CENTRAL INDIANA AEROMODELLERS

INFORMER

FREE FLIGHT NEWS OF THE MIDWEST

** The Weather **
When pigs carry sticks,
clouds will play tricks.

- Editor -
Moe Whittemore
2348S, 700W
New Palestine
IN 46163

Issue # 3-4/93 May/June/July/August Price $7.50/yr.

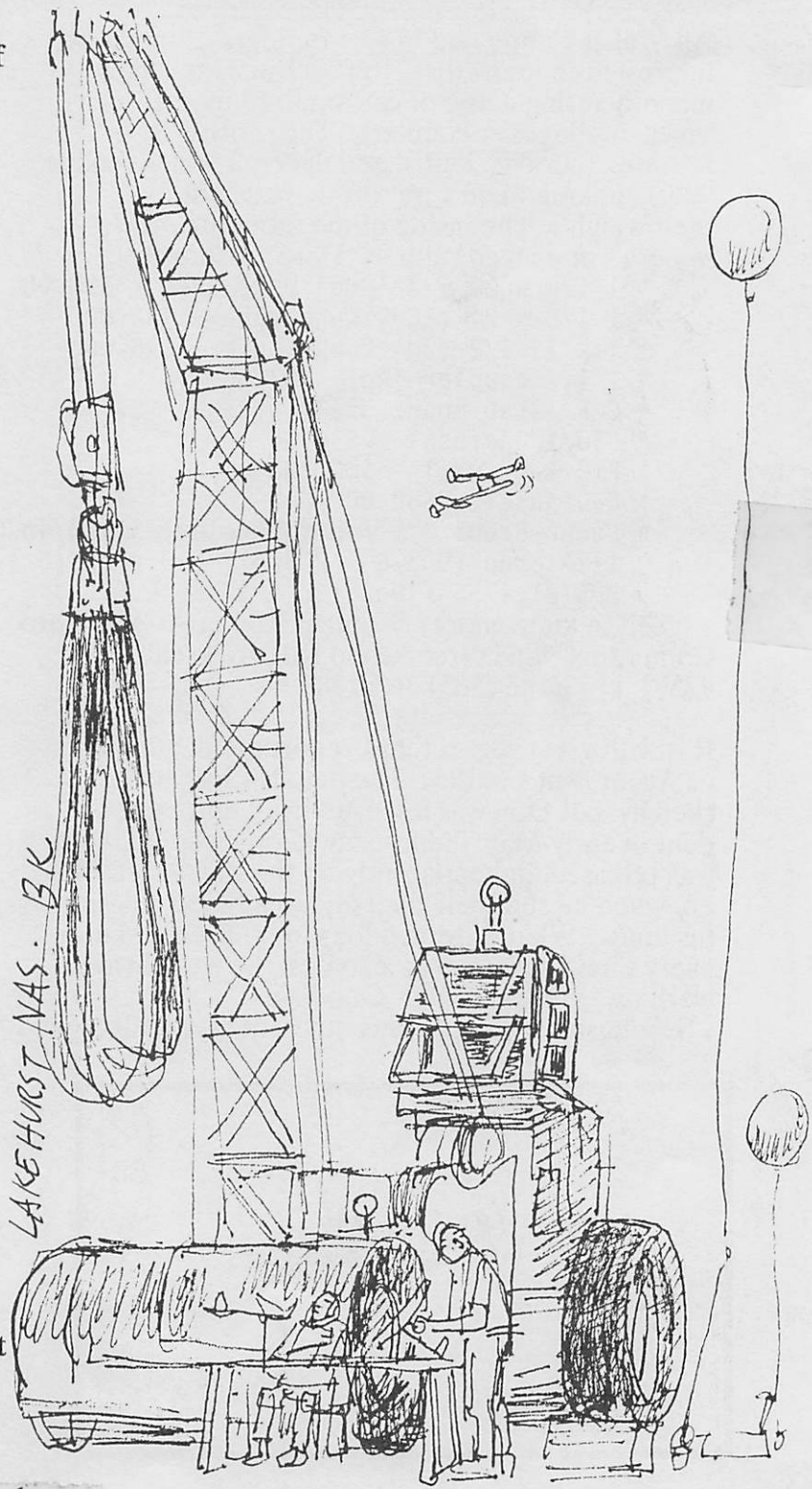
Contest Schedule Reschedules .... I can't remember when we have experienced so much juggling of the area outdoor contest schedule in the eleventh hour as in this one!

First, our initial schedules noted the FFMAS meet to be June 19 and 20, but we were later advised that the meet would be staged on Sunday the 20th only since the traditional the Intra-City FAI portion had pulled out this year, opting for July 10/11 at the Muncie site. Thus we revised our schedule accordingly.

Then, lo and behold! When the official FFMAS contest handbill gets handed out 30 days before the meet, it is a 2-day affair again, with 3 events on Saturday and 5 on Sunday. Plus, if this issue of our rag doesn't get in the mails by the 15th of June, there may be a number of prospective contestants still thinking it was to be a one-day affair.

The second notice involves the August 21/22 COFFC contest which is being relocated to the AMA Muncie site due to a confliction with a model R/C Chopper contest at WPAFB! See the attached handbills on both meets for more details - and let's hope this ends the "stutter-starts" for this season. - HSM

CIA Fall Regional Champs .... There are a few changes for our Annual Fall CIA Regional affair for 1993, so we should mention them for those who never read the fine print on the contest handbills. First, the 2-day bash is to be held at the AMA Muncie site, rather than W-P (as per the last 15 years), and it's 9-4 Eastern Time rather than EDST as per the Ohio meets. Events are the same as last year, with 3 exceptions: O.T. Rubber has been replaced by Cd'H since the former was a bust in its initial trial last year. Second, by popular request (one vote!) Moffet Rubber has been added to the Sat. eve special event list - giving rubber flyers something to do Sat. eve, as well (see the 1/93 Informer for the rules). Lastly, the Junior P-30 event has been replaced by a more open-ended rubber event which is the equivalent of an "anything goes" thing including P-30's, P-nuts, Delta Darts, AMA Cubs, A-J Hornets, etc. See the attached flyer for further details. See ya there!



CIA Welcome Mat .... Let's give a big, fat handshake to new Agents **Eric Hallgarth** of Anderson, IN and **John Irwin** from Seguin, TX!

Agent **Bob Perkins** sez he's working on a new 900 sqin Nelson .41 powered model to be named either "Birdhawk", "Bitchbird" or "Hawkup"! And he wants to reserve space in the Jan/Feb '95 Informer for a writeup when the project is completed!

All Wake, Coupe and Power Builders .... might be interested to know that Ron McBurtnett is now manufacturing a line of carbon fibre motor tubes, fuselages & couplers. The process is pre-preg (cure @ 250F), and 90deg-0-90deg (coupe 90-0), making them very torque-resistant for their weight! The inside of the tubes are *dead smooth* - no nicked rubber! Here's a short list:

* 1 1/4 x 23 3/4 (28g) Wake tube - $30.00
* 1 1/8 x 24 (26g) Wake tube - $30.00
* 1 x 13 1/2 (9g) Coupe tube - $15.00
* 1 1/4 coupler (4g) - $7.50
* C.F. Stab mount ass'y (.75g) - $7.50
* F1J/1/2A fusel - $40.00
* F1C/A-B fusel - $60.00
* C-D fusel - $80.00
* Power Props - $1/in fiberglas; $1.50/in C.F.
* 1/2A prop (5 5/8 x 2 3/4); F1J prop (6 1/4 x 2 5/8) - $6 fiberglas & $7.50 C.F.

Need to know more? Contact Ron at ACME Aero Composets, 2265 Greenwood Rd., Rickreall, OR 97371, or phone (503) 363-7180.

It is with great regret that I report the death of Agent **Don Lindley.** The details I have are sketchy, but Don was involved in an auto accident in early May, did his stay in the hospital, was released and apparently on the way to recovery when he suddenly died due to a blood clot in his lungs. What a tremendous loss! Seems like every time I saw Don at a contest, he was always working - always giving! Goodbye.

The business card he recently sent says it all:



D.J. Lindley
Toy Airplane Freak

420 Topelo
Naperville, IL 60540 *(708) 355-9674*

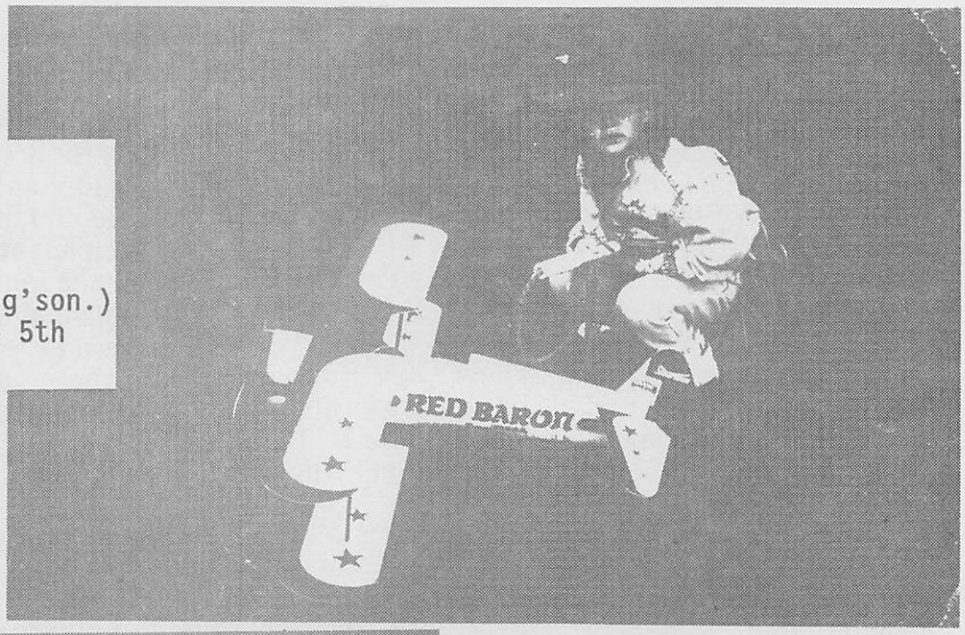
If **Doc Zabelka** is within earshot, the INFORMER extends an open invitation to do an article on his P-30, if he could furnish the necessary info.

