CENTRAL INDIANA AEROMODELLERS

INFORMER

FREE FLIGHT NEWS OF THE MIDWEST

** The Weather **
As on the 8th,
So's the next 4 weeks!

==========

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The Aeronca C-2.... by Gil Morris

This construction project started when I spotted a booklet on the Aeronca C-2 published by the Smithsonian Institution. The story was told about Jean Roche, who as a young man was a member of the The New York Model Aero Club. He designed and built a lightplane, which in 1929 would become the first airplane to be manufactured by the Aeronautical Corp. of America (Aeronca). Aeronca's facility was then located at the Lunken Airport, near Cincinnati.

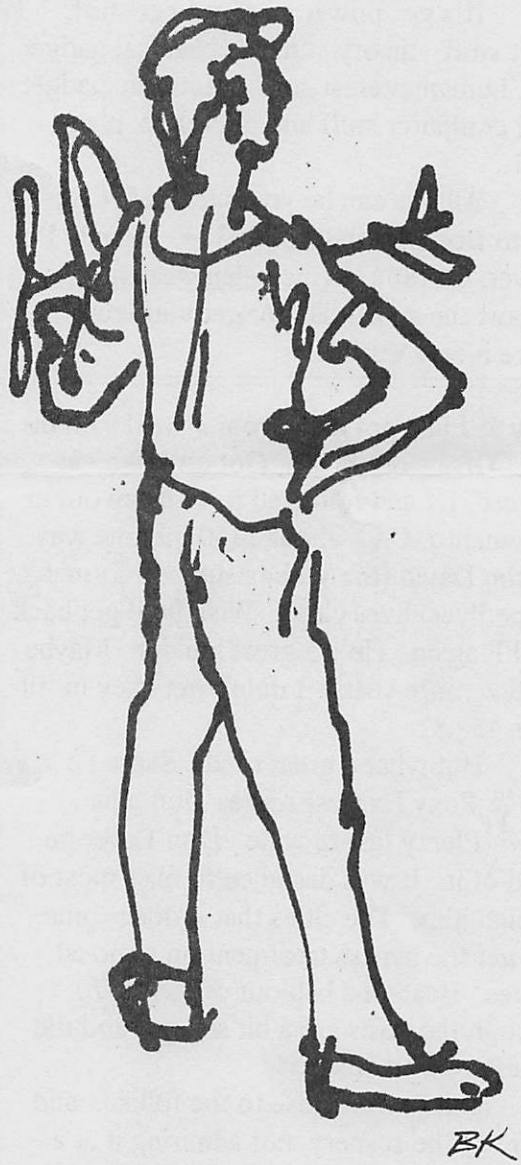
The Aeronca C-2 ushered in the age of general aviation, and became known as the "flying bathtub" because of its tub-like single seat.

What could be more nostalgic than to recreate this golden age classic? From the pictures and descriptions I created a 'stand-off' scale design taking liberties for a practical flying power model: added dihedral; elimination of external support wires but retaining the cabane; and utilizing a modified Ohlsson 23 front rotor engine. (Gene Bowers would install an inversion kit on it, plus a new front end and crankshaft.) The inverted Ohlsson seemed to be a natural. And the Murphy Lite wheels were made to order!

I was thrilled with the outcome. But it simply would not fly except with minimal power! (The scale size engine for this design calculates to be a .09, so the Ohlsson 23 is well over scale in power.) With any power boost at all, it would spiral in to the left. Efforts to correct that made it spiral in to the right! It began to look like an exercise in futility.

In one last desperate effort, I cut the rudder in two. Instantly, the model became stable and took to the skies! So, now for show, the plug-in rudder half is 'on' and for flying it's 'off'! Who's to know the difference when it's in a thermal?

The wing loading came out almost exactly 8 oz/sq.ft. And it meets the cross-section rules for Old Timers, so it qualifies for the Old Ruler event. Surprisingly, this old classic does not qualify for CIA's Classic event - because wing aspect ratio exceeds the 8:1 limit (have mercy, Dick Covalt!)!!



In any event, it is a thrill to fly this old favorite. I can furnish building plans to anyone truly interested! - Gil Morris

Check the 3-view of this gem on p.3.....

New Faces..... How about a big handshake for new Agent **Tony Carrara** from Blanchester, OH, and another one for returning Agent **Rey Mazzocco** of Evansville, IN!

Welcome aboard/back!!

If you haven't already gotten yours, be sure to get a copy of the new *32nd NFFS Sympo*. It's a great one - destined to become a classic - with something for everybody!

It's got power stuff, rubber stuff, glider stuff, theory stuff, mechanical gadget stuff, human interest stuff, electronic gadget stuff, computer stuff and of course, plans stuff!

All this can be yours for $25 + $4 sent to Bob McLinden, 3903 W. Temple Pl., Denver, CO 80236 (mclinden@earthlink.net) Support the sport! Better get your copy before it sells out!

Betty & I just got back from 3 weeks on the road. Drove out West. Got on US 50 at Bedford, IN and followed it 'til it ran out in Sacramento, CA - about 2350 mi, one way. My son David (the Webmaster and former Coupe flyer) lives close. Wish he'd get back into FF again. He's a great builder. Maybe in a few more years. I didn't get back in 'til I was 45.....

