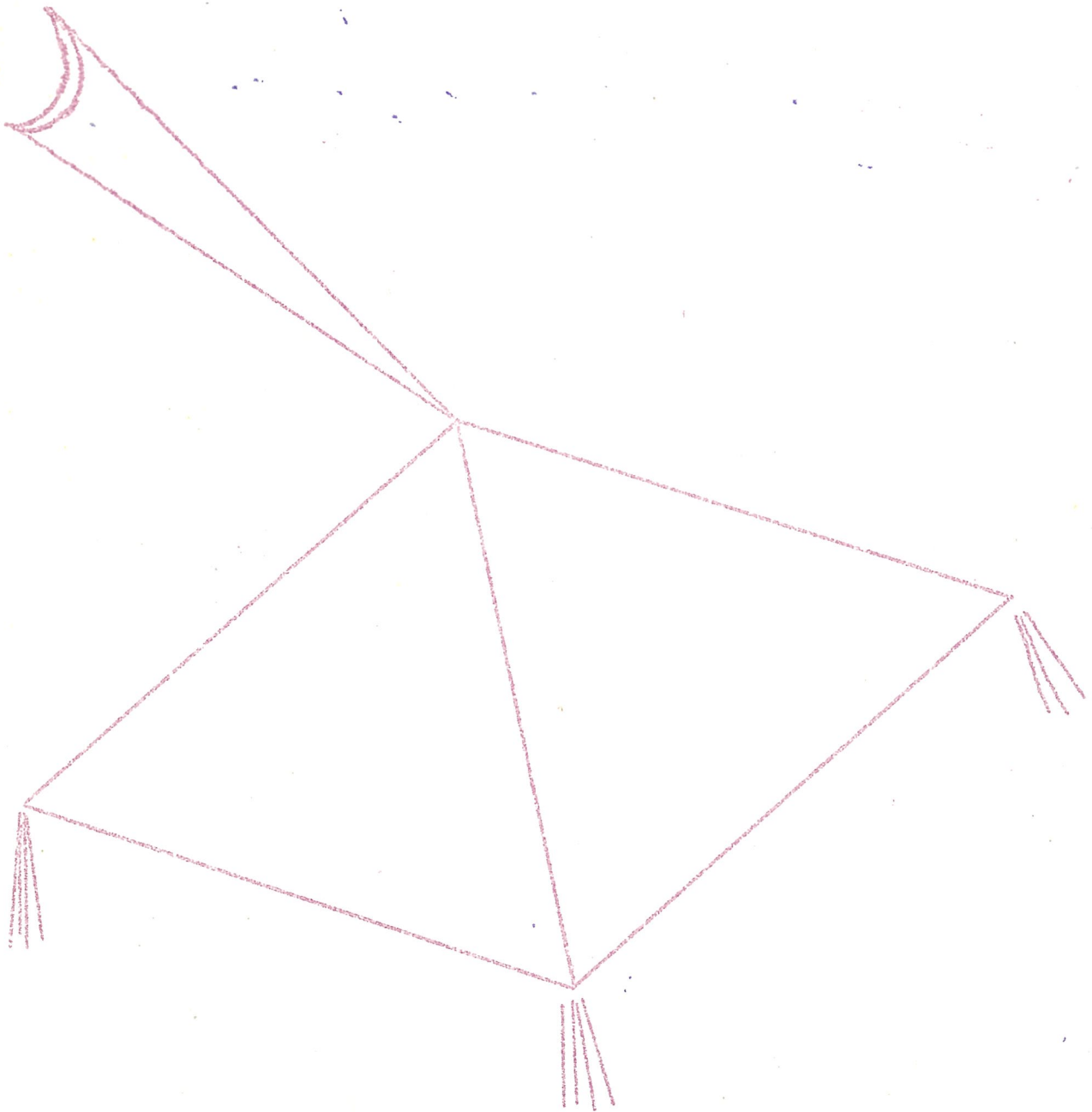


ZOO 43



Summer 78

ZOG 43

Zog 43, Summer 1978 *
Volume 14, Number 1

All editorial opinions expressed in the Zog 43 are those of the author and do not necessarily represent the opinions of NARHAMS, the NAR, or the staff of this newsletter.