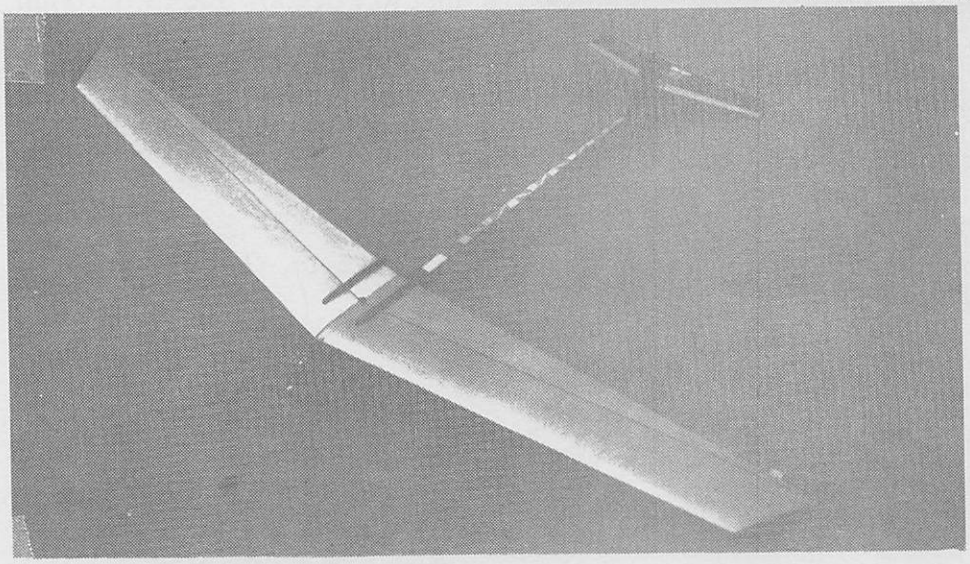
I saw this job fly at the fall '92 L'ville bash, and it was very impressive - as was the design. The same offer holds for his accessories - stooge, electric winder, etc..

Spread the word! - MJW

Indiana Jones
meets
the **Red Baron!**

Bryan Murphy - age 6 (Harry's g'son.)
Recently won his 1st "prize" - 5th
in Jr. HLG @ May 22/23 meet!



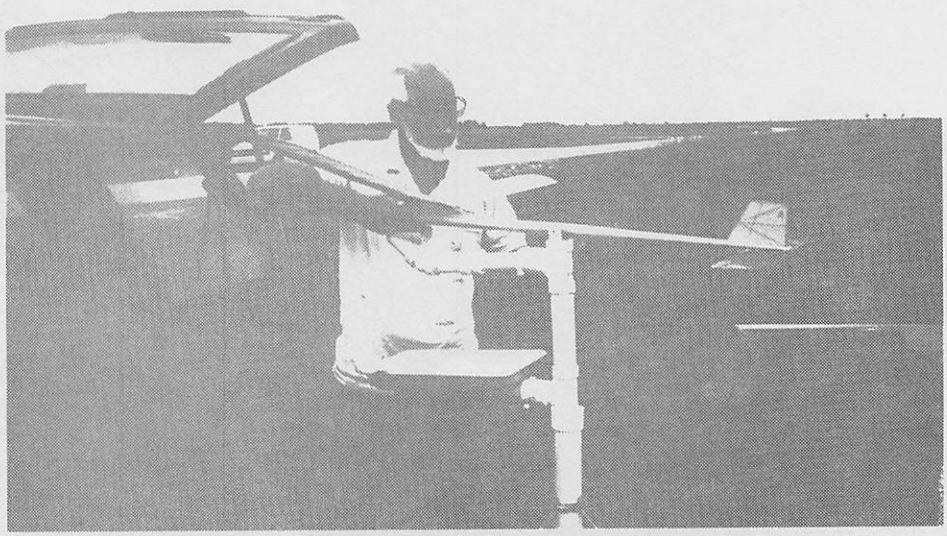


Gil Morris' *Pipe Dream* ...
His Fine, Flapped, F1C.

(Looks like it's got
an oil leak!)

Doc Zabelka (Brimley, MI)
prepping his Wake at K.O.I.

He winds his models with a
vari-speed electric drill,
counter attached.
His stooge is PVC pipe!



Agent **Dick Meixell** wants us to know that we're all welcome to attend the Flying Aces Contest of Aug. 8 at WPAFB, from 9 til 5. The 8 scheduled events include: *Peanut, FAC scale, Embryo, Jumbo scale, WWI dogfight, WWII combat, WWI No-Cal combat and Dime scale.* Entry fee is only $5!

Contact CD Frank Scott, 6633 E. LeFevre Rd, Casstown, OH 45312. Or phone (513) 335-3057.

In case you scale buffs didn't know, Diels Engineering (Dave Diels and his fine scale kits and plans) have moved into new quarters. It's P.O. Box 263, Amherst, OH 44001. Drop him a line and get his newest listing of scale goodies!

Remember That Simple Fuel Bladder we showed a few issues back? The one made by tying off a length of thin 1/8" tubing? Agent **Hank Nystrom** sez the source of this 1/8 x 3/16 (1/32 wall) latex tubing is MD Medical Supply (Att'n: Linda Lyons), 3955 East Speedway Blvd, Suite #101, Tucson, AZ 85712. If you need 50 ft. of it (min order), ask for #2869-043. It's $18.42 + $6 S&H. If you don't need 50 ft, you might talk Murphy, Robbins or Sullivan out of a piece of theirs!

The Third Annual Cuckoo Challenge! I'd just like to plug an alternate contest ... unfortunately, this year it conflicts with the COFFC meet of Aug. 21-22. But, for those who will be "out East" then, this is one you won't want to miss! It's not just a contest - it's a *Happening*!

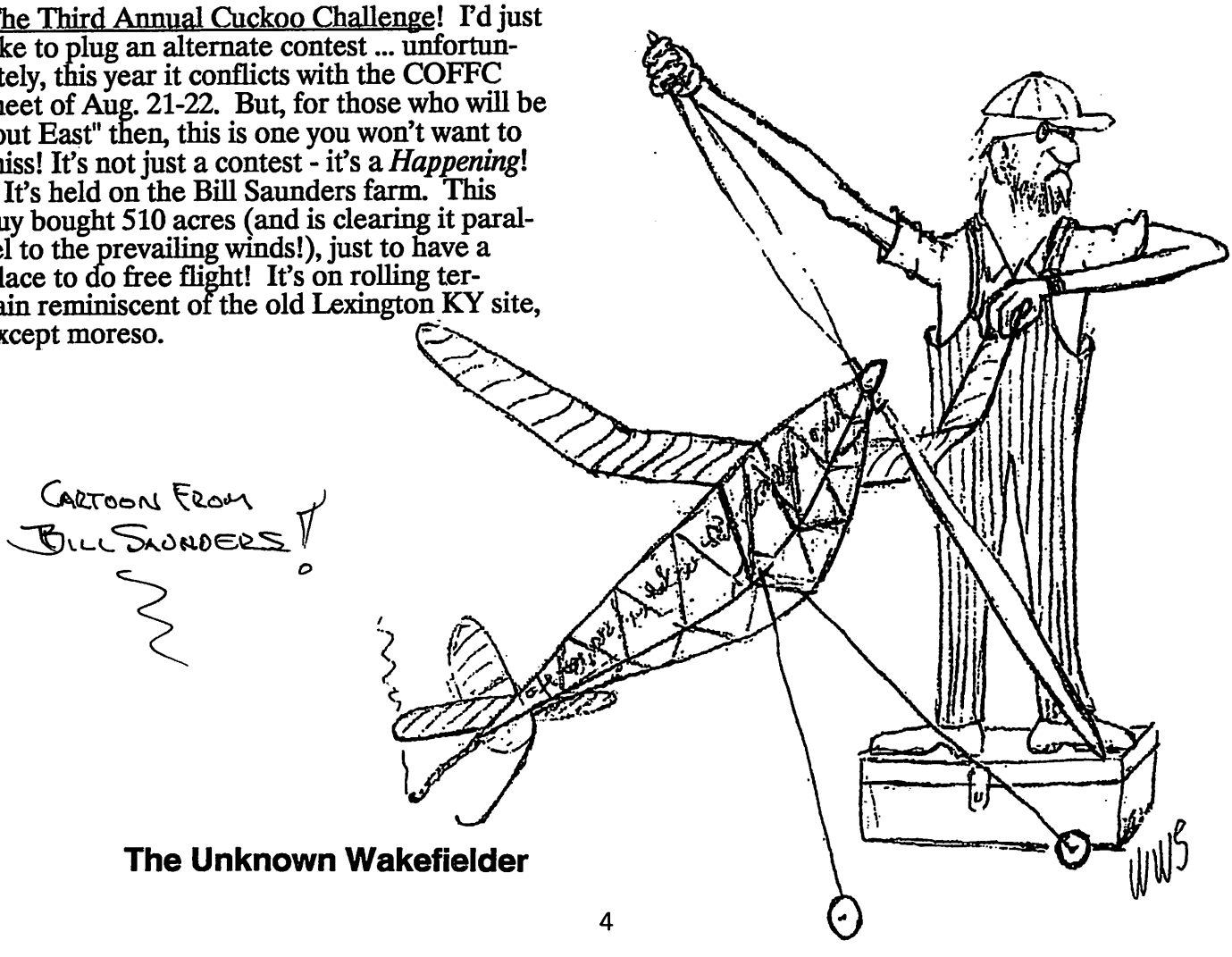
It's held on the Bill Saunders farm. This guy bought 510 acres (and is clearing it parallel to the prevailing winds!), just to have a place to do free flight! It's on rolling terrain reminiscent of the old Lexington KY site, except moreso.

