

JUNE 1969

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SMITHSONIAN SUMMER

On June 7th, at 10:00 in the morning, NARHAMS and MARS started off what looks to be a great summer for model rocketry. At that time, the first rocket ever was launched on the Mall in downtown Washington, D.C. By now youre probably wondering what was and is going on, the an-

swer is, "A Lot?"

For the entire summer, the Smithsonian Institution is having a display on modeling of all types, including, of course, model rocketry. On every third week, alternating with the model airplane and plastic model builders, the NAR, in the form of members of the WAMARVA area sections will man a building booth in the front hall of the newly finished Arts and Industries Building. There they will demonstrate of the public the art of designing and building model rockets. Nany thousands of people visit this building every day during the summer, so this should turn out to be the Association's best publicity maker yet.

Getting back to the launchings on the 7th. These were held on the hourfrom ten until five. While the rocketeers ran around chasing the 8 models that were launched, Jim Kukowski manned the squack box and told the numerous spectators what was happenning. About Noon, none other than Harry Stine showed up and relieved Jim. It had been planned to launch only five birds each hour and to let the hungry spectators grab them, but plans were changed to allow more to

be launched.

While all this was going some really dedicated NARHAMS were building in the booth. Nany spectators

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MIT CONVENTION

Carl Kratzer

Since I am the only rocketer from the WAMARVA area to attend the M.I.T. Convention held in mid-April. I thought it would be opportune to a submit my summary and evaluation to ZOG. The convention was sponsored by the M.I.T. Model Rocketry and was directed by George Caporaso. Held concurrently with the convention was a regional R&D competition.

R&D entries were judged Friday afternoon by members of the Society. As I predicted, the number of entries was very small (about five) and the projects were of mediocre calibro.

Friday evenign the convention was formally opened by the guest speaker, Nr. G. Harry Stine. Stines address was antilled, "What's wrong with Nodel Rocketry?" and several significant points were brought out. Nore emphasis must be placed of the scientific educational aspect of moderocketry, rather than the hobby aspect of model rocketry has not succeeded in communication of the true challenge to the hobbyists. Mr. Stine openned the floor to comments and suggestions and maintained a very substantial discussion.

Following the keynote speech w was an informal NAR evaluation seminative directed by Jay Apt, LAC Chairman.

A very well designed questionaire was dietributed and completed by all members present. This questionnaire surveyed members ideas for improving the NAR. These were also used at the Pittsburgh Convention this year.

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SINGER OS R&D

A note of explanation to those who didnot know, this was not meant to be serious. Bob, who by the way has been accepted to Harvard, design that thing for NARAN-8, before he knew better. Please donot try to do it again, it didnot work.

After a short pre-launch briefing, the members split up into discussion groups on scale, R&D, boost/ gliders and construction. lattended the scale group which was led by Mr. Stine. These were one of the most valuable parts of the convention, however very little time was provided for the groups.

Following the discussion groups was a brief group discussion on rocket failures and catastrophes which included several humourous (and several non-humorous) anecdotes. After this was concluded, the members formed private bull-sessions which lasted

late into the morning.

On Saturday, the "conventionites" started the day with a demonstration launch at Hascom Field, the previous site of NARAM-5. Like most demonstrations, this one relatively uneventful but did obtain press and TV coverage. We saw scenes from the launch later

in the evening on WBZ-TV.

Pallowing the launch was a quick tour of the M.I.T. computer facicities Next, the R&D contestants presented their reports in the auditorium. Afterward was an excellent banquet at which the R&D trophies were awarded. I cannot recall the winners, but I think they were all in the Junior age

category,

In the early evening we saw movie films of historical space flights, the international meet at Czechoslavakia, the Pittsburgh Convention, the first M.I.T. Convention, a tour of Estes plant, all highlighted by a film atken from a rocket-borne movie camera. The camera was built from scratch by someone in the Mid-west (who didnot attend the convention) and is being submitted for a patent. The films were truly outstanding.

