THE HANGAR PILOT

EVER EXCITING

16TH YEAR OF PUBLICATION

ISSUE 118

NOVEMBER 1987

- PONNIER PISTACHIO
- RESULTS, MEET ONE
- FEDERATION ROG PLAN
- OBARSKI EZB TIPS



THE GREAT COUGAR PEANUT MASS LAUNCH FINALS OCT 18 1987 USCG

COMING UP - 2 FUN FLYS
NOV 28 + DEC 6
TRIM YOUR NEW PLANES
FOR THE MIAMA + KING ORANGE MEET:
JAN 2 + 3 TAMPA FLA.

"LIKE A LETTER FROM HOME" - WHELAN

(1)



THE HANGAR PILOT

Is published 8 (or 9) times a season for a bunch of middle aged guys who refuse to grow up. MIAMA (Miami Indoor Aircraft Model Association, AMA Club 986, is the only active all indoor free flight club in AMA. Our Mottos: "It must be fun.", and "Indoor isn't for everyone." For $10.00 a year you will receive all copies. We solicit your contributions since we are always running out of material. Letters, plans, 3-views, articles, gripes, and Money to: Dr. John Martin Pres./Editor. 2180 Tigertail Ave. Miami, Fla. 33133 USA Phone: 305-858-6363 We want to hear from you!!! Send material!!!

RESULTS - MIAMA MEET I CD TONY BECKER OCT 17+18

PEANUT SCALE EVENT:	STATIC	BEST 2 FLIGHTS		TOTAL
1.John Martin Polish Canard	82.8	72.2	82.0	159.9
2.Charles Slater 14-Bis	94	59.4	58.7	153.0
3.George Leffler Cougar	76.4	60.3	68.3	140.7
4.Nancy Beitz Waco E	80.0	56.7	50.8	130.8
5.Millard Wells Eastborn	64.1	58.4	64.6	125.7
6.Carl Hedley Lasa AL 60	79.2	44.0	46.2	124.3
X " " " Cougar	78.4	46.6	45.0	124.2
X.Millard Wells Howard Pete	83.2	35	32	116.7
7.Don Brimmer Cougar	77.0	38	39	115.5

FAC SCALE:	STATIC	BEST FLY	TOTAL
1.John Martin Drweswiecki	79	48.2	127.2
2.Millard Wells Waco 17	69	55	124
3.George Leffler Hellcat	58	63	121
4.John Tudor Heinkel	63	46.7	109.7
5.Nancy Beitz Cub	51	52.4	103.4
6.Dave Linstrum Dornier	45.0	58.2	103.2
X John Martin Wildcat	52	48.5	100.5

* NEW STATE CAT II RECORD

EZB: 1.Dick Obarski 12.5!
2.Ed Burton 9:08
3.Charles Slater 8:49
4.George Leffler 4:01

PENNY PLANE: (NOVICE)
1. Ed Burton 8:25*
2. Charles Slater 8:19
3. Walter Everson 7:51
4. Mike Arak 7:10
5. Millard Wells 6:42
6. Geo. Leffler 5:37
7. Don Brimmer 3:36

HL Glider: Dan Ciesla 26.1, 25.1

Pistachio: Mike Arak 1:23 Alco Sport

RESULTS CONT. ON PAGE 12

FIRST M.I.A.M.A. MEET

USCG (2)
OCT 17+18

I don't know what it was about the last meet at the Coast Guard Hangar, but it was one ofthe best we ever had. There was something special about the atmosphere. Maybe it's because we hadn't flown together since last April 12th. Maybe it's because of the new events, or the 19 contestants, or the mass launches, or the awards dinner, Anyhow, something special was going on and everyone could feel it. It was great! Sunday is usually something of an anti-climax with fewer flyers and early departures..not so this time with many new faces showing up, and a genuine reluctance to leave even though many faced long hours on their drive home.

Tony Becker has been under the weather lately but managed to CD this most successful meet. Tony's doctor told him to lay off golf for a while just when he was playing the best golf of his career, and he is very grateful that he can still build model airplanes while he is recuperating or he would go mad with inactivity. His suggestion to add Federation ROG to our events is a big success...6 entries for the first event and many more under construction. See the center fold this issue for Linstrum's. Dave's "Stretch" Phantom Flash flew with few adjustments to 3rd place, Wells original was 2nd, and Becker won with a Skinny Minnie. Next meet we'll have a mass launch Federation event. Sat. Jan. 2 MacDill 5 PM.

Speaking of mass launch..the concept has a lot of appeal. The WW I was won by Doc Martin's Macchi Nieuport, with Nancy Beitz' 2nd and Charlie King 3rd. Nancy had so much fun she organized a peanut mass launch for Sunday which attracted 10 peanuteers. It developed into an all Peck kit Cougar finals with John Tudor 1st,George Leffler 2nd & Carl Hedley 3rd. Where were the Lacys? Next meet Sat. will be Golden age, and Sun. will be WW II..any size models..rubber power. Join us. We will use the English incentive and award a bottle of Liebfraumilch.

The Awards Banquet was one of the fewsocial occasions we have at MIAMA. I have always felt that one of the secrets of our success is that we have very few club meetings, and do lots of flying instead. All the stars of the past season were rewarded with plaques telling of their mighty deeds on the flying field. These were all mentioned in issue 116. Unfortunately George Leffler's State Co-Champion Rich MacEntee is also on the sick list and couldn't be with us. Mike Arak flew to the meet in a Cessna, and provided the entertainment with his video tape of Johnson City Mini-Dome flying. It ran for 1 & ½ hrs. and most guests watched the whole thing.

