CONSTANTLY IMPROVING

THE HANGAR PILOT

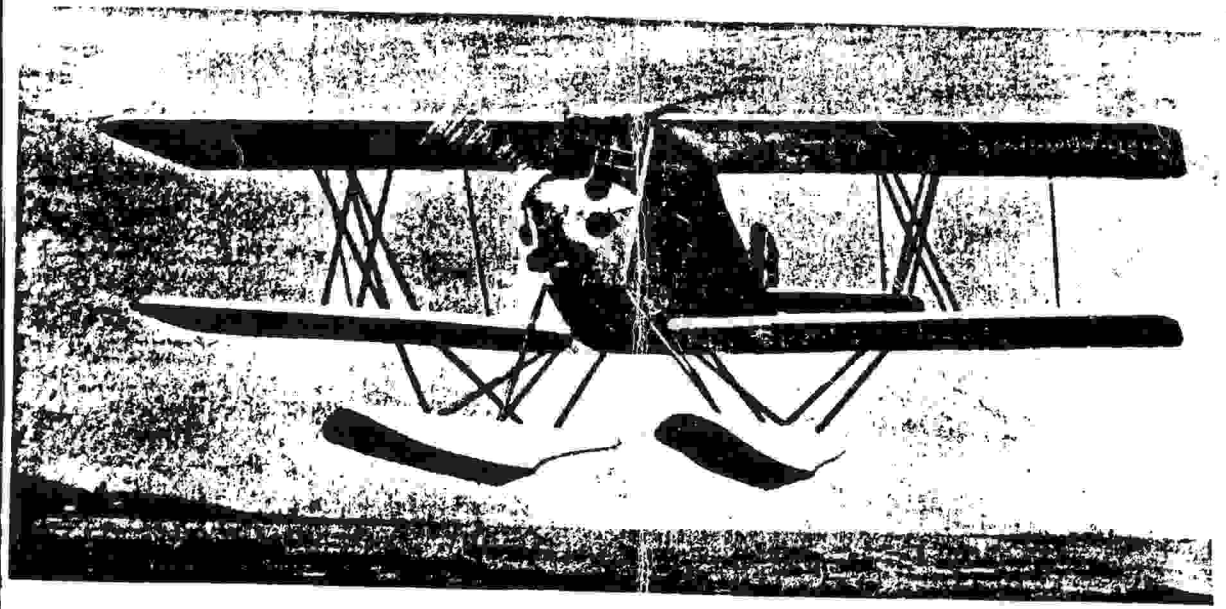
ISSUE 161

MIAMI INDOOR AIRCRAFT MODEL ASSOCIATION

MIAMA

23RD YEAR OF PUBLICATION
INDOOR ISN'T FOR EVERYONE

- RESULTS KING ORANGE MIAMA 3
- DOC'S PEANUT VICKERS VANESSA
- JAPANESE FID CAT I WORLD RECORD
- 1994 WORLD MINI-STICK ANNOUNCED
- ACCURATE CALIPER PLANS
- TAN II UPDATE
- JOHNSON CITY NEWS



. *Vickers specialized in small cabin boats and pontoon planes suitable for primitive airlines and "bush-flying." Typical was* Vanessa *of 1927.*

NEXT MEET: MIAMA MEET 4
MAC DILL AFB. TAMPA MAR. 12, 13
MASS LAUNCH - MODERN AGE (ALL HOT LINE



"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, 3-views, complaints, gripes and compliments to: Dr.John Martin Jr., President / Editor, 2180 Tigertail Ave., Miami, FL 33133 USA. phone: 305-858-6363.

DELTA KING ORANGE REPORT - RECORD FLYING

A DELTA 727 occupied the middle bay at the king Orange so the light stuff was flown off the right wing,& the "heavy" planes wereflown on the other side without incident. Now that's a BIG hangar.

Boy, that was a tough, mean crowd at the Delta King Orange Meet this year. It was tougher to get some MIAMA annual points than a trophy at the Nats. To win an event you had to set a New Fla. State Record. (Just KIDDING!) However, there WERE six state records set on New Years week end. We salute those super flyers , and Ed Dolby and the remarkable Tan II rubber. The flying firemen,Walt Van Gorder set a new Mini_Stick record, at 9½ minutes followed by 3 eight minute flyers. Walt also set the Unlimited Penny record at 11:59. Jack McGillivray got two records also. His AMA Scale SE-5A should be flown at Interscale in Nottingham.Judged by Rich MacEntee,it got within a point and ½ of a perfect score?!! Jack is into big heavy motors and gears for rubber scale with little props that spin for hours. FLYING ACES doesn't allow gears for mass launch events, but so far we do so Jack now has the Coconut Mass Launch state record - 2:20.8- with his beautiful geared Kieth-Curtiss biplane that gave him so much grief at Johnson City. It hit a photographer in 1992,and had a mid-air crash in 1993. Oh,Oh, I see from the results Jack had a THIRD record with a 12:18 in Limited Penny Plane. For some really close competition check the Embryo, and the Bostonian events. Trivin set a State Embryo record to win by one second over Sid Gilbert, and 5 seconds over Richard Miller. Once more I point out that real FUN comes when 6 or 7 guys enter an event and everyone has an outside chance of winning. It's also great when a lot of out of town pilots show up for the annual Fla. Delta King Orange. Lastly, congratulations to George Nunez for setting the State Peanut Record with his immaculate and detailed "Old Ironsides". A plan for this model will be in a future Hangar Pilot. Next Event-- Meet 4, Macdill AFB FAC Mass Launch... Modern Age. MARCH 12,13.

