

NOVAAR

FREE PRESS



1982

NORTHERN VIRGINIA ASSOCIATION OF ROCKETRY MARCH - APRIL



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PHOTOS AND ARTICLES THAT
WOULD NEVER HAVE BEEN
PUBLISHED, AND MUCH MORE
THAT YOU JUST "CAN NOT
BELIEVE!" -



**** SPECIAL DOUBLE ISSUE**

NOVAAR FREE PRESS

NORTHERN VIRGINIA ASSOCIATION OF ROCKETRY

February 1

April 6

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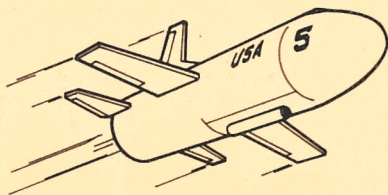
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The NOVAAR Free Press is published once every six weeks, eight issues per year. All contributions involving the field of model rocketry are welcomed. Deadlines and publication dates for the following issue is as follows:

Next deadline: April 27

Next Publication: May 18

Please direct all questions to the editor and publisher at 703-893-7458. See last page for more information on subscription and contributions.

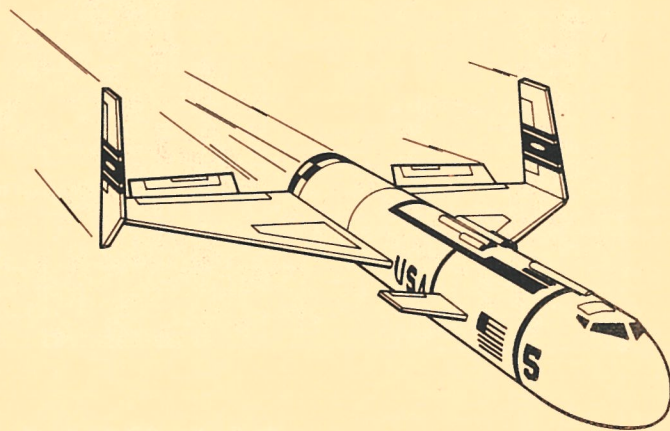
On the Cover

For this month's cover, there is only one phrase that we could use as an excuse for its content. This phrase would also describe the cover itself very well-- "The cover that should, could and would never have been published!" We decided that it was about time we catch some members at their worse moments. On the top left is a photo of our senior advisor taken by an unknown photographer a long time ago. This photo surfaced as we were looking through Don's photo file. This clearly shows a period of time when there was uh-- a lack of members. [Note the old NOVAAR rack launch system.]

The lower left picture shows our treasurer, Richard Pfundstein, after a lengthy conversation where he denies an attempt to taking the money and run. Clearly, he lost the battle, for if our cameraman hadn't been so intent on showing the ignorance of the secretary, Tam Pho, and president, Quang Pho, he would have captured the meanest expressions of the century on a crowd.

"Who me?" Exclaims Merry Beth Hyland's expression in the only photo we ever got of her. Since this photo was taken in early February, we've been trying to get a better picture of her for the February cover-- in order to honor an old tradition. The results "Is obvious, we failed!" but our tradition gets carried on. [Sorry Merry Beth, just remember to smile from now on at every rocket activity, especially around February next year.]

The photo credit for the meeting room scene goes to Aaron Harmon.



~~THE NIGHT LAUNCH~~

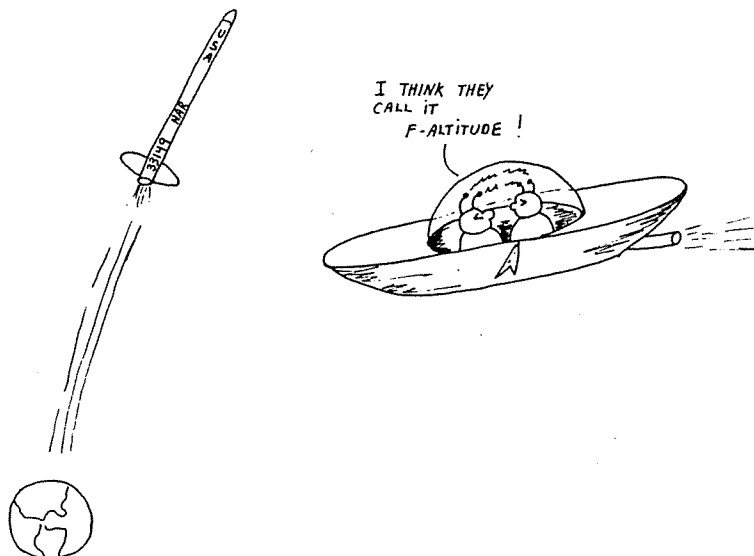
UFO

by The Phantom Launcher

The exact date escapes memory, but it was a nice clear spring night when this took place. A friend and I wanted to make a launch that would not be easily forgotten. So we decided to build a big, fat rocket (of the third kind!) with all kinds of power in it. Then, we figured that it would be more impressive as a night shot. So we added two electric buzzers to it along with four *Cya-lume* green glow light sticks. We achieved our first goal for a big and fat rocket, only to discover that the third factor involved would be weight. The choices were to either use more power than we previously anticipated or to ask the rocket, (later christened the *electric pig*), to go on a diet. Tedious work was done that night to re model the power plants, and when the veil was lifted, we were blessed with a three staged rocket with a catastrophic three D12s-in-each-stage job. The final "waste" that resulted was a scale Nike booster that never made the glorious world of scale space-modeling fame accompanied by its equally (in) famous Nike Tomahawk adapter that never made it either. The intricate "telemetry" payload were two Radio Shack car buzzers wired up to two AA penlight batteries (in their holders), a small switch (externally mounted), the four light sticks, and a 4½ feet diameter mylar parachute made out of a survival blanket. We stepped back and admired our work, standing majestically with flourescent colored Nike fins, and wondered if we had not created another Frankenstein's monster.

That very same night we drove out to a launch site (which for the sake of identity, shall remain a well guarded secret) [in other words, "no bribing with bubble gum for the Phantom Launcher is very fond of it. -ED] We finally succeeded in persuading our conscience to allow us to set the rocket on the pad. Surprisingly, we didn't use flash bulbs for ignition, eventhough I can't recall why not. With the most hideous of roars, the "Flying Object" levitated off the launch site and sped skyward. All the staging occured perfectly (a feat in itself, considering that all three stages had three engines in them.) When we witnessed the green glow of the light sticks under the enormous canopy of mylar parachute, we were assured that all had gone

well...it was 10:28 PM...we watched it drift out of sight, then drove home to the long awaited sleep. Even now, I still wonder if it was a wise thing to do when I wrote my name and address on the "capsule" hoping that someone would inform me as to where the "thing" had touched down. It really almost proved to be a mistake. At 12:45 AM, (I was in my deep slumber from the eventful night before), I received a phone call. The voiced on the otherend hurriedly identified himself as a Fairfax County police officer. [Don't try to locate the Phantom Launcher by this means, Fairfax is one of the nation's largest counties-ED.]

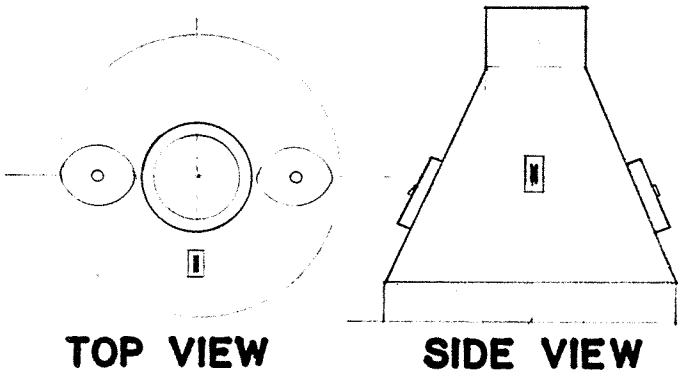


by Aaron Harmon

He informed me that my "Space Capsule" had been recovered. After hitting me with a barage of questions such as where, how, when, and why I had launched the rocket, he told me that I could come down to the station and pick it up the next morning. [Was this a trap?] The next day, I went down to the station and asked for the officer (whose name shall remain anonymous) and stated why I wanted to see him. That was also a mistake. It seems that everyone in the station had heard the story of the UFO that was marooned and its little glow in the dark occupants. They then decided to let me in on the story.

