

THE UPSTATE ROCKETEER

The Official Newsletter of the MARS NAR Section Serving Western and Central New York

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The Upstate Rocketeer is published 6 times a year by the Monroe Astronautical Rocket Society (MARS), Section 136 of the National Association of Rocketry as a service to MARS members in Western and Central New York. Subscriptions are a low \$2.50 per year. The *Upstate Rocketeer* is edited by Dan Wolf. Send all comments, complaints, letters, plans, subscriptions, etc. to him at the following address:

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Blowin' In the Wind

For the second time in a row I must apologize for the lateness of an issue. Each issue of *UR* is supposed to show up in your mailbox on or near the beginning of the month for that issue. Unfortunately, here it is the middle of November already (sigh). This means short notice for the upcoming monthly MARS meeting. Sorry about that. Hopefully we will be back on schedule in January.

An update on the Pink Book situation can be found in the column "As the ModRoc World Turns". This will be a regular feature of this newsletter and will contain the latest news (and occasionally rumors) of what is happening in the NAR, the industry, and model rocketry in general. I hope you will enjoy it. If you have any news from the ModRoc world such as the latest "who's taking over CMR" rumor or other news send it to "Deep Rocket", 235 Kislingbury St., Rochester, NY 14613.

Now that the flying season is mostly over for the year, its time to take care of those things that never seem to get done in the summer. Do the microclips on your launch system need replacing? Now is the time to get it done. Its also a good time to repair those broken fins, replace those old shocks and other repairs to your ModRoc fleet. Its also a good time to start planning those scale models, collect scale data and start the planning and building of boiler plates and the final model. For you competition types its a good time to look back over the past summer's contests and decide how to improve your performance. What worked and what didn't? Are your B/G or helicopter models competitive? If not, the winter months are a good time to look for better plans and try building the ones that look like they will be better than what you flew this past summer.

This is also an excellent time for you to prepare that article for the *Upstate Rocketeer* or perhaps *American*

Spacemodeling that you didn't get a chance to do this summer.

Since there are no contests and few sport launches in the winter months, it is a good time to send in articles. We need them now more than ever. Now is a good time to write up that kit review or finish that plan for your favorite model and send it in. As an extra incentive, those who submit an article to UR before the January issue (deadline is Dec. 16th) will receive a package of the original Centuri Sure Shot igniters. The *first* one to submit an article will receive a Centuri F15 kit. Don't delay, send in your plan or article today!

There is no report on the Buffalo area sport launch. Originally scheduled for October 15th it was postponed to the 23rd do to windy weather on the 15th. We arrived on the 23rd about 45 minutes late to find no one there! Either the launch was short or no one showed because of the weather. Next time I'll call before I head over. Hopefully the Buffalo NAR members will have some more organized activities in 1989.

Until next time,

Dan

MARS October Meeting Report

MARS held its first meeting of the fall season on October 21st. Members Roy Metz, Ferenc Roka, Jeff Ryan, Mary Wolf and Dan Wolf were present. Dues were established at \$5.00/year plus an additional \$2.50 for the newsletter. The membership list was reviewed and ideas were discussed for recruiting new members. Although there are several NAR members in the Rochester area, attempts to get them active with the club by sending them letters, invitations to sport launches and the first two issues of

this newsletter have not brought them in. The club did receive one inquiry from Rob Landis, a NAR member who has moved here in the past year. Mr. Landis is an astronomer intern presently working at the Strassenburgh planetarium. He is very much interested in becoming involved with the club. Hopefully this will result in joint programs with the planetarium for the benefit of both parties and the growth of MARS. In addition, we may be able to use the planetarium as a meeting place.

Plans were made for the end of 88 and the beginning of 89. In December, it was decided that instead of a meeting the club will have a sport launch. The launch will be on Sunday December 11th, starting at 1:00 PM at Black Creek Park. After the launch, everyone is invited to Dan Wolf's house for a Christmas party. Dan's wife Chris says that wives and girl friends (but not both) are invited. Kids are welcome too!