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Zog 43

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Zog 43 is the official publication of NARHAMS. It is available free of charge to any one willing to trade their newsletter. It is also made available to all NARHAMS members for a cost of zilch. Any one else wishing to receive it, must nearly send us one dollar in order to get the next six issues.

* Back to school and all that rot!

Ye Olde Editors' Nook

Where has the Zog 43 been lately? Well for one thing our ditto machine was in the shop for over a month getting (hopefully) repaired. The other reasons we haven't been coming out that much lately is due to you, dear reader! Do you think we get paid to put this thing out? We need you to go out and cover a meet. If you've got a winning plan,

Editors' Nook Continued
we will print it. Do you have a lot of experience in finishing techniques? Why not share it with others who don't?

What's Going On

October 6: Business Meeting,
P.G. Community Center

October 13, 14, 15: MARS-XIII.

Aberdeen, Md. Events:

Scale

Quadrathon

Swift R/G

Sparrow B/G

Hawk B/G

Design Efficiency

Pigeon Eggloft

Class 3 Streamer Duration

October 20: Workshop

November 3: Business Meeting

November 17: Workshop

April: ECRM-XIII, Events:

Scale

Robin Eggloft

Hornet B/G

Sparrow R/G

Sparrow B/G

Hawk R/G

Class 1 Altitude

Class 0 Parachute Duration

Class 3 Streamer Duration

Class 0 Streamer

ELECTIONS

ELECTIONS

ELECTIONS

ZOG-- Peter Helt (AGAIN?!)
VICE-ZOG-- Jim Wilkerson
Secretary-- Jason Meyer
Treasurer-- Johns (with an "s")
Lee
Senior Advisor-- Ole ED Pearson

STAR TREK

The new Star Trek movie, aptly titled Star Trek--The Movie, started filming in August.

The crew of the Enterprise will be sporting new uniforms. You will also be able to see parts of the ship never shown on TV. One last change is that there will be an addition to the crew. All the main characters will be back.

Now for the plot. The Enterprise has been dry docked for the last couple of years. It is called out again to investigate some super powerful thing that has already destroyed three Klingon ships and is heading straight for Earth. Gee whiz!

It's to be released next summer. More news as it comes.

Model Rocketry is...

...not being able to find the masking tape.

Site for NARAM Found

In keeping with the trend of holding NARAM as far away as possible, the NARAM Site Selection Committee has just announced that NARAM-XXI will be held in Hawai. The hosts will be Honorocs and Star Lords, with Dennis Bishop serving as Contest Director.

Star Lords was included as a host in order to make this year's NARAM "more international". This was done because of the Bulgarian rip-off of this years Internats. An NAR spokesman said "We're not going to to let those Commies get away with murder. They may have won the first battle by stealing the Internats from us, but in my eyes the Bulgarian meet is just in preparation for the real meet to be held in Hawai. Star Lords is the only international model rocketry organization around. Therefore it makes sense that they ought to have the choice as to where the Internats will be held."

With Star Lords being co-host, not only will this be the first international NARAM, it will see some changes in the rules as the Star Lords' Gold Book rules will be combined with those of the Pink Book.

Continued on page 6

WART WAS SHORT

On Saturday, July 15 the town of Manassas witnessed the most exciting rocket meet of the year. In actuality, it was just a prang from Bristow and probably one of the most laid back and easy going meets held in a while.

Even without the female onlookers of last year, it was still worth your while to attend. You see, there was one person who attended that you seldom see at east coast meets. G. Harry Stine had flown in from Pheonix on some business he had in Washington. Although not nice to look at as last year's spectators, he did bring a little life to the meet since this was the first glimpse that many had of the legendary (?) "Old Rocketeer".

As for record attempts-- there weren't that many. In fact, the majority of the flights made were demos. But the records that were set, or at least most, really smashed the old ones. Notably was Mike Pine's Sparrow (?) R/G attempt with a Nymph that stayed up about six minutes.