NO ROOM TO HST KING ORANGE MASS LAUNCH EVENTS - WILL BE IN ISSUE 162

JAN 1,2 1994 DELTA KING ORANGE MEET CD RICH MACENTEE (2)

MIAMA STATE MEET #3 -

SIX NEW FLA. STATE RECORDS

Peanut Scale Event: AMA

		STATIC	2 BEST FLIGHTS		
★1. George Nunez	Old Ironsides	96.4	1:38	1:36	192.6 NEW STATE RECORD
2. J, McGillivray	Spitfire	96.0	1:31	1:42	189.5
3. Sid Gilbert	Lacey M-10	80.2	1:31	1:55	Max 160.4
4. Millard Wells	Huntington H-12	72.6	1:23	1:14	145.2
5. Don Brimmer	Lacey M-10	82.0	:58	1:03	142.5
6. Walt Schlesinger	Cougar	80.0	30	:31o	110.5
X. M. Wells	Buhl Pup	75.2	:50	:50	125.2
X. Don Brimmer	Lemberger	86.8	:44	:41	129.3

Also entered, S. Gilbert, Martin MO-1, 90.4

Flying Aces Scale:

	STAT.	FLY	
1. Jack Mc Gillivray	SE-5A	77.5	1:58 (82)	159.5
2. Millard Wells	Waco E	69	1:23 (71.5)	140.5
3. Richard Miller	Howard 8	54.5	1:58 (82)	136.5
4. George Nunez	Old Ironsides	57.0	1:18 (69)	126
5. Don Brimmer	SE-5A	66.0	:40	106
6. Walt Schlesinger	Lepord Moth	54	:41	91

Flying Aces Embryo: All had 9 bonus Pts.

1. Wayne Trivin	423 Best	2:35
2. Sidney Gilbert	422 "	2:34
3. Richard Miller	418 "	2:55
4. Fred Beeson	187 "	1:09
5. Walt Schlesinger	162	:55
6. Don Brimmer	113	:37

Flying Aces No-Cal Scale NEW RECORD

★1. Dick Obarski	Farman Postale	5:26
2. John Voorhees	" Postale	3:50
3. Wayne Trivin	" Postale	3:01
4. Don Brimmer		:45
5. Walt Schlesinger		:24

BOSTONIAN EVENT: AMA CHARISMA X 2 BEST

1. Rich Miller		1.10	3:45	3:52	502.7
2. J. Barker	Scimitar II	1.12	3:45	3:40	498.4
3. W. Trivin	No Colors	1.11	3:55	3:33	497.2
4. Sidney Gilbert	7-UP	1.12	2:44	2:34	356.1
5. Geo. Nunez	Lorax	1.14	2:29	2:31	345.0
6. W. Schlesinger	Basic Bost.	1.11	1:10	1:13	157.3

EASY B EVENT: AMA

1. Jack McGillivray	18:51
2. Walt VanGorder	16:58
3. John Barker	12:39
4. Joe Nuszer	9:27
5. Dick Obarski	7:31

DIME SCALE MIAMA EVENT: MIAMA

1. Millard Wells	Megow Douglas Obs.	104.8
2. Walt Schlesinger	Comet Puss Moth	64
3. Don Brimmer	Comet Great Lakes	60

LIMITED PENNY PLANE NEW Record

★1. Jack McGillivray	12:18
2. Walt VanGorder	10:30
3. John Barker	10:21
4. Dick Obarski	9:28
5. Wayne Trivin	9:23
6. Joe Nuszer	9:09
7. John Voorhees	8:37

PISTACHIO SCALE: MIAMA

		STAT.	FLIGHT	
1. Dave Linstrum	Team Hi-Max	2,	:39.5	2..4
2. Millard Wells	Hunt. H-12	3,	:43	1 ...4
3. Don Brimmer	Andreason	1,	:36	4 .. 5
X. Brimmer	Citabria	2,	:39	3 .. 5

MODEL OF A MODEL

1. Dave Linstrum Pacific Ace 54.2

AMA SCALE: NEW RECORD

★1. Jack McGillvray	SE-5A	98.5	1:30	Max 188.5
2. Joe Nuszer	1911 Cessna	79	--	

UNLIMITED PENNY: NEW RECORD

1. Walt VanGorder	11:59
2. Joe Nuszer	9:35

MINI STICK: NEW RECORD

★1. Walt VanGorder	9:30
2. Rich Miller	8:58
3. Wayne Trivin	8:43
4. Dick Obarski	8:26
5. John Barker	5:17
6. Charlie Johnson	5:17

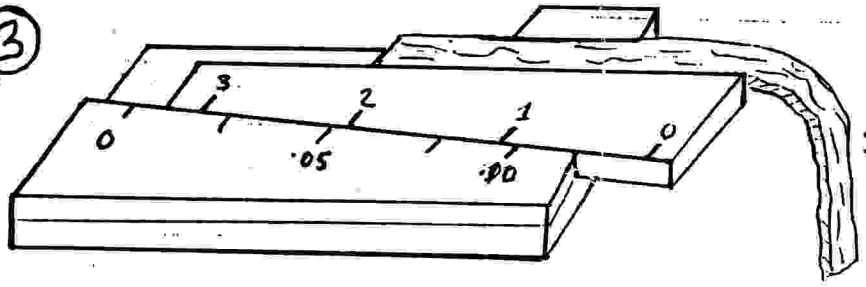
COCONUT SCALE: MIAMA

1. Dave Linstrum	Pilatus Porter	1:35
2. Millard Wells	Ford 2-AT	1:04
3. Jack McGillivray	Curtiss-Keith	:34
4. Walt Schlesinger		:13

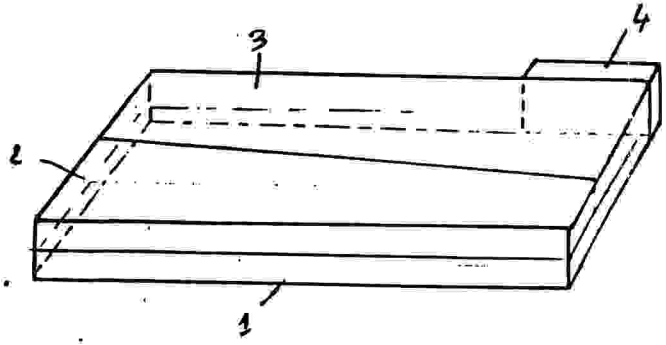
INTERMEDIATE STICK AMA

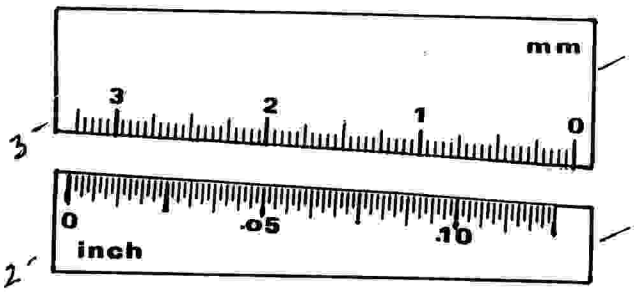
1. John Barker	18:20
2. Joe Nuszer	14:40