Other items decided at the meeting were:

1. The November meeting will be held on the 18th at 7:30 at the Wolf's house. It will be "show and tell" night so bring along a ModRoc related item and be prepared to talk about it.
2. A meeting will be held on January 20th at 7:30. The main topics of that meeting will be the election of officers and planning of spring and early summer activities.
3. Tentative plans for 1989 include a building session in February, and a "Big Bertha" contest in April.

After the business part of the meeting Dan showed slides and videos from NARAM 30 and a video of high power launches from High Sierra Rocketry and refreshments were served. If you weren't there you missed a good one! Don't forget, next meeting is November 18th.

TURNUP - Hornet B/G

The plan on the following page is another glider designed by Phil Slaymaker, former MARS member. The July issue featured his Swift B/G plan, the Zephyr, one of my all time favorites. The TURNUP is a scaled down version for 1/2A and A engines. I ran across this one while going through some of the old MARS materials and have never flown one. My good luck with the Zephyr makes me believe that this glider will be a good one too.

Phil's instructions are with the plan. The only changes I would make are to tissue the glider instead of finishing it the way Phil recommends in step 5 and to make the pod a little bit longer than shown for added stability on boost. Those are my own personal preferences and not hard and fast rules. Use whatever building and finishing techniques you prefer. Good Luck and hopefully your glider will TURNUP!

CHROME DOME III

An inexpensive high power sport model.

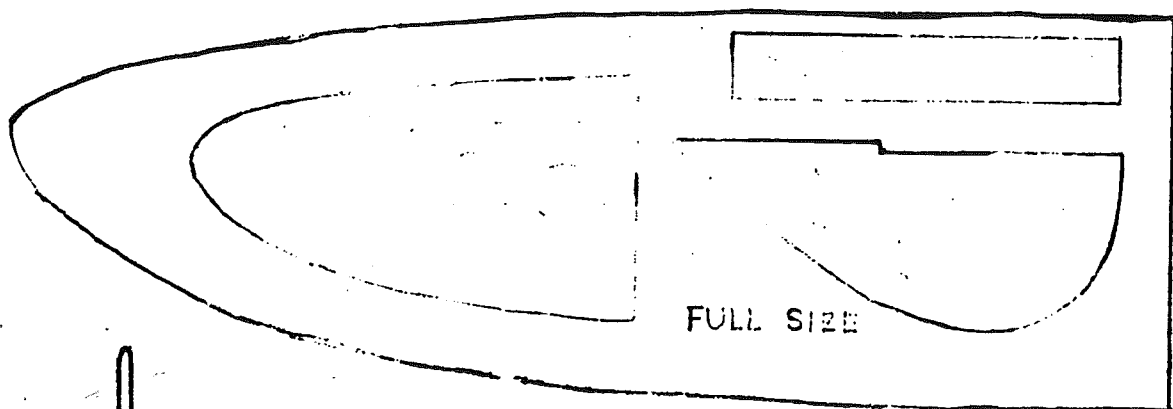
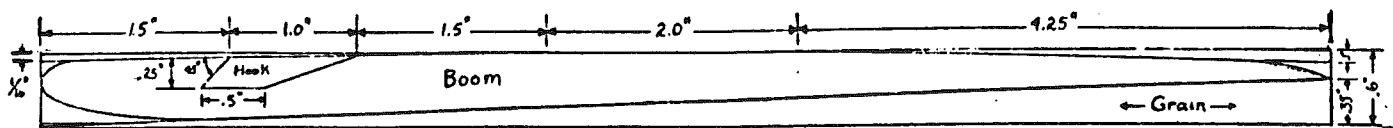
This rocket is an inexpensive high power model that is just for fun. It won't win any beauty contests, break the speed of sound, or set any other performance standards. It may however be the cheapest E and F powered rocket you can build. The model (plan on page 5) is inexpensive because the body tube and the nose cone are "free". The body tube is a Christmas wrapping paper tube and the nose cone is the larger "half" of a Leggs panty

hose container. The Leggs container mates perfectly to the body tube. More money can be saved by using a tube from a roll of laundry dryer sheets for the engine mount. Also the launch lug can be made from a 1/4" soda straw from your last trip to McDonalds. With the thrust ring made from a spent engine casing, the only item that needs to be purchased is an 1/8" sheet of balsa (4" x 36").