But what a great road! Santa Fe Trail & Pony Express routes, don 'cha know! Plenty fast & wide. Don't ever be afraid of it. It was designed to miss most of the big cities. The cities that it does come near get the bypass treatment on regional I'states. Beats the hell out of busy I-70, although the turns are a bit sharper and the grades are a bit steeper!

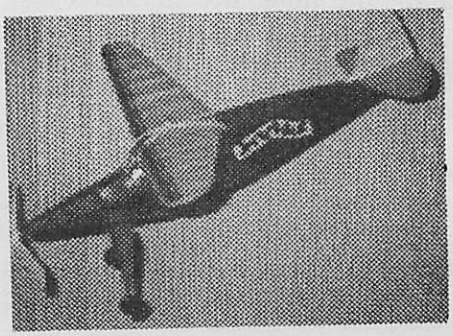
But you're close to the folks.....and you're ***in*** the scenery, not admiring it at a distance! See a roadside stand? Pull over and enjoy! We stopped at a pickup truck selling "Sweet Cherie,s"!! (Yes. That's a comma, not an apostrophe! Never mind the mis-spell.) I couldn't believe it either! But the sign on the other side of his truck was done the same way!! My favorite roadside ad was a restaurant advertising *"Family Dining. Sunday Beer"*! But you haven't lived 'til you've taken in a tractor pull! Fun stuff, $1 beer, and it's competition! (Free flite is all about competition.....)

Checked a few hobby shops on the way. Nothing new, unless you're into RC cars & boats..... But we saw a lot of real trains - culminating in the Railroad Museum in Sacramento. We even rode CalTrain from San Francisco to Palo Alto & back. Nice ride.

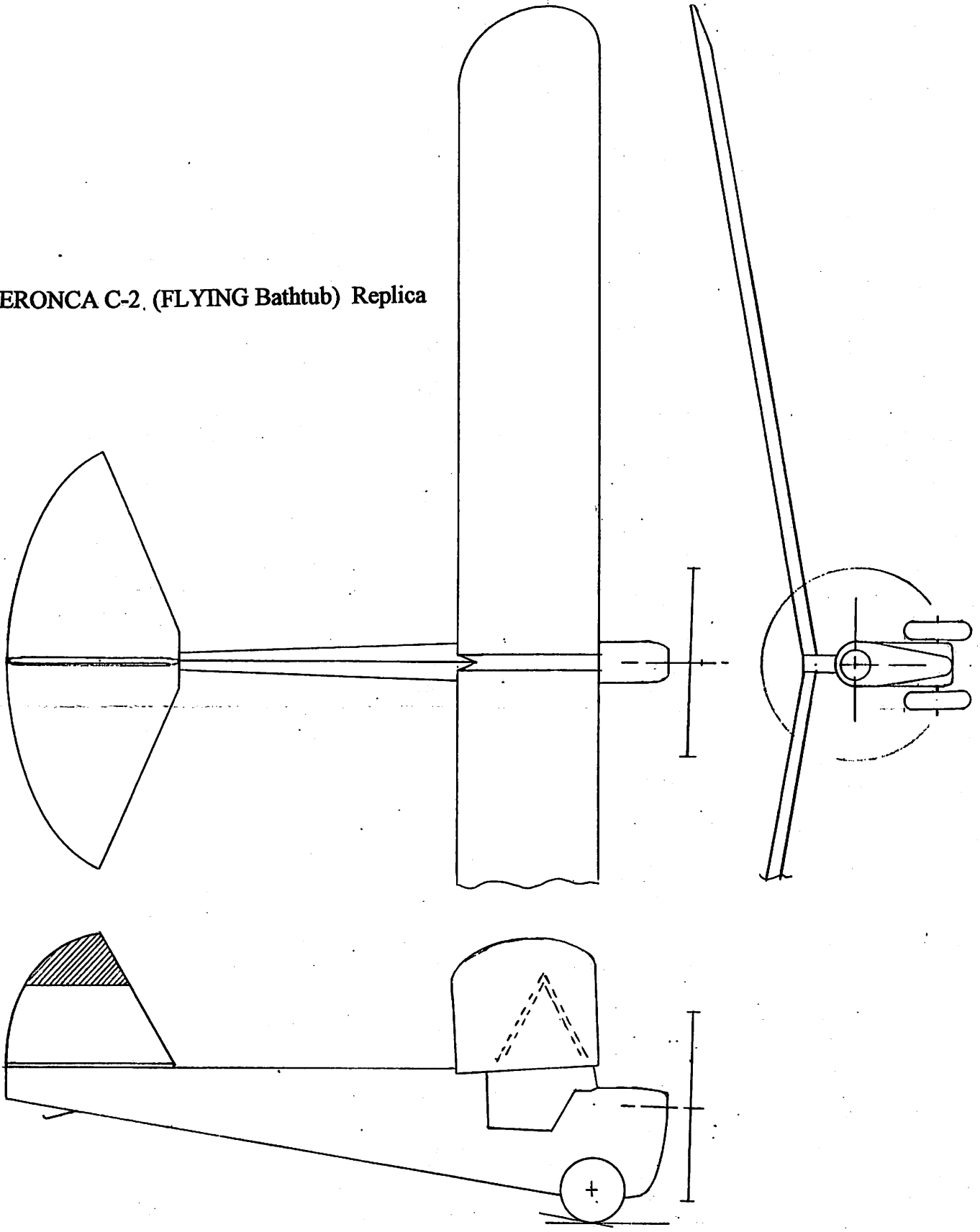
Concerning full-size planes, many Ag-Cats (both round engines and T'prop versions) were seen flying and resting out in KS and east CO. (The turbo Ag-Cat is a great rubber scale subject....) And a Navy flyer contributed to the fires in Nevada by missing his target on the "Top Gun" bombing range near Austin and added to the fires out there!!