As rumor has it, the model drifted down to a friendly neighborhood Barbecue [Surprise!]. They all were out on the backyard when they witnessed a strange buzzing sound. They all looked up and saw an eerie silver craft with an equally odd green glow beneath it and flying very low. It traveled on down the street and landed on the peak of an obviously tall tree down at the end of the block [It couldn't be and apple tree in someone's backyard could it?-ED]. The called the police and reported a crashed UFO. The very same officer who contacted me responded to the call and was the first on the scene of the crash. He found, and radioed back a buzzing green glow stuck 60 or 70 feet up in a tree. The local fire department was called in to get it down. It was then turned off and taken into protective custody by the officer on the scene. Later that night, my name and address was ran through a computer to produce a phone number. After I was contacted, the pig was placed in the storage room of

THE ELECTRIC PIG



GAMES DEPT.

HJWOIEJURDRAGHVAARPARATH
HJWNSHAVXMZLOQPUEIJSHTYI
RWADDSTREAMERIGNITEERSRT
CECATDOGPHOTWROCKEFHHUJK
ANDMKEUJDJQCATOJOEYJTKDG
MJHBGWTURGVSDNDERHSNREDB
CENMARANESTEDCANARESTESP
STRPARACHUTEIPRANCNARATR
SHREGNOVAARINDRAGIHIGEHA
FLYINFCNIGGNGDDWADDINTHN
HABHICBMATGAACORANACMHSG
LASRETINGIALMOKJWHBHNWRX

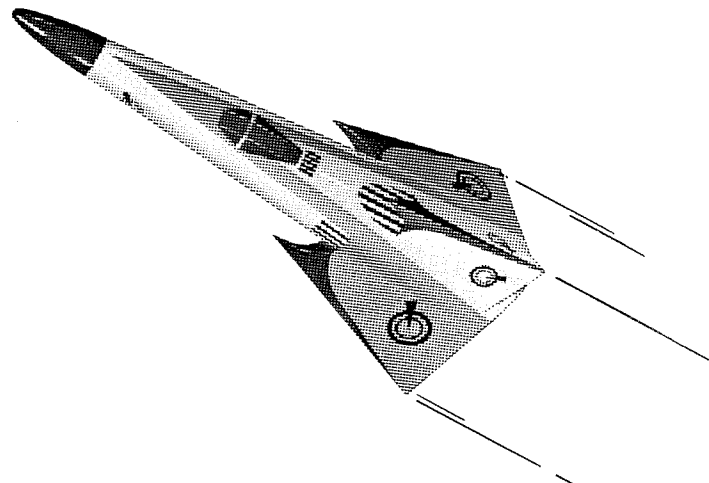
Words:

locate the following words horizontal, vertical, or diagonal; forward or backwards order. (key elsewhere)

Streamer	Cato
Igniters	Shred
Wadding	Prang
Parachute	Drag
Canaroc	NOVAAR
Centuri	NARAM
Estes	NAR

POSTFLIGHT HINDSIGHT

A small correction on the NOVAAR profile on C.D. Tavares last month. We stated that the rocketeers back in the earlier days claims "heavy rockets go higher and better." Instead, it should be "lighter rockets go higher and better." And even that, as we all know, was proven false by people like Chris.



the station. Twenty minutes later, a janitor walked in to the same room and closed the door behind himself, apparently before turning on the lights, since he turned and was very startled by the green glow. He swung at it with his broom and contacted it squarely, but in doing so, he hit the buzzer switch and was answered by a hideous buzz. He came bouncing out of the room so fast that none saw the door open, all they heard was his scream in perfect tune with the momentary sound of the buzzers. I that the police had more fun with our rocket than we did, but nevertheless, it's alright because they didn't charge me with any crime. (Not that I committed any mind you.)

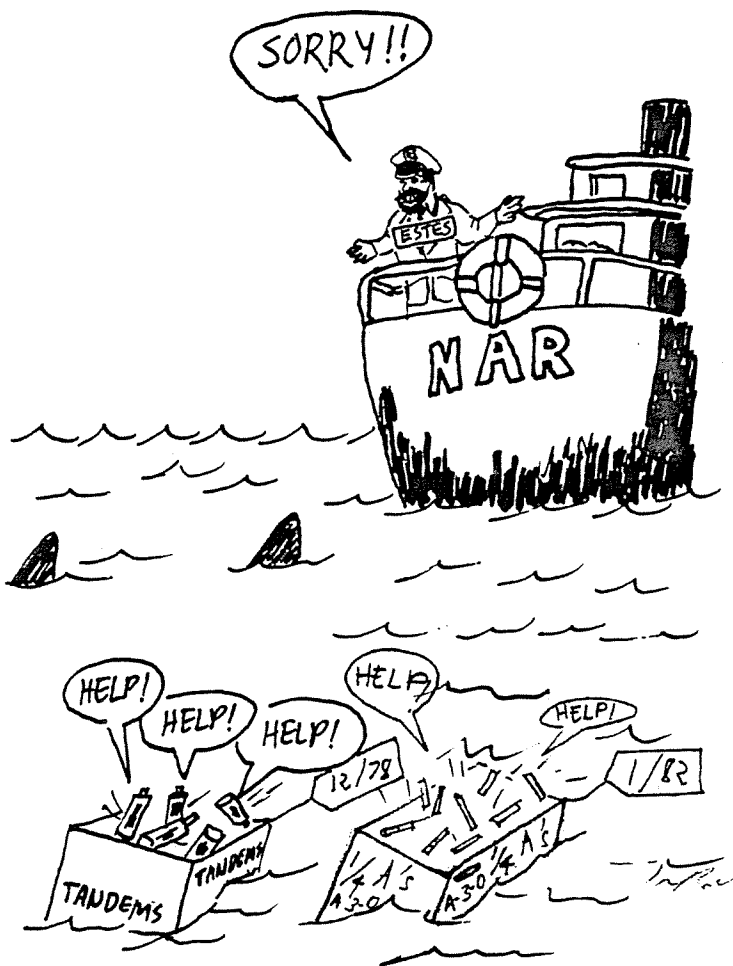
NOVAAR NOTES, cont'd

Demo 'Set For post-Contest Season

As all members know, we have had to postpone one of our demonstrations for Model Masters, so we still owe them one in the near future. As discussed at the April business meeting, the demo will be held during the "slow" period of time between July 1 and NARAM 24. So here's a chance to test fly some of your NARAM models, but please-- "Not Plastics!"

