



VOL. VI No. #3

February 1970

#### ECRM-4

For the fourth year, NARHAMS is holding its annual East Coast Regional Meet (ECRM). This year it will be on April 10, 11 & 12, again at Camp A. P. Hill, Bowling Green, Virginia.

This year, in an effort to allow the meet to run at a more leisurely pace, NARHAMS has decided to limit the number of contestants to 70 (seventy) persons. It has been decided to do this by inviting only the following sections to compete:

Annapolis Assoc. of Rocketry  
NAR Capitol Area Section  
Star Spangled Banner  
Gemini  
Steel City Section

In addition, any person who does not belong to an NAR chartered section is invited and should contact Jim Barrowman, 6809 97th place, Seabrook, Md. 20801 for an application.

The events for ECRM-4 are:

- (1) Class 0 Altitude
- (2) Class 1 Chute Duration
- (3) Egg Lofting
- (4) Swift Boost/Glide
- (5) Hawk Boost/Glide
- (6) Scale

Housing will be at a Quality Courts Motel in Port Royal, Va. with up to four people in a room at \$4.50 each. Entry fees will be 25¢/event plus a 50¢ meet charge.

#### CONVENTIONS

The editor would like to preface this article with a reply to the lead editorial in the January issue of MRM. It was asked why the WAMARVA area sections do not hold a yearly convention; the answer is just another question, "Why don't the convention sections have more contests?" The WAMARVA have not found need for a general type gathering, since there is a lot of information passed around at the many contests we hold. In addition we are holding special purpose symposiums on relevant subjects to us.

The M.I.T. Model Rocket Society is holding its Third Annual Convention this year on 3-5 April. As usual, this convention will be on a slightly higher level than the Pittsburgh convention and in addition to the normal activities, it will feature many technical presentations. For info, write to:

Convention Chairman  
MIT Mod Roc Convention  
MIT Branch PO Box 110  
Cambridge, Mass. 02139

For the fifth year in a row, making it the oldest convention in the country, the Steel City Section will host the Pittsburgh Spring Convention. This gathering, to be on 20-22 March will cover a very large cross section of the hobby. It will also include two banquets. Further information may be had from: Alan Stoltzenberg, Convention Chairman, 5002 Somerville St., Pittsburgh, Penna. 15201

The WAMARVA sections, NARHAMS MARS and SSB will hold a contest symposium on 22 February at Goddard Space Flight Center, Greenbelt, Md. from 1130 to 1800 hours in the Bldg 3 Auditorium. It will cover how to set up and run smoothly range meets.



## ZOG GOES DITTO

Following an extremely short sojourn in the realm of the lithograph (1 issue), ZOG 43, as is obvious to even the most casual observer, has returned to the ditto machine.

This was due, in toto, to a loss of a means for lithographing free, i.e. one of our members quit his job. This may seem to many readers to be a step backwards, however the staff reminds them of the great sentimental value of the traditional smudged and illegible copy.

Despite all suggestions to the contrary, the newsletter will continue to be published whenever it is possible.

## MONTHLY LAUNCH

NARHAMS decided near the end of November to have at least one launch each month. In accordance, we have so far conducted two monthly launches in December and February. The one scheduled for January was snowed out.

These launches are held on the first Saturday of each month at the Antenna Range at Goddard Space Flight Center. They have been well attended, with about 20-25 people showing up each time. This seems to prove the value of the program.

The club had talked about having a monthly launch ever since it was formed, so that the members would have a chance to do the thing the club was formed for, FLY. Now that the program is in effect, we merely say that it was about time.

## NEW NAR ADDRESS

As most of you know, the NAR has moved. The new address is:

Box 178

McLean, Va. 22101

## ROMAC WORKSHOP

Bill O'Brien

On November 29, 1969, the first real attempt to fix the NARHAMS range equipment this contest year was made. Several people arrived early at Bill O'Brien's house and played football until the rest arrived. We then retired to the basement and took the equipment out of its six-month long hibernation.

First it was laid on the ping-pong table (of course, all NARHAMS workshops have ping-pong tables) and then hooked up. However, somehow (best left unexplained) the battery clips were attached in reverse and the amplifier was burned out.

The launch equipment was checked out by Chad Loeb, Dave Lewis, Rob Abramavago and myself. The clips were cleaned and everything was found to be totally functional (a miracle). The headsets were looked over by Ted Coughlin and Bruce Blackistone. A new continuity light was put in the panel and it can now be seen without cupping your hand over it and guessing if it is on or not.