Yeah. We survived *'the loneliest highway'* - again. But it's not as lonely as it was for the '84 Reno NATS. People don't wave anymore.....and, unlike the cities, the graffiti is done with stones laid against the salt ditches along the highway. And I didn't see any livestock waiting to cross the hiway this time, either. But the topless bars in the middle of the NV desert are still there! And the Eureka, NV Amoco station still doesn't have any coffee (same owner!)!

Enough of this non-model rambling! (But if you'd like more of this stuff - let me know....). Sorry we missed the '99 NATS.



AERONCA C-2. (FLYING Bathtub) Replica



Wing area (Proj) = 395 sq in
Wing Span (Proj) = 62"
Engine: Ohlsson 23

L sq/100 = 10.2 sq in (actual = 11.5 sq in)
Req'd. Wt. @ 8 oz/sq ft=21.9oz (actual =22.0 oz.)
Date: July 1999

AIR ACES of WWII

Here is something that I have always wished to see written on the same page. The list includes only those with 25 or more kills. Note - wheras most allied pilots were rotated after relatively limited action, axis pilots were generally on the flight lines until the wars end or death. Also, most flew a variety of aircraftas well as the one stated.

Name	Country	Kills	Aircraft Type
Helmut Wick	Germany	56	ME 109
Werner Molders	Germany	115	ME 109 and others
Jan Reznak	Czech	32	ME 109 and others
Gyorgy Debrody	Hungary	26	ME 109 and others
Eino Juutilaninen	Finland	94-1/6	ME 109 and others
Hans Winds	Finland	75	(30 in a Brewster Buffalo)
H-J Marseille	Germany	158	(17 in one day)
Walter Nowotny	Germany	258	ME 262 and others
Adriano Visconti	Italy	26	
Gvitan Galic	Croatia	36	ME 109
Buzu Cantacuzeno	Romania	53	
Werner Streib	Germany	66	ME 110 (all at night)
H-W Schauffer	Germany	121	ME 110
Gunther Lutzow	Germany	108	ME 262 and others
Johannes Steinhoff	Germany	176	ME 262 and others
Walter Krupinski	Germany	197	ME 262 and others
Wilhelm Herbet	Germany	71	ME 262 and others
Heinz Bar	Germany	220	ME 262 and others
Erich Hartmann	Germany	301	ME 262 and others
Gerhard Barkhorn	Germany	352	ME 262 - highest in history
Aladar Heppes	Hungary	34	
Dezu Szentgyorgyi	Hungary	34	
Saburo Sakai	Japan	60	Zero
Junichi Sasai	Japan	27	Zero
Toshio Ota	Japan	34	Zero
? Nishizawa	Japan	87	Zero
Tetsuzo Iwamoto	Japan	84	Zero
Satoshi Anabuki	Japan	51	Ki. 43
Teruhiko Kobayashi	Japan	25	Ki. 61
Colin-Falkland Gray	New Zealand	27	Spitfire
James Johnson	England	38	Spitfire
Brendan Finicane	Ireland	32	Spitfire
Marmaduke Pattle	S. Afrika	51	Hurricane
George Beurling	Canada	31-1/3	Spitfire
Clive Caldwell	Australia	30	Tomahawk
Pierre Clostermann	France	33	
Aleksandr POkryshkin	Russia	59	P-39
Ivan Kozhedub	Russia	62	LA-7
Richard Bong	USAF	40	P-38
Thomas Mcguire	USAF	38	P-38
David McCampbell	USN	34	F6F
Francis Gabreski	USAF	28	P-47
Robert Johnson	USAF	27	P-47
Joe Foss	US Marines	26	F4F
Adolf Galland	Germany	104	ME-262 and others

Ironman: Would you believe German bomber pilot, Hansgeorg Batcher, flew his 658th mission on the last day of the war. In contrast, US bomber pilots were rotated after 25 missions - British pilots after 35 missions. Batcher began the war in the open cockpit of a Do-23 and ended at the controls of the world's first jet bomber, the Arado Ar-234.