COMMENTARY

by Tam Pho



Answer to Word Find puzzle:

HJWOIEJURDRAGHVAARPARATH
HJWNSHAVXMZLOQPUEIJSHTYI
RWADI STREAMER GNITEERSRT
CECATDOGPHOTWROCKEFHUK
ANDMKEUJDJQCATOJOEYJXKDG
MJHBGWTURGVSONDERHSNREDB
CENMARANESTEDCANABESTESP
STRPARACHUTEHIPRANCNARATR
SHRECNOVAABINDRAGIHIGEHA
FLYINFONIGGNCDDWADDINTHN
HABHICBMATGAACORANAOHSG
LASRETTINGALMOKJWHBHNWRX

MANU-FACTS

Competition Model Rockets

The new phenolic RB 50 we've heard so much about is finally available. CMR is ready to ship these body tubes for a cost of 85¢. We received some for testing and reporting, the results are hereby published:

The new phenolic RB 50 did not arrive as anticipated by the recent reports on it. First of all, the tubes were supposed to be prefinished in red (such as the CMR launch lugs) it arrived brown in color with the overlapping pleats still showing, this does not cause any particular problems for it is very easy to sand down to achieve a glass smooth finish. This is mainly because of the brittle composition of the tube. However, the most pleasant surprise of all is when we weighed the tube, it turned out to be a few fractions of a gram lighter than the regular RB 50. We were overjoyed when we thought about all those altitude and super roc birds because now, one can sacrifice weight without sacrificing strength. Then, as we discovered almost simultaneously that all tubes had a layer missing on the inside, this may take form of a disadvantage when one comes to inserting the nosecone and securing the engine, but even this could be solved with a little masking tape.

On the other hand, this tube is ideal for CMR piston launchers because its endurance is considerably better than the 55¢ regular RB 50. It comes with the inside of the tube exceptionally smooth which reduces adherence of debris accumulation which causes gumming of pistons. So to summarize, the phenolic RB 50 is a good buy if one can afford the extra 30¢ to pay for its commendable advantages.

Another important new product CMR is working on is the Flexwing PW 11. If all goes well in the manufacturing and production of this kit, it will be the first competition flexwing on the market. Our best wishes of luck to you concerning this matter. Watch this space for more exciting products from Competition Model Rockets.

Composite Dynamics

The special characteristics of a composite engine may not be too abundant in a very short time. Unofficial news has it that Composite Dynamics is retiring into the world of famous but no longer names. According to a reliable source, CD is

cont'd next page



NOVAAR NOTES



Built-Up Kit Program

NOVAAR has ordered 24 Phoenix kits from Estes for the Built-Up Program. These kits will earn us \$150.00 in merchandise certificates provided that we build them all to the satisfaction of the dealer who receives them for display. We are expected to build these kits strictly according to the directions on the kit. However, since we anticipate for them to have so many complicated decals, we have plans to set up a decal session after all the models are built to apply decals. This will provide the inexperienced members with some help from more experienced members and for all we know-- vice versa. So volunteer your efforts and build a Phoenix kit. The merchandise certificates we receive will be sold at 50% of their value, first to the members who have constructed kits and then on a first come first serve basis to the rest of the membership.

NOVAAR Launch System

In a short time, we will have to give our launch system a tune up with special emphasis on the launch pads. The electronic components have been checked by Greg McCain who also deserves the credit for building and designing the system a few years ago. His report is that the electronic system, including the phone lines is in good shape. So we need ideas and suggestions as well as volunteers to rebuild, or fix, our launch system which is quickly deteriorating.

Treasurer's Report

After spending quite a long period of time in search for two good watches at an economical price, Richard Pfundstein reports that there is no way he could get hold of some. However, as reevaluated at the last meeting, we decided that two more watches will not be necessary for the present time. Also at the April business meeting, we were informed that our treasury consists of a healthy \$187.00+ at the time being, we anticipate some more money from some merchandise certificates that have not yet

been received or sold etc... So be on the look out for a good deal on LCD stopwatches, and let us know.

Larson's Scale Workshops

Announcements from our senior advisor: First of all, Don has just obtained a new lathe component from Tam Pho and is now actively conducting sessions for building scale models (turning balsa nosecones, air brushing, learning techniques, etc...) Secondly, Don will hold a Scale Modeling session at the second meeting in May. This session will concentrate more on methods of obtaining, presenting scale data, scale factors, etc.. rather than the actual building of the scale model itself. Special emphasis will be placed on Sport Scalemodeling since it is an introduction to Scale. Be sure to attend this session, it should be very constructive and will increase your appreciation of Model Rocketry.

Harmon Named C.D. For Nice 2

Aaron Harmon has been appointed Contest Director of Nice 2 to be held on June 19, tentatively at Baron Cameron Park in Reston, Virginia. For more information on this meet, see Countdown Calendar. Please note that all of our allowable contest factors have been planned out. The meets NOVAAR will attend are as follows: VACUUM VII; ECRM; NOVAAR 31 & 32; NICE 2. The events listed for the meets above are very promising so plan to attend them all, see also Countdown Calendar.

Product Reviews Approved

As approved at the March business meeting, NOVAAR has decided to start a product review program for the Free Press. We have initiated this program by sending out an order for a Centuri Bull Dog kit, and an Estes Phoenix kit. We will make an effort to continue this program for the benefit of our NOVAAR members as well as the readership of the NFP all over the country. The funds for this particular program will be provided by merchandise certificates in the treasury.

Rambling Rocket

by Rich Pfundstein

I've been asked to review the Estes 1982 Catalog, and since the more active members of NOVAAR are interested in competition, that's the slant I will take in the review. There are some good as well as bad news to pass on to you this month.

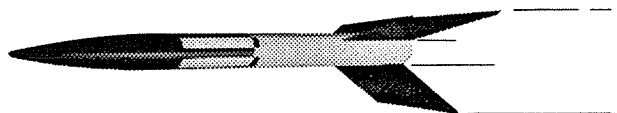
First, the good news - since there is less of it and I can cover it more quickly. The Astrocam 110 is still \$20.00, the same price as last year. More good news is that the price increases are relatively small (25¢-50¢) on birds that beginning competitors use in their first competition. These include the Wizard, Sprint, and Javelin.

Now for the bad news. To launch these birds will cost more-- about 12% more per pack of engines. Since we are now on the subject of engines, let's take a look at what's new for 1982. Several engines have been dropped, and depending on how you feel about them, that could be good or bad. No longer manufactured in mini engines are all $\frac{1}{4}$ A's, the $\frac{1}{2}$ A 3-0's and A 3-0's (I'll miss these in B altitude) This leaves the A 10 as the only mini booster in production. In standard engines, the B 8-7, $\frac{1}{2}$ A 6-0 and B 8-0 are dropped. All the D engines still remain and even at the same price!! So you power freaks who thought that $\frac{1}{4}$ A's were igniters can still slip 3 D's in your bird for \$4.95 for yet another year. However, prices for all other engines go up 30¢ per package.

Beginning Scale and Sport Scale modelers will have to reach a lot deeper into their pockets if they plan to use either the Pershing 1A or the ever present

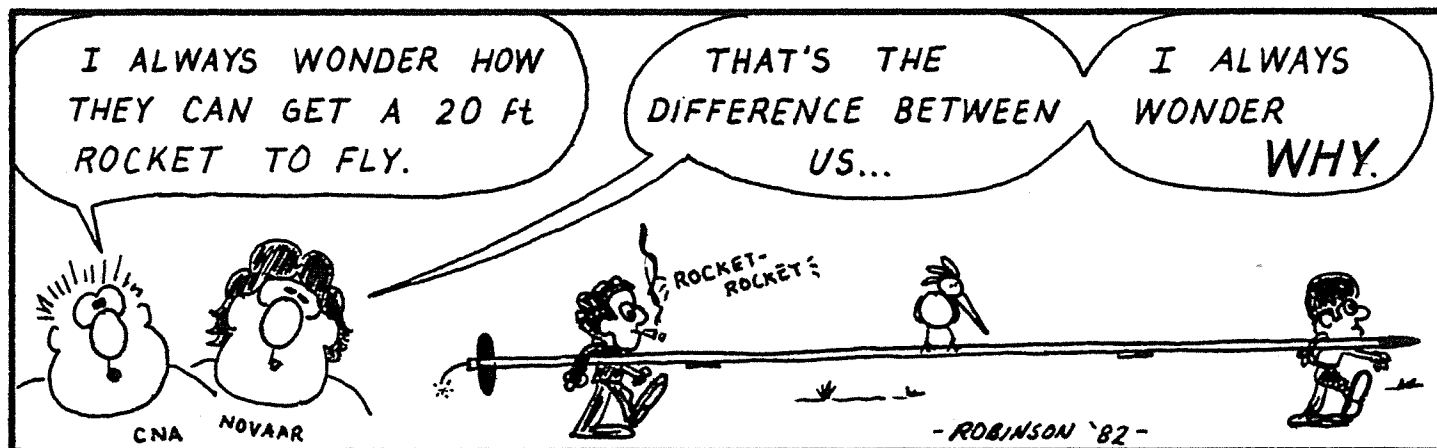
Honest John. They went up \$5.00 and now costs \$29.95. That's progress! For the same price it costs to buy one this year, you could buy and fly it not once but three times last year. Wow, what a deal! The catalog does state however, that the kits look good as a static display also, (just in case you can't afford the engines.)