(3)

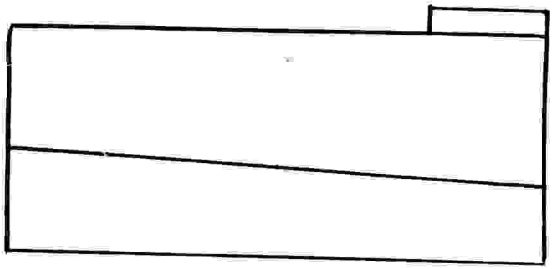


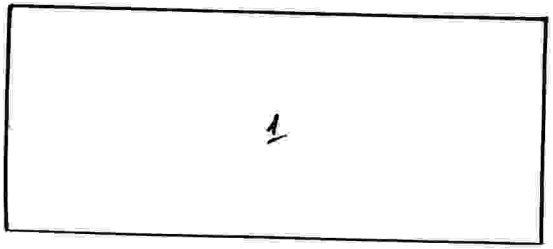
ACTUAL SIZE PLAN
SLIDE-CALIPERS
WON'T SQUASH
RUBBER





4





A plan of a handy and easy to build slide calipers for checking rubber thickness. It is not really a new idea. I am inspired by J.Jones's excellent balsa stripper. You can use hard wood, alum or PVC for construction.

I am specially inrerested by very small model scale (planes with span less than 6 to 5 inches). I have seen an exquisite photo of your Redotto Elias Airsport in Hannan's Peanuts & Pistachios and I am very please if you can send me the plan of your model.

Best wishes for you and your family.

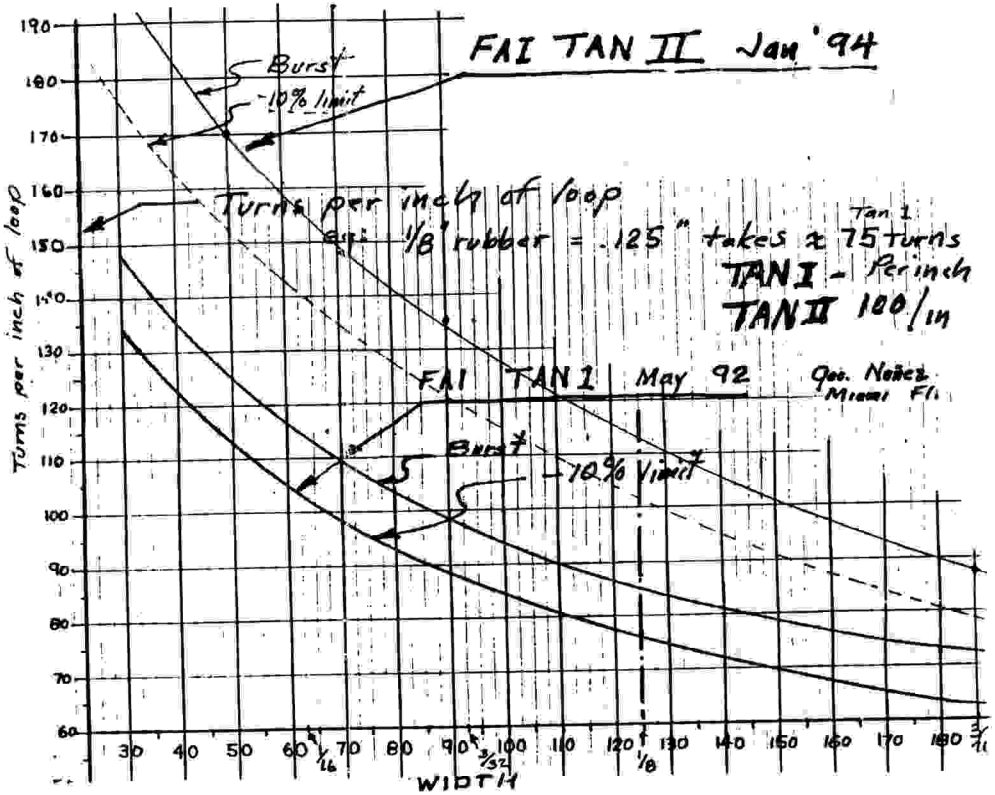
SUBMITTED BY MIAMA MEMBER
TRUNG HUA NGOC
135, ALLEE DE LA FORÊT
33600 PESSAC/FRANCE

SEND HIM SOME TINY SCALE MODEL PLANS!

RUBBER POWER FLYERS ARISE. THE ERA OF TAN II IS UPON US. Get out your old crate, put in some Tan II and get your personal best flight.