HSM

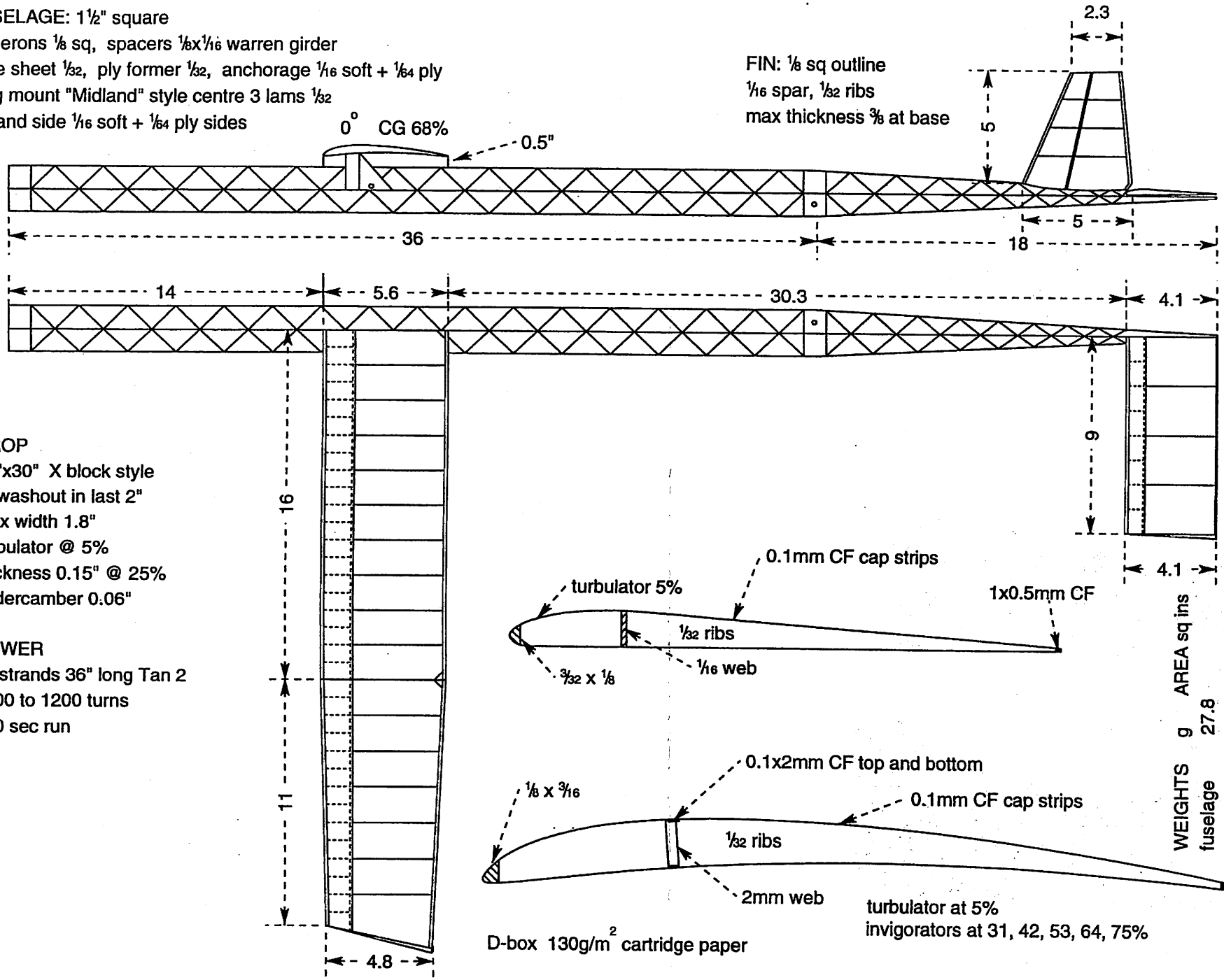
References: Aviation History and World War II magazines.

Open Rubber 1998
by Ron Pollard

FFn Scale 1:6 All dimensions ins

FUSELAGE: 1½" square
longerons ⅛ sq, spacers ⅛x1/16 warren girder
nose sheet 1/32, ply former 1/32, anchorage 1/16 soft + 1/64 ply
wing mount "Midland" style centre 3 lams 1/32
top and side 1/16 soft + 1/64 ply sides

FIN: ⅛ sq outline
1/16 spar, 1/32 ribs
max thickness ⅜ at base



PROP
22"x30" X block style
2" washout in last 2"
max width 1.8"
turbulator @ 5%
thickness 0.15" @ 25%
undercamber 0.06"

POWER
28 strands 36" long Tan 2
1100 to 1200 turns
120 sec run

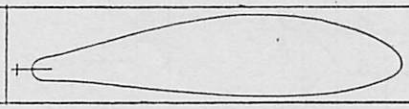
D-box 130g/m^2 cartridge paper

WEIGHTS	g	AREA sq ins		
fuselage	27.8		300	
wing	35.1			75
tail	5.7			
prop	26.4			
airframe	95.0			
rubber	88.0			
TOTAL	183.0			

You Need Not Be Present To Win!

Here's a good example of why you should send in a record of your contest successes (to our Secretary Meredith Chamberlain) before our next banquet in January. Don't forget, NATS successes get a multiplier, too!