Body tubes are all up in price from 15 to 20¢. Nose cones are up in price as well with increases ranging from 15 to 60¢. You can get the idea by now don't you? Well, if you don't, here it is-- Because of various economic pressures and supply side policies we had to modestly increase our price structure to stay competitive in our industry. Translation: "EVERYTHING IS MORE EXPENSIVE!!" Seriously, though the price increases are not that bad. Keep telling yourself that. Maybe more D engined birds- After all, D's are still the same price! I sure hope that's not a misprint. Shhh-- don't let Estes know.



cont'd from previous page

losing its chemist and the lack of sales, production problems, and in some cases-- unreliable results have caused this company to fold. Another reason is simply that "he's moving!" As unfortunate as it may seem, after May or June, we'll miss another excellent manufacturer of high performance rocket engines and parts.

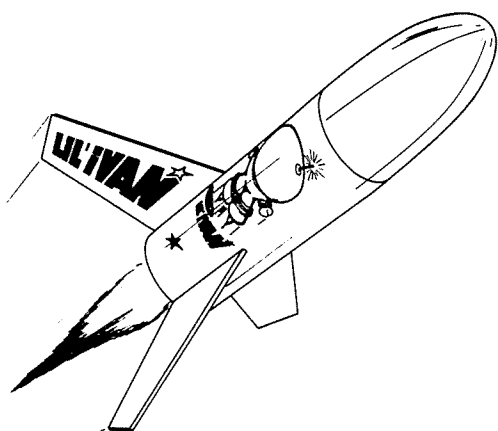




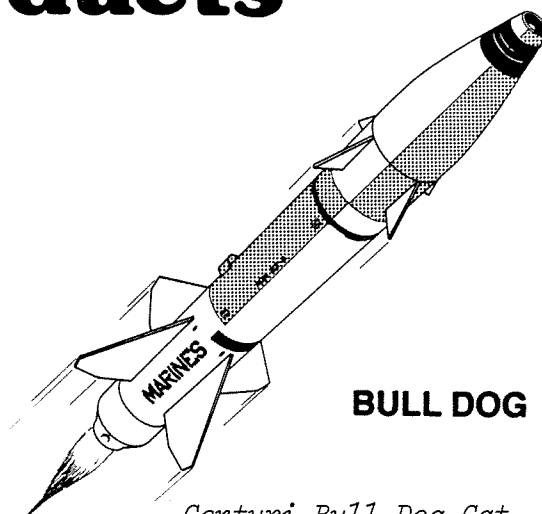
BEEP--BEEP--BEEP---"GULP"!!! [Pac-Man? No! Reality!] "Someone's now swallowing Centuri.

Fact: Estes Wats line answers "Hello, Estes/Centuri". Fact: Estes honors Centuri merchandis certificates, why wait 'till the end. Fact: Estes and Centuri shares the same catalog art-work. How else can we think? *composed by an unwary traveler.*

New Products

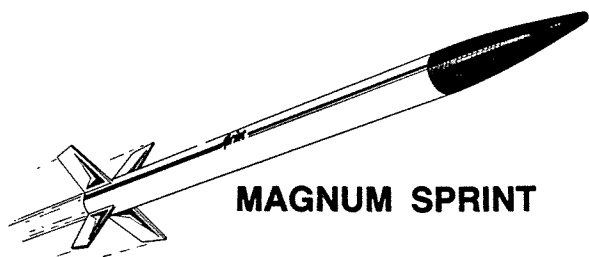


Centuri Lil' Ivan Cat. No. 5353
\$3.95



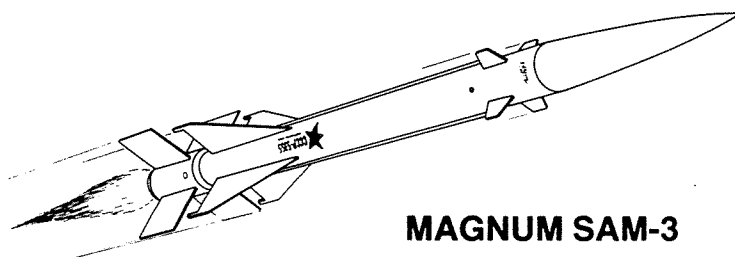
BULL DOG

Centuri Bull Dog Cat. No. 5354
\$7.95



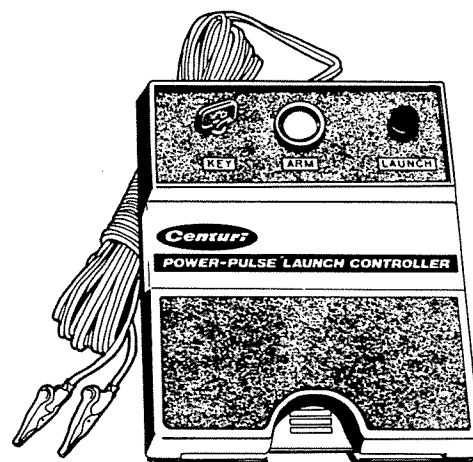
MAGNUM SPRINT

Centuri Magnum Sprint Cat. No. 5356
\$4.50



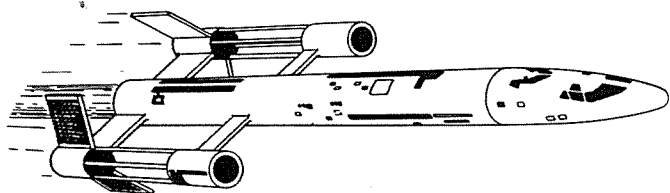
MAGNUM SAM-3

Centuri Magnum Sam-3 Cat. No. 5355
\$6.50



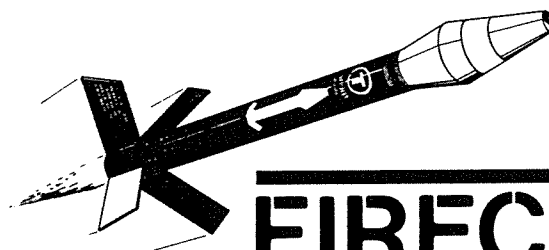
Estes Power-Pulse Launch Controller
No. 2210 \$9.95