After packing the equipment away, Bruce told of his antics with the Newsletter Trophy (best left unexplained - Ed.) and of his scale model of Stonehenge. We then settled down to a mixture of football, soccer, speedball and maulball, mostly maulball (we lose more members that way).

The great light in the sky disappeared and all left to meet another night.

## INTERNATIONALS

An international model rocket competition will be held this year on 22-25 September in Vrsac, Yugoslavia. Team selection is probably completed by now. Events will be FAI Chute Dur. (5 nts.), Swift B/C and Scale. Spectators are welcome.



## NATIONALS NEWS

It has been decided. NARAM-12 is going to be held on 17-21 August, 1970 in (are you ready?)

HOUSTON!!!!!!

That's right, the next national meet is going to be held in the Astro-World in Houston, Texas. It is not the Astro-dome, but is very near to it. Costs and housing and travel arrangements are not known yet, but the events will be:

- (1) Class 1 Chute Dur.
- (2) Design Efficiency
- (3) Sparrow B/G
- (4) Swift B/G
- (5) Space Systems
- (6) Scale
- (7) Open Spot Land.
- (8) Egg Lofting
- (9) Research and Development

This seems like a long way off now, but it is getting closer every minute. Start building today. ZOG will have more details as they are released.

Stine  
(203) 966-9254

## RECORD TRIALS

NARHAMS has been invited to attend a record trials by the NARCA's to be held on 15-17 May 1970. As far as we know, this will be the only one of the events will be flown. Save the weekend now, it should be a lot of fun. The categories that will be flown are:

Egg Lofting  
Class 1 P/D  
Pee Wee Payload  
Design Efficiency  
Hornet B/G  
Condor B/G

The Condor competition should be interesting, since the high engine allows many gadgets to be attached to the glider, including R/C and dethermalizers.

## CALENDAR

12 February - Regular Meeting  
 22 February - Contest Symposium  
 27 February - Regular Meeting  
 7 March - Monthly Launch  
 13 March - Regular Meeting  
 20-22 March - Pittsburgh Convention  
 27 March - Regular Meeting  
 4 April - Monthly Launch  
 3-5 April - M.I.T. Convention  
 10-12 April - ECRM-4  
 24 April - Regular Meeting

All Meetings are at 2000 hours  
 at the Chevy Chevy Library. All  
 launches are at 1300 hours at the  
 Antenna Range. Let's get out and  
 come to club activities .

## COX ROCKETS

L. M. Cox Manufacturing Co.  
 has released a set of new, ready-  
 to-fly rockets and engines. I be-  
 lieve that the rockets come together  
 with three engines and so are not  
 certified or approved.

The following parts have been  
 on sale since November and more  
 should be released soon:

Honest John.....	\$4.50
Little Joe.....	3.98
Nike Zeus.....	
Nike Zeus .....	4.98
(all plastic)	
Astra Launch.....	4.98

The engines are sold in blis-  
 ter packages of three, all at three  
 for \$1.00. These are available:

A6-0, -2, -4, -5  
 B4-0, -3, -5, -6  
 C6-0, -4, -6, -7

Stores in our area are not yet  
 carrying these supplies, but they  
 may be had from the manufacturer.

## STING A SONG OF SONGS

This song(?) was written by  
 Steve Kranish. Inspired by person-  
 al observations, the tune is the  
 Battle Hymn of the Republic.

With apologies to Lee Piester:

### The Mini-Max

My eyes have seen the glory  
 Of the blowing of the Max.  
 First it ruined all the rockets,  
 and it then destroyed the racks.  
 The nose went flying skyward  
 While the tail stayed on the ground  
 And the pieces flew all around.

(Refrain)

Glory, glory Halleluyah.  
 Altitude was with a ruler.  
 The wreck came roaring down  
 And when it hit the ground  
 The pieces flew all around.

My eyes have seen the glory  
 Of the blowing of the Max.  
 The first time that I saw it,  
 It had left two burning racks.  
 The body tube exploded  
 As fins floated out of sight,  
 And the remnants crashed that night.

(Refrain)

### Bob Singer Lives!

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

Editor - Andy Elliott  
 Head Writer - Andy Elliott  
 Printer - Andy Elliott  
 Cartoonist - Bruce Blackistone  
 Special thanks to Bill O'Brien.



$\diamond PM: 4PbS; RF: RRM \diamond$   $\circlearrowright$   $NMT: PM: RBM: PMAIX: KMP: TO: PM: NFMKMLX: TO: MH: RM: ATRK \circlearrowleft$