Indoorsman and agent **Larry Loucka** won the CIA Indoor trophy for '98 - without even realizing he was eligible! (All-Knowing Agents are everywhere - Ha!) Sez Larry: "Thanks for the award! I graciously accept! The trophy is sitting in a place of honor on my dresser. If you could revive the Anderson, IN indoor meet, I'd have an excuse to met the CIA guys in person!"

SCHWARTZBACH, Christian (Danish)		560mm D	920-730-600 P	MaxAR P TYPE	208 cm^2 A (2BL.)	16.3cm LAD	3390 A x LAD	15.1 AL

USING PAPER PATTERNS TO CUT TISSUE NUMBERS AND DESIGNS

Paper patterns are the easiest way to cut numbers, designs, etc. First, determine what you want, then make a copy of the correct size, using white paper and black ink. Cut out the patterns using a hobby knife and/or scissors. If you are cutting a design that is light in color, place the material face-up on the cutting surface. (We advise using a self- healing mat that may be found in office supply or sewing stores.) Then place the pattern face up, then stick the pattern to the material with cellophane tape. Cut out the design, then peel away the finished piece from the pattern. The tape may be left on the pattern if you wish. If your material is dark in color place the material face down, with the pattern face down. Tape and cut as above. Complicated designs may need to be re-taped as cutting progresses. Many materials may be cut more than one at a time. Sample set ups are shown below.

James T. Kirk R + D Manager Brand X Models 7/06/99

Light colored materials



Dark colored materials



Thank You very much!

Let me take this opportunity to thank the good
folks who donated their time and abilities to make
This NATS a very enjoyable experience
In free flight competition.

Jim O'Reilly, Assist. FF Manager.
Gilbert Robbins, Trophies.
Bob Stalick, NFFS President.
AMA Staff: Steve Kaluf, Teresa, Liz, Randa, Amy,
and the on-site crew.
Scale Director, Dave Thomson.
Parking, George Emmelman.
Nite Fly, Lee Foster Campbell.
Cookout, Hank Nystrom of *Texas Timers.*
Banquet, Abram VanDover.
Moffett Director, James Bennett.
F1B/F1G Director, James Sonnenmeier
F1C Director, Bob Mattes
Support, guidance, and understanding, Denise Sullivan.

Processing Teams:

Brainbusters – Abram VanDover, Nat Comfort, Ed Sullivan, Jim Kelly, and Lee Person.

CIA – Les Hallgarth, Roger Lane, Guy Scott, Gary Oakins, Dick Covalt, Ed Wiley, and James Perdue.

Detroit Balsa Bugs- Andrew Tamasch, Art Ryan, Randy *Ryan, Bill Shailor, and Joe Huettl.*

Florida Modellers Association – Joe Macay, Joe Clawson, Bill Bell, Rex Hinson, and Jerry Wagner.

SkyScrapers – Jean Pailet, John Carbone, Jo Darling, and Alan Abriss.

Phil Sullivan, Mgr.

50th ANNUAL INTER-CITY MEET June 26,27 AMA flying site

F 1 A
1.A.Barron [op]
2. J.Barron [jr]
3.T.Teverov [jr]

F 1 B
1.C.Parkyn
2.J. McLashin
3.P.Crawly

F 1 C
1.B.Johannes
2.Gutai
3.Poti

F 1 G
1.R.Wood
2.Williams
3.P.Simon

F 1 H
1.Sifleet
2.E.Wiley
3.C.Coeyman

F 1 J **[new jr. record] ***
1.Austin Gunder [jr] 896 *
2.Fullmer
3.Poti

½ A GAS [s-o]
1.Kluiber
2.Mattes
3.Fulmer

ABCD GAS
1.Frazier
2.T.Ioerger
3.Mekina

NOS. GAS
1. Kluiber
2.Fullmer
3.Diggs

MULV.
1.Perkins
2.Sneed
3.Willis

MOFF.
1.Parkyn
2.Sneed
3.Williams

P - 30 [s-o]
1.Sechrist
2.P.Simon
3.Sova

CAT.GLIDER
1.Sullivan
2.Bill Ruiter
3.Kluiber

HLG
1.Mekina
2.Bill Ruiter
3.Sullivan

HLG [jr]
1.P.Barron
2.J.Ruiter
3.J.Barron

½ A GAS [jr]
1.J.Ruiter
2.---------
3.---------

P-30 [jr]
1.Drew Coverdill
2.J.Tortorelli
3.J.Ruiter

CAT. GLIDER [jr]
1.Peter Barron
2.J.Ruiter
3.J.Barron



MID-AMERICA F. F. CHAMPS !