SUMMARY, MAX. TURNS PER 1" LOOP:

- 1/8" — 110
- .110 — 120
- .100 — 126
- .090 — 132
- .080 — 138
- 1/16" — 150
- .050 — 158
- .040 — 165
- .030 — 178



GEORGE NUNEZ JUST WORKED OUT THIS NEW CHART

FAI TAN RUBBER
1/4", 3/16", 1/8", 1/16", - .042 THICK
1 lb. box - $ 15.75 (includes 4 oz. Slick Lube)
14.75 (no lube - slick costs $ 1.75)
10 lb. box - $ 110.00 (UPS Delivered)
Postpaid in US via UPS. Cal res add 8% sales tax.
Made in U.S.A.
Slow cure for consistant quality. Ask for FAI-TAN
1992 CATALOG LIST 100 FF. KITS
CROCKET HOOKS NOW MADE BY FAI.
SEND $ 1.50 FOR CATALOG
F.A.I. Model Supply
P.O. BOX 3857 TORRANCE, CA 90510
344 "C" E CARSON CARSON, CA 90746
Tel : (310-830-8939)

THIS AD IS OLD — I THINK THE PRICE IS A BUCK MORE NOW —

Doc SPECIFY TAN II

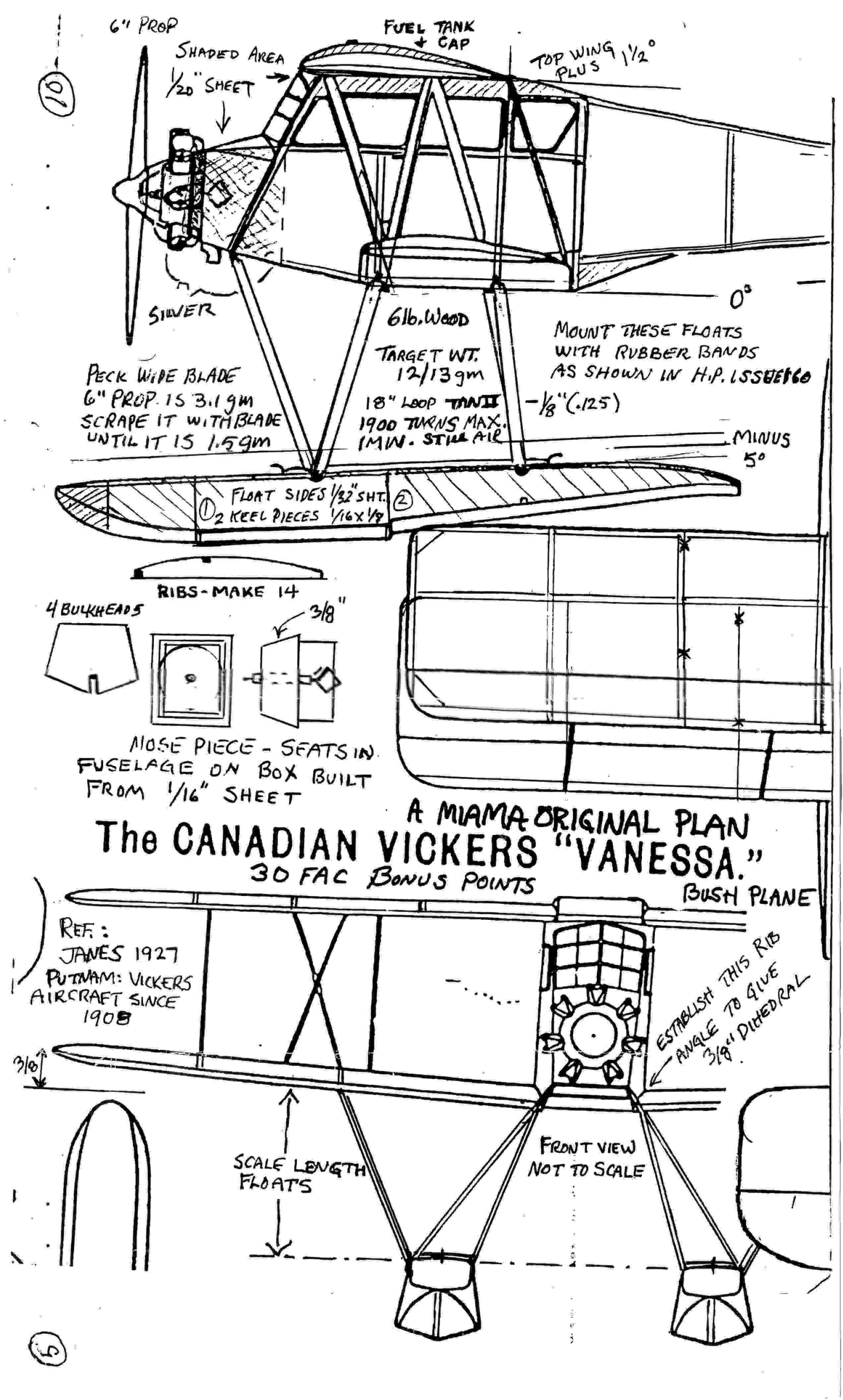
Via the Brainbuster Newsletter

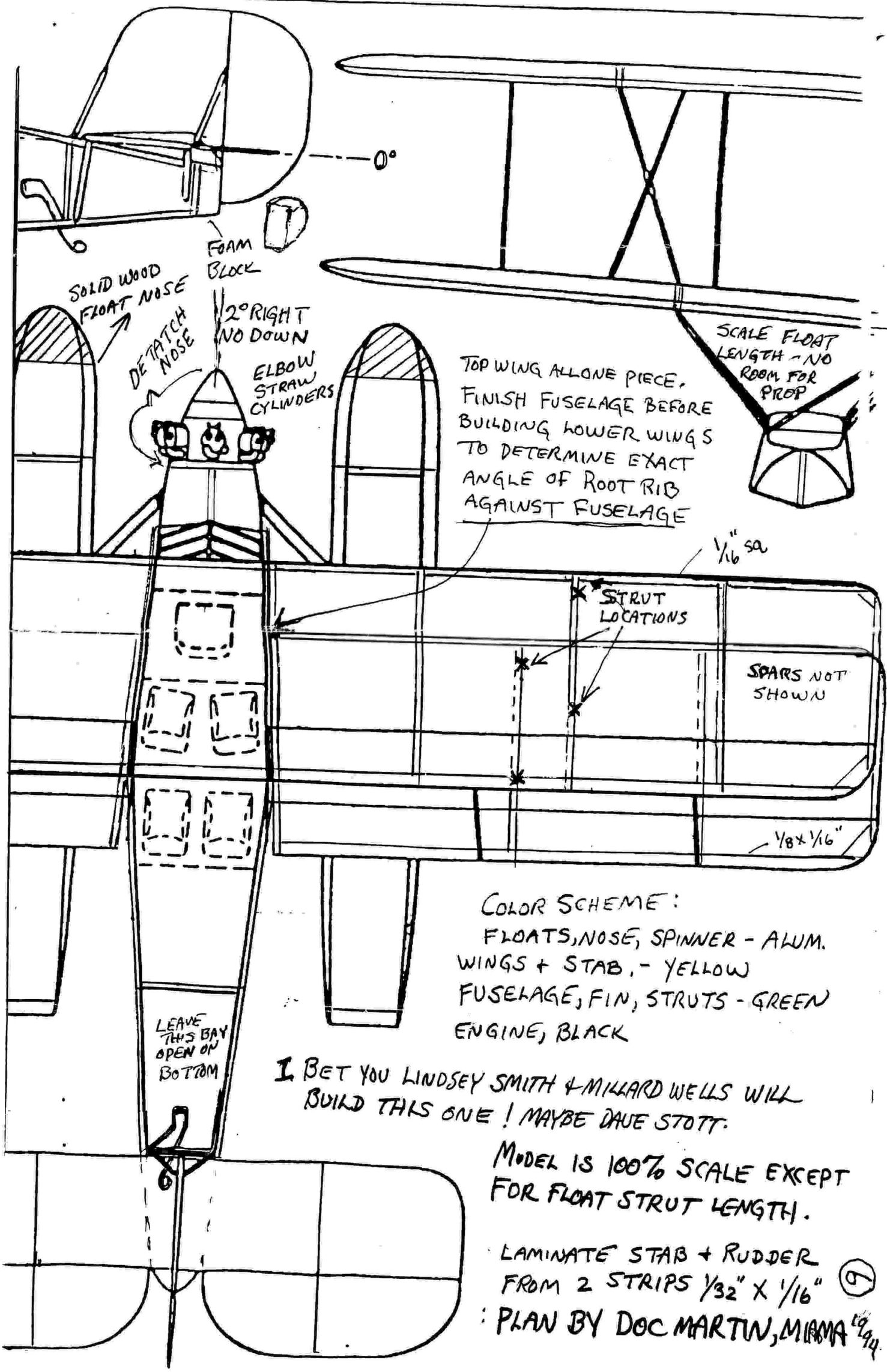
AMA elections -

Dave Brown was returned to the office of Executive Vice-President

RESULTS:

Dave Brown	- 10,496
Jim McNeill	- 5,371
Write ins	- 1,347
Total	17,214


6" PROP
FUEL TANK + CAP