Bill's in partnership with the owner of the nearby food/convenience store, letting the site pay for itself by raising beef, which keeps the pasture automatically mowed. There's a reasonable number of gates and roads for bikes, plus permanent stiles over fences marked with flags, for the foot chasers! Last year, if your model hung in a tree, there was even a tree-climber there to retrieve!

There's a $20 max fee - and this pays for the Saturday nite feed! Last time we had burgers, 'dogs, BBQ, tater salad, chips, beans, salads, watermelon, cakes, drinks, and on and on ... Reminded me of the early days down at Lawrenceville. There was also a big raffle - mostly FF modeling accessories (I won a magnifier lamp).

Pulling a camper to Cuckoo? Plenty of room! Many of us were docked over at the farmhouse last year. There are area motels, but the closest one is about 15 miles away. Interested? Contact Bill Saunders, 11613 LeBaron Terrace, Silver Spring, Maryland 20902. Ph: (301) 593-7196.

- MJW



The Unknown Wakefielder

Cut Your Losses!

Find downed models quickly with the Model Beacon by 700 West. This small transmitter works with low cost fixed or programmable CB receivers. Range is up to 1 mile, depending on terrain. SMD technology keeps the weight with battery to about 4 grams. CH 14 units are available for immediate shipment, with many different channels available soon.

Price is $50, which includes battery, antennae and connectors, 3 means of activation, mounting hardware and shipping. M.J. Whittemore, Jr, 2348S, 700W, New Palestine, IN 46163. (317) 861-4266.

An interesting observation: "Free Flighters are a great bunch of people. *They're not afraid to extend themselves.* The only other group like 'em are the muzzle-loaders!" Jim Bockinfuso said it (last summer at Cuckoo). I agree. I've dabbled in both sports. Both groups are very competitive do-it-yourselfers/scratchbuilders! - MJW

CIA Trivia - Big Spenders .... Former Buckeye, and mostly of Tucson, AZ these days, **Joe Guylas** apparently has confidence that the CIA will continue to thrive, so he recently sent monies for a 3-year Informer subscription. Man, we don't know how to handle that kind of money!

Then there is **Bob Shakespeare,** formerly of NOFFA and now Naples, FL who sent us his $7.50 by check on 4/10 and followed with a 2-year $15 check on 5/13! While this also totals to a 3-year subscription, we think this may be more closely associated with Alzheimer's - Ha!

Finally, from **Hardy Brodersen** and Brokenspar, Inc. comes a $20 check and an accompanying formal note that he wants to have the Informer sent to him to keep posted on the rule-change proposals. This is great, but apparentlly he doesn't read it or he would have known it is only $7.50/year - tee, hee! Oh, yeah - Hardy went to Europe last winter to help tweak some rules himself at the FAI house by banging on the door until he got the muffler requirement killed for FAI FF gas. Good show, Hardy!

The Dick Korda Commemorative .... C'mon over to the SAM 39-sponsored mid-week bash Aug 18 & 19 in Shelby, OH and say hi in person to the Master, *Dick Korda.*

16 O.T. events are scheduled, covering ignition, diesel, glo and electric disciplines! For more info, contact Contest Manager Bucky Walter, 5807 Cambridge Circle, Sandusky, OH 44870, or phone (419) 625-9078.

Muncie Pushing for Hobby Capital Status ....

Muncie is stepping up its efforts to attract sports and hobby events, attractions and organizations by creating a new Sports and Hobby Development Group. This group and its 9 member board of overseers is charged with the following tasks:

* To attract national sponsors for local sports and hobby events.
* Better organizing local sports and hobby events and better coordinating their schedules.
* Attracting sports and hobby events to the area.
* Book Ball State University's new arena.
* Attract other hobby headquarters to the area.
* Attract hobby-related manufacturers and distributors to the area.

Although other cities have sports corporations, Muncie is unique in that it emphasizes the hobby aspect.

Since we're on the subject of Muncie news, Muncie BMX (bike moto-cross) officials and reps from the AMA discussed the possibilities of using part of AMA's site for for a bmx track, after Muncie BMX lost its site to repeated flooding. BMX meets draw 50 to 80 riders.

A BMX spokesman stated "It's the best location of any we've considered, and they want us there." AMA is asking for a percentage of the concession revenue.

Once an agreement is reached, a national biking organization will start constructing the track immediately. It is hoped to have events at the track yet this year!

From the Scatter N'letter .... If any of our readers will be attending the FF FAI WC in October, **timers are desperately needed!** If you can help, contact Steve Geraghty, 121 Spruce Hill Court, Los Gatos, CA 95030.



NEW "SUPER-A" SKYROCKET READY JUNE 10th

An entirely new 36" Wingspan Skyrocket for use as a sport model with the Arden engine or as a contest model with the Ohlsson "19" or Bantam "19" will be ready June 10th. The old Skyrocket at $2.25 has been discontinued and no further deliveries until the new model is ready. Orders for the old Skyrocket will be made with the new model. Price on the new model will be $2.95. (6-46)



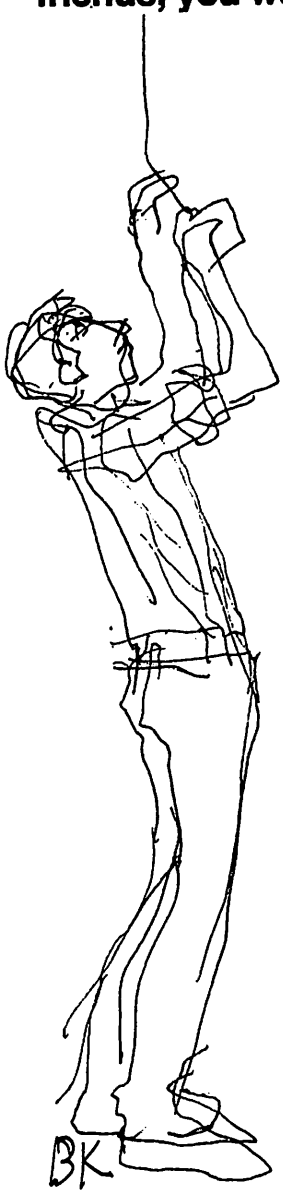
Why Worry?

**There are only two things to worry about;
Either you are well or you are sick.**

**If you are well, then there is
nothing to worry about;
But if you are sick, there are two
things to worry about;
Either you will get well, or you will die.**

**If you get well, there is nothing
to worry about.
If you die, there are only two
things to worry about;
Either you will go to Heaven or Hell.**

**If you go to Heaven, there is
nothing to worry about,
But if you go to Hell, you'll be so
damn busy shaking hands with
friends, you won't have time to worry.**



Scramblin' .... by Mo Whittemore

I've always wanted to do this to my readers .... I've got a piece of software that breaks down text files and reassembles 'em in such a manner that the new output sort of resembles the old input, but with a mess of surprises thrown in! Speeches and editorials take on the aura of a 50's poetry reading! Familiar works (*"The Night Before Christmas"*) become hilarious, and I kept waiting for the lightning to hit after I ran *The Lord's Prayer* through it! Here's what happened when I let the scrambler do its thing on *"Why Worry?"*. Enjoy!

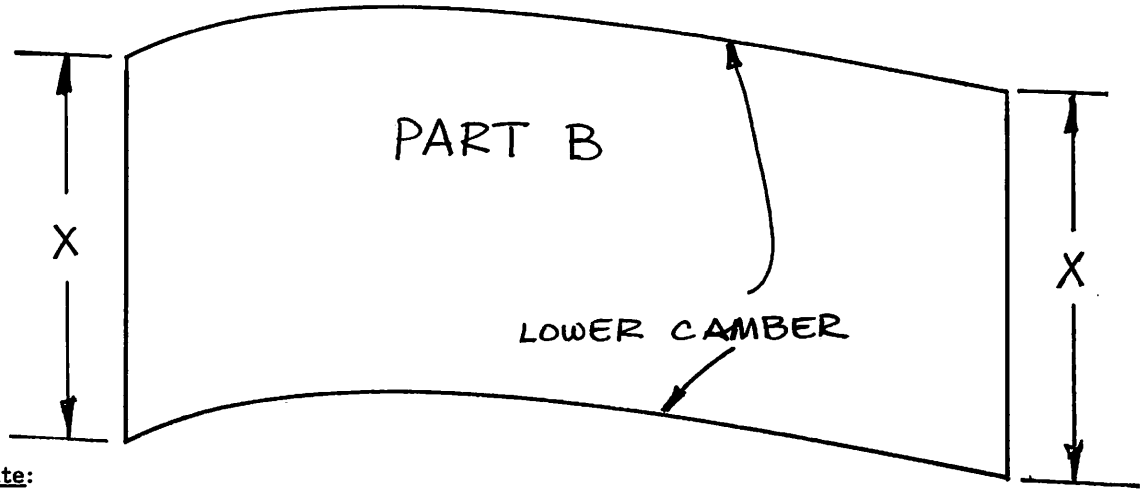
Worry About

There is nothing to worry about.
If you will get well, you will go to hell.
There is Nothing
To worry about.
You won't have time to worry
Either you are well, or you get well
Go to heaven or hell,
There you will die.

