

# ZOG 43

MARCH 1968

Vol. 8 No. 4

## N A R A M 10

National Association of Rocketry Annual meet 10, will be held this year the week of August 19, 1968, at the Wallops Island Station in Virginia, the same location as a previous NARAM.

CONTEST DIRECTOR of NARAM 10 will be Mr. James Barrowman, the senior advisor of our section.

Events at the NARAM will be:

Research & Development  
Egg Loft  
Scale  
Open Spot Land  
Hawk B/G  
Sparrow B/G  
Class I P.D.  
Space Systems  
Class II Scale Altitude

According to Mr. Barrowman no one section (of the 7 sections in the area) will be sponsoring the contest but it will be supported by all of the sections of the WAMARVA group.

## STATE OF SCIENCE EXHIBIT

An exposition on the state of American science more than ten years after the beginning of the Space Age will be held May 22 through May 26 at the Baltimore Civic Center.

Besides space, exhibits will show developments in oceanography, medicine, geology, nucleonics, transportation, communications, agricultural science, physics, biology, electronics statistics, and atomic energy.

Many of the exhibits will trace the effect of these developments on everyday living of the average individual.

## NARHAMS HOLDS SCALE SYMPOSIUM by Andy Elliott

On Friday, February 2, NARHAMS held its first scale symposium for the purpose of checking the validity of untried scale data, and for the relating of some of the finer points of scale modeling.

The meeting was headed by a short period of business. Then George McMullen, Paul Connor, and Ed Pearson proceeded to explain how to obtain scale data, how to build the model and finally, how to present the data and model to the judges.

After these very interesting talks, we broke up into groups to examine substantiation. Many people were surprised to find that most of their substantiation was either incorrect, irrelevant, or invalid.

Even though our phone tree didn't get through, we had almost 100% attendance. Some old members, long off the books, returned to enlighten the evening. At the end, the symposium was unanimously acclaimed a success. It is hoped that similar activities will be held before the coming NARAM.

## B U S I N E S S

In order to promote more order and less chaos at meetings the following ORDER OF BUSINESS for section meetings is being made available to all members of our section.

1. Call to order
2. Roll Call
3. Reading of the Minutes of the last meeting.
4. Committee Reports
5. Old Business
  - a. From the Minutes
  - b. From the members
6. Correspondence
7. NEW BUSINESS
8. "Gripes, Grumps, & Suggestions."

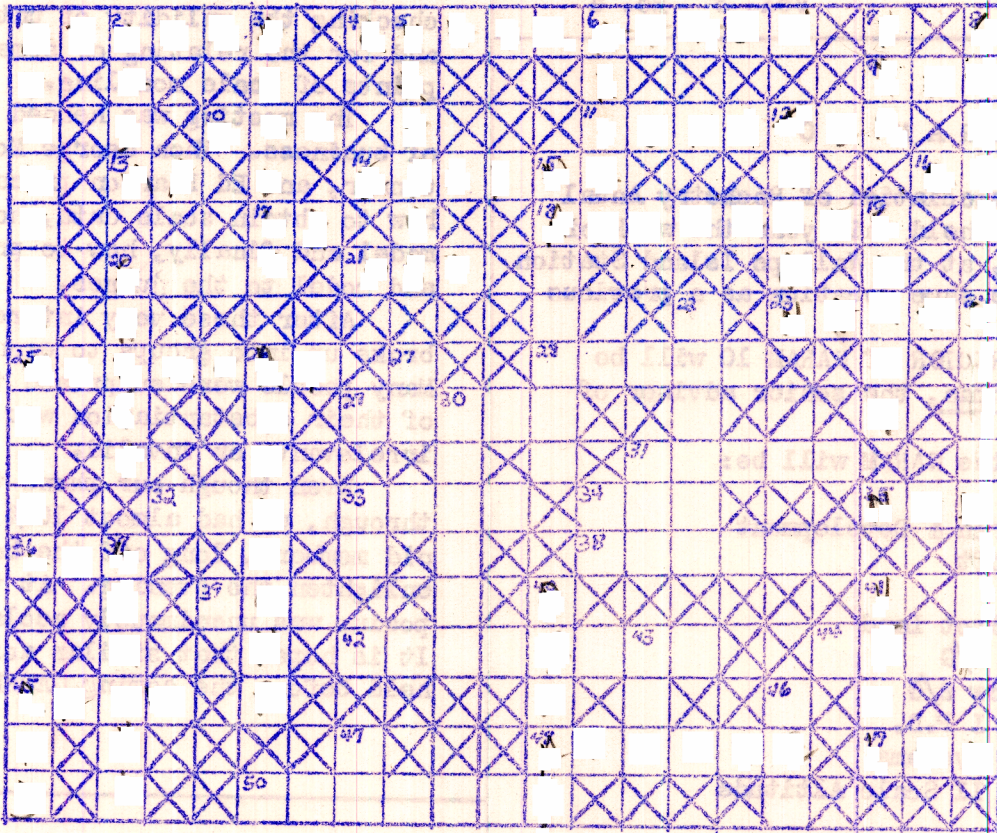
It is hoped that all members will read this list and remember it during our regular meetings, so they may proceed smoothly and quietly.