SHADED AREA 1/20" SHEET
TOP WING PLUS 1 1/2°
SILVER
6 lb. WOOD
TARGET WT. 12/13 gm
18" LOOP TAN II 1900 TURNS MAX. 1 MIN. STILL AIR
PECK WIDE BLADE 6" PROP IS 3.1 gm SCRAPE IT WITH BLADE UNTIL IT IS 1.5 gm
MOUNT THESE FLOATS WITH RUBBER BANDS AS SHOWN IN H.P. 155 SHEET 60
0°
-1/8" (.125)
MINUS 5°
FLOAT SIDES 1/32" SHT. ①
2 KEEL PIECES 1/16 X 1/8 ②
RIBS - MAKE 14
4 BULKHEADS
3/8"
NOSE PIECE - SEATS IN FUSELAGE ON BOX BUILT FROM 1/16" SHEET
A MIAMA ORIGINAL PLAN
The CANADIAN VICKERS "VANESSA."
30 FAC BONUS POINTS
BUSH PLANE
REF: JANES 1927
PUTNAM: VICKERS AIRCRAFT SINCE 1908
ESTABLISH THIS RIB ANGLE TO GIVE 3/8" DIHEDRAL
3/8"
SCALE LENGTH FLOATS
FRONT VIEW NOT TO SCALE



COLOR SCHEME:
FLOATS, NOSE, SPINNER - ALUM.
WINGS + STAB. - YELLOW
FUSELAGE, FIN, STRUTS - GREEN
ENGINE, BLACK

I BET YOU LINDSEY SMITH + MILLARD WELLS WILL BUILD THIS ONE! MAYBE DAVE STOTT.

MODEL IS 100% SCALE EXCEPT FOR FLOAT STRUT LENGTH.

LAMINATE STAB + RUDDER FROM 2 STRIPS 1/32" X 1/16"

: PLAN BY DOC MARTIN, MIAMA 9/94

(7)

FID 32A (CAT I) 34min 20sec
(August, 14, 1893)