Identical Centuri Pola-Pulse
No. 5630 \$9.95



Scorpis

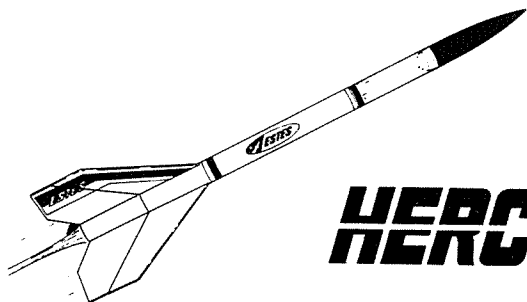
Estes Scorpis Cat. No. 1375
\$5.00



FIRECAT

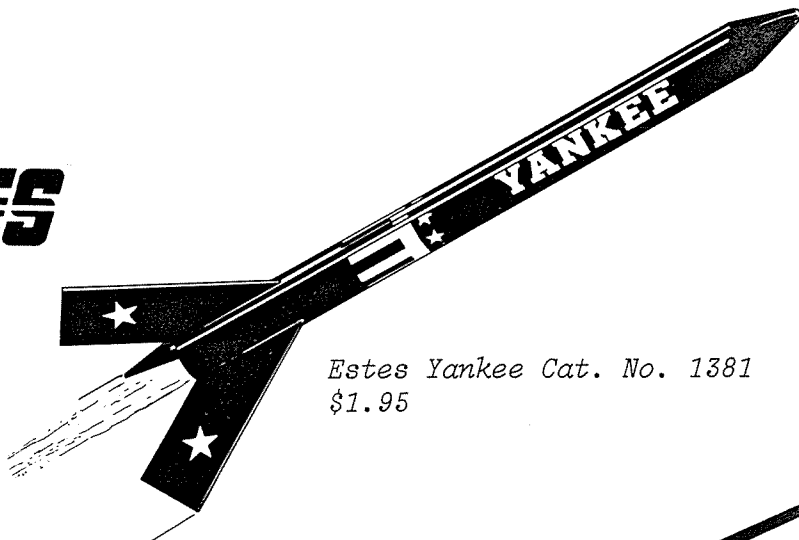
Anti-Tank Missile

Estes Fire Cat Cat, No. 1378
\$4.00

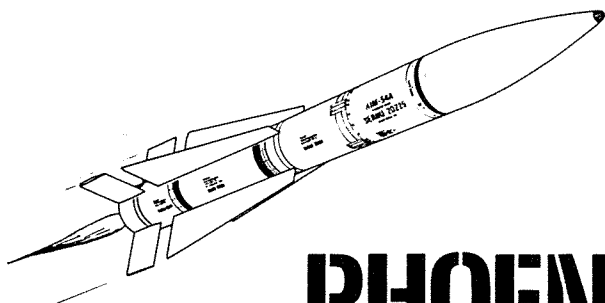


HERCULES

Estes Hercules Cat. No. 1377
\$5.50

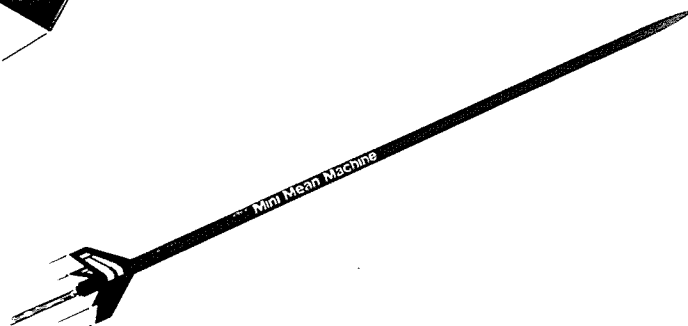


Estes Yankee Cat. No. 1381
\$1.95



PHOENIX

Estes Phoenix Cat. No. 1380
\$9.95

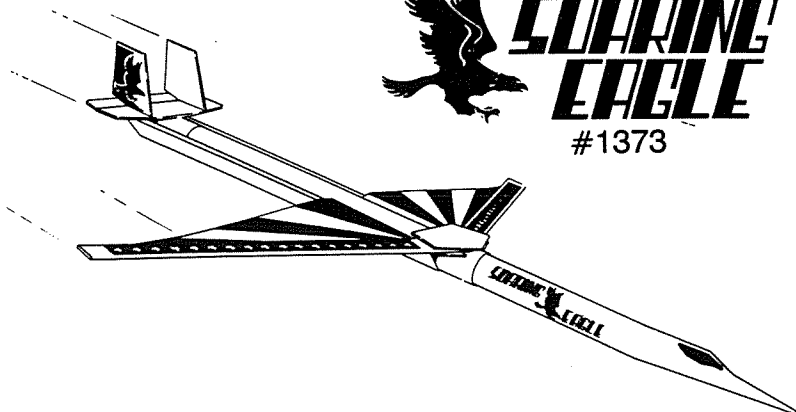


Estes Mini Mean Machine Cat. No. 0865
\$4.25



SOARING EAGLE

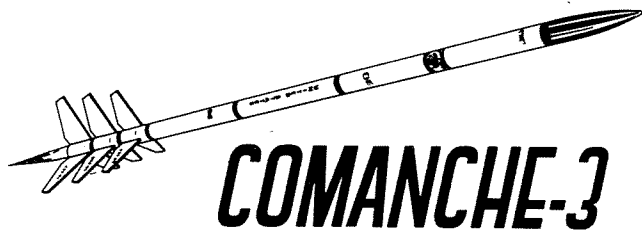
#1373



Estes Soaring Eagle Cat. No. 1373
\$7.00

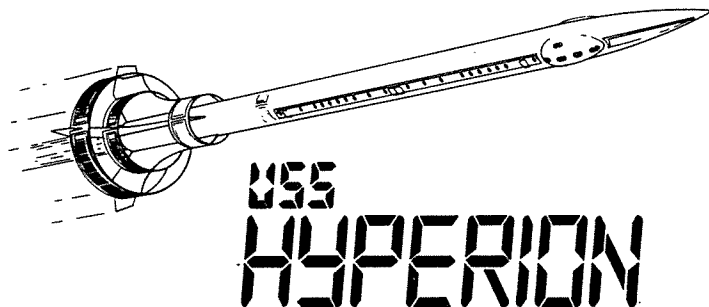


Estes Spartan Cat. No. 0864
\$3.75



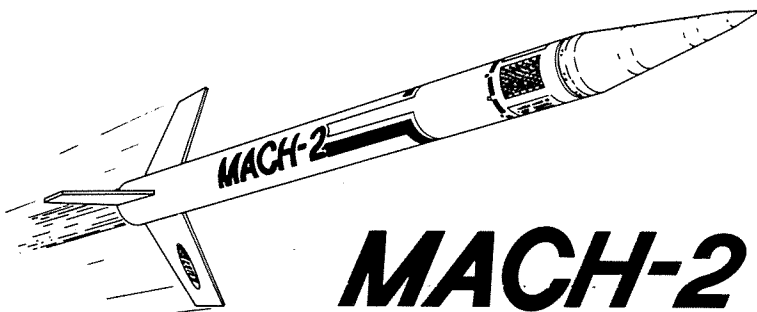
COMANCHE-3

Estes Comanche-3 Cat. No. 1382
\$5.50



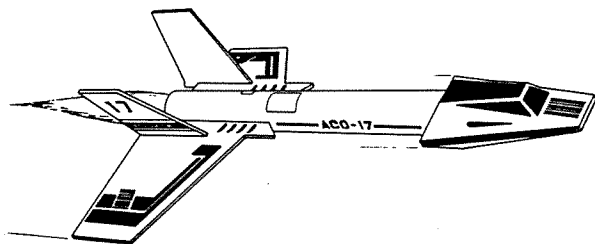
USS HYPERION

Estes Hyperion Cat. No. 1383
\$5.50



MACH-2

Estes Mach-2 Cat. No. 1379
\$6.50

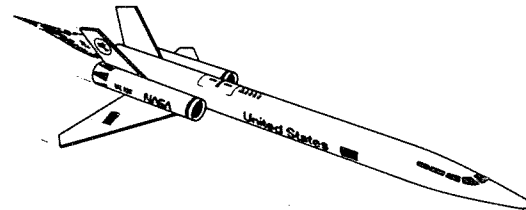


ATTACK CRAFT ORION

Estes Orion Cat. No. 1374
\$5.75



#1376



NEWS OF NARAM 24

(Orlando , Florida -- August 8-14, 1982)

Our latest correspondence with Richard Fox, C.D. of NARAM 24, seems very promising. There are tours scheduled on Monday of NARAM week for Disney World and on Wednesday for the Kenedy Space Center. Also scheduled is a BBQ dinner (pool side), from this, there are implication of a pool on the premises--thank goodness! From other sources, we have learned that the Florida rocketeers of the Orlando region are working on a permanent launch site. It will include a building of cinder blocks with buried cables and probably concrete launch areas. The rocketeers attending NARAM are sure to benefit.

