in the tail will spoil the balance of the ship.

For the propeller we use 1/32" medium sheet balsa. Copy the blank and cut it out with a razor blade. Now hunt up a block of wood 2" x 7" and at least ⅛" thick. Soak the propeller blank in hot water for a few minutes and pin the blades down to the block of wood the way the sketch shows in the plan. After it is pinned down you can adjust it in such a way that the hub will be perpendicular to the board. Now let it dry. If you want to speed up the drying process, place the whole thing in a warm (not hot) oven for about 10 minutes. The propeller shaft is made of .018 wire. Be careful in making the hole in the hub for it because the wood splits easily. The best instrument to use is a small pin or needle. A small brass washer is cemented to the propeller hub, as shown in the plan.

Wings and Tail Group

ALL the surfaces are made of 1/32" soft, sheet balsa. Note that the left wing is larger than the right wing in order that the torque of the large propeller may be counteracted. Using a small sanding block, sandpaper the wings and tail surfaces until you get them down virtually to the thickness of a business card. Now if you cement the two half wings together, they should form a slight camber and the proper dihedral at the same time. While the wing is drying you can cement the stabilizer to the underpart of the stick. The rudder is set slightly to the left side.

After this is done, get a small rubber band about three and a half inches long and hook it in between the propeller shaft and the rear hook. Now balance the whole thing on a knife edge and mark the spot with a pencil. Proceed to cement the small incidence block 1 inch ahead of this spot and finish the whole plane by gluing the wing in place.

Flying

THIS model gives the best performance if it is adjusted to fly in left circles about 10 feet in diameter. The stabilizer, the rudder, and the left wing generally are the units to adjust when things go wrong. First get the desired circle with your rudder by warping it to the left about a quarter of an inch. If the model dives while flying in a small circle, give it less rudder or bend elevator flippers up a bit. Sometimes warping down the left wing's trailing edge will cure diving and in other cases using a thinner rubber band will make her behave much better. In case of stalling, just bend the elevators down or give it a little more left rudder.

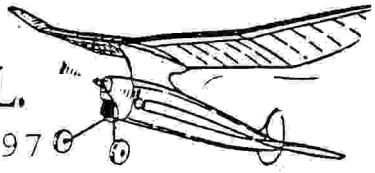
After experimenting a few times, you will know this model like a book. And if you ever succeed in getting ten circles in your room, don't get swell headed—because I have gotten eleven.

(15)



SAM 46
FREE FLIGHT CONTEST
PALM BAY, FL.

May 3rd & 4th 1997



CD - Don Brimmer
5924 16th Lane N.E.
St. Petersburg, FL 33703
(813) 525-6667
Alternate CD
Les Alonzo
1012 W. Peninsular St.
Tampa, FL 33603
(813)229-1083

HEADQUARTERS
DAYS INN - PALM BAY
4700 DIXIE HWY NE
(800)777-6044
MUST ASK FOR
ANN GAGLIARDI
FOR SPECIAL RATE $33.00
MUST STATE SAM 46 CONTEST
AT TIME OF RESERVATION
LOCAL #(407) 951-0350

COLLECTO - DAYS INN
SATURDAY NIGHT
$1.00 DONATION
7:00 - 10:00 P.M.

Contest Times: SAT 7:00 AM - 5:00PM SUN 7:00AM - 3:00PM
ALL EVENTS 2 MINUTE MAX

SAT. Nov. 16
1/4 A NOSTALGIA
1/2 A GAS J/SO
A NOSTALGIA
A GAS
S.L.O.P.
O.T. ABC PYLON
P-30
O.T. HLG
O.T. RUBBER CABIN/STICK SM
1/2 A EARLY NOSTALGIA
CAT GLIDER

SUN Nov. 17
ALL GAS SHOOTOUT 7:15 A.M.
1/2 A NOSTALGIA
B-C NOSTALGIA
O.T. ABC FUSELAGE
B-C-D GAS
HLG J/SO
O.T. RUBBER CABIN/STICK LG
.020 REPLICA

TEXACO AND FAC EVENTS MAY BE FLOWN ON EITHER DAY
BUT MUST FINISH SAME DAY

1/2 A RC TEXACO
OPEN 1/2 A RC TEXACO SCALE
OPEN A RC TEXACO
OPEN 1/2 A RC TEXACO

FAC Embryo Endurance
FAC Golden Age
FAC No-Cal Scale
FAC Old Time Stick
FAC Rubber Scale
FAC Jumbo Scale
FAC Dime Scale
FAC O.T. Gas (Elec/CO2)
FAC Peanut Scale
FAC Power Scale
FAC Old Time Rubber

THESE FAC EVENTS AND MORE

Engine Runs
O.T. Ignition - 20 SEC ROG, 15 SEC HL
O.T. GLOW - 12 SEC ROG, 9 SEC HL
NOSTALGIA - 9 SEC GLOW
NOSTALGIA IGN - 12 SEC

OPEN - $8.00 first event plus $3.00 additional $20.00 MAX
SENIOR - $7.00 first event plus $3.00 additional $15.00 MAX
JUNIOR - $5.00 total
FAC- Kannones Only - $5.00 first event, plus $1.00 additional events, $10.00 MAX
********HELMETS REQUIRED FOR ALL CHASE BIKES********

RELEASE: I the undersigned contestant/parent, do hereby certify that I release any all all organizations connected with this meet from all claims which may arise with said meet. I further certify that I am the builder of all models entered and flown by me as covered by A.M.A., FAI and SAM rules.