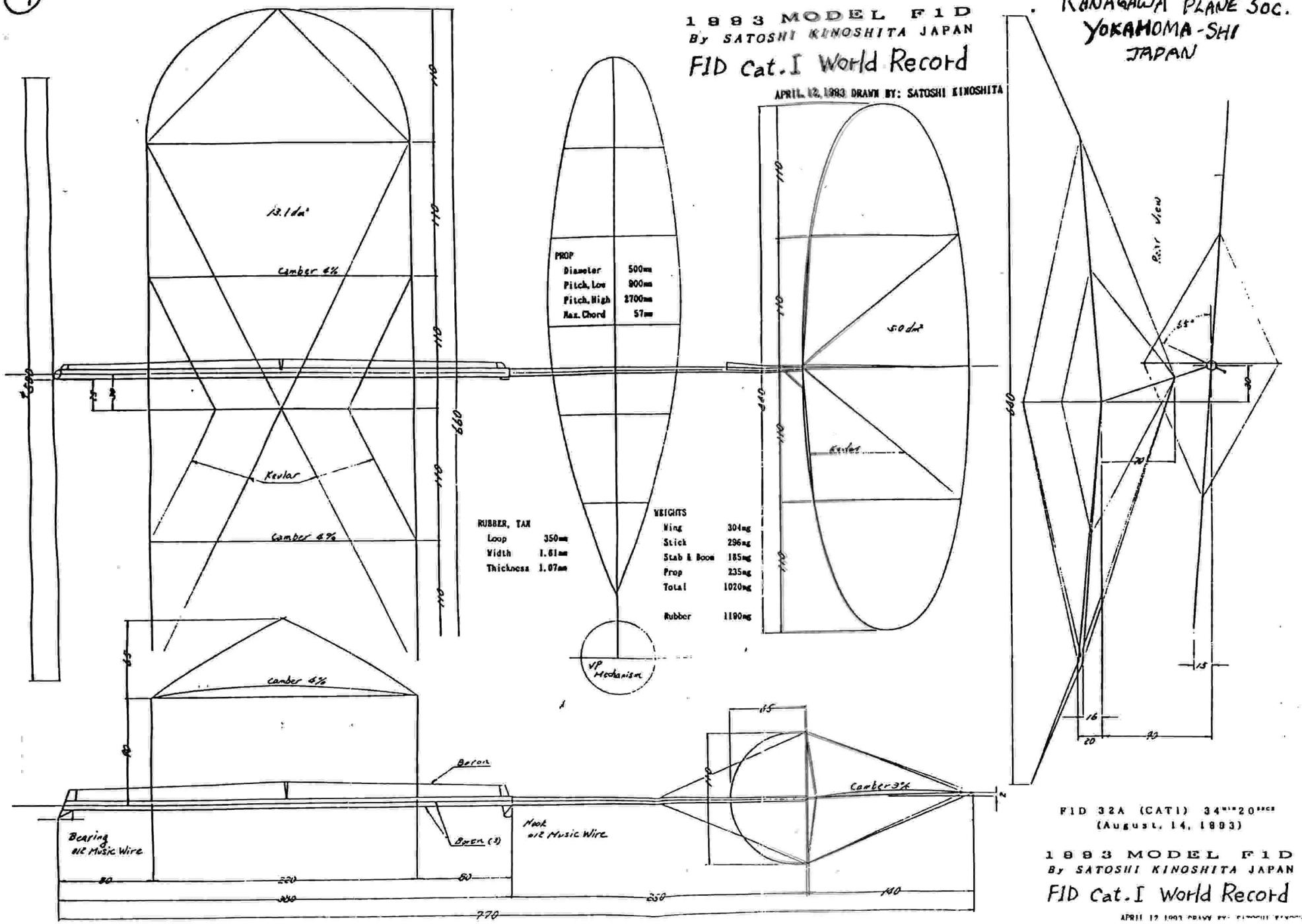
1893 MODEL FID
By SATOSHI KINOSHITA JAPAN

FID Cat. I World Record

APRIL 12, 1993 DRAWN BY: SATOSHI KINOSHITA

FROM HIDETO HORIKIRI
KANAGAWA PLANE SOC.
YOKAHOMA-SHI
JAPAN

(8)



FID 32A (CAT I) 34min 20sec
(August, 14, 1893)

1893 MODEL FID
By SATOSHI KINOSHITA JAPAN

FID Cat. I World Record

CLUBS! GET TOGETHER

Phone 0257 452624.

AND FLY YOUR MINI-STICKS

403 Mossy Lea Road,
Wrightington,
Wigan, Lancs..
England WN6 9SB

BEFORE END OF MARCH

Dear Club Secretary or Contact / Magazine Editor,

SEND RESULTS TO MIKE

Once again the British Model Flying Association, Indoor Technical Committee would like to invite your members / readers to take part in "THE 1994 LIVING ROOM STICK / MINI STICK INTERNATIONAL INDOOR POSTAL CONTEST", to be run over this winter period. Can you please pass on / publish this contest for your members / readership.

The rules for this contest will be as follows :-

1. The contest is open to Indoor models which comply with Living Room Stick / Mini Stick Rules, (the spec. is the same as last year, except for the VP prop rule).
2. Contest flights are to be made between 1st Jan 1994 and 31st March 1994.
3. Any number of flights can be made at any number of sites.
4. All contest flights to be timed by someone other than the flyer.
5. All contest flights to be recorded on an official Results Form, available from the above address, (please send SSAE etc. you can make extra copies).
6. Best single flight time wins, after the flight time has been corrected for the different ceiling heights. Ceiling height to be measured as per F.A.I. but with a 5 meter diameter circle. The correction factor is 627 divided by (167 plus 46 times the square root of the ceiling height in feet). The time in seconds will be multiplied by this to give the corrected time.
7. Prizes will be awarded dependent on the number of contestants.
8. All Results Forms to be returned to the above address no later than 10 April 1994.
9. Entry if FREE to ALL contestants (A club sticker sent to the organiser would be appreciated)
10. Results will be sent if a SSAE is included with the Results Forms.

'LIVING ROOM STICK/MINI STICK' Model Rules

Model	
Monoplane, Max. Span (projected)	7.0 inches
Max. Wing Chord	2.5 inches
Stick Length	5.0 inches
Max. Model length (less prop)	10.0 inches
Stab (Tail) area	Max. = 50 per cent of wing
Covering	Plastic / Paper. NO Microfilm
Propeller	Wood prop 7" Diameter max.
Minimum weight	0.43 gms.) 0.015 ounces

NO V.P. or V.D. Props or 'Torque Burners' are to used (keep it low tech.)

Flying	
Steering	4 ten second steers *
Attempt	Fifteen seconds or more *

* Special flying rules for very small rooms only ! (Living room flying only)

GOOD FLYING & HAVE FUN

Mike Colling
BMFA Indoor Technical Committee Chairman

FLYING ACES LA LA LAND
Peanut & No-Cal Scale Postal Meet

MIAMA SQUADRON HEAR THIS:

The Peanut and No-Cal Postal Contest is now on Skysters! It starts right now and will end on May 30, 1994, entries postmarked after May 31, 1994 will not be accepted. All you have to do is fly your peanut or No-Cal models, time them and send the times in to GHQ. Contest times count also. Again we will have four wings. Indoor Peanut Wing, Outdoor Peanut Wing, Indoor No-Cal Wing and Outdoor No-Cal Wing. Write your name, the name of your aircraft, your time and the Wing you flew in and send to FAC-GHQ, 3301 Cindy Lane, Erie, Pa. 16506. TELL 'EM YOU'RE FROM SQDN. 11!