MID-AMERICA AIR CENTER

LAWRENCEVILLE, IL . AMA Sanctioned
September 25 & 26, 1999
Practice/testing, Friday

Sponsored by Tri County Aero
Saturday 9:00 AM-5:30 PM
Sunday 9:00 AM-4:30 PM

ENTRY FEE $10 1ST EVENT–$3 ALL OTHERS JUNIORS $2 PER EVENT

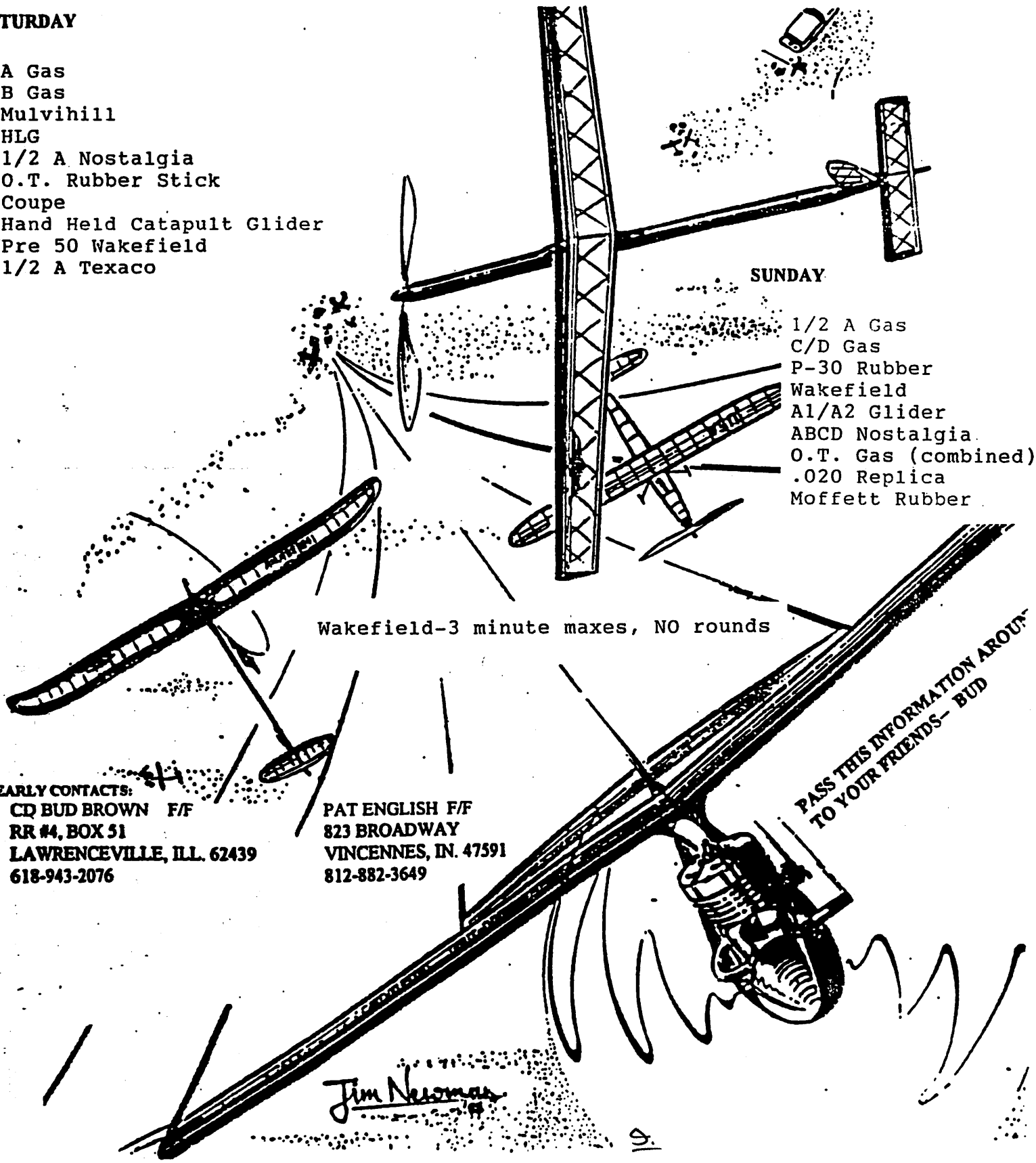
SATURDAY

A Gas
B Gas
Mulvihill
HLG
1/2 A Nostalgia
O.T. Rubber Stick
Coupe
Hand Held Catapult Glider
Pre 50 Wakefield
1/2 A Texaco

SUNDAY

1/2 A Gas
C/D Gas
P-30 Rubber
Wakefield
A1/A2 Glider
ABCD Nostalgia
O.T. Gas (combined)
.020 Replica
Moffett Rubber

Wakefield–3 minute maxes, NO rounds



EARLY CONTACTS:

CD BUD BROWN F/F
RR #4, BOX 51
LAWRENCEVILLE, ILL. 62439
618-943-2076

PAT ENGLISH F/F
823 BROADWAY
VINCENNES, IN. 47591
812-882-3649

PASS THIS INFORMATION AROUND TO YOUR FRIENDS– BUD

CIA FALL SCRAMBLE - FREEFLIGHT EXTRAVAGANZA

OCTOBER 16 & 17, 1999 -- INTERNATIONAL AEROMODELING CENTER - MUNCIE, INDIANA
9-5 EST SATURDAY - 8-4 EST SUNDAY

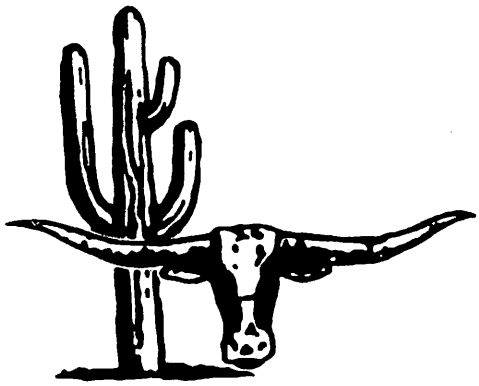
This is an outdoor freeflight duration **Category Championship** and **Grand Championship** contest. Fly any multiflight event either day but must start and finish the same day. No Reentries. Categories and events are as follows:

AMA NON-POWERED	AMA CO2, ROCKET & RUBBER POWERED	AMA ELECTRIC & GAS POWERED	NON-AMA EVENTS
HL GLIDER	MULVIHILL	1/2A GAS	1/4A NOS GAS
CATAPULT GLIDER	BIG E	A GAS	1/2A NOS GAS
F1A - A2 GLIDER	ORNITHOPTER	B GAS	ABC NOS GAS
F1H - A1 GLIDER	MOFFETT	C GAS	ABC OT CABIN
	BOSTONIAN(14gm.)	D GAS	ABC OT PYLON
	F1B - WAKEFIELD	PAYLOAD	.020 REPLICA
	F1G - COUPE d'HIVER	F1C - POWER	.010 GAS
	*CO2	F1J - SMALL POWER	.020 PEE WEE 30
	ROCKET	*ELECTRIC	1/2A CLASSIC POWER
	P-30		ABCD CLASSIC POWER
	#DAWN UNLIMITED		@OT RUBBER
	AUTOGIRO	*All classes combined	30 SECOND ANTIQUE
	HELICOPTER	# Fly Sunday morning 7:30am	
		@ Large & Small, Cabin & Stick combined	

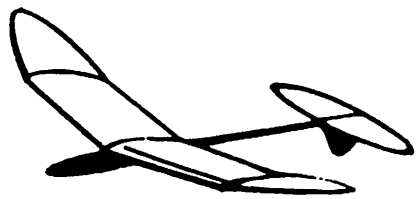
-THIS WILL BE A CATEGORY III CONTEST FOR APPLICABLE EVENTS.
-LARGE FAI; (7) FLIGHTS, NO ROUNDS, (3) MIN. MAX WEATHER PERMITTING - SMALL FAI (5) FLIGHTS, NO ROUNDS, (2) MIN. MAX.
-CLASSIC POWER 1999 RULES - (3) SEVEN SECOND ENGINE RUNS, THEN (5) SECONDS FOR ALL FLYOFFS - (2) MINUTE MAXES FOR ALL FLIGHTS (no engine restrictions; no movable surfaces or geometry changes during flight; aspect ratio limited to 8.0 or less; calculated aspect ratio displayed on top surface of wing.)
-NOS. GAS – 1999-2001 NFFS RULES - (3) NINE SEC. ENGINE RUNS, THEN (6) SEC. FOR ALL FLYOFF FLIGHTS; 2 MINUTE MAXES.
-OTHER EVENTS NOT LISTED WILL BE POSTED AT THE CONTEST AND WILL BE TYPICAL FOR THAT EVENT.
AWARDS: Merchandise award for the **HIGH TIME** in each event for Open & for Jr-Sr combined. Trophy award for each Category Champion (Jr-Sr-Op comb.) Category Champion determined by dividing the number of entries in an event by the place won in the event to determine a score and summing the best (3) event scores for a category. Trophy and merchandise award for Open Grand Champion & Jr-Sr Grand Champion. Grand Champions determined by summing the best event score from three of the four categories (must fly one event in three different categories to qualify).
The George Emmelmann bean feed will be held again this year after an overwhelming success in '98 at about 5:30 PM on the field - Saturday.

ENTRY FEES: $5.00 first event - $5.00 2nd event. $10.00 MAX entry fee. Juniors and Seniors free.
CONTEST DIRECTOR: Richard Covalt, 2716 Catalina Drive, Anderson, IN 46012 Ph: (765) 643-2278

10.



50th ANNUAL
SOUTHWEST REGIONALS
MODEL AIRPLANE CONTEST
ELOY, ARIZONA
JANUARY 15-16-17
2000



FOR IMMEDIATE RELEASE

The Southwest Regionals Modelers Association Inc. announces new events for their 50th annual contest.

This unique contest features events for:

F.A.I. Free Flight International competition classes

Saturday	Sunday
F1A	F1G
F1B	F1H
F1C	F1J

S.A.M. R/C Old Timers

Saturday	Sunday	Monday
Antique	B Ign LER	Ohlsson .23 Ign
Pure Antique	Ohlsson Sideport	Electric LMR
AB Glow	C Glow LER	½A Texaco Scale
Electric Texaco	Texaco	Old Time Glider
C Ign LER	A Ign LER	Brown Jr. LER
½A Texaco	Spirit Of S.A.M.	