The original Chrome Dome was built back in 1972 and used a cluster of two C engines. With the Estes D coming out, the engine mount was removed and replaced with a new one that would accommodate a single D engine. Chrome Dome II was born! This model met its end when the ejection charge did not push out the recovery system. The final version, Chrome Dome III was designed to use the FSI E60-4, an economical choice for E power. It has also been flown with F100s and an Aerotech E50.

In recent years, the Christmas wrapping tubes have been getting thinner and thinner such that today's tubes may not have enough strength on their own. To solve this problem, install a "stuffer" tube, using a smaller diameter wrapping paper tube for this. This will give the needed strength and will improve the chances of ejecting the recovery system! Other than that, assembly is fairly straightforward. Use normal construction techniques for high power models.

The model flies well on the FSI E60, giving a super straight, quick boost. It makes a nice demonstration model with this engine too (everyone enjoys the fire, smoke and noise) and is a cheap way to fly high power. Have fun with this one and remember that model rocketry, even HPR, need not be expensive.



TURNUP - Hornet B/G

Scale: AS NOTED | Date: Dec. 1, 1970

Designed and Drawn by: P. Sloymaker

Recommended Engines:

$\frac{1}{4}$ A 3-2T

$\frac{1}{2}$ A 3-2T

A 3-4T

Parts List:

- 1) Push Pod
- 2) Sides - $\frac{1}{32}$ " C-Grain Balsa
- 3) Wings - $\frac{3}{32}$ " C-Grain Balsa
lightweight
- 4) Boom - $\frac{1}{8}$ " Hard Balsa
- 5) Rudder - $\frac{1}{32}$ " C-Grain Balsa
- 6) Stab - $\frac{1}{32}$ " C-Grain Balsa