Most importantly, there is an event that has been changed-- D International Streamer Duration has been changed to A International Streamer Duration. The events are expected to appear incorrectly in the Model Rocketeer public announcement because of late notification. All NAR members can expect a mailing sometime in May concerning finalized information on NARAM 24.

The events presently stand as follows:
Predicted duration; D Super Roc Altitude;
C Egg Loft Duration; A International Streamer Duration; 1/2 A International Boost Glide; B Rocket Glide; Research & Development; Scale; Plastic Model.

Also, on Saturday 14, the World Champion ship fly-offs will be held from 9:00-4:00.

The "Brian Robinson's Sky Carnival" Model Rocket Primer

[The following is the "primer" for beginners to "see" what model rocketry is all about. Of course, it is a little twisted for our April mood. Read on and enjoy!-ED]

The Rocketeer

See the poor boy.

He is a model rocketeer.

Why is he so poor?

Because he spends his money on very
valuable items.

Such as cardboard tubes and plastic.

Why does he buy these things?

So he can make rockets and lose them.

Also, if he is lucky, he may be able
to "prang" them.

Why does he want to do these things?

So he can spend more money

And buy a "Pranger" patch.

The Rocket

See the funny model rocket.

See how ugly it looks.

Why does it look so ugly?

Because it has no paint.

Why does it not have any paint?

Because the paint adds a lot of weight.

See how the rocket flies.

Fooosh! Where did the rocket go?

It went into the air.

See how many pieces this is in.

Why is it in so many pieces?

Because the rocketeer did not use "Epoxy".

Why did he not use Epoxy?

Because it also adds weight!

The Field

See the pretty field.

See the pretty trees in the field.

See the rockets in the trees.

See the rocketeers climb the trees.

Why are they climbing the trees?

So they can get back their valuable rockets.

Why are the rockets so valuable?

Because they are worth \$1,000,000 (\$2,000,000)
if the rocketeer should fall.

Competition

See the rocketeers with their rockets.

They are going to compete.

How do they compete?

By flying different events againts each
other.

See how they "prep" their rockets for
Competition.

See how skillfully they use their tape and
glue.

See how quickly they write their number
on the rockets.

See the funny RSO.

He checks over their "preppings".

See the rocketeer pay-off the RSO.

He can now compete.

What is the object of the competition?

To hit the RSO with the rocket!

The Hotel

See the cheap hotel.

See how clean it is.

Why is it so clean?

Because the rocketeers are not there yet.

See the anxious rocketeers check-in.

See them run to their rooms.

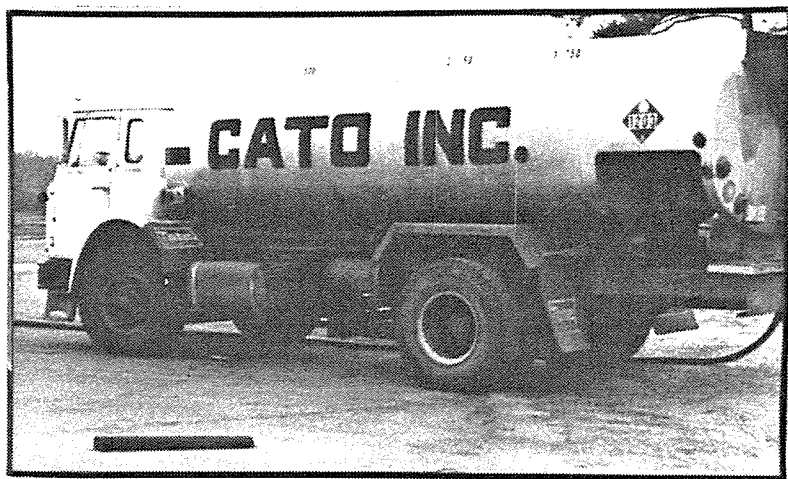
Why do they run to their rooms?

So they can start to build their valuable
rockets!

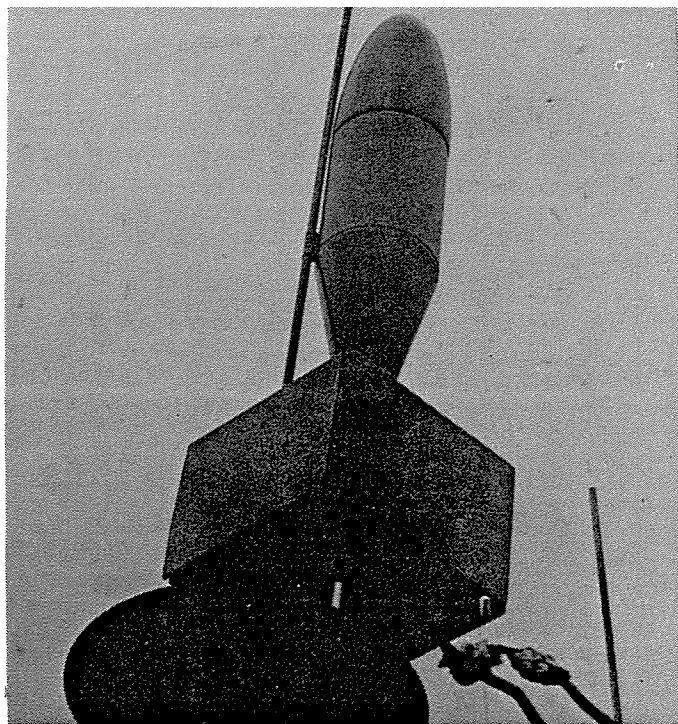
THE STATE OF THE NAR

We will try to relay this information as accurately as possible for it was a considerable amount of time ago that it was conveyed to us from C.D. Tavares, NAR Trustee, after a trustee's meeting. The best news has to be that the NAR \$1,000,000.00 liability insurance has been or will be raised to \$2,000,000.00. This action is probably due to the membership's record low number of claims-- if any at all. Members should keep in mind that this insurance covers the modeler while he's flying NAR certified events as well as AMA certified events.

Our insurance coverage is not the only thing on the rise however, the NAR membership is also steadily improving in size. The credit for this has to go to the increased exposure the NAR has been getting from the inclusion of NAR applications in manufacturer's catalogs. The outlook for the future as far as the mail-order rocketeers go are very bright. In fact, from now on you'll notice an NAR application in every order you receive from Estes or Centuri. The other factor for membership rise has to be the increased circulation of the Model Rocketeer magazine to hobby shops. Since it was introduced there in the latter part of last year, many model rocketeers got a taste of competition rocketry and chose to pursue it. If nothing else in our economy is doing well, rest assured that the Model Rocketeer is, as well as the NAR. Chris Tavares, Editor of the Model Rocketeer, predicts that the future will be even better, his situation at the present time is probably better than anyone can ask for. This piece of news may be



Here's one of the very few photos that speaks for itself. -by Quang Pho



"The Bomb -by Joel Kenny"
photo contributed by Don Larson.

surprising because it was only a short time ago that we read the MR editorial foreshadowing its future state, namely the endless void of debt and deficit. Again, breath easy because when the editorial about postal hikes and production costs was written, the results from the hobby shops had not been returned. The delay was simply because all hobby shop dealers had six months to return unsold, therefore nonprofiting copies. The fear was useless and turned out only for the better. A few weeks later, the money began rolling in and all fears disappeared.