If you are only two things
Worry about nothings.
Either you die about
Or worry about.
Either you are well, or you will get well,
Sick.
Nothing to worry about.
But if you are only two,
Worry about.

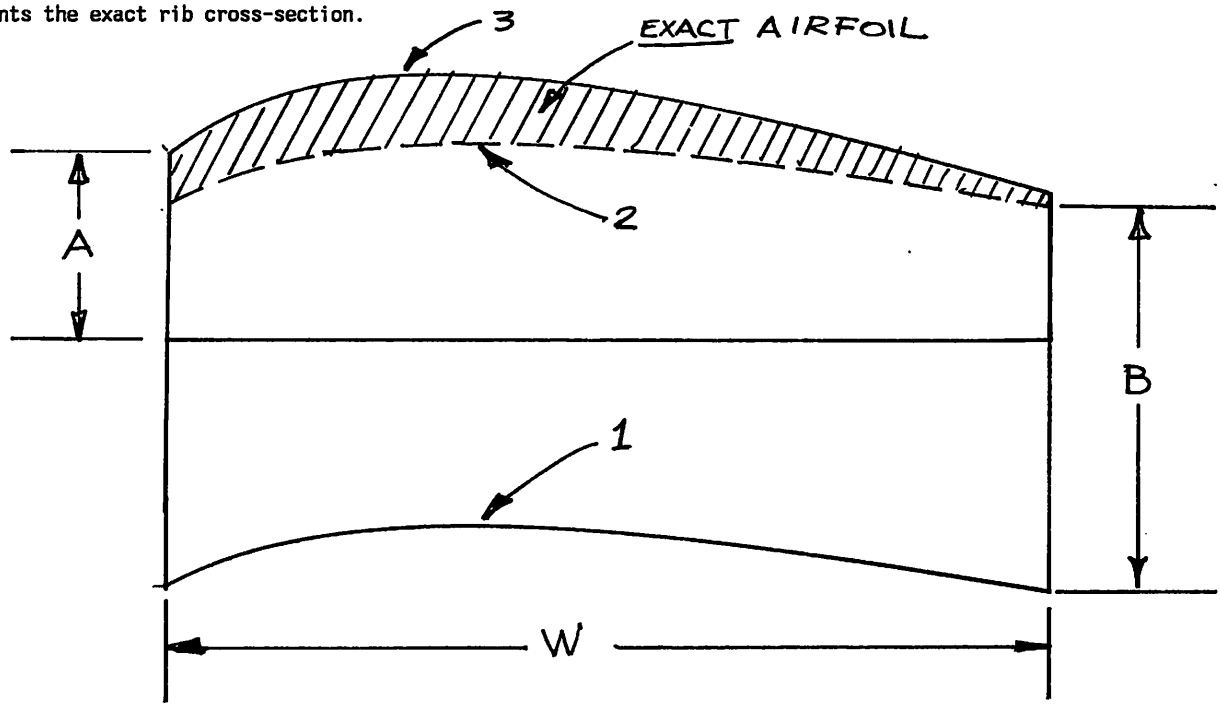
(Funny thing is, when you run a Clinton speech thru this scrambler, it comes out making perfect sense!!) - MJW

Walt's Rib-Maker



To make the template:

* Cut out an exact copy of the desired rib from hard 1/16" sheet.
* Using rib upper camber as a template for surface #3, cut part A from 1/16" ply.
* Cut part B from 1/16" ply, using the rib lower camber for surfaces #1 & #2.
* Glue part A on top of B (using rib as guide) so the area under top portion of B and above A represents the exact rib cross-section.

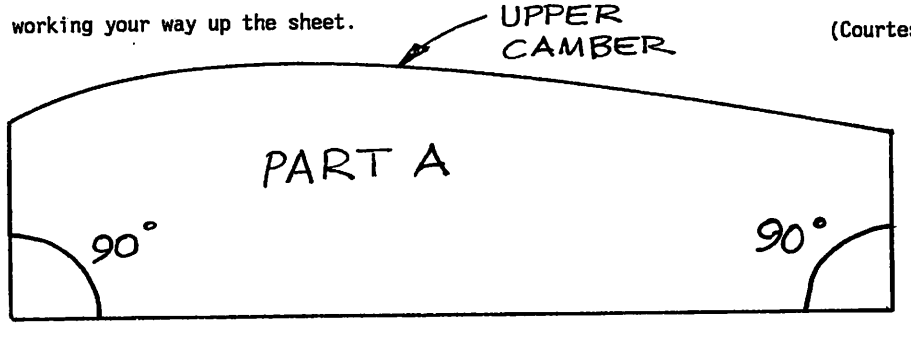


To cut the ribs:

* Cut rib sheet stock to width of template.
* Place edge 1 along lower edge of balsa sheet and cut lower camber.
* Slide template down until edge 2 locks along lower camber cut just made.
* Cut edge 3 (upper camber).

Repeat the rib procedure, working your way up the sheet.

(Courtesy, Agent Walt Rozelle!)



That All-Important C.G.!

by Murph

As we all know from experience, we are nowhere in getting new models trimmed until the CG (center of gravity) gets spotted pretty close to its proper location relative to its percentage of the average wing chord, measured back from the leading edge. Obviously, the CG point varies with the design aspects of each individual model.

A number of experts have written articles over the years in this regard - of which follows a reference list of where they can be found. Most attempt to make this important design item simple for us by spitting out their pet formulae for pinpointing the spot with a yardstick and a handheld calculator. You don't even have to understand the math involved - just plug in the appropriate numbers and turn the crank and the answer oozes out in a matter of minutes. Of course, if the answer doesn't make any sense, you probably made a mistake somewhere!

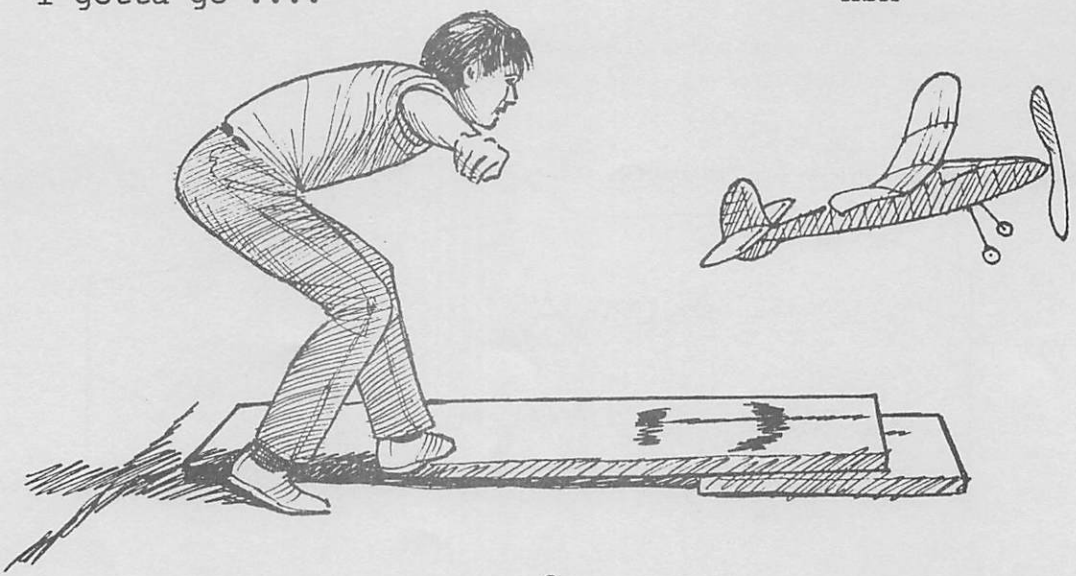
In perusing the listed articles all the experts seem to agree that we must know the **Stab Area, Wing Area, Average Wing Chord** and **Tail Moment,** which are required to compute a weird thing called **Tail Volume,** or TV_o. Then, you plug TV_o into any one of a number of formulae to compute the Neutral Point or CG, depending on how you measured the TM.