We have big plans for the next big MIAMA meet that runs concurrently with the outdoor King Orange. Here is an absolute FIRST. A two day indoor meet at TWO DIFFERENT SITES. All events both days. Sat. meet at MacDill Air Base and Sunday at nearby Delta Hangar at Tampa airport. Details elswhere in this issue. —page 12

A HANGAR PILOT ORIGINAL ARTICLE BY THE OLD MAESTRO

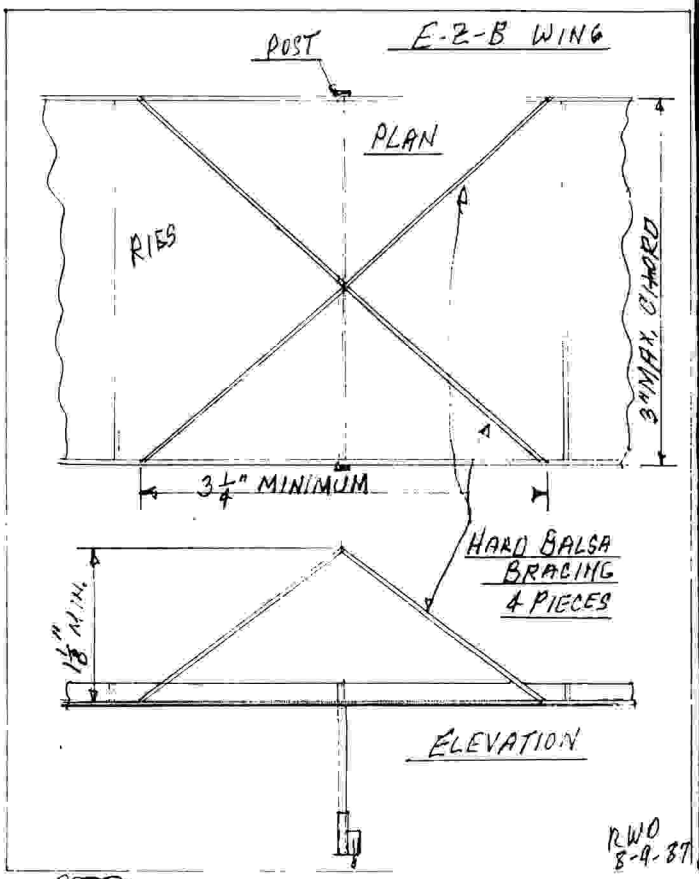
EZB Tips

One of the big problems in EZB flight adjustment is the tendency for the solid stick to twist due to the motor torque. When the stick twists, the wing does also, causing the inside wing to increase incidence. The adjustment for this is to rig the wing for a slight negative or the outside wing for a slight positive or both, so that under torque the twist will compensate.
Also bracing can be employed on wings to stiffen them. Unfortunately, most bracing does not decrease the wing twist unless full bracing with a cabane is used (as in microfilm or Int. stick models). Since only wood bracing is allowed on EZB, the repair and weight trade-off is bad news. By using a double cabane only very little weight is added and the truss effect stiffens the wing for both bending and twisting and in addition stiffens the motor stick between the wing posts. This bracing can be applied to the top or bottom surface of the wing. With this arrangement a standard trim can be used with a slight incidence on the inside wing half as is the case with a "mike" or Int.stick or other braced indoor free flight models using a R.H.propellor.
Flights of over 18min. at U.S.I.C. and 21.5 min. at Akron have been made with this bracing.
The 1988/89 rule changes will allow Microlite covering for EZB and probably make the wing twist problem an even greater one.

Further development of the "Torque Burner" for basically low ceiling flying is still progressing. More on this later.

Dick Obarski

INDOOR MODELERS, SAVE THE DATE. Our NFFS officers, Hardy and Tony, are working together with AMA to put on a really big Indoor Week at Johnson City, TN, the week of May 29 to June 5, 1988. That conflicts with the U.S. Free Flight Champs, but there was no alternative.



P-FLIGHT FIESTA SDO '88!

SUN. JAN 17 '88
SAN DIEGO/OTAY
AMA FREE FLIGHT
P-30 RUBBER
PEE WEE 30 GAS
PROXY ENTRIES:

Sponsors: San Diego Orbiteers

Dave "VTO" Linstrum

Model Builder Magazine

For Entry Info and Rules, SASE to:

P-Flight Fiesta

c/o Dave "VTO" Linstrum

4057 San Luis Drive

Sarasota, Florida 33580

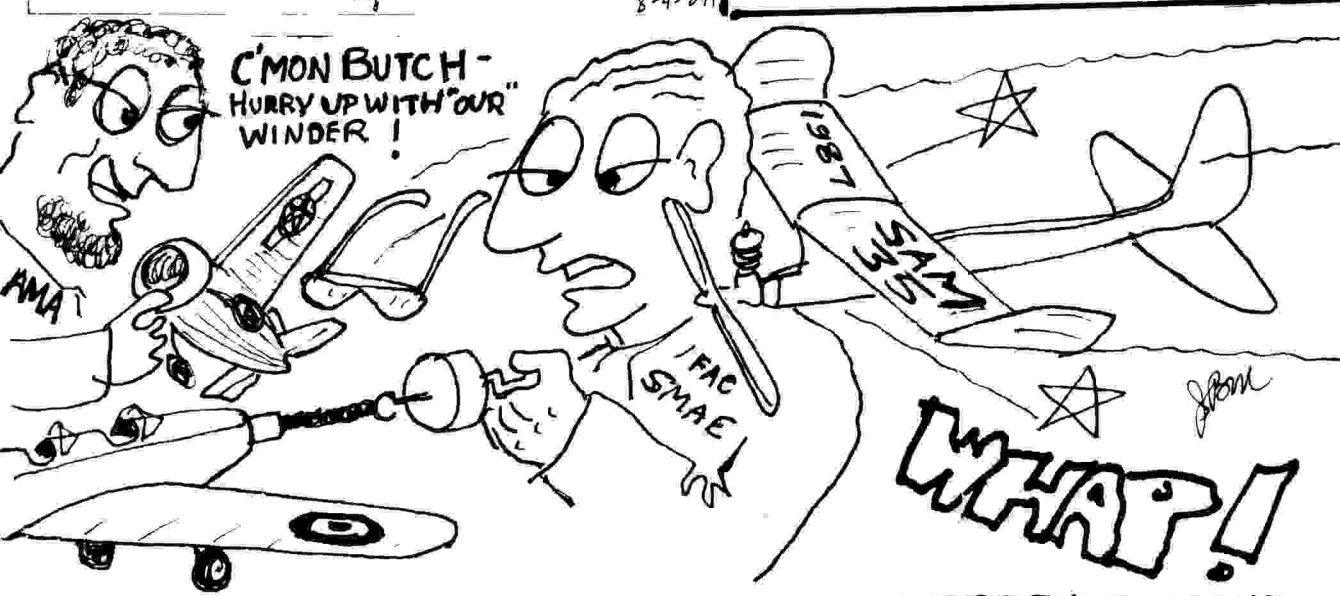
Proxy model ship prepaid to:

John Oldenkamp San Diego Orbiteers

3331 Adams Ave.

San Diego, Ca. 92116

Proxy entries must arrive by 1/8/87



DRAWN FROM LIFE - EARL STAHL FINALS - OLD WARDEN, ENGLAND

HELP, HELP

THE BELOW ARTICLE, BY DICK PHILLIPS, BY WAY OF THE AMA NATIONAL NEWSLETTER POINTS OUT ONLY A SMALL PART OF WHAT THE CLUB PUBLIC RELATIONS MAN DOES. MIAMA NEEDS SUCH A PERSON - ARE YOU THE ONE? IS INDOOR ONLY FOR THE EFFETE?

Most clubs don't seem to be much aware of their public image. When they are in danger of losing their club field, they mobilize efforts to retain it, but, by that time, it's often too late to change the course of events. Far better to establish good community relations right from the start than to try to mend fences after a problem develops.

There are a number of ways to do this, but few clubs I know of do anything about it. Let's take a look at the local media for a start.

Does your club have a Public Relations person? Someone who takes the time to establish contact with the local newspaper, radio station, and television outlet. Most clubs have a newsletter and an editor who handles it. He could readily devote some of his time to the media with significant benefit to the club.

NEWSPAPER

Making contact with the city editor of the local newspaper is a good start. His job is to put together a newspaper every day of the week. Filling all that space every day is a big job. The Sunday paper even more so, in that there is more of it to fill. The editor is often amenable to doing a feature story on the club, its facility and its activities.

Keeping the editor advised of the club's activities and its events often leads to valuable coverage. Mall shows, contests, fun flys, and meets of any kind are grist for the news mill and can garner valuable community recognition for the club.

If the club has a youth program, a pilot training program, or any other "service" type activity, the newspaper may well be interested in covering such activities. Often, all that's necessary is to call the editor, discuss the activity with him and set up a date and time for coverage.

When that time arrives, assure that the reporter/photographer team have a pit pass and someone to assist them in their coverage of the event. A knowledgeable club member able to supply any needed information will help assure accurate coverage. Supplying this help will make the next request for coverage that much more acceptable.

Put the editor (or other contact in the newspaper office) on the mailing list for the club bulletin. Who knows, there may be something we do on a regular basis which will arouse the interest of the editor and result in unexpected coverage.

Cultivating and cooperating with the newspaper can make a considerable difference in the way the club is perceived in the community. To the betterment of the club.

Most newspapers have a community calendar column or a columnist who specializes in the local scene. Both of these are subjects for club input.

NOV. 28 SAT AND DEC. 6 SUN

ARE THE NEXT TWO LOCAL MIAMA EVENTS - FUN FLYS

NOV 28 - YOUTH FAIR - NEW CAT I SITE - SMOOTH CEILING - LIMITED ATTENDENCE - CONFIRM BY CALLING KEVIN SMITH 305-251-7814 THE NIGHT BEFORE MEET.
109 AVE & CORAL WAY

DEC 6

MIAMI DADE SOUTH COLLEGE
9 TO 5
THIS MEET IS CONFIRMED

WE ENCOURAGE ALL LOCAL FLYERS TO ATTEND -
PISTACHIO MASS LAUNCH
PEANUT MASS LAUNCH
FEDERATION MASS LAUNCH
FUN FLY

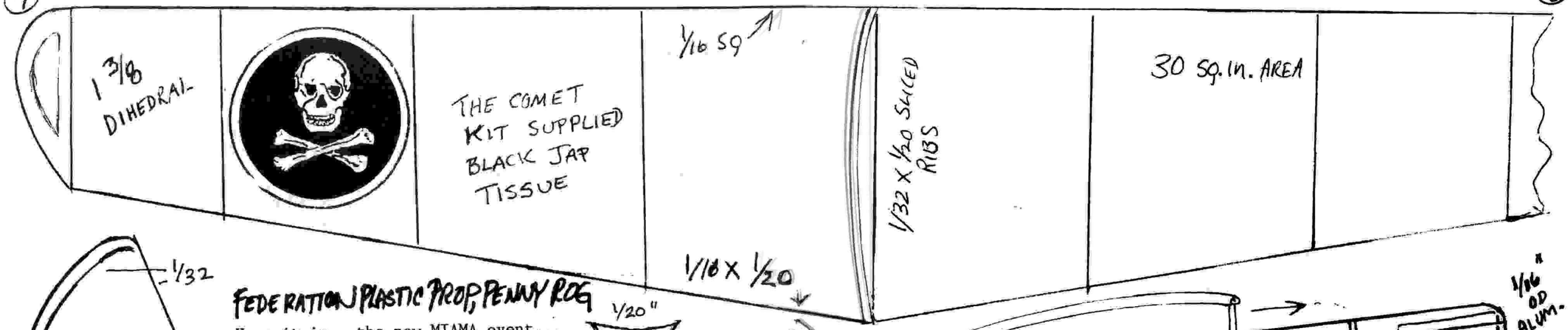
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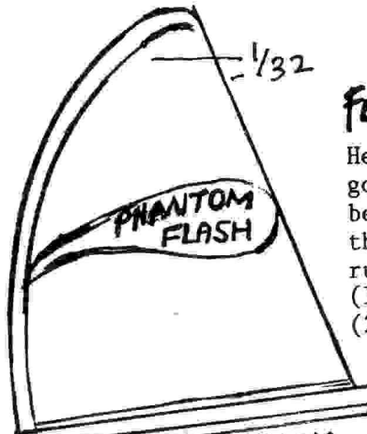
POWERPLANT: GNOME 2 ROW - 14 CYLINDER AIR COOLED ROTARY ENGINE. CARVED WOOD PROPELLER. 160 HORSEPOWER.