The good news will keep on pouring in but this next item may have some people scurrying for shelter. The NAR now strictly looks down upon amateur rocketry. By amateur rocketry, we envision models of impulse which reaches over 80 Newton-Seconds, or with weight over 1 pound, and any others that do not adhere to the safety code. The Association is ready to ask any amateur rocketeers among us to remove himself, and will also take heavy measures for similar offenses.

Second Pink Book Printing Completed

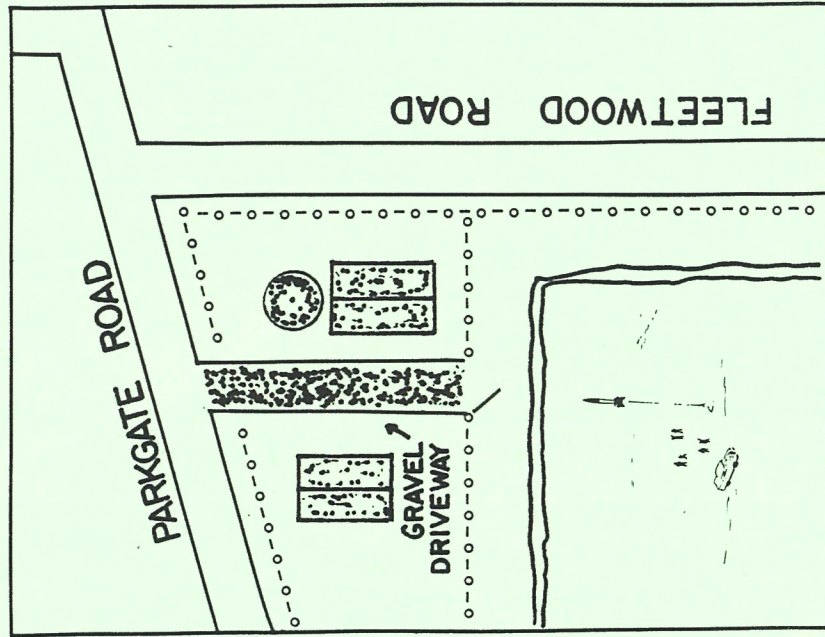
We learned from C.D. Tavares that the long awaited pink book has finally been completed. Up to this point, many members had to do without one and had a very hard time at competitions.

So if you fit into this group, you may want to order one right away for this contest season from NARTS.

NOVAAR'S NOKESVILLE FLYING FIELD

From 66 West, take 234 south through four or five traffic lights; take a right on Godwin Drive. Godwin ends on 28; take a right. Proceed to Bristow Road (619); take a left. Cross the tracks at Bristow and take your first right at Valley View. Follow to the end (incidentally passing our old field!) and take a right on Parkgate. The first left is Fleetwood -- the driveway leading into the field is immediately after that.

From 95 south, take the Dumfries exit (234N). Follow to route 646; take a left. In Aden, take a right on Fleetwood. Proceed to the end and take a left on Parkgate, and another immediate left into the gravel driveway.



NOVAAR RANGE GROUND RULES

As you may imagine, it is not every landowner that will allow a group of strangers the privilege of tromping all over his land, launching and chasing model rockets. Finding such a person is hardwork indeed, and we do not wish to go through it again unnecessarily. therefore, we have set down certain rules of conduct that are to be strictly adhered to by both NOVAAR members and guests. wilful violation of these rules by any modeler will result in his being escorted from the field , with or without the invocation of rule 11.4 whether the occasion is sanctioned competition or at any other time.

The only access to this field is through the landowner's driveway. We expect you to use this driveway as if it were your own-- slowly and carefully, with all due caution. Remember that it is a privilege that we are being allowed to drive autos into the field at all.

Every modeler is to be responsible for his own litter. Do not depend on "someone else" bringing a trash bag-- bring one yourself.

A barbed-wire fence runs between the field and the road. We expect the wind will be blowing in this direction-- unfortunate, but unavoidable. Climbing over the fence damages the fence and will not be tolerated! We suggest you pair up with another person to chase models, so that one can keep his eye on the model while another climbs carefully through the fence.

Remember that you are in a rural area, where people are (rightfully) protective of their land. If your model does happen to land in another landowner's field, do not simply invade the field to retrieve your model. Seek out the landowner and ask his permission. If we receive any complaints from adjacent landowners about modelers who ignore this rule, they will be barred from participating in future events at the Nokesville field. Again, this is a good reason to chase in pairs-- one to keep his eye on the model while another goes to ask the landowner's permission.

Do not assume this is an exhaustive list. We expect you to treat the field, the fieldowner, and the neighbors as if you had to live there with them-- because, in a very real sense, we do! Being careful, being considerate, and having fun are perfectly compatible; and we expect all three from you!

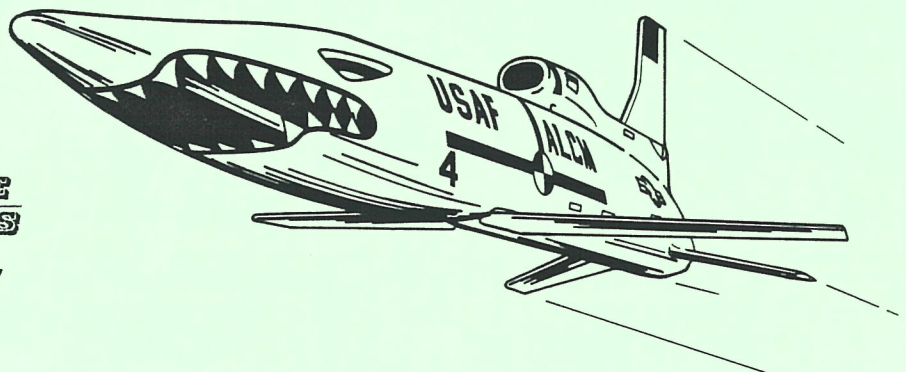
A short way down Fleetwood Road (perhaps a mile or so), at the corner of Route 646, in Aden, is a small country store. It is a good place to pick up sodas and sandwich for lunch. It may or may not have a john-- we haven't yet been inside-- so take that into consideration. In any event, it is certainly more convenient than at any of our other fields. Check it out!

A map and directions to the field are on the reverse.