# CROSSWORD PUZZLE

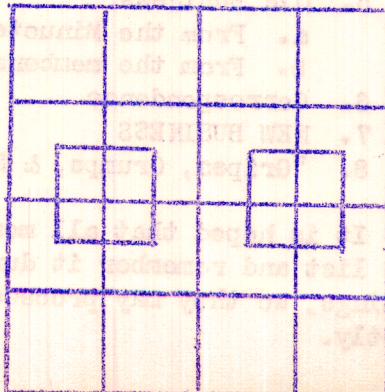
by Chuck Gorden

Almost all of the words in this puzzle have to do with rocketry, either professional or model. Clues will be found on the next sheet.



## Answers to the last Puzzle Parade

There are 40 squares in the figure shown below from last issue of the ZOG 43.



Below is a diagram of the solution to this figure from last time. All rules have been followed.





# CLUES TO THE CROSSWORD PUZZLE

## A C R O S S

- 1 - ZOG 43 comis hero
- 4 - New 4-in-1 contest
- 9 - Automatic Picture Transmission (abv)
- 10- President of NARIAMS (Title)
- 11- Used to start engines
- 13- Opposite of Pa
- 14- The propulsive unit of a rocket
- 16- Center of Gravity (abv)
- 17- Los Angles (abv)
- 18- Canada's first satellite
- 20- Microwave reflection satellite
- 21- Orbiting Solar Observatory (abv)
- 23- NAR Technical Services (abv)
- 25- One man space mission
- 28- Booster of the answer to # 25
- 29- National Meet
- 31- Path of a satellite
- 32- Cone shaped leading end of a rocket
- 34- Orbiting Geophysical Observatory
- 35- National Aeronautic Association (abv)
- 36- Launch
- 38- We fly Model \_\_\_\_\_s
- 39- Liquid Oxygen (abv)
- 42- Lunar soft lander & surface analyzer
- 44- Tel \_\_\_\_\_ communications satellite
- 45 - #36 Fits over the \_\_\_\_\_
- 48- Farthest point of an orbit
- 49- Leader Administrative Council (abv)
- 50- Cape \_\_\_\_\_

