

No. 1

ZOG-43

May, 1965

NARHAMS TAKE MEET WONDERFUL COMPETITION

April 24th at the Optical Research Facility saw the meeting of two National Association of Rocketry sections. The participants consisted of members of the Star Spangled Banner Section of Arbutis, Maryland and the Headquarter Astro-Modeling Section of the Washington Metropolitan Area. There were 24 entrants, 13 of the NARHAMS and 11 of the Banner section in a contest which lasted from 10:00 a.m. to about 4:00 p.m.

It was finally called off on account of rain, although few rockets were left to fire. During the day, over 100 rockets were fired, yet only 46 received official flight status. A score of spectators saw four events—spot landing, hawk boost glide, parachute duration and drag race held simultaneously. A fifth event, class two altitude, was held later on that day.

On hand were Mr. Herbert Honecker, who who acted as contest director, Mr. James Kukowski (the executive director of the NAR) as Range Safety Officer, Mr. Howard Galloway, as Firing Officer, and three judges, one, our own Mr. James Rice.

Range equipment was supplied by the Banner section and the NARHAMS. It consisted of a transceiver, walkie-talkies, a launch tower, a coaster rack and four launch pads, of which two were used.

After the contest was called, Mr. Honecker retired to his car to determine the results of the judges decisions. On Sunday the 25th, the results were finally decided. Tracking, not at its best, allowed only two winners, and the drag race competitors, with their final flights to go and cancelled because of rain, each received a first place.

Rusty Rice came out with the highest number of points—54, with Bob Wallace following with 48. Out of the total (con't page 2, col 1)

CLARIFICATION OF CONTEST POINTS

As ZOG-43 went to print, NARHAMS won the meet 322-89, with Rusty Rice taking first overall. These points will all be altered because of the following changes:

1. If you placed in any event, you will receive the one contest point you lost. (C.P. xwt. fac. x Meet fac.)
2. 1 contest point if your altitude bird was disqualified because it wasn't tracked.
3. A letter has been sent to Capt. Barnitz about parachutes not opening completely.

Watch for ZOG-43 for a complete listing of contest points won at the NARHAMS first meet.

CONTEST COMMITTEE REPORT

Application has been sent in for an area meet with Nova section in Arlington Virginia to be held on Sunday, May 23. Probably it will be held at Ft. Belvoir. The events will be:

- Hawk B/G with 3 age divisions
- Class 1 altitude
- Drag Race
- PeeWee Payload

There will be a Regional meet with NARHAMS, Nova and Banner sections. It will occur sometime in June. Around August 1, the Steel City Section in Pittsburgh will be coming down for an Regional meet. Other sections participating are not yet known. The Delaware section has been contacted for a future meet. Since the Optical Research facility cannot be used anymore for launching, the committee had been searching for other sites. Sites in Fairfax Va. are being looked into.

Carl D. Ratzer
Contest and Records

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points received, the NARHAM section obtained 322 points and the Baltimore group gained 86 points, for a total of 408 for the whole meet.

Rusty Rice received first in parachute duration with a timing of 1:26:85 minutes; Ed Pearson took second with a 1:25:05 minute reading; and George McMullen was third, by proxy, at 1:11:00 minutes. In Hawk Boost-Glide, leader division, Rusty again took first place with a soaring flight of 1:03:80 minutes. Karen Summerfelt scored second with her Space Plane's flight of 56.7 minutes, and Doug Frost, with his snap-wing glider brought up third place, timed at 16.15 seconds. In junior division of that same event, Bob Hoyt won with his Eagle in a 45.2 second flight. Bob Wallace's cerise colored bird was second with a 40 second flight, and George McMullen ended up third with a Falcon which lasted 36.8 seconds.