A.M.A. + N.F.F.S. + S.A.M + F.A.C. Free Flight events

Saturday; 8-4PM	Sunday; 8-3PM
½A Gas	A Gas
B Gas	C Gas
D Gas	½A Nostalgia (NFFS)
A Nostalgia (NFFS)	B-C Nostalgia (NFFS)
020 Replica (SAM)	Old Time Gas Combo (SAM)
Mulvihill	P-30
Old Time Rubber (SAM)	Hand Launched Glider
Juniors-Delta Dart	Jimmy Allen Event
Catapult Glider	F.A.C. Scale
R.O.W. Gas Combo	R.O.W. Rubber Combo

M.E.C.A. Collecto 4:00 PM until 7:00 PM; Saturday

START MAKING PLANS NOW TO JOIN THE EXPECTED 200+ MODELERS AT THIS HISTORIC EVENT

SOUTHWEST REGIONALS MODELERS ASSOCIATION INCORPORATED
PHONE 480 839 8154 E-MAIL aalmps@aol.com
PLEASE VISIT OUR WEB SITE AT http://members.aol.com/allff
1030 East Baseline Road - Suite 105 #1074 • Tempe, Arizona 85283-1374

1999 C.I.A. AREA FREEFLIGHT CONTEST CALENDAR

APR	9,10,11	R/C EXPO (COLLECTO SAT)	TOLEDO, OH
APR	24,25	16th EASTERN U.S. AAA FF CHAMPIONSHIPS	TOM HIGGS FARM - INGLESIDE, MD
MAY	2	MECA COLLECTO	COLUMBUS, OHIO
MAY	9	MOTHER'S DAY	
MAY	15,16	FFAMS ANNUAL FF CONTEST	AMA FLYING SITE - MUNCIE, IN
MAY	31	MEMORIAL DAY	
JUN	**2-6**	**USIC/AMA INDOOR NATS**	**JOHNSON CITY, TN**
JUN	5,6	CIA OT & NOS GAS FF MEET	AMA FLYING SITE - MUNCIE, IN
JUN	5,6	MMAC - Mini F.A.I. & Late Spring Meet	NORTH BRANCH, MN
JUN	11-13	AMA GRAND EVENT	AMA FLYING SITE - MUNCIE, IN
JUN	19,20	M.A.M. OT FF MEET/RC ASSIST, Slag & Nos.	STURGIS, MI
JUN	26,27	INTER CITY FAI/NOS/AMA	AMA FLYING SITE - MUNCIE, IN
JUN	27	AERONUTS FUN FLY	BONG, WI
JUL	3,4	INDEPENDANCE DAY WEEKEND	
JUL	11	IMAC ANNUAL	BONG, WI
JUL	11	MMAC - SUMMER MEET	NORTH BRANCH, MN
JUL	18	AERONUTS OLDTIMER	BONG, WI
JUL	25	PELICAN OLD TIMER	BONG, WI
AUG	**1-5**	**AMA FF NATS**	**MUNCIE, IN**
AUG	8	BONG EAGLES ANNUAL FF MEET	BONG, WI
AUG	14,15	NOFFA FREE FLIGHT CONTEST	AMA FLYING SITE - MUNCIE, IN
AUG	15	MMAC - ALMOST SILENT MEET	NORTH BRANCH, MN
AUG	25	BONG EAGLES SILENT	BONG, WI
AUG	28,29	AERONUTS MIDWESTERN STATES CHAMPS	AMA FLYING SITE - MUNCIE, IN
SEP	4,5	COFFC FREE FLIGHT MEET	AMA FLYING SITE - MUNCIE, IN
SEP	6	LABOR DAY	
SEP	11,12	C.I.A. AAA FF CONTEST	AMA FLYING SITE - MUNCIE, IN
SEP	11,12	HOOSIER CUP(America's Cup Competition)	AMA FLYING SITE - MUNCIE, IN
SEP	12	MMAC - FALL MEET	NORTH BRANCH, MN
SEP	25,26	TRI-CO AERO CLUB FF MEET	LAWRENCEVILLE, IL

Note: Tri-Co has advanced their traditional date one week this year to avoid conflict with the SAM CHAMPS

OCT	**4 - 8**	**SAM CHAMPS - HATBOX FIELD**	**MUSKOGEE, OK**
OCT	5-9	AMERICAN KITEFLYERS CONVENTION	AMA FLYING SITE - MUNCIE, IN
OCT	16,17	CIA FALL SCRAMBLE	AMA FLYING SITE - MUNCIE, IN
OCT	17	MMAC - OCTOBERFLUG	NORTH BRANCH, MN
OCT	31	MMAC - TURKEY SHOOT	NORTH BRANCH, MN
NOV	7	MECA COLLECTO	COLUMBUS, OHIO

The **INFORMER**

CIA — Central Indiana Aero Modellers

2348S, 700W
New Palestine,
IN
46163

1999 President
Sean Cochran (in exile)

Vice President
Phil Sullivan (on deck)

Sec'y/Treasurer
Meredith Chamberlain

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