



ZOG 43

Volume 6 Number 4

GALA CHRISTMAS ISSUE 1970

MEETING DATES AND LOCATIONS

Paul Conner, NARHAMS president, was finally able to locate meeting rooms for the next few meetings:

- 18 Dec 1970 Kensington Park Library
- 8 Jan 1971 Chevy Chase Library
- 22 Jan 1971 Chevy Chase Library
- 5 Feb 1971 Chevy Chase Library
- 19 Feb 1971 Kensington Park Library
- 5 Mar 1971 Chevy Chase Library
- 19 Mar 1971 Kensington Park Library
- 2 Apr 1971 Chevy Chase Library
- 16 Apr 1971 Kensington Park Library
- 30 Apr 1971 Chevy Chase Library
- 14 May 1971 Chevy Chase Library
- 28 May 1971 Chevy Chase Library
- 11 Jun 1971 Chevy Chase Library
- 25 Jun 1971 Chevy Chase Library

Meetings start at 2000 hours.

ECRM-5

ECRM-5, the annual NARHAMS regional will be held on 16, 17, 18 April 1971 at Camp A.P. Hill, Virginia. The meet is open to anyone. The events are:

- Scale Sparrow B/G
- Swift R/G
- Hawk B/G
- Class 1 Parachute Duration
- Class 2 Streamer Duration
- Parachute Spot Landing

Application requests must be postmarked no later than 15 January 1971. Bulk requests must be accompanied by a list of names, addresses, and NAR numbers of those wanting applications.

Contact Doug McMullen
7008-23rd Place
Hyattsville, Maryland 20783

or Jim Barrowman
6809-97th Place
Seabrook, Maryland 20801



AGAINST THE FUNNY MEET

In the December 1970 issue of Model Rocketry magazine, a "funny meet" was described. This meet was one where rocketeers flew events in complete opposition to the Pink Book rules. A few typical models were shown in photographs. These models were essentially GARBAGE.

Such contests are completely against the fundamentals of the FAR. The FAR is supposed to help improve the workmanship and design of rockets, by holding competitions. At the "Funny Meet", the participants intentionally build trashy and probably unstable rockets. Thus my main point: the main purpose of the FAR is to stress safety. Here, FAR members gathered to fly models which they had no idea about the stability. Also the idea continued on Page 4

NAR APRIL 1971
NARHAMS and SSB members stuffed all those renewals that were received by FAR members recently. At the regular meeting on 4 Dec. 1970 the NARHAMS section stuffed and sorted renewals until we ran out of several things.

And on 6 Dec. 1970, 15 NARHAMS and four SSB members gathered at (invaded?) Jim Barrowman's house to stuff and sort the remaining applications. We worked from 13:00 to 16:00, when we stopped to have a home cooked chili and hot dog dinner, cooked by Judy Barrowman, and watch the Redskins get creamed (too bad, Paul). We finally got back to work at 17:30 and continued to work until 20:00, when we finally finished. (It almost finished us!)

* * *



THAT NAME

SCALE SERVICES

Due to continuing requests, the ZOG ed once again presents an explanation of where the name "ZOG 43" came from:

For a very minimal fee, Scale Services will find all sources of data available for your model.

Would you believe that ZOG-43 actually means something? It all started with ole Ed Pearson, who was the NARHAMS first president. He lives at 43rd Avenue and the last two digits of his phone number are also 43. Ed became suspicious when he saw the number 43 in other places too. Do you remember the TV jingle "You get 43 beans in every cup of" (The name of the coffee company has been deleted because they did not pay for advertising). He also noticed 43 in drug stores and many other places. The number 43 was interesting to Ed, but due to research into the origin of ZOG-43 by our research staff, we bring you the latest in ZOG-43 derivations.

We will also send for your data from the manufacturers which we have found for an extra few pennies.

Contact

Doug McMullen

422-7652



"43" is a phenomenal astronomical term. The entire term ZOG-43 was presented as a possible name for the section newspaper and won the vote because of its clever and paradoxical ring of nothingness! The word or term was a mystery to Ed, who invented the term. He said that it doesn't mean a thing, and that is the beauty of it.

PLASTICS - GOOD OR BAD

As with any question today, the answer to this one is not a simple yes or no. The outright positive or negative to this wide open field is not possible. So lets be a little more specific.

Plastic materials have been used almost since the beginning of the hobby. Model Missile's sold plastic nose cones and fin units. Centuri and Estes later on used plastic to make parts for their scale kits.