## D O W N

- 1 - \_\_\_\_\_ Unit (AU)
- 2 - Inter-continental Ballistic Missel (abv)
- 3 - Three man space mission
- 5 - Seventh planet from the sun
- 6 - First international satellite
- 7 - National Association of Rocketry (abv)
- 8 - The booster is in a lower \_\_\_\_\_
- 12 - Booster for the two man mission
- 15 - Name of this NAR section
- 19 - Opposite of late
- 20 - Third planet from the sun
- 22 - Batman's rocket
- 24 - Long recovery device
- 26 - Booster of the first successful NASA flights
- 27 - Bachelor of Arts (abv)
- 30 - Soft landing moon probe
- 31 - Orbiting Geophysical Observatory (abv)
- 34 - Word used to express a choice
- 38/40 The non-burning powder in a M.R. engine
- 37 - Two man space mission
- 41 - Verticle Take-Off and Landing (abv)
- 43 - Orbiting Astronomical Observatory (abv)
- 45 - Pink minus (-) white
- 47 - Opposite of off.

## W H O O W N S T H E Z E B R A ?

Below you will find one answer to that question. There are many more.

| nationality | Norweigian | Ukranien      | Englishman | Spaniard  | Japanese   |
|-------------|------------|---------------|------------|-----------|------------|
| color home  | yellow     | blue          | red        | ivory     | green      |
| pet         | fox        | horse         | snails     | dog       | Z E B R A  |
| cigarettes  | Kools      | Chesterfields | Old Gold   | Lucky's   | Parlaments |
| drink       | W A T E R  | tea           | milk       | orange j. | coffee     |



## ECRM - I I

The East Coast Regional Meet #2 will be held April 20-21, 1968, at Camp A. P. Hill, Virginia.

All NAR members in Maryland, Virginia, Washington D. C., Pennsylvania, and Delaware will be invited to apply as contestants. Between 60 and 75 will be accepted.

Notices will soon be mailed to all NAR members in these areas.

## S U C C E S S

The WAMARVA symposium, first activity of its kind, sponsored by the Randallstown Rocket Society, was a very big success.

Model Rocketry, building and flying, was discussed in a series of lectures given by members of all of the sections.

There were over 100 spectators to the symposium with many from groups not as yet chartered.

Ultimately the symposium was considered an enjoyable and profitable activity by all those attending.

## DEMONSTRATION FOR CUB SCOUTS

On Saturday, February 10, model rocket demonstration flights were given by Mr. James Barrowman of NARHAMS and Mr. James Kukowski of the U.F.O. section, before a group of about 1,000 Cub Scouts. While the flying was good, the landing, due to the 10°-20° weather, was very bad, and four out of the seven rockets launched broke up upon hitting the frozen ground.

FOR SALE Five C.8-O's. Six months old and unused. Best offer accepted. For information call John Hunter; 474-1153

## BITS & PIECES

Orders are now being taken for NARHAMS jackets. If you would like to find out more about it, contact Ken Guthrie right away.

\*\*\*\*\*

New Phone Tree Printed. A new up-to-date phone tree has been published. It will be given to all members and goes into effect immediately.

\*\*\*\*\*

Stop watches have been bought by the Range Operations and Maintenance Committee. The two have an accuracy to 1/5 of a Second and they will come in real handy for the many contests coming up this spring.

\*\*\*\*\*

The Transportation Committee has put out a survey to determine the location, on the map, of all of the members of our section. This will help greatly in organizing transportation for members to meets and meetings.

## STAR TREK - IN OR OUT ???

Star Trek, that space age series that "everyone" likes so much, may not stay around much longer. The NBC network has been thinking about taking it off the air real soon. There is a 50-50 chance that it will be definitely taken off.

What do you think? Do you want to keep on watching or not? If you still want it to go on how about telling someone. If you are willing to use one 6¢ stamp then write a letter to:

Mr. Julian Goodman  
President NBC  
50 Rockefeller Plaza  
New York, New York 10020

Tell him what you think. Remember, every little bit helps.



## HONORARY MEMBERS

The title of Honorary Member is one of the types of membership provided for in the section constitution of NARHAMS.

As of this time there are four Honorary Members of our section. They are (in the order they were elected) : Doug Frost, George McMullen, Jan Blickenstaff, and Bob Wallace.