Moving on to spot landing, after Wallace's flight, 13 feet away, was disqualified, the team of Carl and Steve Kratzer moved up to first place with their 33'4" measurement. Paul Conner obtained second with a 37'2" measurement, and Mike Meedter's rocket, of the Star Spangled Banner Section, was taped off at 44'2" for a third place. During a demonstration flight, Mr. Kukowski flew a unijet which actually hit the marker 70' away from the pad. Too bad he didn't give it to Barry to use.

Since only two altitudes were tracked well, a third place was not awarded. 1st place went to John Ludeman, who obtained a height of 750', and second went to Gary Landis of the Banner group who reached 740'.

After numerous drag races, contestants were eliminated to just two netrants: the Maxen/Pinkertin team and Bob Wallace. Then it rained, leaving both holding 1st place. A third place was given to Mike Meedter.

THE PRESIDENT SPEAKS

Much to the amazement of most people, our April 24th area meet turned out to be something most worthwhile. But then, again, why not? We had the able assistance of Mr. Herbert Honecker, one who we all agree worked tirelessly throughout the whole meet; Mr. James Kukowski, our Range Safety Officer; Mr. Howard Galloway, our Firing Officer; and three fine judges, who did well in keeping up with the rockets. Thanks also to Mark Mercer for bringing out additional range equipment from the Whitman club.

After the meet Saturday, we asked various people for their candid opinions. As was to be expected, there were mixed feelings. Some thought the organization was good to adequate, while others felt we needed more practice in contest arrangements. One thing seemed to stand out, and that was **that** we moved slowly in our launchings. However, a contest meet is not one of our general range meets. For obvious reasons, we have to have persons registered for flights, and this takes longer than just setting up a stand and firing a rocket. What we can do is try to set up the flying procedure in a manner which allows us to cut as much time as possible. Therefore, our next meet will have a set time for each event, as opposed to the "open" manner we have used in the past. If this doesn't turn out better, we will go back to our old ways.

Nor was tracking at its best. Our trackers have the zeal, and if they take time to practice, we shall be that much farther ahead. There is not too much excuse for losing all but two birds in competition.

Other than this, and some rail mix-ups we can say that this meet was splendid. In fact, we have received some requests for some section meets instead of the areas. This is fine with us, and we will schedule one as soon as we can be assured of a field.

Did you notice that Mr. Rich came to observe us? He was the contest director of NARAM 6, and is presently concerned with

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starting a section in Fairfax, Virginia. From Arlington came four rocketeers from the new NOVA section. We are planning to launch against them in an area meet.

Remember those beautiful two and three-stage demonstration rockets? Believe it or not, they are the property of Mr. Paul Young, who launched for the first time Saturday. Mr. Yung does Aerospace research for the library of congress. Robert Hood of Douglas Aircraft and Robert Atwood of NASA were also out to see our first co-competition flights. It was wonderful that the Evening Star and the Washington Post sent out two photographers for us. Dr. Sager, vice-principal of Northwestern High, came out with his son Jim to watch.

Please, if you have not already sent in your NAR application, do so. Some people were left out of the launching because of this or failure to pay their insurance. Future meets will come soon; don't be left out again. When you receive your NAR number, contact Bill Holms. He is "dying" to hand out NARHAMS membership cards.

by Old Ed

FIRST FREE STATE MEET POINT RESULTS

Out of the 24 entrants, only 19 received points for their flights. Others had their birds abort, crash, eject engines, or befall other items which disqualified them for their particular firing. These are the points as given by Mr. Honecker and our judges the our april 24th area meet.

STAR SPANGLED BANNER SECTION

Maxen/Pinkerton	24
Mike Meedter	20
Gary Landis	16
John Nowakowski	10
Tom Glass	8
Jim Brewer	4
Irvin Duck	4

NARHAMS

Rusty Rice	54
Bob Wallace	48
Bob Hoyt	46

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(con t from col 1)

Steve and Carl Kratzer	28
John Ludeman	28
George McMullen	24
Karen Summerfelt	22
Paul Conner	20
Doug Frost	20
(Old) Ed Pearson	20
Mark Mercer	8
Barry Kukowski	4

These are the points as the stand at printing although an appeal has been sent in

Jackets Committee Report

Finally! The small but annoying problem has been solved. (we hope) After visiting an establishment and finding we could only get a certain number at a certain price with no leeway for changes and only one color, the committee went to another source for possibilities.