THIS AIRCRAFT FLOWN BY EMILE VEDRIN AN AVERAGES SPEED OF 123 M.P.H. P

Ponnier 1913

PISTACHIO SIZE 3-VIEW
SUBMITTED BY JERRY BOCKIUS

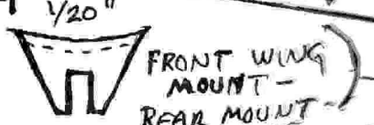


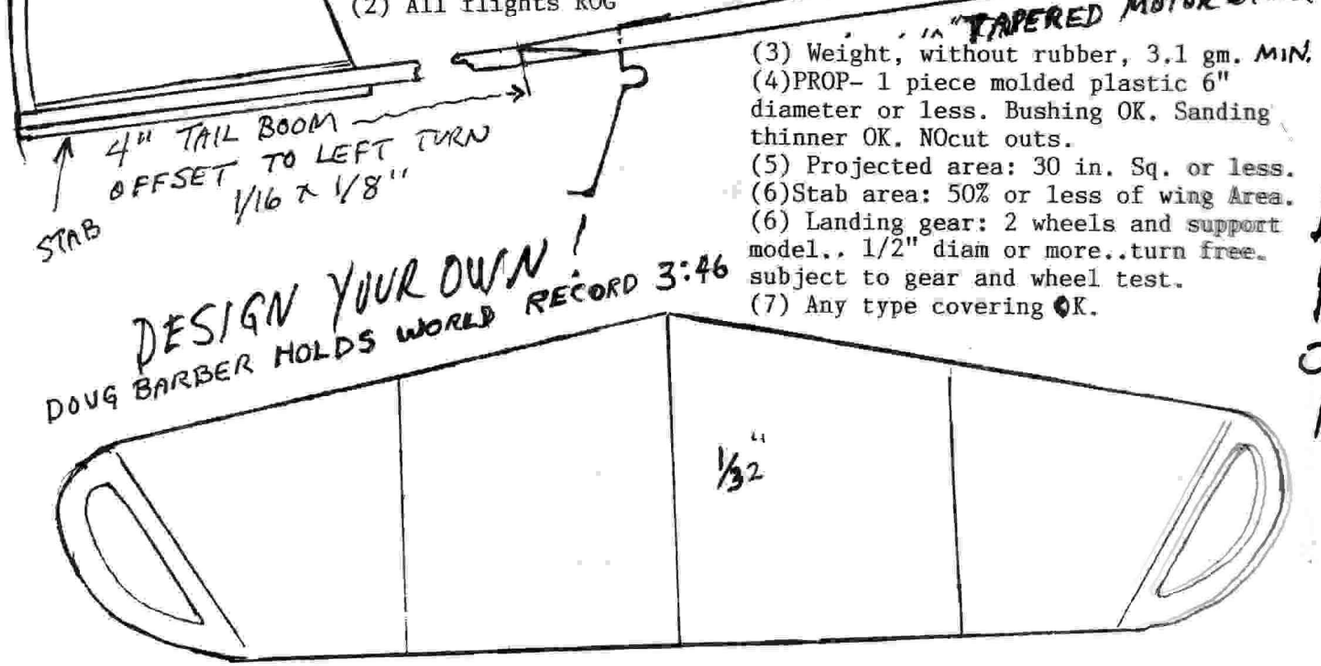


FEDERATION PLASTIC PROP, PENNY ROG

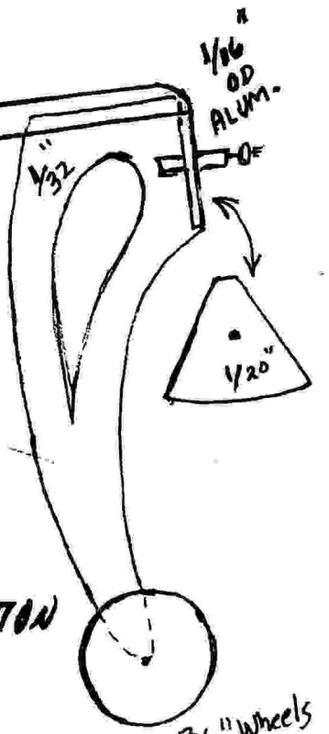
Here it is...the new MIAMA event... good for Juniors, Seniors, Open members, experts, and novices. It is the plastic prop penny ROG event. The rules are as follows

(I) Rubber power.
(2) All flights ROG
(3) Weight, without rubber, 3.1 gm. MIN.
(4) PROP- 1 piece molded plastic 6" diameter or less. Bushing OK. Sanding thinner OK. NOcut outs.
(5) Projected area: 30 in. Sq. or less.
(6) Stab area: 50% or less of wing Area.
(6) Landing gear: 2 wheels and support model.. 1/2" diam or more..turn free. subject to gear and wheel test.
(7) Any type covering OK.





CHECK C.G. - WING MAY BE WAY FOREWARD OF PLAN POSITION - DEPENDING ON HOW MUCH WEIGHT YOU SANDED OFF THE PLASTIC PROP. DAVE USED A MIDWEST 6" D. UNSANDED



DESIGN YOUR OWN!