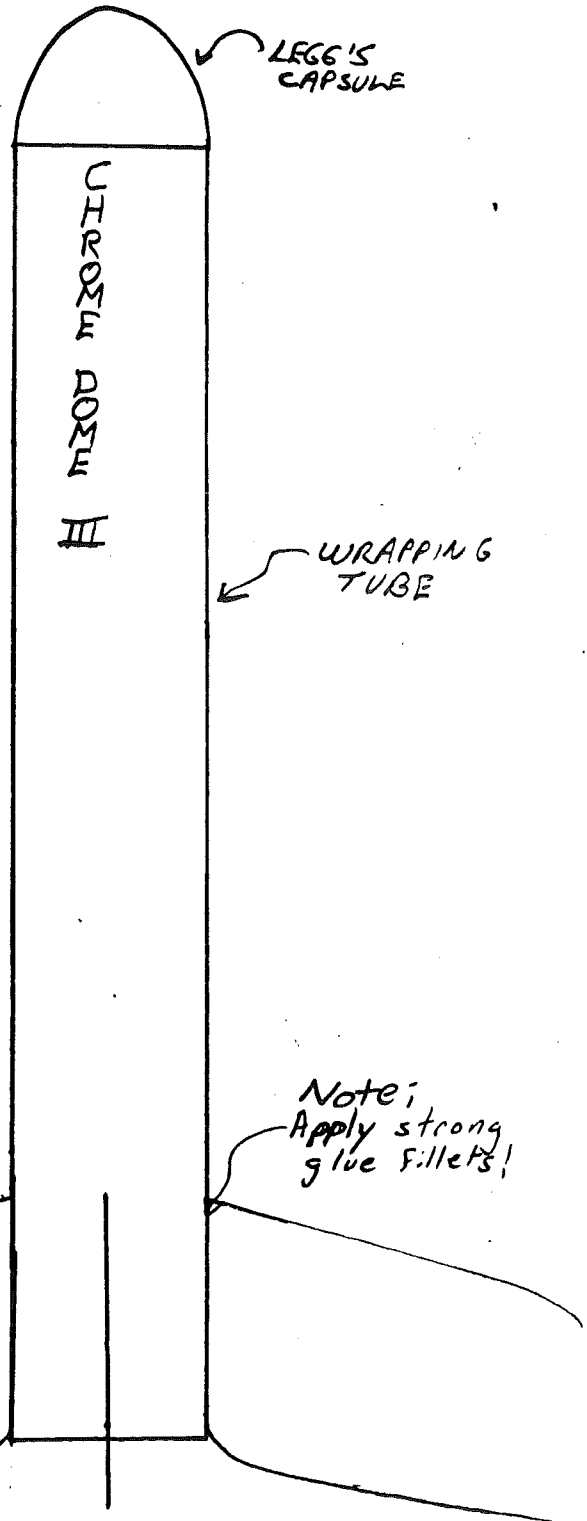
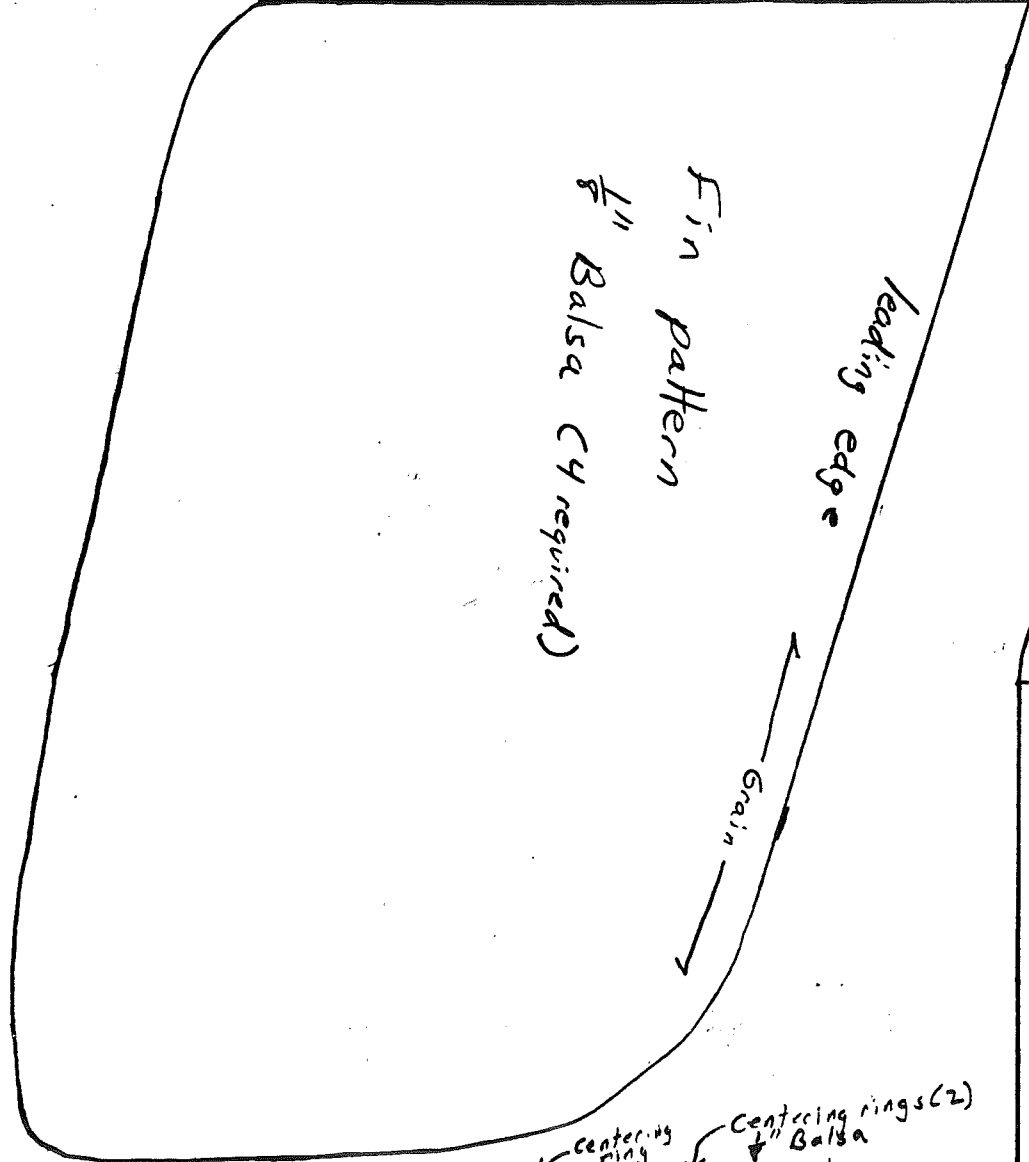
- Notes:
- 1) Use model airplane cement
 - 2) May sub. $\frac{1}{16}$ " balsa for wing if not flying larger $\frac{1}{2}$ A 3