As it turned out, there is a company through which can be bought navy blue jackets (as was first decided) for about four dollars apiece (near the preferred fee) and in the style wanted. This was arranged by Ken Guthrie of Walt Whitman, who is now making arrangements with the manufacturer for our order.

Karen Summerfelt

Range Operations and Maintenance Committee Report

The one thing which keeps an individual club or section going in model rocketry is the range equipment behind them. This can be a simple single rail to an elaborate communications system. We are extremely fortunate in the line of range equipment, as much is available to us. To give examples, the NAR HAMS have only one launch rack (6 rails), yet at the April 24th launch, we had access to seven racks. At that time we had only two range phones and just enough wire for them. Yet, on the range there were about walkie-talkies, a wonderful speaket system (miniaturized into

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Jim Kukowski's firing panel) a 102 inch whip antenna and a 23 channel citizen's band transceiver. This was rounded off with two theolites, and many "extras" which made the meet on the whole loads of fun. The extras included a launch tower, coaster pads, the flag, (with a collapsing wood pole, no less) several prep tables, and rope for the stakes used to mark the firing area. As you can see, the pooling of several groups leads to extensive material in range equipment. All deserve thanks who participated in bringing in and setting up equipment.

Much has been added to our equipment, so that it is now becoming difficult to keep up with all our gear. Until recently, we have been self-sufficient in one rack, one tower, one theolite, one set of range phones, wire, rails, a poor coaster pad, and an excellent firing panel with its car battery. But now, thanks to individuals using self-initiative, we have, or are getting much more.

We are in the process of building a sorely needed second scope out of a camera tripod and a three power elbow telescope. We were particularly impressed with the Star Spangled Banner Section's tracking station, and the boy who built it, Gary, has promised to send us the plans for it. This means a possible third or fourth station--let us hope in the future. Our trackers are in sore need on practice as our contest results attest.

Bob Hoyt has built us a new coaster stand for our larger birds. It stands about a foot high and has collapsable legs. We haven't seen it yet, but Bob tells us it is steady and looks respectable. To go with this, we have obtained a five-foot rail (3/16 inch in diameter) for the coaster pad. Carl

(con't next column)

Kratzer ordered this and several smaller rails through his school shop teacher. The rails, for our launch racks, cost about a penny a foot.

Dick Geldof converted an old tape recorder into an amplifier for use as a public adress system during our future range meets. He plans to hook this directly with our range phones so that our tracking communications are piped out, in addition to having a public adress system. The speaker looks shabby and the feedback is something fierce, but the noise is eliminated by 25 feet of wire, and the whole assembly can be fitted into a decent looking case. The recorder runs off a car battery with the help of a converter; cost--four and a half dollars. We have to thank Dick for his donation. He has been active in the field of electronics, and has built our firing panel. By coincidence, Jim Kukowski is also constructing a range phone hook-up with his speaket set up. He has found a place where wire is available ten dollars per thousand feet.

Doug Frost is in the process of completing a second firing rack. It will be a duplicate of the first rack. The panel has been partly adapted for this addition. Some wires need to be added, and terminal strips have to be placed. Doug also, with the help of Dick Moran, built the tilt rails which were used on the 24th.

Dick Moran built twelve new blast deflectors for our racks. They are of a square "C" shape and work well. However, we could use some glass tubing over the deflectors, as there is always the problem of shorting out clips with the blast deflectors. How about it readers?