Print Name _____ A.M.A. No. _____
Address _____
City _____

FAC MASS LAUNCH 9:00 MODERN AGE
11: BIPLANE

The 1997 WATER WINGS TROPHY - ENTRY FORM

Come on in, the water's lovely! Put down your bucket and spade, build a model flying boat or floatplane, and join in the Water Wings Trophy (WWT). This is a postal precision contest for FREE FLIGHT model waterplanes. Any type of power may be used; vintage or modern designs are equally welcome, including scale types. Perhaps you have a particular design in mind, or built already? If not, the Model Aircraft Plans Handbook (APS) is a good starting point, especially the X-list. Flights may take place anywhere suitable, at any time from 1st JUNE to 30th SEPTEMBER.

There are 2 categories: Rise-Off-Water (ROW) first; and Hand Launch (HL) second. HL entries need not be capable of ROW, but they MUST be able to float in a reasonable attitude. A trophy is awarded for the top ROW performance; a second award may be made for the best HL entry, if there are sufficient numbers. So don't be put off if you can't find a suitable ROW site, or your ROW attempts are unsuccessful (or you daren't risk it!).

Possible ROW flying sites:
Some parks have boating pools next to the playing fields, some model flying sites have rivers adjacent. Some beaches have acres of land, and shallow water (especially at low tide). There's no rush, so wait for ideal conditions with the prevailing drift in the best direction.
A portable floatplane pool, set up by Peter Giggle, may be available at some of the popular meetings at at Old Warden and Middle Wallop. At approx. 11 feet diameter, this is intended primarily for rubber models with a lively take-off performance.



Your objective is to achieve 3 consecutive flights, the first flight time being the "target" for the 2nd and 3rd flights. Each must last 20 seconds or more. For ROW, this includes the take-off run, but the model must be airborne for at least half the recorded time. If any of the 3 flights (or attempts at flights) fail to reach 20 seconds, or you think you can improve, you may try again with a 2nd or 3rd set of 3 flights, and enter the best set of times. If 2 or more entrants achieve the same error from target, the higher target times place higher in the Table of Results. If these are equal also, the tie-breakers will be consulted!

If after achieving 3 satisfactory HL flights an opportunity arises to progress to ROW, you may then attempt up to 3 sets of 3 ROW flights. If this endeavour is unsuccessful, you may still enter your earlier HL results.

If you can't achieve 3 adequate flights at all, send in what you can. Non-qualifying entries will be listed at the bottom of the results table in order of merit, so you might not be last! To enter more than one model (3 maximum), just copy the form and enter the extra details. Tick (✓) options as appropriate. Good luck!



How to enter

Make 3 flights as described, between 1st JUNE & 30th SEPTEMBER, and enclose the following with your completed entry form:

A. 1 x SAE or IRC (for table of results).
B. 2 first class postage stamps (token entry fee).
   Overseas entrants may send 5 to 10 photocopied sheets of interesting aeromodelling-related material! A few pages from your club newsletter, perhaps?
C. 2 photos of your model (if possible), at least 1 with it on the water (flotation test!)

To be received by 10th October 1997.

Send to: C. Jeffreys (WWT)
17 Ashmore Gardens
Hemel Hempstead
Herts. HP3 8NZ
ENGLAND



Focke Wulf Fw. 190 A

METHOD ENDORSED BY RIC CHOATE - MIAMA MASTER BRAIDER

BRAIDING SINGLE LOOP RUBBER MOTORS by Mike Nassise, TAILSPIN

First, let me begin by giving full credit to Tom Sanders of the SOTS club who described this technique in his wonderful "Bay Watch" article that was published in the October '96 issue of *Flying Models* magazine. I had been searching for a clearly written description of how to braid a single loop rubber motor for quite some time, and there it was in a magazine delivered directly to me by the US Postal Service. By the way, with the demise of *Model Builder,* only *Flying Models* remains as a commercial publication in which a good deal of space is given over to the subject of Free Flight. It deserves strong support from everyone of us.

That said, on to the braiding procedure. First, grasp the piece of rubber (unlubed of course) that you have cut for your motor at its midpoint so that two strands of equal length are formed and either tie a small loop or put in an O-ring. This will create the prop hook end of your motor. Now, have an assistant hold that end firmly or simply clamp it down to some stationary object like your workbench. Do not tie the knot for the motor peg end as yet!

Now comes the nudgy part. Taking one of the strands, twist the rubber 36 times (Tom suggests 24 times but I found that didn't produce a tight enough braid) for every 12" of length. For example, a 24" strand would be twisted 72 times. Having completed twisting the first strand, repeat the job with the other one. Naturally, you'll have to have your assistant hold the strand that's already braided so that it doesn't come undone, or do as Tom does and clamp it between your teeth. Finally, bring the two separately twisted strands together and triple knot. A drop of Hot Stuff on the knots is a good insurance step at this point. Also, any excess rubber should be snipped off so that it doesn't flap around in your fuselage.