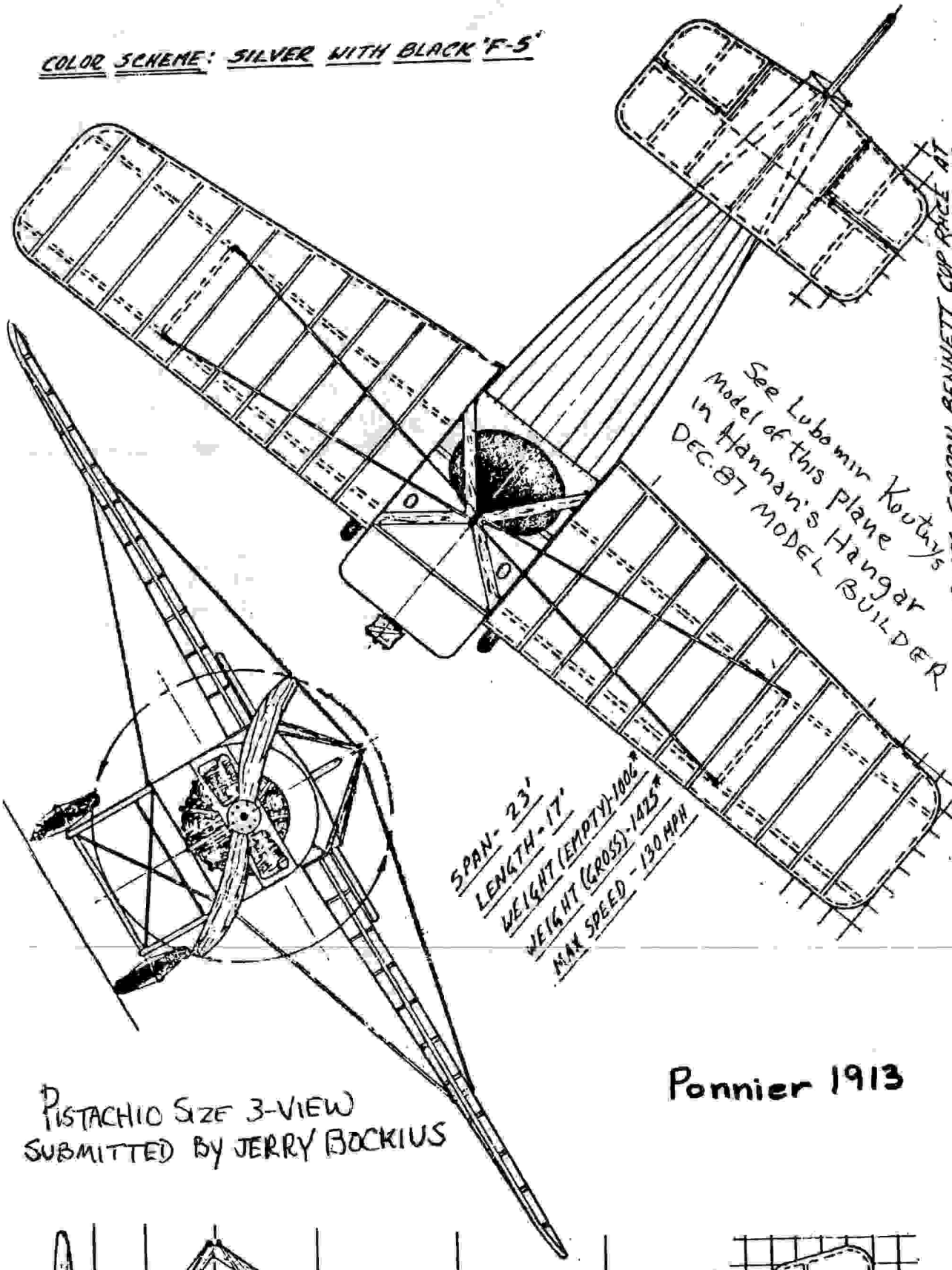
DOUG BARBER HOLDS WORLD RECORD 3:46

DAVE LINSTRUM'S "STRETCH" PHANTOM FLASH MODIFIED FROM JOE KONEFES' COMET KIT TO A FEDERATION ROG. 3RD PLACE, MIAMA MEET!

WT 4.5 gm - COULD HAVE BEEN LIGHTER - TIME: 2:31 17" LOOP OF .055 Y16" FOAM 3/4" Wheels

A GOOD START FOR THE FEDERATION ROG EVENT TRY ONE! HE BUILT IN ONE EVENING.

COLOR SCHEME: SILVER WITH BLACK 'F-5'



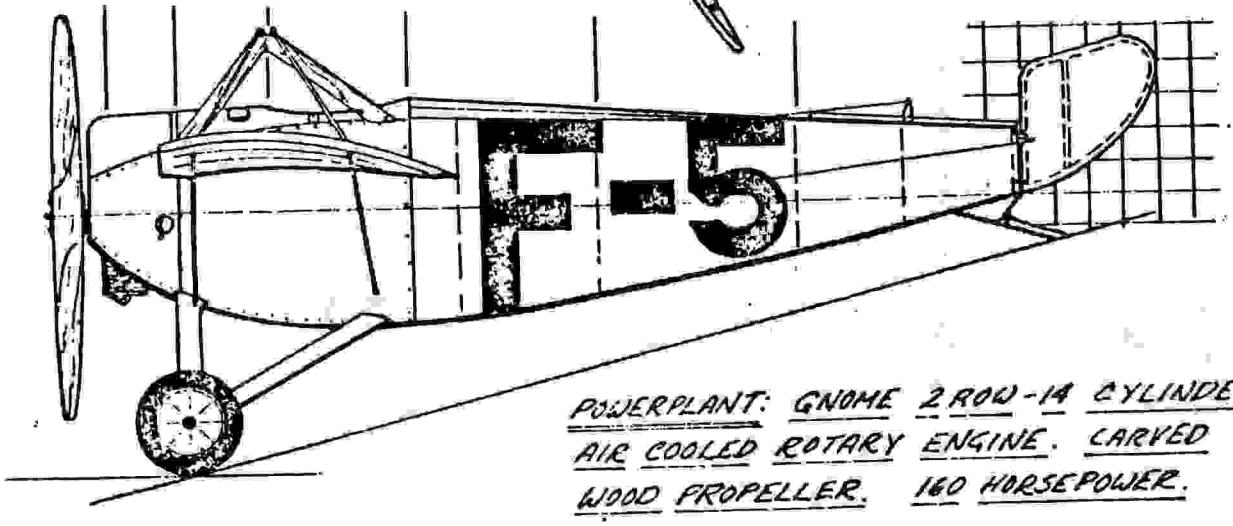
See Lubomir Kouty's Model of this plane in Hannan's Hangar DEC. 87 MODEL BUILDER

SPAN - 23'
LENGTH - 17'
WEIGHT (EMPTY) - 1006*
WEIGHT (GROSS) - 1425*
MAX SPEED - 130 MPH

Ponnier 1913

PISTACHIO SIZE 3-VIEW
SUBMITTED BY JERRY BOCKIUS

THIS AIRCRAFT FLOWN BY EMILE VEDRINES TO SECOND PLACE IN 1913 JAMES GORDON BENNETT CUP RACE AT AN AVERAGES SPEED OF 123 M.P.H. PONNIER WAS VERY SIMILAR TO THE 1911 NIEUPORT & 1912 MONEIOT RACERS.