Assembly:

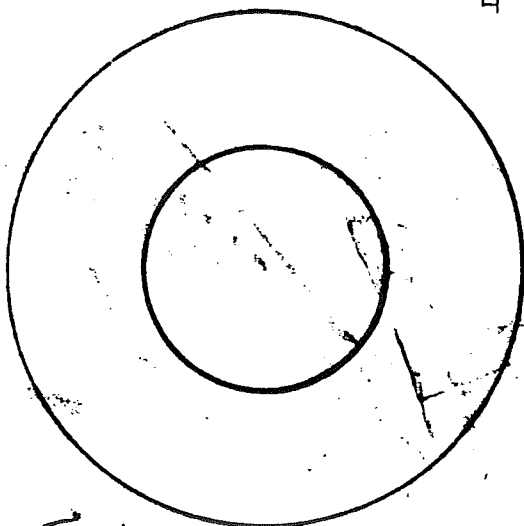
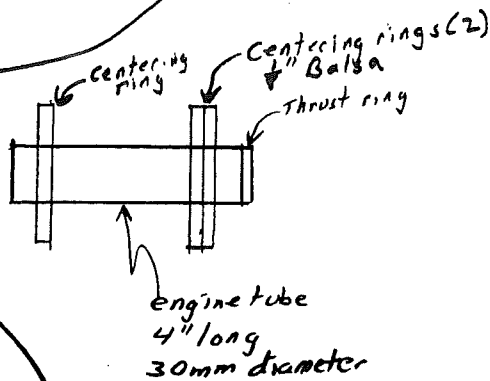
- 1) Cut out two wings using a sharp knife. Sand each to the airfoil shown and then taper the wing tip to a thin edge. The leading edge should be round. Bevel the root edges and glue wings together so that one tip is $2\frac{1}{2}$ " above the table.
- 2) Cut out boom from balsa strip. Use sharp knife and metal straight edge. Use single edge razor blade on hook. Round edges except where pod, wing, and stab go.
- 3) Cut out stab (single piece) and rudder. Round edges and glue to boom as shown. Cut out sides and glue to boom.
- 4) Glue wing to boom. Fillet all joints when dry.
- 5) Sand smooth and dope with several coats Sig Lite-Coat, sanding between coats.
- 6) Balance for gentle left-hand turn with clay.

CHROME DOME III

Drawn & Designed
by Dan Wolf



engine mount detail



Centering ring template
 $\frac{1}{8}$ Balsa (3 required)

As the ModRoc World Turns...

(news & rumors heard 'round the hobby)

Industry News ... *Enertek* has called it quits. It has been reported that some individuals who placed mail orders with the company have received refund checks in the mail with a note written on them, "Sorry, company out of business." A call to *Enertek's* phone number says the phone has been disconnected. Apparently the company was not able to find enough investors to give them the necessary capital. Even though the company is "officially" dead, rumors are that *Enertek* may resurface in some form in 89. Word is that *Cox Industries* is considering rereleasing their old line of plastic ready to fly models. Mark O'Brien from *HUVARS* says to "write Cox a letter to tell them you'd like them to put those models back on the market." *Aerotech* has petitioned the NFPA to allow composite motors containing up to 125 grams propellant be classed as model rocket engines and shipped as Class C devices. This would allow for full 160 nt-sec G motors. Under the current weight limit the largest G motors are 120-130 nt-sec. The NAR supports the petition. Lastly, the *Vulcan Systems* G50 and the *FSI* 18mm B6 motors are now certified.