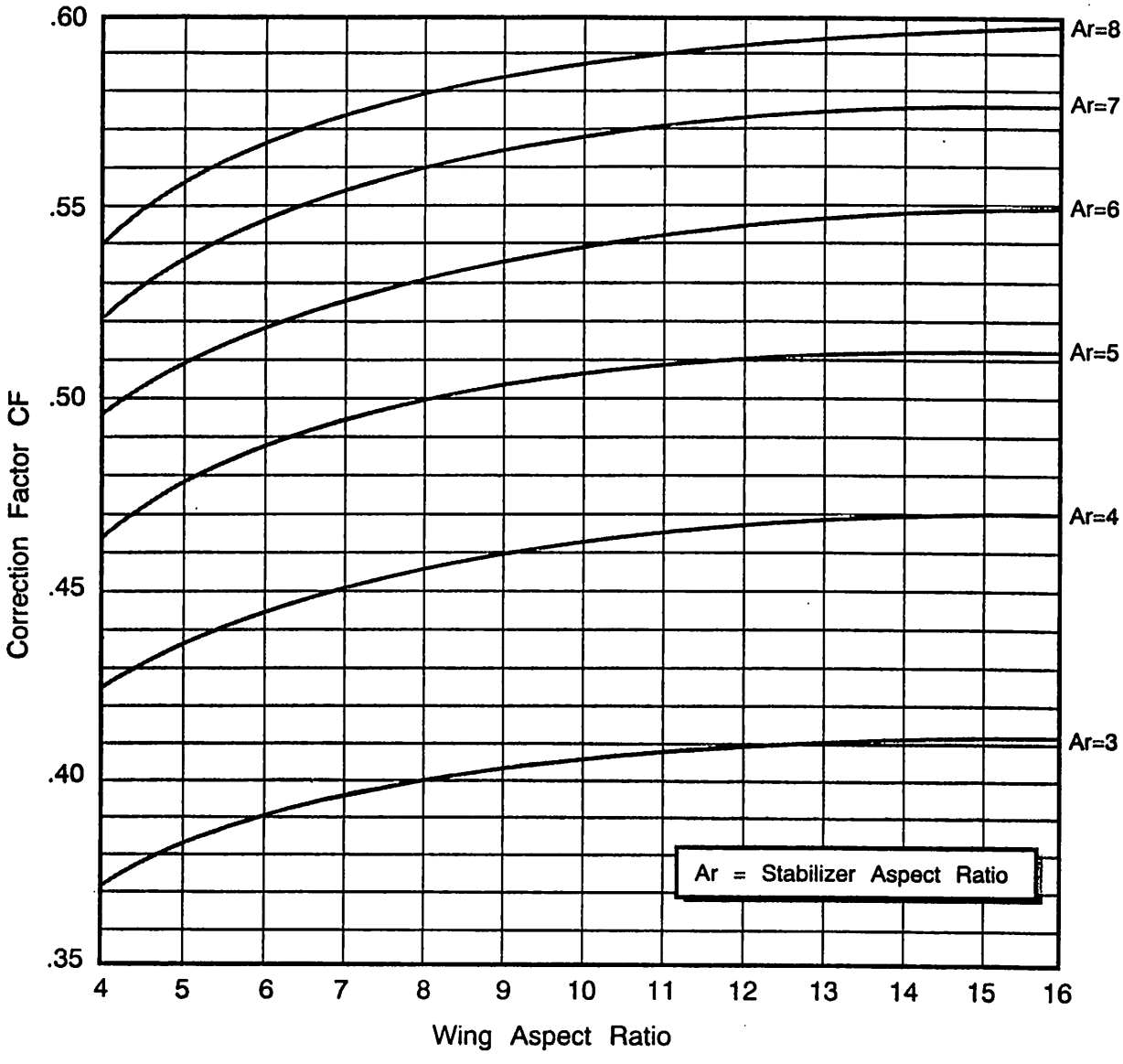
Whereas most authors seem to agree on what constitutes Wing Area, Stab Area and Average Wing Chord - all seem to differ in their definitions of Tail Moment, as the following synopsis indicates. Obviously, no two formulas using different TM's are going to give you identical answers, but since the answer is to be considered "estimated" anyway, the differences should be a bit inconsequential.

Anyhow, if your model crashes, you can go through all this ciphering should you want to know why ....

Now along comes Hank Cole, joining our list of experts who seem to agree with Jim O'Reilly's definition of TM, but goes a step further to advise as to how far one must shove the computed CG further forward if your model incorporates an auto-stab. My, this sounds too hi-tech for me. I think I'll go back to Delta Darts and work my way up again!

I gotta go .... - HSM





Method For Determining Position Of C.G.

STEP I Measure tail moment arm between 25% point of the average chord of wing and stab.

AV. CHORD = Area ÷ Span

STEP II Find Aspect Ratio of Wing and Stab

Aspect Ratio = Span ÷ Av. Chord

STEP III Find CF from graph

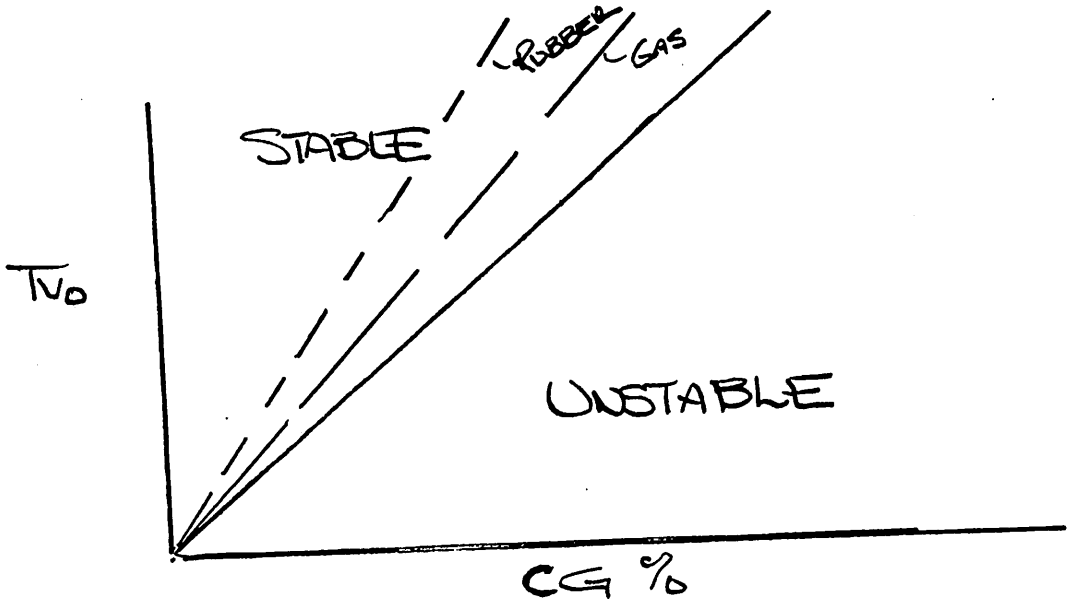
STEP IV Find distance from 25% point of wing to Aerodynamic Center (Neutral point)

$$\text{Aerodynamic Center} = \frac{\text{stab area} \times \text{Tail mom. Arm} \times \text{CF}}{\text{wing area}}$$

STEP V Locate C.G. 12-15% of average chord ahead of Aerodynamic Center for auto stab free flight

Chart Courtesy of Hank Cole

ESTIMATED CG LOCATION



$$T_{VO} = \frac{S_H \, l_{to}}{S_W \, \bar{c}} = \frac{\text{STAB AREA} \times \text{TAIL MOMENT}}{\text{WING AREA} \times \text{AVG. WING CHORD}} =$$

(*)

$$T_{VO} = \frac{S_a \times T_m}{W_a \times C_{aw}}$$

$$\text{NEUTRAL POINT} = \frac{CG}{C} = \frac{T_{VO}}{2.5} + .25 = \%_O \text{ FROM L.E. } C_{aw}$$

(USE BOGARDI'S DEFINITION OF T_m IF YOU USE THE ABOVE TWO FORMULAS, PLUS % BELOW)

(*)

1. T_m = L.E. WING ⟷ L.E. STAB - (B. McCOMBS)
2. T_m = L.E. WING ⟷ QTR CHORD STAB - (B. BOGARDI)
3. T_m = QTR CHORD ⟷ QTR CHORD - (J. O'REILLY)

(ALL MEAN AVG. CHORDS)

STARTING CG

a. MOVE 5-10 % FORWARD FOR GAS/TOWLINE
b. MOVE 10-20 % FORWARD FOR RUBBER

EASIER METHOD



GAS

$$\frac{CG}{C} = .17 + (.43 \times T_{V_0})$$

WAKEFIELD / FF SCALE

$$\frac{CG}{C} = .16 + (.36 \times T_V)$$

(USE McCOMBS DEFINITION OF T_m IN THESE FORMULAS)

REF:

a. BOGART & RHODES — MAN JAN. '59
b. BOGART — ZAIC '59-'61 YEARBOOK
c. BOGART — 1980 NFFS SYMPO
d. O'REILLY — JAN/FEB '83 — NFFS DIGEST
e. MORRIS — 1984 NFFS SYMPO
f. McCOMBS — "MAKING SCALE MODEL AIRPLANES FLY" $9.95 + $1.05 POST AIRCRAFT DATA BOX 763576, DALLAS, TX 75224.