The rain of April 24th did a wonderful job of rusting the steel top covering our launching rack. Steel wool got the surface rust off, but underlying spots

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were left. Range Operations and Maintenance Committee chairman Alex Vella is getting us some stainless steel to recoat the top.

Although we are in fairly good condition with equipment, we are still a long way from being completely self-sufficient. We would like to own another car battery, have more tracking stations, obtain more wire, and own some rope. All ideas for new uses of equipment or ways of improving old equipment are certainly welcome and encouraged. We have shown that we can pitch in together; now let's have a fine collection of range gear of which we can be justly proud.

Library Materials

Our section library contains the following items. All contributions are gladly accepted.

Rocket and Range Plans

Estes Industries Rocket Plans-No 4, 10, 15, 20, 12, 24, 23, 25, 29, 28, 30, Aires II, Design Booklet. (Kit plans K-1, K-3, K-5, K-6, K-17, K-10, K-8, K-9, K-11, K-13, K-7, K-2, K-14, K-12x. Firing setups FS-1A, FSS-2.

Catalogs

Coaster, Estes, Unijet, Model Missiles, Prodyn, Vanguard.

Technical Reports.

Estes Ind Nos. 1, 2, 3, 4, 5, 6, 8. NAR Reports 3, 7, 8, 13, 16, 17.

Model Rocket News

Vol. 1 No. 2, Vol 1 No 3, Vol 2 No 1 Vol. 4 No 1, Vol. 4 No 3.

Misc.

NAR Model Rocketeer, Safety Code, News Clippings, Leaflets. 25 Asst. NASA reports and Booklets. Two Books-"Fundamentals of Aero-Space Weapons Systems", and "Space Astronautics and its Applications."

Tips and Techniques

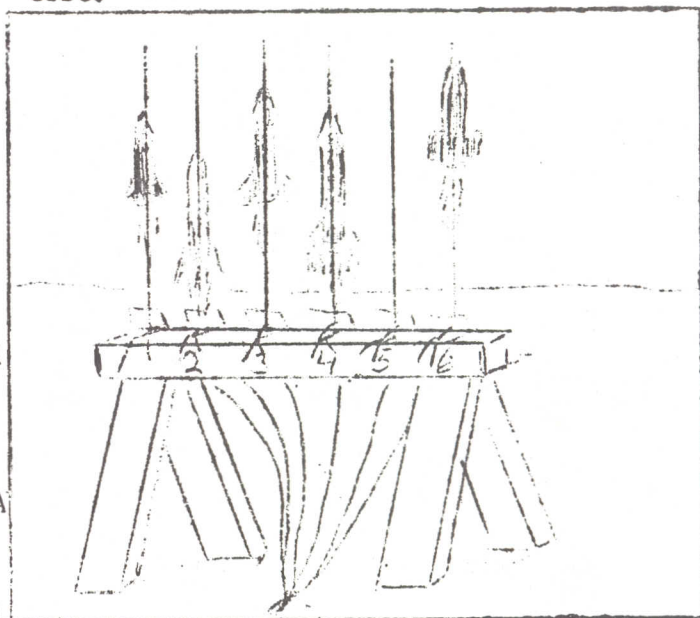
Tangled Shroud Lines?

Get a few friends, (2 for hex 'chutes, 3 for octagonal) and pull evenly on each line. Presto! No tangles. This method works for all tangles normally encountered.

Body Tube Marking

If you are lucky enough to have your own special rocket workbench, here is a helpful tip: Nail a metal-edged yardstick onto the surface and put a stop at the 1" end. To mark tube for fins, run pencil along metal edge. For cutting lines, push end of tube against stop, place at desired length, and rotate tube. Be sure to hold pencil steady.

One of the most useful items I have on my workbench is a roll of 3" wide adding machine paper. The cost is 35¢ for several hundred feet, and it may be used to make stage couplers, body tubes, recover rough finishes on body tubes, make fin spacers, mark cutting lines, mark fin lines, and just about anything else.



Oh no! She did it again!