Pink Book Update... The changes mentioned in the last issue of *Upstate Rocketeer* are indeed official. A full report is in the October issue of *American Spacemodeling* (which I haven't received yet!). If you haven't sent in for your new Pink Book yet, write to NAR HQ for a copy. Make sure to include your NAR number. Also ask for the errata sheet when you write. This same information is also in the October *AmSpam* (so I've been told).

ModRocs on TV...If you have cable, the Discovery channel has been running a series called the "Space Experience". One

of the episodes had some model rocket footage. It showed an elementary school class flying Big Bertha models. It also showed how they make composite propellant! Hopefully they'll rerun this episode in the future.

Strasensburgh show is shocking...The Strasensburgh planetarium is currently running an unusual show on the life of Nikola Tesla, inventor of the Tesla coil. It features a reenactment of his demonstration of the coil at the World's Fair. An informative yet entertaining show that will give you a jolt! Check it out.

Upstate NY Hobby Stores

(cont. from page 7)

Radio Controlled Models & Supply
1173 Sheridan Dr.
Tonawanda, NY 14150

Hobby & Sport World
2107 Whitesboro St.
Utica, NY 13502

Herb's Hobby Haven
1370 Union Road
West Seneca, NY 14224

Miniature Gran Prix
Westvale Plaza
Syracuse, NY 13219

Walt's Hobby & Craft
4300 W. Genesee Street
Syracuse, NY 13219

Upstate New York Hobby Stores

Hobby stores are always interesting because model rockets are usually not their main business, but a side line. A model rocketeer often has to go to several hobby stores to get what he or she is looking for. Thus this list of hobby stores. This list is a subset of a list of New York state hobby stores listed in Modelnet data library on Compuserve. This list only contains the ones in the 13xxx and 14xxx zip codes.