FAC KANONES AT MIAMA MEETS

HOW CAN MIAMA BE AN INDOOR CLUB, AND ALSO FLYING ACES SQUADRON #11? I'm glad you asked...it works for us. Every indoor meet members have four chances to win a coveted FAC KANONE. We fly the Popular FAC Mass Launch each meet along with the 10 gram (Min) FAC Embryo Indurance,, the FAC Scale event, and the Flying Aces NO-Cal Scale event. We send the results to Flying Aces Headquarters who keep all the statistics. FOR ANY Hangar Pilot who has not yet joined FAC we suggest you do. If you like Hangar Pilot you will surely like FLYING ACES CLUB NEWS. $9.00 per year U.S. and Canada. $15.00 per year overseas. Six plan-filled issues a year. Make out checks to "Flying Aces" Start working your way to a Blue Max. Send to: FAC-GHQ, 3301 Cindy Lane, Erie, Pa. 16506 Also include an extra $2.50 for all the FAC Rules. In our "What's on in Free Flight" calendar we list all the Flying Aces meets we know of, both indoors and out..Get in on them.

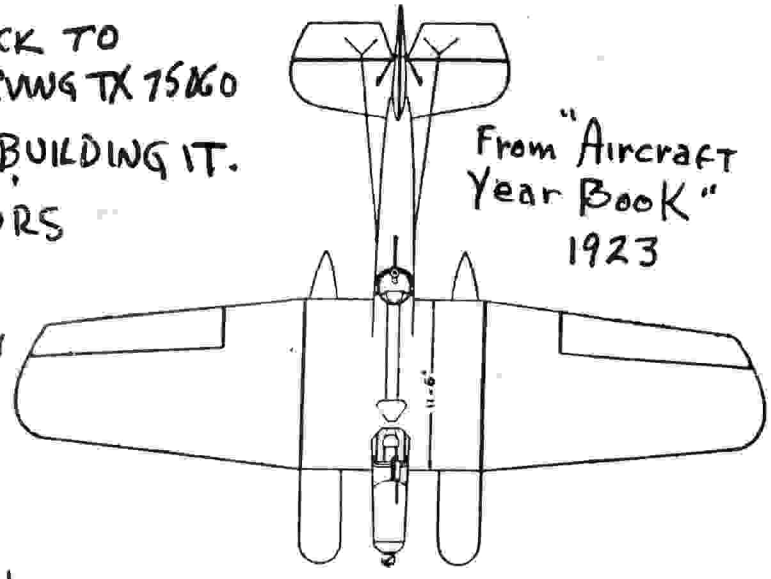
INDOOR TYPES: THE ZOMBIE OR "THE FLIGHT OF THE LIVING DEAD"

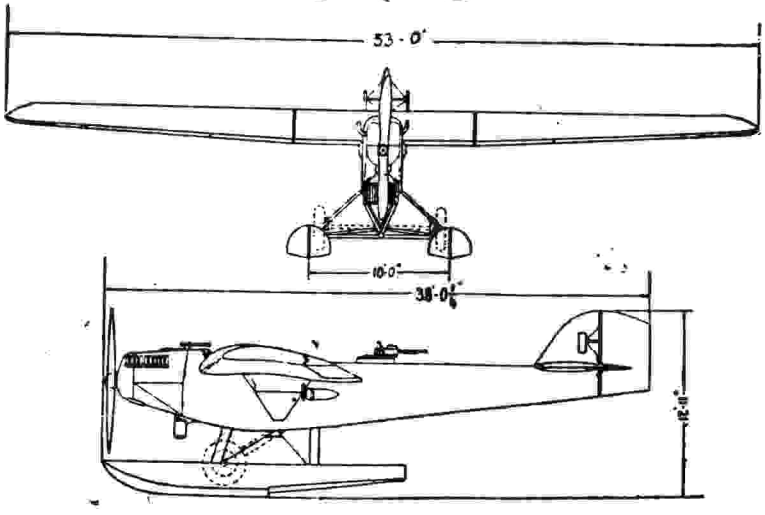


BEHAVIOR: LAUNCHES PLANE. STAYS IN MIDDLE OF FLOOR. GOES INTO TRANCE. SO FOCUSED ON THIS PLANE IS OBLIVIOUS OF OTHERS. COMES WITH OR WITHOUT BALLOON. IS OFTEN STRUCK. SOLUTION! PLEASE MOVE ASIDE AFTER LAUNCH.

(B) HAVE YOU SENT YOUR BUCK TO M.A.LABS 108 LEE ST. IRVING TX 75060 HERE'S SOME HELP IN BUILDING IT. FLY YOUR PEANUT INDOORS + SEND YOUR TIME TO HANGAR PILOT BY 3/19/94 OR FLY YOUR MODEL IN THE MASS LAUNCH AT MACDILL SAME DATE. - MO-1 KIT. THANKS TO ED SEAY AT MODEL AIR-CRAFT LABS FOR THIS INTRODUCTORY OFFER

OTHER CLUBS PLEASE COPY.

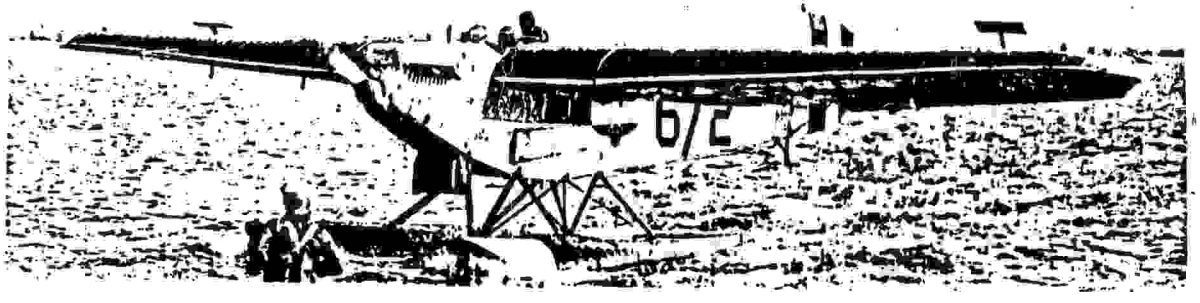




THE GLENN L. MARTIN COMPANY
CLEVELAND, OHIO
TYPE: NAVY SPOTTER MODEL MO-1
ENGINE: CURTISS D-12 350 HP

THE GREAT MO-1 CONTEST

[redacted] right: This Martin MO-1 was photographed in 1924. The / was used by itself as an early designation for observation on Navy airplanes and eliminated any confusion that could arise between the letter O and the numeral zero. This designation shows aircraft 2 of VO-6.