After the films, we again broke up into discussion groups on scale, R&D, payloads and model rocket laws. This time I led the group on R&D wi th Gordon Mandell. Again private bull sessions lasted through the night. The next morning consisted of a fare-

well brunch and departure:

The convention was attended by about 80 rocketeers, mostly NAR members. The average age was again higer than that found at the Pittsb burgh convention. The convention was very well organized and both George Caporago and the membership of MITMRS deserve a round of applause. Display: were prected by Estes, Centuri, and Bomar. Bomar had the most impressive display and sells an excellent line of kits. Hodel Rocketry magazine passed out copies of back issues and of course the convention will be covered thoroughly in a future issue (sopry, MR made it out before 296) Unlike the Pittsburgh Convention, this one was attended by only one NAR Trustee (Stine) and one LAC member (Apt).

There is some feeling within MITNES to advertise the convention as a regional one in the future, for over 90% of the people there were from the New England area. This would encourage other sections to also hold regional conventions in the

aroas.

In general the convention can be termed a success and those members who failed to go this year are urged to go next year.

C.K.

HOSM-11

MQSM-11, a section meet, will be held on July 12, 1969. Since the field is still a bit uncertain, "A" lettered events will be flown if the meet is held at Goddard, "B" events will be flown if we can get a bigger field. (DCRC is out.)

1. Class I (A) or Class II (B) P/D 2. Open (A) or Chute (B) Spot Land

3. Sparrow B/G

4. Hornet (A) or Hawk (B) B/G

5. Scale

6. Plastic Nodel (anything)

As stated previously, rocketry gets the booth every third week and NARHANS takes the Sundays of these weeks. People are needed to man the booth in three hour shifts from ten each morning to ten that night. Interested persons should contact Jim Barrowman. The NARHAMS days are:

June 22
July 13
August 3 and
August 24

The half-refinished Arts and Industries Building was unofficially opened on June 3 when a informal gathering of invited persons were treated to a look at the exhibits and some fairly good white wine. Chuck Gordon, Sheila Duck, Jim Barrowman, Bob Singer and the editor attended from the NARHAMS and Col. Kuhn was there representing MARS. There was a mock-up of one of the Saturn engines that I think is big anough to drive into (in a Mack Truck).

On the whole, it looks to be a really great summer, so get the family to come to Washington for vacation and see the works.

Club Photos

In afrantic effort to raise some money to get to the Nats, Danny O'Steen has gone into the photography business. For a long time past, as he will continue to do in the future, Danny has been taking and printing pictures from NARHAMS activities.

He has contact sheets of all of his shots and you re probably in a few of them yourself. Prints are going for the unbeatable price of 25¢ for a 8x10% See him at the next meeting, or call him at 277-2644.

TRACKING TROUBLES SOLVED

Yes someone has finally solved that everpresent problem of "track lost" with a system almost every section should be able to use. The credit for this feat goes to none other than Bob Singer. As usual with something this good, everyone wonder why nobody thought of it before. The editor, who is (or was) a habitual complainer on tracking failures is afraid he doesn't know.

Anyway, this is what Bob did:
He took one of the NARHAMS scopes,
which which were lying in his basement and mounted his father's 7x50
wide-angle binoculars on them. The
NARHAMS scopes were typical opensight-on-a-beam optics (below).





Bob just laid a washeloth over the beam for shock absoration and held the binocs in place with about five rubber bands. It wash t even necessary to remove the old sights! This is what resulted:





The editor was working the phonomial while Bob tracked Design Efficiency at WAMARVA-1. This is usually a difficult event to track, but out of about 60 birds launched, Bob followed all but two which went directly into the sun.

Then Bob had to pick up some sclae judging sheets at Howard Kuhn house, so I got to use the scope. It was really unbelieveable. Each bird could be seen on the mack, colors and all, AND they could be seen all the way up. In the end, I think we broke 90% tracked and closed.

With this record on its first time out, plus its availability and ease of use, the Singer Scope is def finitely the way to go.

THANKS BOB 9 9

PHONE TREE and NOSTER CHANGES

The following changes should be made in your (yes, that means YOU?) roster and phone tree:

Change Danny O'Steen's street no to 6020 Emerson instead of 60202.