Doug, George, Jan, and Bob, although inactive now, were all very active when the club was just starting and helped, among others, to really get it going. They are all very worthy of this special section honor.

A complete record of the history of these members will, hopefully, be made available to all members very soon.

## CHANGES

### PHONE TREE Changes:

New phone tree how being distributed. Be sure to keep it up-to-date at all times.

### ROSTER Changes:

#### New name and address:

Duck, Sheila  
5617 Seminole Street  
Berwyn Hights, Maryland 20740

#### New name and address:

Franklin, Greg  
210 Whitestone Road  
Silver Spring, Maryland 20901

## SCALE

Many sections are now compiling data for small booklets giving scale information and plans for the inexperienced modelers.

These booklets will contain plans, sources, directions, and building hints.

This information, when it becomes available, should improve greatly the number of people entering scale events and the quality of all scale models. (Against greater competition modelers must build better models.)

It is hoped that many of these booklets will be published and made available to all NAR members very soon.

The Editor of ZOG 43 invites the members of NARHAMS and of the NAR to write and submit any articles or information for publication.

#### Send to:

ZOG 43  
c/o Chuck Gordon  
192 Charolette Drive  
Laurel, Maryland 20810

## BUTTONS

## GET 'EM CHEAP

## BUTTONS

Chuck Gordon, your friendly neighborhood button salesman, still has a few NARHAMS buttons available. Get them while they last.

ZOG 43 is an official publication of the National Association of Rocketry Headquarters Astro-Modeling Section

Editor ... Chuck Gordon  
Cartoonist..

.. Bruce Blackistone



# ATTILA of NARHAMS

BY BRUCE BLACKSTONE

W.A.R. CENSOR PD LDR

WHEN WE LAST LEFT OUR HERO HE WAS TRAPPED IN A TRUCK HEADING FOR **BALTIMORE** AFTER BEING SHOT DOWN BY SUPER ZINGER, ONE OF BARROW-MAN'S HENCHMEN OUR HERO IS NOW WORKING ON A MEANS OF ESCAPE.

NARHAMS BALSAM

FRAGILE

NASA COMPUTER DO NOT BEND FOLD SPINDLE OR MUTILATE

IT'S A GOOD THING I HAD MY WAR AXE IN MY UTILITY BELT

USE NO HOOKS

NOSE COMES

BODY TUBES

PRO-ROOM

ENGINE?

OUR HERO SETS TO WORK CHOPPING HIS WAY OUT.

HACK SLASH BEAT CHOP RIP-FLIT

DOWN TUBES

NOSE COMES

END OF PRO-ROOM

THIS QUICKLY EXPEDITES HIS ESCAPE

W.A. RAM

GOOD OLD UTILITY BELT

HIS EYES FALL UPON A STRANGE SIGHT! THE S.S. B. 1-B. (FULL SCALE)

20, 19, 18...

STOP! WAIT! DON'T!

IT WEIGHS MORE THAN 1 Lbs. (500 GRAMS) AND/OR HAS MORE THAN 4.4 OUNCES (125 GRAMS) OF PROPELLANT! DO YOU WANT TO BE DISQUALIFIED?

HE REACHES THE ROCKET

I MUST STOP THEM

CLATTER

YE GADS!

CREEEE WOMP!

CRUSH

A MOURNFUL FIGURE CRAWLS OUT OF THE WRECKAGE

MY SCALE MY SPACE SYSTEMS GOOD

ALL (GNIFF) GONE

OUR HERO WAS JUST ABOUT TO LEAVE WHEN... WEE

WE'LL GET HIM BACK

HUME

ATTILA IS FINALLY APPREHENDED

SO WHAT DO WE DO WITH HIM IRV?

KILL

OR PLEASE

WILL OUR HERO BE KILLED? HAVE I RUN OUT OF SPACE? (NOTICE HOW THE FACES ARE ALL MUTILATED)