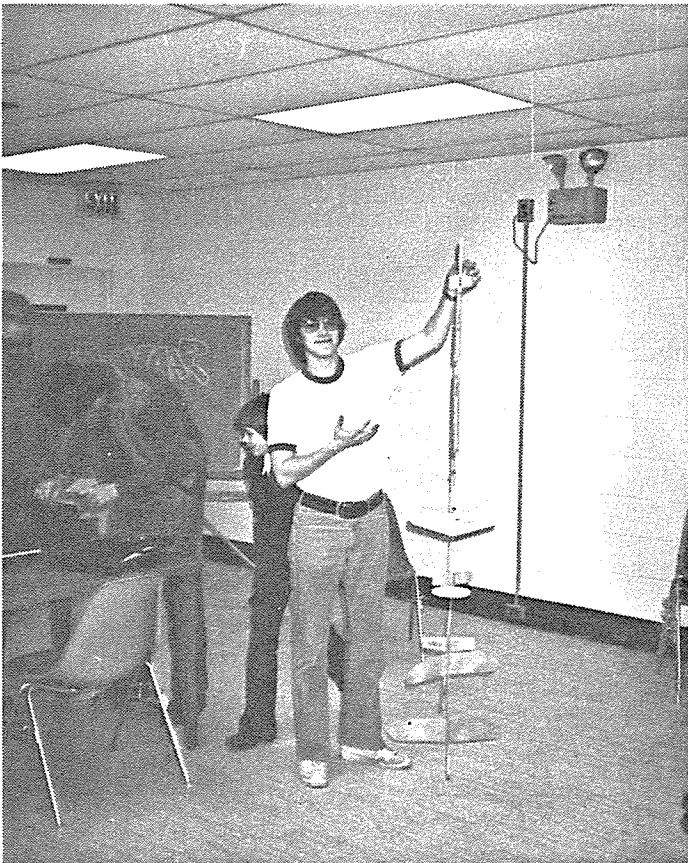
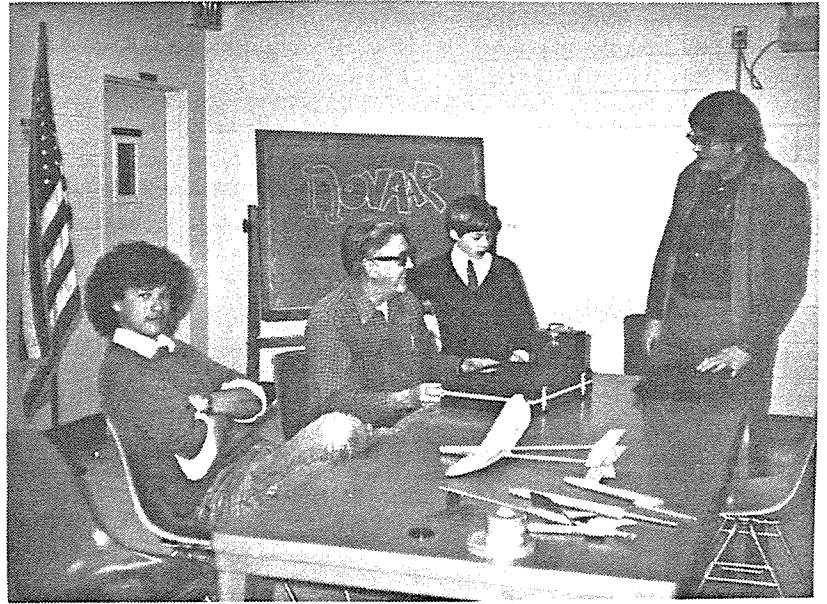
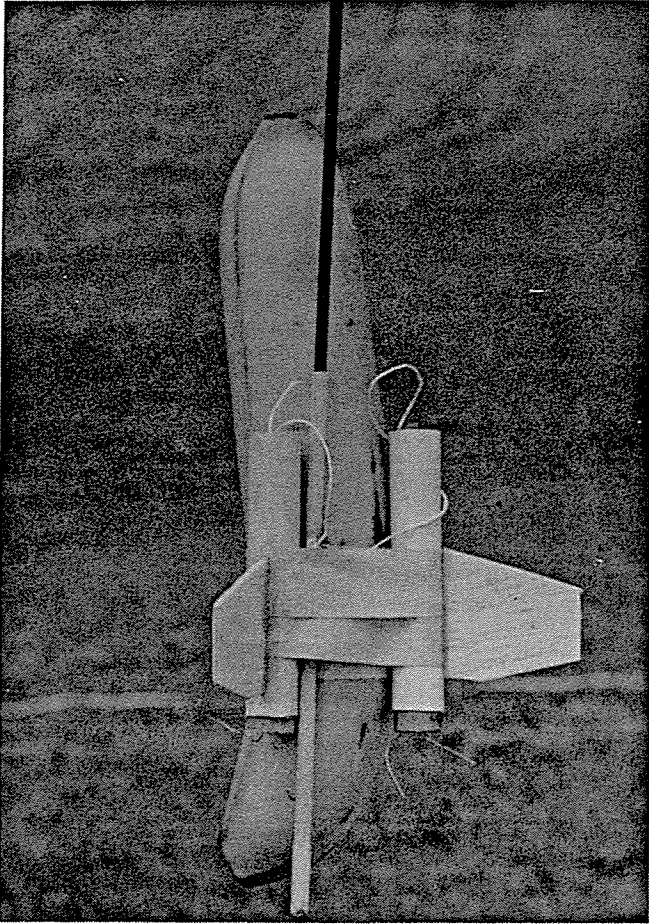
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NIGUAR FREE PRESS

NORTHERN VIRGINIA ASSOCIATION OF ROCKETRY



DePhoto DePartment



YA' KNOW CHARLIE, SOMETIMES I
THINK WE SHOULD QUIT DRINKING.

-photo by Stephen Waide

COUNTDOWN CALENDAR

NOVAAR meetings are held regularly on the first and third Tuesdays of every month, from 7:00 PM to 8:45 PM, at the Dolley Madison Branch Library in McLean (except where otherwise noted.) For information about NOVAAR or for directions, call Tam Pho at 703-893-7458.

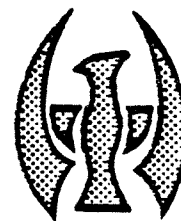
Tuesday, April 6, 1982	NOVAAR Business Meeting - Dolley Madison Library.
Saturday, April 17, 1982	VACUUM VII - Open Meet, Bristow, VA (NOVAAR). C Int B/G; D E/L Alt; B R/G; B H/D; C A/E; B S/R Dur; D S/D. Contact: Dan Winings, 9620 Leeta Cornus La., Nokesville, VA 22123 703/791-5925-- Rain date: Following Sunday!
Tuesday, April 20	NOVAAR Meeting - Scale Presentation? - Dolley Madison.
Weekend, May 1&2, 1982	ECRM XIV - Regional Meet, Fort AP Hill, VA (Wheaton) NOVAAR will attend. Plastic Model; S/L; $\frac{1}{2}$ A Int S/D; C H/D; B S/R Dur; B E/L Dur; A R/G; D Int B/G. Contact: Jon Rains, 11414 Schuylkill Rd., Rockville, MD 20852; 301/468-1362.
Tuesday, May 4, 1982	NOVAAR Business Meeting - Dolley Madison Library.
Saturday, May 15, 1982	NOVAAR 31 - Section Meet, (Baron Cameron Park) Reston, VA. $\frac{1}{2}$ A B/G; $\frac{1}{2}$ A R/G; B H/D; $\frac{1}{2}$ A Int S/D. Contact: Dan Winings 703/791-5925 or Tam Pho 893-7458. (See also May 29).
Saturday, May 29, 1982	NOVAAR 32 - Section Meet, [Events and location are exactly the same as NOVAAR 31. Rain date for all meets are the following Sunday. Contact: Dan Winings or Tam Pho.
Saturday, June 19, 1982	NICE 2 - Open Meet, Reston, VA [?] (NOVAAR). A Int B/G; $\frac{1}{2}$ A Int S/D; D E/L Alt; B E/L Dur; D Alt; B R/G; $\frac{1}{2}$ A R/G. Contact: Aaron Harmon, 1011 Moore Field Hill Grove, Vienna, VA 22180. -- Tel: 703/938-9274

NOVAAR Free Press
6713 Lumsden Street
McLean, VA 22101



First

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The NOVAAR Free Press is published by the Northern Virginia Association of Rocketry, a non-profit hobby organization. The Free Press is free to NOVAAR members and NAR sections agreeing to exchange newsletters. Subscription rate for other sections and individuals is \$3.00 per year. Send articles, letters to the editor, subscription requests, newsletter in trade, and other correspondents to:

Quang Pho, Editor, NOVAAR Free Press 6713 Lumsden Street, McLean, Virginia 22101

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