Art Chapman's phone no. is 942-5763 not 942-9763. Some people have already called that and found aout that it is the 7-11 in that area.

Under Bruce Blackistone, drop John Hunter. You can also cross him off your roster.

MAYHAM A MESS

ZOG went to MAYHAM-1 with his usual ride and was therefore about an hour and a half late. This however was no loss at all, in fact, it was for the better. Arriving at 11:30, all we did was sit around in the hot haze and watch the trackers lose all the NARHAMS rockets. Things were so messed up that by the time the editor decided to fly, at 12:45, the first event was still only half over.

This continued for the rest of a meet that saw a lot of problems. ZOG estimates that through the two tracking events, Design Efficiency, and Pee Wee Payload, not more than 30% of the birds were tracked and closed, This may have been due to the haze, or perhaps to inexperienced trackers,

in any event it was bad.

The thick air brought poor times to the two B/G events. This was the first time that Hornet B/G has been flown to ZOG's knowledge, and some new designs turned up, including a 6" span Bumble Bee trimmed in yellow and black magic marker by Bob Singer. The Nantas, however, took most of the places.

The bad weather, alogg with the fact that MARS beat our section once again, leads ZOG to the very biased conclusion that MAYHAN-1 was a flop.

STOLEN COPY

From "Once Upon A Rocket" made up by SSB and found in The Banner.

I am a poor small rocket, Inocently sitting here, When all of a sudden this engine Kicks me in the rear.

From the Tracker, Southland Section in Los Angeles.

"It looks as if the the Great Al American Section Newsletter Contest is well under way. Quite a few NAR sections are really trying to take home that trophy from NARAM this yes US included. And why not?

COPY NEEDED

ZOG 43 is also going for that trophy, but we donpt have a chande unless our members start turning ou some copy for me to print. Articles and plans are needed; bylines are of course given. Let's get moving clu

Bob, where is my afficle about designing those double elipse fins? Paul, what happenned to that chart boost/gliders that you promised?

ZOG 43 is an official publication pi the NARHAMS section of the NAR. is sent free of charge to section and sections who send us members their newsletter. Others may receive ZOG 43 by sending the editor a stamp for each issue with their address.

Editor - Andy Elliott Cartoonist - Bruce Blackistone

Special thanks to Carl for the MIT article.

WAMARVA-1 REPORT

WAMARVA cometh, and the kid, who still thought that competition should CENSORED, decided not to build one rocket for the meet. He d decided that rocketry was still only his hobby, not an obligation and the idea was to enjoy it, not to work it to death. He slopped together pieces of three different birds to fly in Egg Lofting with two "C's" and got third place with over 240 meters. He then took the body of the egg lofter and stuck on a nose cone and a 24th parachute and won P/D. He even got to track with the new Singer Scope.

My enchantment with rocketry has been totally reinstated, more than anything by the over 90% track. I hooked my glider back up on the wall and have decided to build a perfectly finished fleet of new rockets for the next section meet and the Nationals. R&D projects are again swirling through my head, designs are appearing for Open Payload and Plastic Model. I just have this feeling lurking in the back of my brain that Hung is again on my side.

MATIONAL OS NEWS

The events are finally finalized for NARAM-11, to be held 11-15 August 1969 at the Air Force Academy in Colorado Springe, Colo. Entry forms have been sent to most members of the Association. Remember that these are due in to William Roe, the C/D at the

latest 11 July 1969.

Two discrepancies that ZOG noticed in the application: One I am very happy with, that the eggs will be BT-60 size, but I wish them the best of luck finding 100 Grade A eggs over 2 ounces that will fit that tube. The other is that Will says, "accumulated contest points for the year will not be the only basis for selection," butthere is no space on the entry blank to fill in any other qualifications one might have.