Not too much else happened. Probably 'cause only one NARHAM showed up.

(monotonous)

B&P B&P B&P B&P B&P B&P bits 'n' pieces B&P B&P B&P B&P B&P B&P

Elections are coming quick so you had better decide if you're gonna run or not in a hurry.

Jon Langford supposedly spent the summer in Wash. He has yet to be heard from. John Rains is also supposedly right in one the centers of NARHAMS activity--Rockville, as a more or less permanent resident. We refuse to put your names back where they belong, if you noticed the switch, until you guys come and do something about it!

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Zog 43 has just had its ditto machine repaired. Hopefully you can see the difference by being able to read this!

+++++

Next column, please!

Bits and Pieces!

FROM THE ZOG

Hello! I want to thank everybody for re-electing me to Zog for my second term and I hope you will support the decisions of the officers and myself throughout the year, but I would like to say that I was very disappointed at the club turnout at the election meeting.

I'd like to see many of you recruiting new members in the next year. Many of you have been complaining that too many meetings are held in the Rockville area. But that is your own fault because it is the most active recruiting area because the other areas aren't. If you want more meetings in your area, recruit more members from your area because a club must meet where the members are to remain strong.

I hope to see many of you at MARS. Let's go out there and take the meet!

Peter Helt

Site Selected for NARAM continued

Some of the Gold Book rules may take some getting use to by NAR members. First off, one flight can count in more than one event. An example is that you could fly your boost/glider with a "C" and place in Hawk B/G, Class 3 Altitude, and Open Spot Landing, all in the same flight!

Proxy flying is virtually unheard of because of another rule which is even better. You may fly your model anyplace all over the world and mail in your results. This ought to cut down on travel costs to Hawaii. There is one catch to this rule, though. You may place in an event by the above rules, but to get your trophy you must obey Gold Book Rule 1.0 which states that: "In order for the contestant to receive any awards at an officially sanctioned Star Lords meet he must first kneel before the Star Lord Commander, who shall be Dennis Bishop, and kiss his majesty's feet." More news as it comes.

PYRAMID POWER
AND
BUILDING SCALE FINS
by Paul Croarkin

You've heard of all the talk about Pyramid Power and how it can sharpen razor blades and do other wonderous feats. Or don't you read the National Enquirer?

Have you ever thought of putting this awesome force to some use in your hobby? How 'bout sharpening X-acto blades? All you have to do is line your pyramid up with magnetic North (although true North works better, this is easier) and set the blade inside the pyramid, elevated approximately one third the height and also lined up on a North-South axis. Wait a couple of weeks and your blade will be like new.

Pyramids are also rumored to have preserving powers. Been having problems with catos lately? Store your engines in a pyramid and catos will plague you no more! Truth!

I feel that the aura of the pyramid has great potential in this space-age hobby of ours. Just set one beneath the rack before you launch and your altitude bird will need a cloud of tracking powder big enough to rain in order to get tracked. If you hang a mini-pyramid below the boom of your boost glider, its sure to catch a thermal on even the coldest, windiest days.

Here's where I get around to building scale fins. Am I going to set a slab of balsa under a pyramid for five years and let it cut it into perfect fins? Of course not! It takes too long.

Scale fins are constructed in almost the exact same way as a pyramid model is. To make your very own model of Cheop's pyramid you must obtain a compass, a ruler, a pen, and a piece of cardboard.

Open your compass $5 \frac{7}{8}$ " and scribe out a circle on the cardboard. Draw a line between the center and edge of the circle carefully. Set the compass at 6" and inscribe an arc from the intersection of the circle and its radius so that it intersects the circle. Draw a line from the center to this point and repeat with this line until there are four radii. Make triangles out of this by connect the arced out points. (See Figure A) Cut this out, fold on the lines, and tape up the side and you will have a neat little pyramid if you were careful. This model can be scaled up or down as long as you keep the dimensions in proportion.