More recently, Competition Model Rockets has marketed some highly sophisticated nose cones, fins (individual) and egg capsules made from plastic. All of the above have been veneficial to the hobby and can be used with some success and without an increase in the hazards in the hobby.

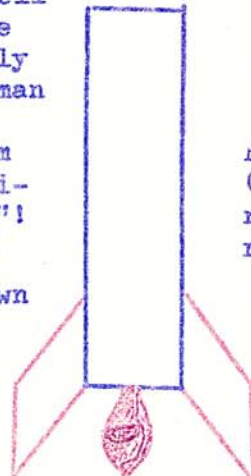
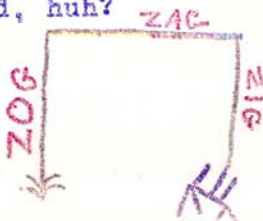
But would you believe that ZOG is a handy abbreviation for a well-known rocket term. This term is known today under a different abbreviation. Well it's true! Doug Frost was only one of many who heard the late Dr. Willy Ley (the vice president of the German rocket society until World War II) explain at NARAM-6 that the problem with the German V-2 was its' "divviculties with its Zenter of Gravity"!

Another explanation of the term "ZOG", the more common one, is shown in the drawing below. Thus:

A ZOG is the third and final step of a prang.

Zog is also the name given to the NARHAMS President, particularly during elections. (And therefore the V.P. is called Vice-ZOG.)

Clear as mud, huh?



2

But recently two major companies (M.P.C. and Cox) have been selling ready to fly or almost ready to fly rockets that do increase the overall hazard of flight. These vehicles are almost entirely made of plastic and by one of the heaviest techniques, injection molding. These rockets

- continued -



A STUPIDITY OF DEMON

A STATISTICAL ANALYSIS OF R+Ds

ABSTRACT

To determine just where, how, and when our hobby is going. Furthermore, to establish a reference for cool and scientific looking equations to write on the blackboard and to impress your Math teacher with.

I first reasoned that human behavior, like everything else, can be expressed in a series of mathematical statements. This can be done when a pattern emerges. Getting back to our original purpose, model rocketry is progressing toward simplicity (example, more math). To trace this development, consider my first rockets. I used what I now call Paul's Probability Perturbations. If I went to great lengths to make a rocket stable, I would say "Well, its got a mess of fins and the engine is pointing down. What more could you want!" Here the randomness (or entropy) was greatest. Later (much later) stability was assured by saying, "It balances a little in front of the fins, it must be stable." (Beginning to sound familiar?) Don't get the idea that just saying it like a magic incantation would make a rocket built by the P-cubed (Paul's Probability Perturbation) method stable. It had to be true.

Later still, when a few pioneers (like Bob Singer--sorry, for getting you involved in an article like this, Bob) started to design for efficiency, the double elliptical fins were born. (Remember the song "M-I-C-K-E-Y--M-O-U--etc.?")

Now, skipping recent developments like the Barrowman CP Method, the Malewicki performance graphs (secretly called the handy-dandy secret code and mind-mixer-upper₂ book) and other cool stuff like $B=1/O^2$ (thanks, G. Harry, I liked that article and it helped my theories) and on to the most recent Barrowman Brilliancy ($B^2?$), elliptical fin equations! (see ZOG43, vol6 #2)

Conclusions

Now I come to the reason for writing this. It's so I can get my first law printed. I logically call it Forden's First Law. And here it is: There is an equation for everything, and everything there is an equation. And my second law called Forden's second law is:

(continued in next column)

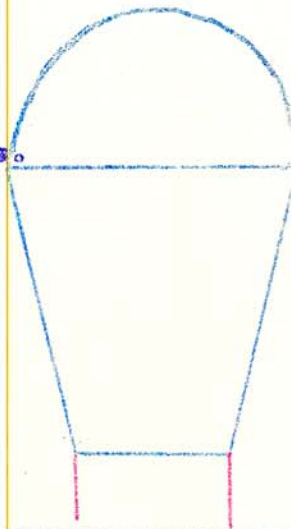
EGG COMPARTMENTS

High quality, low weight
balsa egg compartments
made to your specifications.
Satisfaction guaranteed
Minimum cost \$1.00.

Contact

Doug McMullen

422-7652



(R&D-continued...)