JOHNSON CITY... HERE I COME!

LATEST USIC NEWS- from Jim Miller.(Flying Aces C/D) It's a three day meet according to C/D Phil Klintworth. Thurs.,Fri.,& Sat. June 2,3,,&4. The US Indoor Champs will be separate from AMA Indoor Nats held later at Lubbock,TX on July 16-24. Indoor Scale flyers will be pleased at the increased flying time for their events:

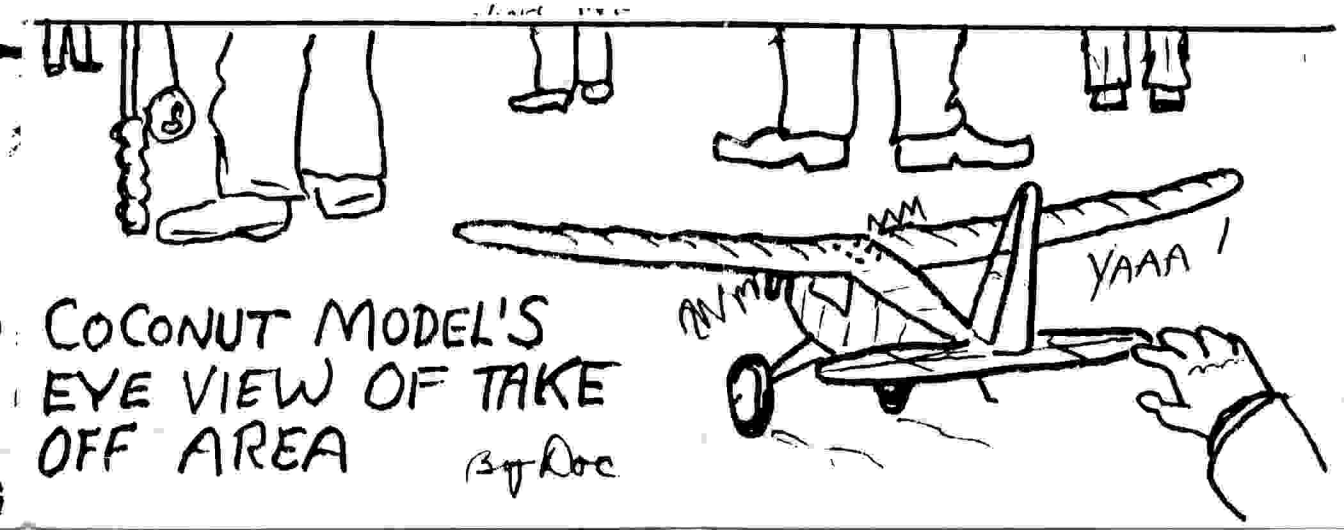
FRIDAY 7:30 to 1 PM AMA Scale, AMA Kit Plan
Flying Aces Scale (Bonus limited to 25 points)
FAC No-Cal Scale
Mini-Stick...Mass Launch at 12:45
Turn in for above scale model judging will be Thursday PM.

SAT. 7:30 to1:00 PM. AMA Peanut, AMA Bostonian, Federation ROG
FLYING ACES- Golden age, Hi-Wing Peanut
MIAMA GRAND PRIX-Coconut Event..Mass launch at 12:45

PISTACHIO MIAMA GRAND PRIX: Unlimited flying all three days in the gym area. TURN IN FOR THESE SCALE MODELS...(All Above) Friday, P.M. Build your Coconuts & Pistachios, mark off the dates, alert your wife, AND I'LL SEE YOU IN J.C.

A FREE HANGAR PILOT FOR YOU?

A few of you procrastinators are getting this issue even though you are delinquent. After getting Hangar Pilot for 20 years I'm pretty sure you want to continue..or do you? It's a real pain to change the mailing labels, and lists, and then have you re-up in April. A suggestion for you cronic procrastinators (YOu KNOW who you are) is to sign up for 2 or 3 years to avoid this annual hassel.



COCONUT MODEL'S EYE VIEW OF TAKE OFF AREA By Doc

WHAT'S ON IN FREE FLIGHT ?

FEB 12,13 MAC DILL AFB MIAMA STATE MEET 4 FAC MASS LAUNCH - MOD.
FEB 19,20 MACH WINTER CUP MEET PENSACOLA, FL CD BOB THOREN, Huntsville, AL
MARCH 19,20 MAC DILL AFB MIAMA STATE MEET 5 FAC MASS LAUNCH - WW II
APRIL 16,17 MAC DILL AFB. MIAMA STATE MEET 6 - FAC MASS LAUNCH .. GOLDEN
MAY 14,15 MAC DILL AFB. STATE MEET 7 - FAC MASS LAUNCH - RACE PLANES
APRIL 23,24 PALM BAY - SAM SPRING MEET - CD DON BRIMMER 1-813-525-6667
MAY 28,29 PALM BAY RIMERT'S RALLY. CD TERRY RMERT 1-904-266-4795
JUNE 2,34 JOHNSON CITY - THE BIG ONE - USIC - CD PHIL KLINTWORTH
JUNE 18,19 - PENSACOLA - FIESTA OF 5 FLAGS BOB JUNK 1-904-968-9619
JULY 2,3 PALM BAY - FLA. STATE OUTDOOR FF CHAMPS R. HENSON 1-904-344-5931
JULY 8,9,10 - FAC NATS - GENESEO, N.Y.

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

MIAMI, FL 331
PM
18 JAN
1994



Jim - Thanks for the info. Most of it is in this issue. Looks good -

JIM MILLER
107 LORELEI DR
FAYETTEVILLE OH
45118