Pyramid Power and Building Scale Fins Continued

Scale fins are constructed as above but with a couple of modifications. First off you're going to have to choose a scale factor if you haven't done so already. This is done by dividing the diameter of the body tube you want to use on the model by the diameter of the prototype. Multiply the scale factor times the dimensions of the real fins to get the dimensions of the model's fins.

Scale fins are normally constructed from two pieces of paper that have been creased so that when they are put together they will form the proper cross-section of the fin. (See Figure B) So far you have the dimensions for the finished fin, but not for these two pieces that go together form the finished fin.

To find the size of one of these pieces you must first draw out the exact cross-sections of the root and tip of the fin. From this drawing you can determine the width of the piece by measuring around the perimeter and dividing by two. You may also find the span of the fin by this method if you draw out that section of the fin, although this isn't as critical. (See Fig. C)

From the measurements above, you can now draw the piece out precisely. By the way, this method from here on can only be used on symmetrical fins where the root is bigger than the tip. Extend the sides of the fin until they meet to form a triangle.

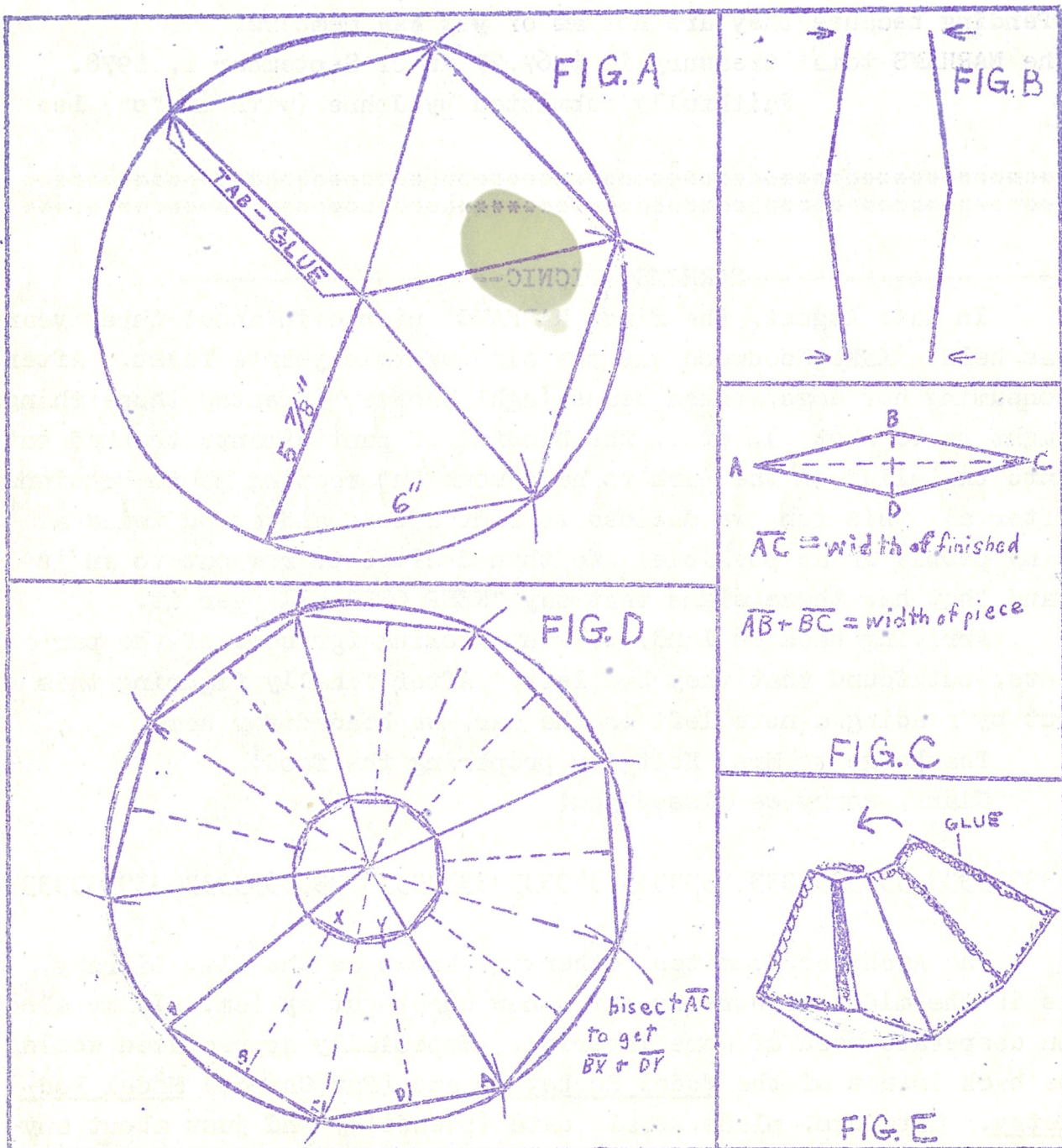
Get out a big piece of whatever you're going to make the fins out of. Most people use the kind of paper that is used in computer cards or manilla folders. I've heard of thin sheet plastic also being used. But, I prefer to use 1/32" balsa plywood since it's more durable and more resistant to warps than paper and easier to work with, in my opinion, than plastic.