POWERPLANT: GNOME 2 ROW-14 CYLINDER AIR COOLED ROTARY ENGINE. CARVED WOOD PROPELLER. 160 HORSEPOWER.

KING ORANGE INTERNATIONAL and Winter Old Timer Champs (10)

FLY OUTDOOR & INDOOR KING ORANGE

Sponsored by
FLORIDA MODELER'S ASSOCIATION

Malabar, Florida

Date: Jan. 1, 2, & 3, 1988
Place: Malabar/Palm Bay, Fl.
Entry Fees: Open: $9.00 First Event; $2.00 each additional event
Senior: $7.00 First Event; $1.00 each additional event
Junior: $5.00 First Event; $1.00 each additional event.

C.D.: Frank Mock
7208 Branchwood Ct.
Tampa, FL 33615
Ph.: 1-813-886-3028

AMA & O.T. events will be flown from 8:00 A.M. to 5:00 P.M. on Fri. & Sat. and from 8:00 A.M. to 3:00 P.M. on Sunday - 2 min. max.

FAI events will be flown 5 rounds Fri. & 5 rounds Sat. Round 1 will start at 8:00 A.M., Round 2 at 9:30 A.M., Round 3 at 11:00 A.M., Round 4 at 1:30 P.M., Round 5 at 3:00 P.M. each day. 3 min. max.

Unlimited Mulvihil will be flown early Saturday A.M. at a time agreed to by participants.

Nostalgia Gas will be flown per NFFS rules with 9 sec. motor run V.T.O. or R.O.G.

O.T. models will be flown per Sam rules. Exception being Glow engines permitted.
Engine runs: .020 & Glow 12 sec., Spark ign. 20 sec. All flights R.O.G.
O.T. authenticity will be required.

MOTEL: DAYS INN CORNER OF I92 + I95 305-724-5840

High Point: Contestant must select six events at time of registration. One point will be awarded for each contestant beat in each of these six events.

O.K. TO RETRIEVE BY MOTOR BIKE

Goldberg Memorial Award - Awarded to the highest official score attained by a Carl Goldberg designed old timer model.

FRI Jan. 1	SAT Jan. 2	SUN Jan. 3
1/2 A Gas	A Gas	B Gas
C Gas	D Gas	AMA Gas Scale
Coupe D'Hiver	P-30	A-1 Glider
Handlaunch Glider	Unlimited Mulvihil	FAC Peanut Scale
1/2 A Nostalgia	AMA Rubber Scale	ABC Nostalgia
O.T. C Pylon	P-30 Jr.	O.T. B Pylon Gas
O.T. C Cabin	O.T. A Pylon	O.T. B Cabin Gas
FAC WWI Shootout	O.T. A Cabin	X Special F-4-F
FAC Rubber Scale	O.T. Rubber Stick	Pee Wee 30
O.T. Rubber Cabin	FAC WWII Shootout	O.T. HLG
	Embryo Endurance	X STAHL WILDCAT

Circle events entered and in addition mark with astrik (*) those events selected for High Point Computation.

FAI Power, FAI A-2 Glider, FAI Wakefield (See note above)

11

THE SAD STATE OF F/F AT THE AMA NATS

An open letter to those whom this may concern: (OR Here we go again.)

From: Dr.Sandy Frank
NATS Management Committee
F/F Category Manager
105 North Brazos
Weatherford,TX 76086

SEPT 28, 1987

This is being drafted on the day following a full meeting of all involved in planning the 1988 NATS.

This meeting was Sept. 24-27,1987 in the Tidewater area of eastern Virginia. (Va.Beach,Chesapeake,Norfolk,Portsmouth)

During this meeting the philosophy of the NATS was repeated by both John Worth and Vince Mankowskie which was as follows:

The NATS is mandated by the AMA Council to be the most inclusive model airplane contest, gathering and "happening" of and for model aircraft enthusiasts which the AMA produces.

Although the competition is to be of high quality -- it is not mandated to be the selection of the countries best modeling in a competition -- it is to be held at an alternating site with the "BEST AVAILABLE" facilities at that site to be used.

The following is a description of those "BEST AVAILABLE" sites:

Indoor Site NORFOLK SCOPE

Is a domed convention center whose main floor is 113 ft. by 227 ft. It has a clear open span of 65 ft. in height and then has a suspended catwalk with wires and obstructions which are in a circular ring with an "obstructed" height to the top which is 110 ft. The top half of the site is somewhat open but provides many hazards to indoor models.

Outdoor Site Soil bank land near Navy Microwave facility

It is one of the largest clear plots of land in the Tidewater area. (Most all undeveloped land in the area is either WETLANDS or native TALL PINE forest which cannot be traversed.)

This plot measures about 1.5 miles by .8 miles. It is surrounded by impassable tall pines which would render any and all aircraft which fly away off the plot as lost with -- NO!-- hope nor chance of retrieval. Though the plot is open land 1/4 is bordered by a field of corn. It is promised that this plot will be freshly turned over by rough plowing at the time of the NATS (it is now in beans and in current condition would be unable to be crossed) The plot's ability to be traversed when freshly rough plowed is unknown.

THE DITCHES

Lastly there exists manmade drainage DITCHES which are in varying and right angle patterns. These DITCHES are approximately 300 feet apart. They traverse and crisscross the entire plot. Most of these DITCHES are NOT able to be crossed by foot or trailbike. Though all of the plot is potentially accessible NO straight line retrieval is possible.

This is presented as an accurate description of the sites.

No implied USABILITY, UNUSABILITY, SUPPORT, nor REJECTION of these sites should be inferred from this report.

It is presented so that the AMA Council will have my description of the "BEST AVAILABLE" sites in the Tidewater area.

Respectfully,

H.Sanford Frank Ph.D.
AMA L/69

TO GET TO DELTA HANGAR
N. ON DALE MABRY TO TAMPA STADIUM
L. ON BUFFALO AVE TO DEAD END, THEN RT.

MIAMA INDOOR MEET 2 AND KING ORANGE INT.