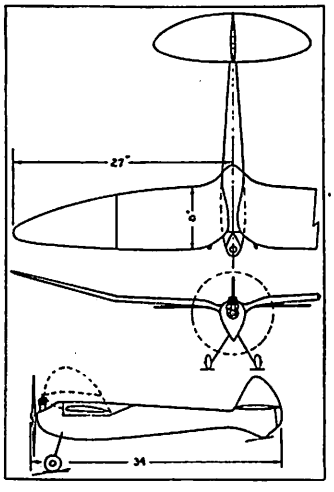
Bill "Ole Yeller" Hale's Stress Diet for Fr Fliters

BREAKFAST

½ GRAPEFRUIT
1 SLICE WHOLE WHEAT TOAST, DRY
8OZ. SKIM MILK

LUNCH

4 OZ. LEAN CHICKEN
1 CUP STEAMED CABBAGE
1 CUP HERB TEA
1 OREO COOKIE



BROWN JR MOTOR

Mid Afternoon Snack
Rest of the Oreo cookies in the package
2 pints vanilla fudge ice cream

Dinner
2 loaves garlic bread with cheese
Large sausage, mushroom & cheese pizza
3 twelve oz. candy bars

Late Evening Snack
One frozen cheesecake, eaten directly from the freezer

Diet Notes:

1. If you eat something and no one sees you, it has no calories.
2. If you drink a diet soda with a candy bar, the calories in the candy are cancelled out by the diet soda.
3. When you eat with someone else, calories only count if you eat more than they do.
4. If you eat standing up, it doesn't count.
5. Fatten up everyone around you, then you'll look thinner. (Bill's buying!)
6. Charity foods, i.e., Girl Scout cookies, have no calories.
7. Movie related foods do not have calories because they are part of the entertainment package; i.e., candy, buttered popcorn and soft drinks.
8. Broken cookies have no calories.
9. Things licked off knives and spoons have no calories if you are preparing food. Examples: peanut butter on a knife and ice cream on a scoop.
10. Foods that have the same color have the same number of calories. Examples: spinach and pistachio ice cream, mushrooms and white chocolate.
11. Never eat vegetables when the wife isn't looking.
12. Always go back to the doctor every 6 months and tell him exactly what he wants to hear.

Wright-Patterson Air Force Base Contests
Let's Review the "Rules"

Marty Richardson

During the last competition held at WPAFB some problems occurred as a result of people not following the rules regarding the use of the flying area. The people involved either did not know the rules or choose to ignore them. Before reviewing the rules and explaining the use of the new access gate, I think everyone should be reminded that our use of WPAFB is a privilege not a right. It would only take one stupid act by an individual to ruin this privilege for everyone.

Most, if not all, of the problems involve the use of the South side of the field which is fenced off from the main area. This area includes a 7,500 ft long runway and taxiway. The area is used by the Air Force Avionics Lab as an electro-optical test range. When testing is in progress we do not have access to the area. When we do have access we must remain at least 500 ft away from any of the instrumentation trailers or equipment in the area.

The East end of the runway in the test range is used by the WPAFB radio control model flying club (RAMS). This AMA chartered club has permission to fly after duty hours and on weekends when the test range is not being used. These are the same guidelines that the WPAFB free-flight club (FFAMS) also follows, with the exception that it can also use other areas along Loop Road, the soccer fields, etc. If the FFAMS loses its privileges in the test range area, it can still fly from another location. If the RAMS lose their privileges they are out of luck as they have no where else to fly from. This makes the RAMS VERY sensitive to any situation which may cause a problem and loss of flying privileges.

This year the gate used to access the test range area has changed. The new gate is about 500 ft further East from the gate we used in the past. The new gate is one of several movable fence sections that are chained and locked together. Each gate or section has a sign attached indicating who is to use it. There are gates and locks for Free-Flight, RAMS, the Air Force Museum and the grounds keeping crews. Each gate has two locks. The second lock is controlled by the Avionics Lab. If our lock is by-passed by the Avionics Lab lock, testing is in progress and access is denied.

The map shows the location of the gates and the route you must take to reach the flying area. Drive straight ahead to the end of the taxiway and turn right. This will place you at the East end of the East-West runway. Drive West on the runway but be sure to check for R/C models when crossing the South end of their flying area. When you are leaving the area, or retrieving a model, follow the same directions. You won't be able to use the "old" gate, and you can not pass through the R/C flying area except the far South end. Obviously, if there is no R/C flying or activity, it is not a problem if you go through this area..

Now, the most important rule! Close the gate behind you when you come and go. You don't have to lock the gate. Each Contest Director should retain the lock during the contest, returning it each day. At the end of flying the Contest Director is responsible for replacing the lock and locking the gate.

Contest Directors should review these rules during a contestant's meeting prior to flying each day.

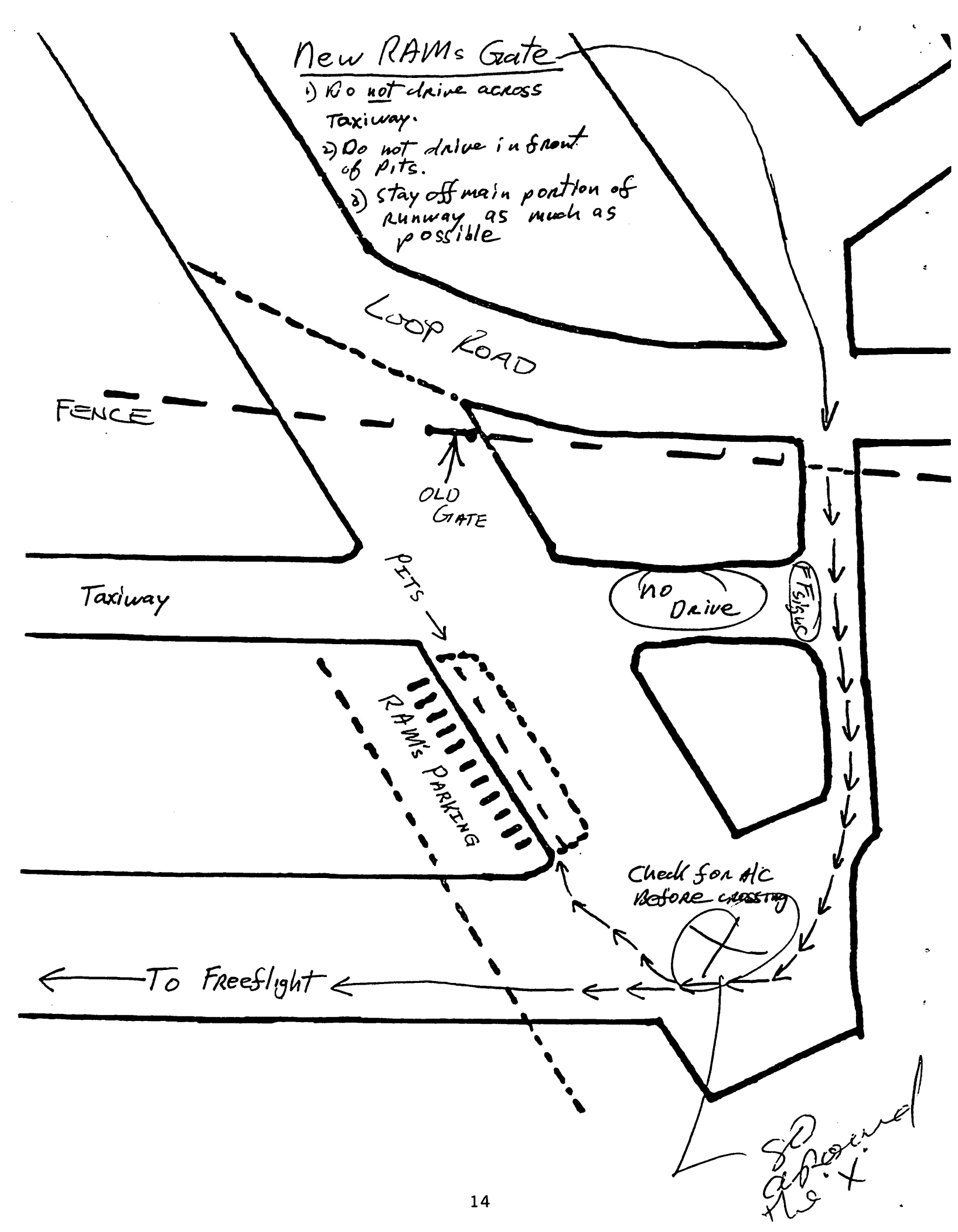
It has been suggested that one or more individuals be appointed to serve as runway/gate monitors during the contest. This is a good idea and I would encourage each club to consider it. However, it would not be necessary if everyone followed the rules. Why close the gate? Model aircraft are an attractive nuisance, especially R/C models. Non-modelers have been known to wander into the flying area when they see the models and the gate is open. This can be dangerous. When other activities are going on in the area, such as youth soccer, softball, etc., this can be a real problem. If the gate is kept closed the problem is lessened. It would be nice if we could encourage spectators but unfortunately we can not. We must keep a low profile so as to not cause potential problems.

The bottom line is essentially this. Do not hold contests in the test range unless the wind direction and speed makes it mandatory. When accessing the area to retrieve a model, always close the gate after entering and when leaving. Stay away from the equipment and vehicles in the area.

The other "rules" are essentially unchanged from previous years. Park in the softball complex lot or on the grass along Loop Road. Wear your seat belts while driving on base and obey all traffic laws. Tickets which cost money will be issued. You can retrieve with motorcycles or bikes on the grass areas, but at your own risk. Watch out for large ground hogs and ground hog burrows. Wear an orange reflective vest and a safety helmet when riding motorcycles or bicycles. A kid's plastic toy helmet is not a "safety helmet". You cannot drive your car onto grass areas to chase, only to park. Do not climb fences or get on building roofs without first seeking the advice of one of the local FFAMS club members. Clean up your debris when you leave.