Craftmasters Hobby Crafts
1176 Lovejoy
Buffalo, NY 14206

Niagara Hobby & Craft Mart
3366 Union Road
Buffalo, NY 14225

Finger Lakes Hobby & Gift Center
222 South Main Street
Canandaigua, NY 14424

Field's Hobby Center
3523 Union Rd
Cheektowaga, NY 14225

Coe- Zee Corner Hobbies
217 Juneway Drive
Chittenango, NY 13037

Law's Hobbies
339 Baker St.
Corning, NY 14830

Pedal Away Bicycle Shop
85 Main St.
Cortland, NY 13045

Hobby Hutt
4308 1/2 E. Genesee St.
Dewitt, NY 13214

North Side Hobbies
2745 Delaware Ave.
Kenmore, NY 14217

Ed's Hobbies
1 New York St.
Lockport, NY 14094

Wheels N' Things Hobbies
13 Locust St.
Lockport, NY 14094

D & B Hobbies & Crafts
205 E. Main St.
Odessa, NY 14869

Jim's R C Hangar
Canton Road
Ogdensburg, NY 13680

Lon's R C Service
2062 Rabbit Lane
Phoenix, NY 13135

Utopia Hobbies Unlimited
26 Utica St.
Port Byron, NY 13140

Dan's Crafts & Things
352 Empire Blvd
Rochester, NY 14609

Edmund's Hobby Shop
1521 Mount Hope Ave.
Rochester, NY 14620

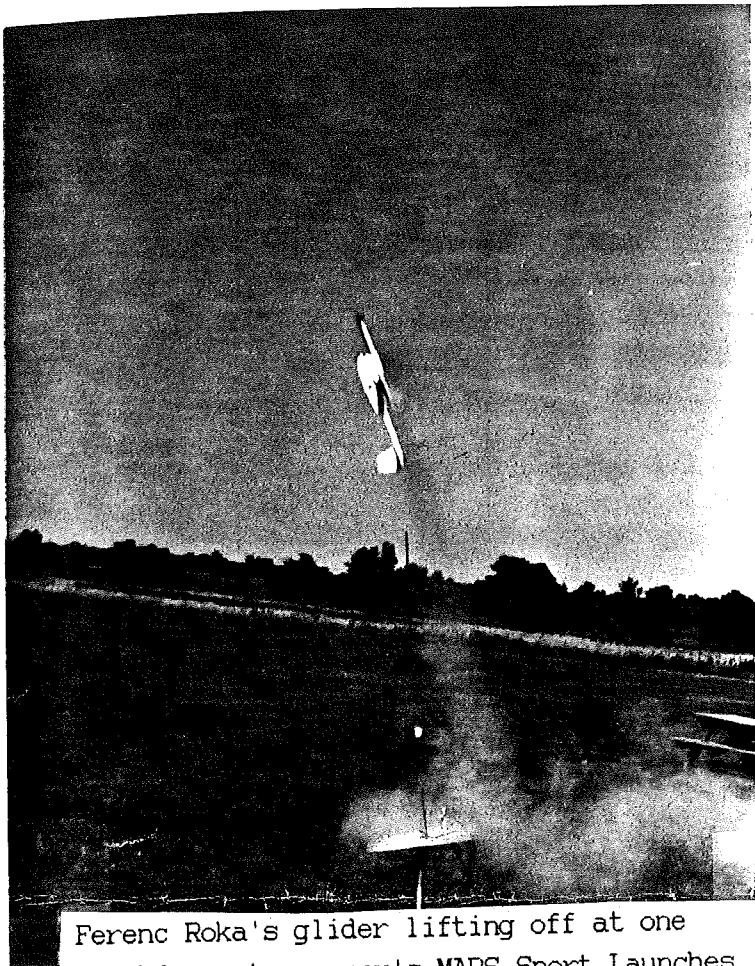
The Hobby House
1841 Lyell Ave.
Rochester, NY 14606

Dick's Bike Shop
North Street
Springville, NY 14141

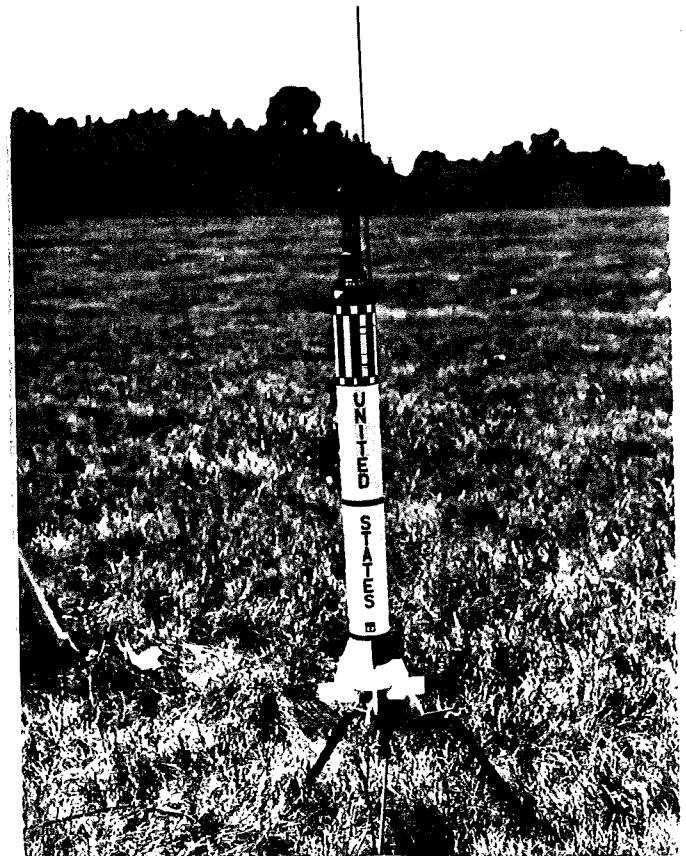
(cont. on page 6)