Y'ALL COME DOWN TO THIS UNIQUE EVENT
CD DICK OBARSKI 1-813-634-8683
EVENTS: AMA PEANUT + FAC SCALE, BOSTONIAN (7gm)
INDOOR EMBRYO (10gm) PENNY PLANE, EZB, GLIDER, FEDERATION ROG (3.1gm)
MASS LAUNCH EVENTS: ① SAT 4 PM GOLDEN AGE ② SAT 5 PM FEDERATION
③ SUN. 4 PM WWII | ALL EVENTS BOTH SAT + SUN - BOTH SITES!
SCHEDULE: TWO DAY MEET AT 2 DIFFERENT SITES - A FIRST
FOUR DAYS OF INDOOR FLYING AT EXCELLENT HANGARS
JAN 1 - PRACTICE + FUN FLY - HANGAR 5 MAC DILL AFB TAMPA (67FT)
JAN 2 - DAY 1 MIAMA + KING ORANGE - MAC DILL 9 TO 5
JAN 3 - DAY 2 MIAMA + KING ORANGE - DELTA MAINT. HANGAR (70FT)
JAN 4 - FUN FLY - DELTA HANGAR - TAMPA AIRPORT
MOTEL - EXPRESSWAY INN - CORNER DALE-MABRY + GANDY BLVD., TAMPA

MEET 1 RESULTS - CONT.

BOSTONIAN EVENT: 2 best flights X Charisma

★1.Millard Wells	1.2	1:49.2	1:46.7	268.4
2.Geo Leffler	1.2	1:30.3	1:35.9	223.4
3.Dave Linstrum	1.2	1:23.5	1:20	200.2
4.John Tudor	1.8	51	58	196.2
5.Carl Hedley	1.7	34	34.7	116.7

INDOOR EMBRYO EVENT: Total of 3 Best flights

★1.George Leffler	253.7
2.Dave Linstrum	253.3
3.Bill Criss	134.6
4.Don Brimmer	129

★ NEW CAT II RECORD

NEW CAT II RECORD

FEDERATION ROG:

1.Tony Becker	2:48
2.Millard Wells	2:44.2
3.Dave Linstrum	2:32
4.John Tudor	2:18
5.Doc Martin	1:55.4
6.Carl Hedley	1:18.5

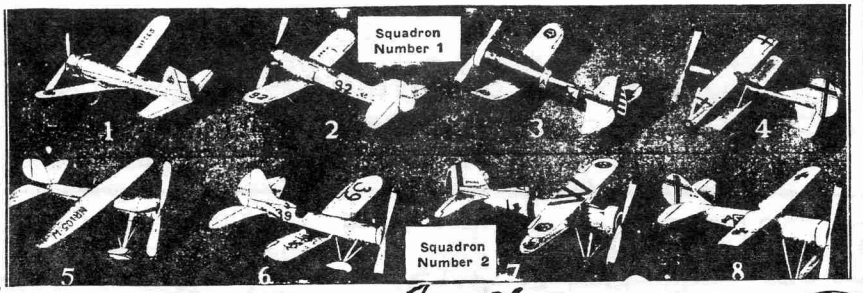
ROG Stick record Attempt
Dick Obarski 8:10

(13) ORIGINAL PISTACHIO MODELS - ANYONE HAVE PLANS?

Tired of Building Solid Models That Can't Fly???

IMAGINE

Lindy building a plane that *couldn't fly!*
Byrd constructing a ship that *couldn't float!*
Ford building an auto that *couldn't run!* !



Color Circular FREE! Please send 3c stp. for amazing details of Model Builder's Portable WORK-BENCH, line of "500-Times-Flite - Tested" Planes, new Pigmy Flying Scale Kits. HURRY!

DEALERS! Jobbers! Agents! Write on letterhead for Profit Plan. Pigmies are RED HOT SELLERS! Order now—SEE!

Pigmy Planes FLY!

ANY 4 60c POST PAID — ALL 8 $1 POST PAID

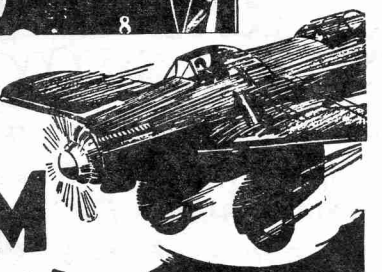
Add 5c postage each on orders for less than 4! Fellows!—there's as much difference between building Pigmy Exact Scale FLYING models and the old-fashioned SOLIDS as there is between riding Tom Mix's horse "Tony" and a solid hobby-horse! EAGLE-CRAFT'S beautiful, new, exact ¼" scale Pigmy Flying models are causing a positive SENSATION—everybody's building and FLYING THEM! NOT cardboard models! NOT solid—but made using our marvelous NEW BALSA-type VENEER—with RUBBER MOTORS! Cost you only 15c each (plus 5c postage if you order less than 4). They'll even rise off ground! Besides being exact scale, they have the EXACT colors of big planes they're modelled after! After big fun flying 'em—they'll look GREAT as ornamental models on shelf, mantel, table or in room! Easily built—yet a FASCINATING challenge to your skill!

EACH KIT IS COMPLETE in bright "Gift" box. You get "CEMENT, RUBBER, MOTOR, or marvelous new printed BALSA-type VENEER, printed balsa wood, wire parts, balsa prop, exact colored insignia, dummy pilot and machine guns (where type calls for same), clear FULL-SIZE plans, Giant sheet of "Step-by-Step" Instructions . . . everything needed to build and fly! Any 4, 60c postpaid. Build both squadrons, all 8, for $1 postpaid! (No less than 4, add 5c postage each.)

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They Rise Off Ground! Stunt! Zoom! and Look Beautiful!

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ARMY "ACE" FIGHTER!

Announcing a new kind of "two-bit" kit . . . the new Army "Ace" Fighter—with those new type GULL WINGS! Fellows . . . this fighter is 10" x 7"—a flyin' fightin' demon—a FULL quarter's worth. YES, SIR! BOTH SIDES OF WINGS ARE COVERED! NEW FUSELAGE CONSTRUCTION METHOD! Highest quality materials . . . a NEW standard of quality for 25-cent kits. Your money back if it isn't A Number 1. Complete kit includes Pilot, printed balsa, wheels, wire parts, finest Jap rice tissue, PANTS, Cyclone rubber motor, CEMENT, 2 Balsa Machine Guns, etc. . . . everything needed. Will outfly big "25c" crates! Rush 25c plus 5c postage, now! Nothing like it anywhere!