Get your compass out again. Set it to the length of a side of the triangle you created a paragraph or two back and draw your circle. Now draw a concentric circle inside this using the distance from the corner of the triangle to the point where the tip starts as your radius. From this you can construct either six or eight triangle, depending on whether you need three or four fins, as in the same way as the good ole pyramid. (Fig. D)

Cut on the solid lines and score halfway through on the dashes as in Figure D. Fold on the dashed lines and glue the

seams together. Diamond shaped supports ought to go on the tips. They can be cut from 1/8" balsa along with a support that runs the span of the fin. Fin thickness should be checked very carefully before gluing. Make them just a tad on the thin side to make up for fillercoat and paint. Finish as usual.

Take your time on the fins and may your pyramid help you win once in a while!



Peter Helt

Jason Meyer

Jim Wilkerson

Johns Lee

Joel Cuaneten*

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21, 1978.

NARHAMS' PICNIC

In late August, the first NARHAMS' picnic in about three years was held. Lake Needwood was the site of this year's feast. After consuming hot dogs, baked beans (ugh! Whoever invented those things ought to be shot!), etc., the handful of participants trekked out into the wilds of the park to have some interesting photo sessions. After all this fun, we decided to rent a boat and crowd twice as many people in as possible. We then decided to row out to an island that has these signs that say "KEEP OFF" all over it.

Arriving back on land, we went looking for some of the parents, but found that they had left. After finally figuring this out by reading a note left on the car, we headed for home.

Thanks go to Mrs. Helt for preparing the food!

Clark, sorry we missed you!

[illegible]

The Archives Committee, otherwise known as the Club Library, is in the midst of working out a new check-out system. It is also in desperate need of more material. Especially appreciated would be back issues of the Model Rocketeer and (Fat Chance) Model Rocketry. Catalogs, plans, scale data (please!), and just about anything else can be used. If you're willing to donate anything or want to borrow something, call Paul Croarkin at 424-8609. Or write to him at 2 Infield Ct. N., Rockville, Md. 20854.

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FIND THE FOLLOWING 43 ROCKETRY TERMS

ASP	FORTY-THREE	PISTON
AUNT JENNY'S	FUN	PRANG
BALSA	GOONEY BIRDS	PYROMANIAC
BUMBLEBEE	IGNITORS	RESEARCH
CORN FIELD	INSANITY	SANDPAPER
COW PASTURE	KRUSHNIC	SATURN V
BURNOUT	LAUNCH	SCIENCE
DEMOS	MASKING TAPE	STAR TREK
DQ	MAXI ALPHA	TRACKING POWDER
ECRM	MESS	TREES
EPOXY	MODEL ROCKETEER	TROPHIES
EXPENSIVE	NARAM	TUCKAWAY
PINS	NARHAMS	URCHIN
FILLER COAT	PINK BOOK	NIKE

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King of the Gypsies

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