PHOTO PAGE

A Potpourri of Pictures of the Past Summer's Launches



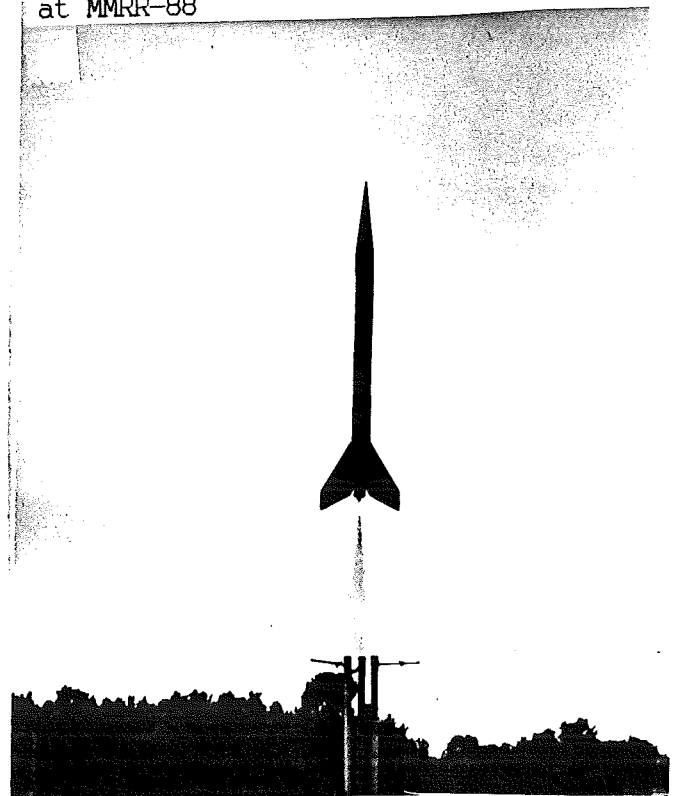
Ferenc Roka's glider lifting off at one of this past summer's MARS Sport Launches.



Jeff Ryan's Sport Scale entry - An Estes Mercury Redstone just prior to liftoff at MMRR-88



Dan's 7 C engine cluster (a poor man's F engine) Mistah Ness (designed by Will Safford of ASTRE) takes off for one of its many successful flights this past summer.



Dan Wolf's Sport Scale entry at MMRR-88, An FSI Black Brant takes to the sky on an Aerotech E10.

PHOTO PAGE (cont.)



One of the Iron Banana team members preps his Estes Honest John Sport Scale model at MWRC-88.



Mary Wolf checking out her Dad's Predicted Altitude model at NARAM 30. "Not bad, but the fins need a little salt."

US/USSR Competition

(from notes sent by Pat Miller on Compuserve and Mark O'Brien on the HTF BBS)

The first ever US/USSR competition was held September 29th to October 6th at the NASA Wallops Island Flight Facility, Virginia.

First reports indicate that the contest was outstanding with seven countries present. The US Team and the Soviet Team tied with three gold medals each. The US took one more individual gold medal than the Soviets. Although the complete results were not available, the following are "unofficial" Team results:

Parachute Duration	U.S.
Streamer Duration	U.S.S.R.
Boost Glide	U.S.S.R.
Rocket Glide (R/C)	U.S.
Scale Altitude	U.S.
Scale	U.S.S.R.

For the first time in International competition, the U.S. lead the Scale event after static judging. Bob Biedron, after already taking the gold medal in scale altitude prepared his Ariane scale mode. Not knowing he was in first place, Bob went for maximum flight points by prepping his model with two strap-on boosters as well as the main core motor.

Unfortunately, one of the strap-ons hung up at ejection, causing the model to go unstable and the model pranged and was DQ'd. It was said that the Soviet scale judge thought that Bob's model was one of the best he had ever seen. Because of Bob's misfortune, the Soviets took first, second, and third in scale. The U.S. on the other hand took first, second, and third in R/C RG. Congratulations to the US team.

Upcoming Events

If you have an upcoming model rocket activity in your part of Upstate New York, send the info to the editor and it will be listed here.

November 18th, 7:30 PM - MARS Monthly Meeting. Dan Wolf's house. "Show and Tell" night.

December 11th, 1:00 PM - Snowbirds I Sport Launch. Black Creek Park. Christmas party at the Wolf's house afterwards.

January 20th, 7:30 PM - MARS Monthly Meeting. Officer elections.

April 16th, 2:00 PM (date tentative) Big Bertha contest. Black Creek Park. Fun meet with the following events: A PD, C SD, Open Spot Landing, B Ping Pong Ball Duration. All events must be flown with an Estes Big Bertha. Special prizes awarded. Details in future issues of UR.

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