OK, now we're ready for the fun part. Don't ask me what's happening during this stage because I don't have a clue. At any rate, grab the motor at the knot position, release the front loop, and swing the whole thing around over your head three or four times like a rodeo cowboy. Believe it or not, when you check out your motor you'll find it neatly braided and ready to go. Finally, lube the motor thoroughly (silicone lube is the best by far) and use your stuffer stick to install it in your model. I know it sounds strange, but Tom's technique really works. Give it a try, I'm sure you'll like it.

Balsa Dents

When you accidentally dent a piece of balsa during construction of a model, try this old cabinet-maker's trick. Put a few drops of white vinegar on it instead of using filler. The vinegar will pull 99% of the dent out! Works best overnight. Try it! It really works! Thanks to Jack Leslie, Ridgecrest, CA.

from Arelight
Kay Larsen, Editor

Ed Seay's

Indoor Peanut Postal Contest

Open only to Model Aircraft Labs Peanuts
No entry fee, $50, $30, $20 certificates
Entrees must be in by May 21 1997
Send flight time, weight and name of model to:
Model Aircraft Labs,
108 South Lee St.
Irving, TX 75060
Phone, (972) 438-9233

SAM MEMBERSHIP AND RENEWAL APPLICATIO

Subscriptions to SAM Speaks are not available without membership. Membership rates:

o 1 yr. Residents of Canada and the U.S. - $18.00
o 1 yr. Foreign - US $30.00 (Air Mail only)
o Renewal o New Membership

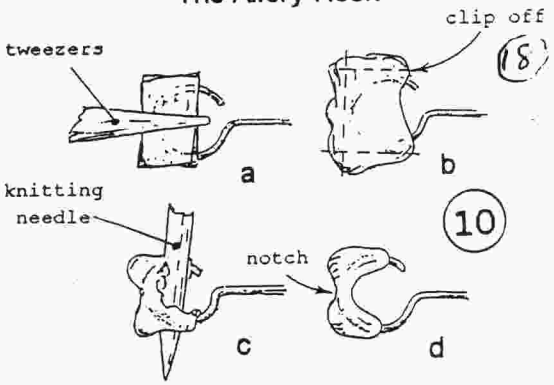
Name_____
Address_____
City_____State_____Zip___
AMA No._____SAM No._____SAM Chapter No.___
Sponsor:_____

I agree to follow the rules of the Society of Antique Modelers and uphold the principles stated in the SAM Preamble.
Signed:_____

Note: Membership in the AMA is required to fly in SAM contests. Be sure to put your SAM number on your check if renewing. Make checks payable to the Society of Antique Modelers.

Send to: Larry Clark
P.O. Box 528
Lucerne Valley, CA 92356

The Alfery Hook



10

Fig.10. First make a hook, round or diamond. Sandwich it between two thin strips of fusible plastic. Hold these layers with tweezers over a small gas flame (a). When the plastic starts melting together, remove the tweezers and mash the plastic with cool flat nose pliers. Clip off the excess with diagonal pliers as indicated by the dotted lines (b). Re-heat and mash again. With a knitting needle hot enough so that the plastic will stick to it, melt out the center hole and the back notch (c). Very carefully heat and watch the plastic oozing into a smooth contour (d). The rubber band will permanently seat itself in the notch.

Alfery is the top European builder of FF scale models. His hook and fabrication method slightly differs from Koutny's. I will mention that in my next installment, but only briefly to provide more space for a discussion of matters concerning bearings and winding hooks.

WHAT'S ON IN FREE FLIGHT ?

May 3,4. PALM BAY Don Brimmers SAM SPRING MEET. SAM events with a full plate of FAC events, mass launches. THIS IS MEET 1 OF 4 MEETS IN THE SUMMER FAC SERIES
MAY 21: MAL Peanut Postal deadline
MAY 28,JUNE 1 JOHNSON CITY TENN. THE BIGGIE. INDOOR NATS
JULY 5,6 PALM BAY Florida State AMA Free Flight Champs AND MEET #2 Of FAC/MIAMA, Summer Series 407-725-3563
JULY 19,20 GENESEO N.Y. FAC Annual
AUG. 16,17 PALM BAY Dixie Nats AMA Free Flight Champs AND MEET #3 of FAC/MIAMA Summer Series
SEPT. 6,7 PALM BAY Dist. V Champs and MEET #4 of the Flying Aces Summer Series.
DEC. 27,28 TAMPA Indoor King Orange
DEC. 28,29,30 PALM BAY OUTDOOR KING ORANGE

JULY 26 - THE ANNUAL MILLARD WELLS FAC ROW MEET ISLAMORADA FLA.

THE HANGAR PILOT
EDITOR: DR JOHN MARTIN, JR
2180 TIGERTAIL AVE MIAMI FLA
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