Please don't get into confrontations with the RAMS fliers. Just bite your tongue and walk away. I don't care who you are, or even if you are a "Nat's CD", do not argue, just stay out of their area when they are flying! I know this last request is difficult for some people, but above all, USE COMMON SENSE. You don't want to be the one person responsible for the loss of WPAFB as a contest site. Do you? Thanks and thermals!




New RAMs Gate
1) Do not drive across Taxiway.
2) Do not drive in front of pits.
3) Stay off main portion of runway as much as possible
LOOP ROAD
FENCE
OLD GATE
Taxiway
PITS
RAMs PARKING
no Drive
Check for A/C Before crossing
To Freeflight

34th Annual *Free Flight* Flying Meet

ILLINOIS MODEL AERO CLUB — IMAC

SUNDAY JUNE 27, 1993 9 AM - 4 PM
BONG FIELD, WISCONSIN
AMA SANCTIONED
AGE GROUPS: JUNIORS...14 YEARS AND YOUNGER
OPEN.....15 YEARS AND OVER

REGISTRATION UNTIL 1 PM
CATEGORY 2 SITE
CLASS AA

ENTRY FEES: JUNIORS...14 $1.00 FOR EACH EVENT
OPEN.....$4.00 FOR THE FIRST EVENT
$2.00 FOR EACH ADDITIONAL EVENT, $10 MAXIMUM

OPEN FLYERS WHO ARE CURRENT MEMBERS OF THE NFFS WILL RECEIVE A $1.00 REBATE. YOU MUST SHOW A CURRENT NFFS CARD.

EVENTS	FLY ONE - TIME ONE
1/2 A FREE FLIGHT GAS	HAND LAUNCHED & CATAPULT GLIDER
A FREE FLIGHT GAS	A1 & A/2 TOWLINE GLIDER
B-C-D FREE FLIGHT GAS	P-30 RUBBER
KIT-PLAN SCALE	COUPE d HIVER
	MULVIHILL

PRIZES FOR 1st, 2nd, and 3rd PLACE IN EACH EVENT.

ABOUT THE SITE--THE CONTEST WILL BE HELD SOMEWHERE ON BONG FIELD,DEPENDING ON THE WIND DIRECTION AND VELOCITY. BONG FIELD IS SEVEN SQUARE MILES OF RECREATIONAL AREA ADMINISTERED BY THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (DNR), AND IS LOCATED DUE WEST OF KENOSHA, 10 MILES WEST OF I-94 WHERE ROUTE 142 INTERSECTS ROUTE 75. ALL CONTESTANTS AND VISITORS MUST OBSERVE THE FOLLOWING RULES OF THE DNR.

1. ENTER THE FIELD AT THE ENTERANCE ON ROUTE 142.
2. EACH VEHICLE ENTERING BONG MUST PAY A FEE OR HAVE A DNR STICKER.
3. A MAXIMUM SPEED OF 25 MPH WILL BE ENFORCED BY THE DNR. PLEASE DRIVE CAREFULLY!
4. AUTOMOBILE TRAVEL IS LIMITED TO THE ROADWAYS. DO NOT DRIVE ON DIRT ROADS OR OVER THE FIELD, GET OUT AND WALK.
5. USE ONLY LEGAL AND UNBARRICADED ENTERANCES.

CD: CHARLIE SOTICH, 3851 W. 62nd PLACE, CHICAGO, IL 60629-4622
(312) 735-1353

33rd ANNUAL INVITATIONAL FAI CONTEST

Bong Eagles

CONTEST FACTS

Hosts: THE ILLINOIS MODEL AERO CLUB (IMAC) THE BONG EAGLES

Date: Saturday, June 26, & Sunday, June 27, 1993

Events: Nordic A-2 Glider, Wakefield Rubber and FAI Power

Time: The following schedule will be in effect:

		F1C-Power	F1B-Wakefield	F1A-Nordic A/2
SATURDAY	1	9:00-9:45	9:20-10:05	9:45-10:30
	2	10:30-11:15	10:50-11:35	11:15-12:00
	3	12:00-12:45	12:20-1:05	12:45-1:30
	4	1:30-2:45	1:50-2:35	2:15-3:00
	5	3:00-3:45	3:20-4:05	3:45-4:30
	6	4:30-5:15	4:50-5:35	5:15-6:00

NOTE: Round 7 below will have a four minute max.

SUNDAY	7	7:30-7:45	7:50-8:05	8:15-8:30

Rules: Current FAI Sporting Code.

Fuel: Fuel for FAI Power event will be provided by CD.

Prizes: Distinctive trophies will be awarded to the first three places in each event, plus a bottle of champagne to the first place winners.

Site: BONG FIELD, WISCONSIN.

CONTEST DIRECTOR
MITCH POST
6801 N. Waukesha
Chicago, Il. 60646
(312) 763-6577

44TH ANNUAL INTER-CITIES F.A.I. COMPETITION

FOR CLASSES F1A,F1B,F1C,F1G,F1H & F1J
PLUS 2 PERSON TEAMS IN F1A,F1B & F1C

JULY 10TH & 11TH,1993

SITE:AMA FIELD MUNCIE,IN.

SPONSORED BY THE DETROIT BALSA BUGS INC.

AN AMERICA'S CUP AND 1995 TEAM SELECTION SELECTED CONTEST

AWARDS:GLASSWARE 1ST THRU 3RD ALL EVENTS
:TEAM AWARDS FOR F1A,F1B,F1C
:PERPETUAL TROPHIES

THE ENTRY FEE IS $10.00 PER EVENT. NO CHARGE FOR TEAM EVENTS.
JR'S. $2.00 PER EVENT.

SCHEDULE:F1A,F1B,F1C
SATURDAY JULY 10TH

1ST ROUND	2:00-3:00	180 SEC
2ND ROUND	3:30-4:30	180 SEC
3RD ROUND	5:00-6:00	180 SEC

SUNDAY JULY 11TH

4TH ROUND	8:00-8:30	F1A-210 SEC,F1B-240 SEC,F1C-270 SEC
5TH ROUND	9:00-10:00	180 SEC
6TH ROUND	10:30-11:30	180 SEC
7TH ROUND	12:00-1:00	180 SEC

NOTE:EXTENDED MAX'S FOR 4TH ROUND WEATHER PERMITTING

SCHEDULE:F1G,F1H,F1J
SUNDAY JULY 11TH

1ST ROUND	9:00-10:00	120 SEC
2ND ROUND	10:00-11:00	120 SEC
3RD ROUND	11:00-12:00	120 SEC
4TH ROUND	12:00-1:00	120 SEC
5TH ROUND	1:00-2:00	120 SEC

ALL FLYOFFS WILL START AS SOON AS POSSIBLE AFTER THE LAST ROUND.

1993 F.A.I. SPORTING CODE RULES APPLY.

F1C SPORTSMEN PLEASE PROVIDE YOUR OWN FUEL.

CONTEST DIRECTOR:PAUL CROWLEY
32604 TECLA
WARREN,MI 48093
313-294-1236

CENTRAL INDIANA AEROMODELLERS

14TH ANNUAL

AMA
Sanctioned
SAM
NFFS

Wright Field
Dayton, OH

OLD TIMER

Two BIG Days! AND July 24th & 25th, 1993

NOSTALGIA GAS

Regional Free Flight Champs

Saturday, July, 24th (9 - 4 EDST)

- 1/4A Nos Gas
- B/C Nos Gas
- A/B Fuselage O.T. Gas
- Early 1/2A Nos Gas
- Nos Gas Ignition
- Small O.T. Rubber Stick (150"in. max.)
- O.T. HLG

Saturday Eve (4 - 6pm EDST)

- 1/2A FF Antique Gas
- Slag Engine

Sunday, July, 25th (9 - 4 EDST)

- 1/2A Nos Gas / 1/2A O.T. Gas
- .020 Replica Gas (Old Timer)
- A/B Pylon O.T. Gas
- C Pylon/Fuselage O.T. Gas
- A Nos Gas
- O.T. Rubber Fuselage Comb.-ROG
- Large O.T. Rubber Stick (150-300"in.)

Rules: (2 minute maxes)

Old Timer - SAM rules except approved ignition engines to be used only. No converts, glow, or diesels.

Nost. Gas - NFFS rules with 9 second engine runs. Flyoffs are 7, 7, 5, 5, 5, etc.

Trophies thru 3rd place in all events. Entry Fees are $10 for first event, $2 for each additional event - $20 max! Jr/Sr Free!

WPAFB Rules: Enter via Gate 19B atop hill on east side of complex off National Road. Seat belts to be on to enter and remain fastened as you drive on the base. Stay away from mid-field installations and vehicles. Chase bikes permitted, but helmets and reflective vests are enforced by the Air Force. Fines are possible.