Every equation has a purpose, and every purpose has at least five equations. All responses, bombs, threats, etc., are welcome. Write to: 7402 Glenside Dr. Takoma Park, Md. 20012

---GEOFF FORDEN
MAR 6907 JMR

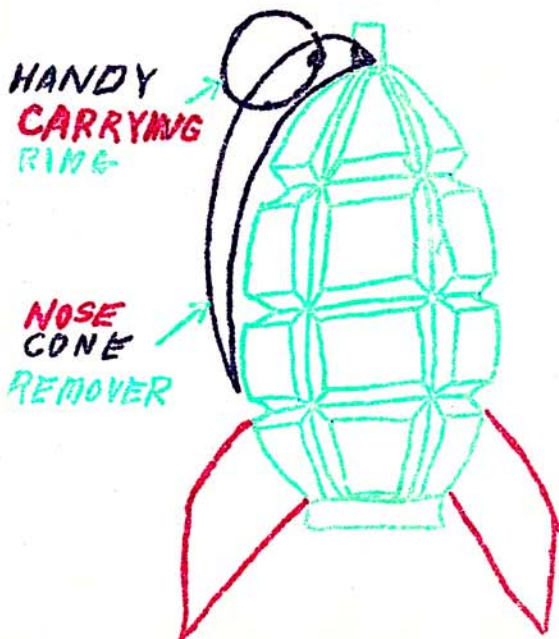
Plastics-continued from page 2
in their ready to fly state are very heavy by today's standards, and are a much harder material. Also, they are very fragile. They are in some cases tougher than their paper and wood counterparts, but due to their heavier weight they break very often, even on grass. The worst danger is their ability to do damage. I have seen paper and balsa models strike cars and other objects (including people) without any apparent damage, but I have seen two all plastic models strike cars and do quite a bit of damage. I would not have liked to have been hit by one of these vehicles, for I would have been severely injured.

In my opinion, plastics have a definite place in our hobby, but completely plastic vehicles present a greater than acceptable danger at this time. At the Pink Book revision meetings I was glad to see Plastic Model discussed at great length, and put in its proper place. In my opinion, completely plastic models should be banned from competitions of any type. I hope that no accidents occur during this present period of experimentation that will jeopardize the hobby as a whole.

-Paul Conner
EAR 5787

The above is an editorial, and the opinions expressed within are those of the author, and don't necessarily reflect club policy.

INTRODUCING THE LEAD GRENADE BY BALLISTIC AERO-MODELING



HANDY
CARRYING
RING

NOSE
CONE
REMOVER

SUGGESTED COLOR
PATTERN : OLIVE DRAB

NEW, FROM B.A.M., A
MULTIPLE PAYLOAD (M.P.V.)
ROCKET. THIS ALL PLASTIC
COMPETITION ROCKET REQUIRES
ONLY 2 HANDS AND 10 SECONDS
TO BE READY TO FLY AND
HAS THE ABILITY TO CARRY
6 MAR. PAYLOAD WEIGHTS
SHATTER YOUR FRIENDS BY
BEING THE FIRST ON YOUR
BLOCK TO GET ONE.

ONLY \$15.95

CAN ONLY BE SENT BY AIR MAIL EXPRESS

7

Beware of the BLACK MONOLITH MONSTERS!!

BITS AND PIECES

According to the BARS MODROC FLYER:

G. H. Stine and his colleagues have put together another model rocket organization in the mad, mad, mad, mad world: the IPRS. Namely, the International Plastic Rocket Society. Members can be identified by a 3" diameter protest pin on their body. We aren't exactly sure of the purpose of the new organization, but we feel safe to guess that it is on the same line as the now infamous WARHAMS (yeah us!), Royal Order of Buzzards and Ravens.

Actually it's amazing: about 20 WAR members showed up at Jim Barrowman's house to spend most of a Sunday stuffing envelopes just to help the WAR.

Andy Elliott's phone number should be:
617-491-9463

Ha, ha, fooled you, there aren't any Bits and Pieces in this column!

ZOG 43 is an official publication of the WARHAMS section of the WAR. All correspondence should be sent to: 3611 Taylor Street
Chevy Chase, Md. 20015

Funny meet - from page 1 of flying such junk gives spectators a bad impression of model rocketry. (Gee, all you have to do is stick an engine in something and hope it works!)

Although models with many of the same characteristics (3 sec. B/G, 7 sec PD, etc.) are seen at any normal competition, at least they are intended to work, but fail to do so, while at the "funny" meet the model is supposed to fail, making them unsafe and useless.

Atilla of WARHAMS will not be seen this issue, because Bruce was too lazy to do one.