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PIGMY KIT Given with each Eagle, Cloudbuster, P.9-C2 Kit!



THE EAGLE! Fastest in Air! 13"x12". Forward angled landing gear. "3" Former fuselage top. "Step" plan. Complete Kit, 75c plus 10c Postage.

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Size: 19½" x 14" SPECIAL FEATURES: First to have genuine navy color trimmings. Top wing fairing "streamlined" TO FUSELAGE! Authentic "built-around" pants. Air wheels! Built-up motor cowling. Special REMOVABLE TAIL-PLUG. Entire fuselage covered. Accurate in detail—a flying tool! Complete construction kit REDUCED to $1.50 plus 15c pstg.





WE ARE LOOKING FOR THE ABOVE PLANS

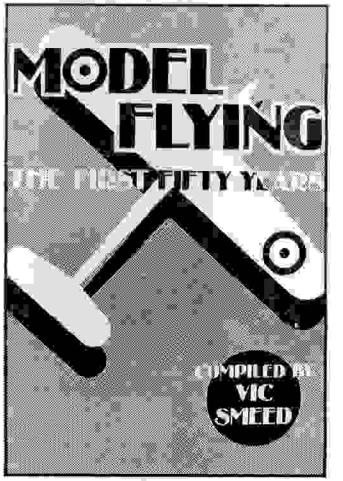
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USA INDOOR FINALS –

1988 F.A.I. TEAM SELECTION TUSTIN, CA. SEPT. 5.6.7

1	CEZAR BANKS	44:25	44:39	10:51	—	42:25	38:55	—	22:53	—	19:20	
2	BUD ROMAK	38:22	43:35	44:15	43:23	44:23	38:18	36:01	—	1:55	38:38	
3	STEVE BROWN	7:16	15:09	40:24	38:42	42:08	41:18	39:03	39:58	45:25	DQ 3	
4	BOB RANDOLPH	14:01	43:04	43:09	38:06	39:32	10:45	42:35	—	13:31	36:13	
5	JOE FOSTER	39:21	41:42	39:27	35:23	38:15	37:56	42:44	29:12	40:02	38:26	
6	LARRY CAILLIAU	13:48	38:26	24:43	39:31	40:18	40:01	12:59	36:30	36:34	40:19	
7	LEW GITLOW	—	40:15	29:38	32:30	39:18	9:10	10:58	25:45	—	29:35	
8	LARRY LOUCKA	35:17	34:44	38:21	12:04	37:31	—	35:06	39:10	35:03	37:31	
9	EARL HOFFMAN	9:46	4:00	37:23	—	6:18	21:21	—	37:18	38:19	25:42	
10	DARRYL STEVENS	30:13	34:48	40:35	8:31	17:19	—	—	—	—	25:23	
11	ANDREW TALIAICO	5:27	19:58	26:33	33:17	32:22	31:35	34:54	37:54	30:10	23:48	
12	RAY HARLAN	33:12	31:24	10:39	29:03	35:01	0:19	—	33:06	6:05	28:13	
13	DON SLUSARCZYK	24:07	27:26	—	—	31:45	25:04	34:34	30:26	15:42	26:19	
14	RICHARD DOIG	—	32:45	—	—	33:32	0:24	—	—	—	26:17	
15	CLARENCE MATHER	25:07	—	38:47	19:24	—	24:30	—	—	—	23:54	
16	DAN BELIEFF	25:58	—	31:30	1:40	22:23	30:34	22:59	—	—	22:06	
17	LARRY MZIK	20:23	27:00	28:47	—	34:29	24:07	29:38	26:16	32:18	22:43	
18	DON GODFREY	31:36	26:23	11:54	17:23	20:04	24:48	4:01	21:35	—	31:59	
19	E RADOFF	—	—	26:32	—	28:5	26:42	20:42	4:53	2:02	25:33	
20	RICHARD GANSLEN	K:14	15:59	12:58	5:48	20:01	13:37	K:09	27:43	27:35	25:18	

Just out – Argus Book's latest. Following the success of Fifty Years of Aero Modeller, Vic Smeed has culled from worldwide sources to produce the same-format Model Flying – the First Fifty Years. Green-covered compilation costs £6.95. Look for it!



1900 – 1950



NEW!

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HEY – SOME OF YOU PILOTS STILL HAVEN'T SENT IN YOUR DUES !!!

Freeborn's "Modeler's Pins", building pins with plexiglass heads. Available in wire quages .018", .025" & .030. Can be ordered from L. Freeborn, 3416 Ethelwood Dr, Jeffersontown KY 40299. They are $1.25 or $1.50 per dozen, depending on the size.



WHAT'S GOING ON? PLENTY! See You there!

NOV 14 & 15 Melborne Fl, SAM 46 O.T. Fall Meet CD Don Brimmer 813-525-6667
NOV 28 Local MIAMA Fun Fly. Youth Fair 109th Ave. & Coral Way Confirm 305 251-7814
DEC.6 MIAMA Fun Fly Miami Dade South College 9 to 5 CALL
JAN 1,2,3 OUTDOOR KING ORANGE FF CD Frank Mock 813-886-3028 Melborn,Fl
JAN 1,2,3,4 INDOOR KING ORANGE & MIAMA MEET 2 CD Dick Obarski 813-634-8683 Tampa,Fl
See pages 10 and 12 inside for details of the above two events
JAN 17 P-Flight Fiesta ,Cal..see page 4
JAN 23 -Tentative- M/D South Fly in
FEB 13,14 MIAMA MEET 3 MacDill AFB,Tampa
MAR 19 Tentative- MIAMA fly in M/D South or Cat I Record Trials
APRIL 16-17 MIAMA MEET 4 MacDill AFB,Tampa
APRIL 30-MAY 1 Florida Keys Rise Off Water outdoor FF WOW! Details later
MAY 21-22 PISTACHIO INTERGNATS M/D South College
JUNE 3,4,5 Johnson City N.C. NFFS US Indoor Champs - The Best !
JUNE 25,26 MIAMA MEET 5 MacDill AFB. Season 16 final meet

INDOOR ISN'T FOR EVERYONE

THE HANGAR PILOT

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