CD: Meredith Chamberlain, 5810 Madison Ave., Anderson, IN 46013
(317) 642-6794

NOFFA SUMMER FREE FLIGHT CONTEST



AUGUST 7-8, 1993
WPAFB DAYTON, OHIO
TIME: 9:00 AM - 4:00 PM

EVENTS

SATURDAY	SUNDAY
A-B GAS	1/2 A GAS
PEEWEE 30 (ORBITEER'S RULES)	C-D GAS
HAND-HELD CATAPULT GLIDER*	.020 OT-NOSTALGIA COMBINED
ABC OT IGNITION	HLG*
1/2 A NOSTALGIA	P-30/COUPE/ELECTRIC/A1 COMB.
OT RUBBER	ABC NOSTALGIA
JUNIOR EVENTS	**JUNIOR EVENTS**
HAND-HELD CATAPULT GLIDER*	1/2 A GAS
HLG*	P-30

*NEW NOFFA RULES- 1 minute max, 6 flights, 5 highest times count

!!!HIGH POINT TROPHY TO BE AWARDED ON SUNDAY!!!
THE MORE YOU FLY, THE BETTER YOUR CHANCES

*****Additional .020 & Nostalgia Payload Contest Saturday Evening*****

Contest Directors

Warren Weisenbach
4568 W. 146th St.
Cleveland, OH 44135
(216) 671-8623

Charlie Jones
32130 Cambridge Circle
Avon Lake, OH 44012
(216) 933-7377

Fees: $10.00 Flat Fee Covers All Events
Juniors free if AMA member; if non-member, $.25 for 2-day membership

Dick Korda
Commemorative
Korda 1939 Wakefield Winner Contest
SAM R/C Old Timer Contest

August 18 & 19, 1993
Shelby, Ohio

Separate Korda Contest Each Day. Fly the events you enjoy to fly. Take time out to speak to Dick Korda. Brown Jr. event will be flown after bean feed Wed. evening. AMA Sanctioned. Narrow Band Radios Required. SAM Rules. Entry fee will be returned as prize money. AMA License required. Contest Manager: Robert J. (Bucky) Walter 5807 Cambridge Circle, Sandusky, Ohio 44870 (419) 625-9078

Wed. 18th

KORDA WAKEFIELD
Pure Texaco
Texaco
A Ignition (no diesels)
B Ignition
1/2 A Texaco Scale
A-B-C Glo + A Diesel combined
Brown Jr.
Electric LER

Thurs. 19th

KORDA WAKEFIELD
1/2 A Texaco
C Ignition
Pure Antique
Antique Cabin Ohl to Sideport
O+R 23 NEW RULES
Old Time Glider
Electric Texaco

For Additional Information:

Contest Manager
Robert J. (Bucky) Walter
5807 Cambridge Circle
Sandusky, OH 44870
(419) 625 9078

Contest Director
Warren Weisenbach
4568 West 146th St.
Cleveland, OH 44135
(216) 671 8623

A N N O U N C I N G " C O F F C " F A L L M E E T

Held At : A M A Field Muncie, Ind.

Date : Aug 21-22, 1993 **Time :** 9:00 AM to 4:00 PM (EST)

Events Flown Aug 21'st :

	OHL Glider	(JS/O)
ABC	OT Pylon/Cabin	(JSO)
	Mulvihill Rubber	(JSO)
	Elect/P-30/Coupe	(JSO)
ABC	Nostalgia	(JSO)
	Pee Wee 30	(JSO)
1/2A	AMA Gas	(JS/O)

Events Flown Aug 22'nd :

	HHC Glider	(JS/O)
1/2A	Nostalgia	(JSO)
A/B	AMA GAS	(JSO)
020	Old Time Replica	(JSO)
C/D	AMA Gas	(JSO)
	OT Stk/Cab Rubber	(JSO)
A1/A2	Towline Glider	(JS/O)

B E A U T I F U L
T R O P H I E S
First thru Third place awarded each day. JS class will have special awards.

Entry fee for **OPEN** contestants will be $10.00 for the first event, and $2.00 for each additional event. All Juniors and Seniors fly **FREE**. Age classes are combined except for the events labeled (JS/O).

Motorcycles/Bicycles can be used to retrieve models (helmets and reflective vests will be at your choosing). AMA license is required to enter field.

********** C O N T E S T R U L E S **********

AMA safety regulations will be **STRICTLY ENFORCED**.

AMA events endorse Category III rules.

Hand Held Catapult Glider will endorse CIA Hand Held Catapult rules.

020 Old Time Replica will be 10 second engine run, hand launch, and 2 minute maximum flight time.

Nostalgia gas events will endorse "NFFS" rules with 9 second engine run, hand launch, and 2 minute maximum flight time.

Pee Wee 30 event will endorse West Coast Orbiteers rules with a 2 minute maximum flight time.

Old timer events will endorse " S A M " rules except engine runs to be 100 %, 75 %, 60 % for original production ignition, conversion, and glow respectively. Weather permitting engine runs will be 16, 12, 9 seconds respectively.

Contest Directors : Larry Willis

For More Information Contact :
Larry Willis
10303 Peatmoss Rd.
Utica, Ohio 43080
(614) 745-5314

Our initial contest at Muncie - Let's make it a BIGGEE!

Two BIG Days! 19 BIG Events!

Central Indiana Aeromodellers

22nd Annual Regional

CIA

This Meet Carries a AAA AMA Sanction

FREE FLIGHT MEET

... to be staged at the AMA site at Muncie, IN - September 18/19, 1993

Events: ?

Saturday, 9/18 9-4 EST

- AB AMA Gas
- Mulvihill Rubber
- A1/A2 (F1H/F1A) Towline
- ½A/ABC Nostalgia Gas
- Pee Wee 30 Gas
- Hand Held Catapult (J,SO)

Saturday Evening - Approx. 4-6

- Early ½A Nos Gas
- AMA .020 Payload Gas
- Moffett Rubber

Sunday, 9/19 9-4 EST

- 1/2A AMA Gas
- CD AMA Gas
- Hand Launch Glider (J,SO)
- ABC Old Timer Gas
- ¼A Nos Gas/.020 Replica
- P-30/Electric 'A'
- Coupe d'Hiver (F1G)
- Jr. Rubber (Anything Goes)

Y'all Come! See ya there!

Entry Fees:

$10 for first event. $2 for each additional event - $20 max. A $1 fee covers all/any Jr. events.

Awards:

Beautiful trophies and merchandise to third place in all events. Separate Jr. events in HLG, HHCat, and the special Jr. Rubber event. Junior is 14 years of age or under.

Rules:

AMA events per AMA Rule Book.

Old Timer per SAM Rule Book except only approved original or repro engines are permitted. No diesels or glow conversions.

Pee Wee 30 Gas per Orbiteer Rules.

Rules for Early 1/2A Nos Gas and Moffett Rubber were published in the 1-93 INFORMer issue.

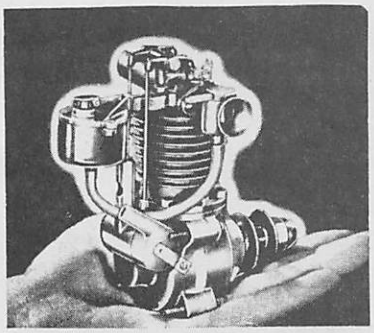
Chase bikes OK, but go slow!

CD's: Harry Murphy
3824 Oakwood Blvd.
Anderson, IN 46011
(317) 642-7377

Moe Whittemore
2348 S, 700 W
New Palestine, IN 46163
(317) 861-4266

1993 AREA CONTEST CALENDAR

Jun	3-6	Johnson City, TN	NFFS USIC/AMA Indoor NATS
	5/6	WPAFB, OH	COFFC Spring FF Meet
	12/13	Sturgis, MI	MAM OT FF Meet
	19/20	WPAFB, OH	FFMAS FF Meet
	26/27	Bong, WI	FAI International FF Meet
Jul	10/11	Muncie, IN	Intra-City FAI Meet
	17-26	Lawrenceville, IL	AMA RC & UC Nats
	24/25	WPAFB, OH	CIA OT & NosGas Meet
Aug	1	Bong WI	Bong Eagles FF Meet
	7/8	WPAFB OH	NOFFA FF Meet
	15	Bong WI	Midwestern States FF Meet
	18/19	Shelby OH	Dick Korda Commemorative
	21/22	Muncie IN	COFFC Fall FF Meet
	21/22	Cuckoo VA	Cuckoo Challenge
	22	Bong WI	Aeronuts Fall & OT Meet
Sep	1-5	Muncie, IN	NFFS USOC/AMA FF Nats/FAC
			NFFS NosGas Champs/SAM 57
	12	Sturgis, MI	Mich State FF Meet
	18/19	Muncie, IN	CIA Annual Regional FF Meet
Oct	2/3	Lawrenceville, IL	TCAC Club Meet
	11-15	Taft, CA	'93 SAM Champs
	16/17	WPAFB OH	Fall Practice Sessions
Nov	7	Columbus OH	MECA Collecto



FEENEY 4 CYCLE

You can't 'lose' with these new balls

INDIANAPOLIS (AP) — William Barnhill put his inventive talents to work because he was tired of losing golf balls.

Barnhill, who works in an electrical supply warehouse by day, has spent his spare time for the past five years inventing, reworking and perfecting what he says is the first audio golf ball.

"The first time I (played golf) I lost all 12 balls that I'd paid $20 for," he said. "That gave me the idea of developing a ball that's easily located."

Now, after investing $100,000 in development, the 29-year-old inventor and his partners in Protech Enterprises Inc. hope to mass-produce their Trakflite Sonic Golf Ball.

The Trakflite ball has a modified core that holds a small battery, an electric circuit and a beeper. When struck by a golf club, the ball emits a high-frequency sound that can be heard up to 100 yards away. The sound can be silenced after the ball is found, Barnhill said.

At a retail price of about $20, Barnhill said he expects the Trakflite initially will be a novelty item.

He still needs $500,000 for full production of the balls.



23 PM INDIANAPOLIS IN 462 JUN 28 19

The INFORMER

2348S, 700W
New Palestine, IN
46163

1993 President
Steve Frazier

Vice President
Phil Sullivan

Sec'y/Treasurer
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Issue No. 3-4 - 93