WAMARVA cameth and ZOG extends its heartiest congradulations to the MARS section for a very smoothly run contest. Although over 120 people returned their applications, ZOG estimates that not over 90, if that many, people actually showed up. Even so, the processing ran exception ally well. The first event, Design Efficiency, showed that ther were many more people there with last names in the A-M category than the N-Z category, as the lines were originally divided up. After this event the alert MARS staff changed the way the alphabet was divided and there no problems for the rest of the meet

Tracking, as stated before, was excellent, to the point of magnificent, with the help of experienced trackers and the Singer scope. doesn't know who was at troking 1, but thanks go to him and Larry Lutz who was at tracking 2. The winning Design Efficiency was over 80, a veryhigh standard, although the Egg Loft altitudes were comparitively low due to the ban on "F" engines. It was, however, a good prelude to the Nationals, where "Fos" are also banned.

The sun came out during the P/D event and there was a constitent thermal that drifted downwind in the

base housing.

Sunday, the cloude were ominous during Sparrow B/G, Scale and Space Systems, and the rain finally came, forcing the cancelling of Spot Landing. Because of the heavy cloud cover, B/G times were only fair.

The two highlights of the meet came Sunday (aside from the tracking) First, a crew from Life magazine was there taking pictures and comments from the rocketeers. The other was the awards ceremony. There were so many trophies it felt like the Nats.

All in all, it was a good meet that ran like clockwork. Way to go

(Ed. Note: This should more properly be called a reaction to "AAM Scratched" which appeared in the last ZOG 43. The copy is made up of excerpts from two letters received from George Flynn and Carl Kratzer. It is nice to know that someone really reads ZOG.)

"...more members contacted preferred to stick with American Modeler, if it would give more coverage to model rocketry." This seemed to us to be an impossibility last spring when we decided to organize the magazine. Since that time, AAM has abandoned Harry os column and the promised replacement with a series by Jim Barrowman has not appeared. Furthermore, the badly needed technical articles, necessary to stimulate the development of the hobby have been neglected by AAM. Harry Stine informed us that the rules set down on his column were "no equations, no graphs, etc." This magazine came about because we decided that the scope of model rocket coverage possible in AAM could never meet the needs of the growing model rocket field."

NAR material p./issue 2-3 6-8 non-NAR rocketry 3-4 32-40 rocketry ads 1 3 1.5

"Andy...does not appear to sealize that if AAM did receive these articles...they would probably not publish any more rocketry material... because the amount of model rocketry advertising and NAR circulation does not warrant any increase; in fact, it warrants a decrease."

mTo be frank only those NAR members who also have a keen interest in model aviation (the editor pleads very guilty) could possibly prefer AAM over MR."

"Model Rocketry is not an M.I.T.
publication; it is published by a private corporation...George Flynn and
George Caposaso do not "represent the
controlling interests" of the magazine. I know of at least seven stockholders in the corporation."

(The opinions stated herein are those of the editor alone, who has been in rocketry for 42 years, which helps to explain what is going on.)

In the beginning, ther was a poor little kid, 11 years old, who wanted to be rocketeer, so he bought an Astron Mark, a piece of 1/8 inch music wire, a six volt lantern bate tery and some engines. He had a lot of fun going up to the schoolyard and firing off his great piece of workmanship in front of his friends. Then, one day, at the field where he always launched, NARHAMS showed up for HQSM-3. Doug Frost expounded the virtues of the Association and the kid joined and had even more fun with other guys who liked rockets too.

But then came HQSN-5. By this time the kid thought that he might go into contest work, so he dug up some rockets that would work in the events that were being held. Lucky he was and he won Hawk B/G with a Space Plane. By the time ECRM-1 appeared, this kid had about ten rockets in flying condition. So he brought them to the meet and lo and behold, he came second overall?

Thinking he was becoming something of a rocketeer, he decided to build a few rockets especially for the events at ECRM-2. His payloader didn't get tracked, his B/G pranged and his chute duration floated out over the end of the world.

The kid was now in high school, and was considered a old-timer by the newer members of NARHANS. At this stage he'd learned the Thermic trick, the Conner method of finishing and secret of getting a parachute to make its own thermal. At the next meet, his altitude birds worked so well, the

trackers couldnot follow them, his beautiful Thermic rode its thermal far off into the distance and his P/D followed that. The very disenchanted modeler cursed model rocketry for two weeks, wherein he retired to the relaxation of flying his R/C 6 foot glider.

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