

NARHAMS WORKSHOP

Due to the great work of our Activities Committee Chairman, Geoff Forden, NARHAMS held another of its (in)famous workshops. This one was at Jim's house on the 22nd of November and was really great. It started about 7:45 p.m. and just kept on going till well into the twenty-third.

To start it off, Jim showed us his basement and well equipped shop, including a paint sprayer and a drill press. On the shelves of this room, amongst the trophies was the great fleet of Barrowman rockets. On the wall, Jim's old XB-70, a four foot rear-engined boost/monster, was rediscovered, having fallen into hiding since the days of the cow pastures.

Clustered rockets are coming back, especially for Egg Lifting. Bob Singer came up with a challenge for the Black Beast, a 5-foot BT-70 rocket, powered by a cluster of seven C6-5's. It should be a beauty when it is finished. Doug McMullen is running a close second with his Egg Loft bird, also BT-70, powered by a cluster of four D1.12's. Great God! The general trend, however, seems to be back to the well streamlined simple single stager (using only one engine, of course).

Even Ed Pearson came and built a model. Ed is hung on the easy finishing qualities of Mono-(money) kote. It really makes body tubes look good, besides covering the seams very well. Bruce Blackstone revealed a single-staged bird, less than two feet long, for a 10-SECOND "F". The steam machine may yet be shot down.

Jim tried to help me with a program I'm writing for Center of Pressure (see p. 2), but we kept getting run over by Julie Ann on her tricycle. Jim's program was six pages long, mine was less than two!

Continued on back.

Mars - 3

Mars-3 was held October 18, 1968. We went to this contest with high hopes on Friday night, but our hopes were quickly lost when the rain started falling and MARS section started winning. Despite the heavy rain Saturday morning, we went out to fly. After a very wet P/D event, however, we gave up and went back to the hotel.

This left five events to fly on a very rushed Sunday. The ground was damp, but spirits were high. We made a good showing, but were beaten by the mass-produced models of the MARS section. Here are our results:

Barrowman tm. 6883-7489 - 63 pts.
 Pearson 5694 - 63 pts.
 Conner 5283 - 33 pts.
 Mercer, M. 5839 - 162 pts.
 Blackstone 6413 - 78 pts.
 Duck 11967 - 9 pts.
 O'Steen, D. 11630 - 72 pts.
 Elliott 7419 - 48 pts.
 Chaikan 12579 - 24 pts.
 McMullen 6491 - 24 pts.
 Mercer, D. Pend - 24 pts.
 Chapman 12427 - 21 pts.
 O'Brien 12440 - 21 pts.
 Franklin 11746 - 15 pts.
 Lewis 12409 - 6 pts.
 Servatius 9505 - 6 pts.

Total NARHAMS - 669 pts.

MARS - 1035 pts.

Let's go NARHAMS! ECRM-3 is closer than you think, start building NOW!

NARAM-11

Yez? NARAM-11 has been decided, so start saving now. Here's the good news:

what - NARAM-11
 where - U.S. Air Force Academy
 Colorado Springs, Colo.
 when - August 11-15, 1969
 who - William S. Roe, C.D.
 why - Go and find out!

WORKSHOP cont.

Anyhow, the great attraction of the evening (which brought the excellent attendance) was Paul Conner. He finally made people realize that he hasn't been kidding about his finishing methods. He used a 1/4 horsepower motor with a tight tight output for BT-20 and uses adapters for others. As for his nose cones, start with a 25% thinned coat of clear dope, sand, then four or five coats of Pastra Balsa Fillercoat, sanding between coats on the motor. He ends up with 2-3 coats of colored dope. The sandpaper is 400 grit Tri-M-It by 3M. It is silicon carbide and you can get it at Pendleton's or a well stocked hardware store.

At 10:00 we took a break for Star Trek. At 11:00, we were at it again. Almost everyone was finished working, so we cleared off the ping-pong and started to play. As the crowds thinned out, singing could be heard above the crash of Bob Singer's electric guitar. The ping-pong kept bouncing till we couldn't see it any more. We tore Bruce away from the work table (Were you sniffing that glue, Bruce?) and finally left at 1:45 a.m. What a meeting!!

MIT CONVENTION

Officially dubbed the M.I.T. Model Rocket Society 1969 National Convention, it will be held April 4, 5, & 6, 1969. There will be discussion groups, presentation of technical reports and guest speakers. Also featured will be NASA and model rocket movies, manufacturers displays, two banquets and a four-hour launch. For those interested, there will be extensive use of digital and analog computing facilities via teletype and closed circuit T.V. to the lecture halls. For more information and/or an application, write to:

George J. Caporaso
Convention Chairman
MIT Branch P.O. box 110
Cambridge, Mass.

NOTE

The ZOG needs material, so submit anything you have to the editor, Andy Elliott. Thanks.

OFFICIAL EGG

For those of you who don't read your American AIRCRAFT Modeler, there is a new official egg for Egg Lofting. Here are the specs, design your bird accordingly:

"a fresh, Grade A, Large hen's egg with a weight range of 2.00 to 2.25 ounces"
(what ever happened to good old grams?)

Puzzle Parade

A rope over a fence has equal lengths on both sides. On one end hangs a monkey holding a banana, on the other is a wt. equal to the wt. of the monkey. The rope weighs 1/3 lb./ft. and the banana weighs 2 oz./in. The rope is as long as the monkey's age, which when added to his mother's is 30 yrs. 1/2 the wt. of the monkey plus the wt. of the banana equals 1/4 the wt. of the wt. and the wt. of the rope. The monkey's mother is 1/2 as old as the monkey was when it was 1/2 as old as the mother was when she was 3 times as old as the monkey was when it was twice as old as the mother was when she was 1/3 as old as the monkey was when it was 4 times as old as the mother was when she was thrice as old as the monkey was when it was 1/4 as old as it is now. How long is the banana?

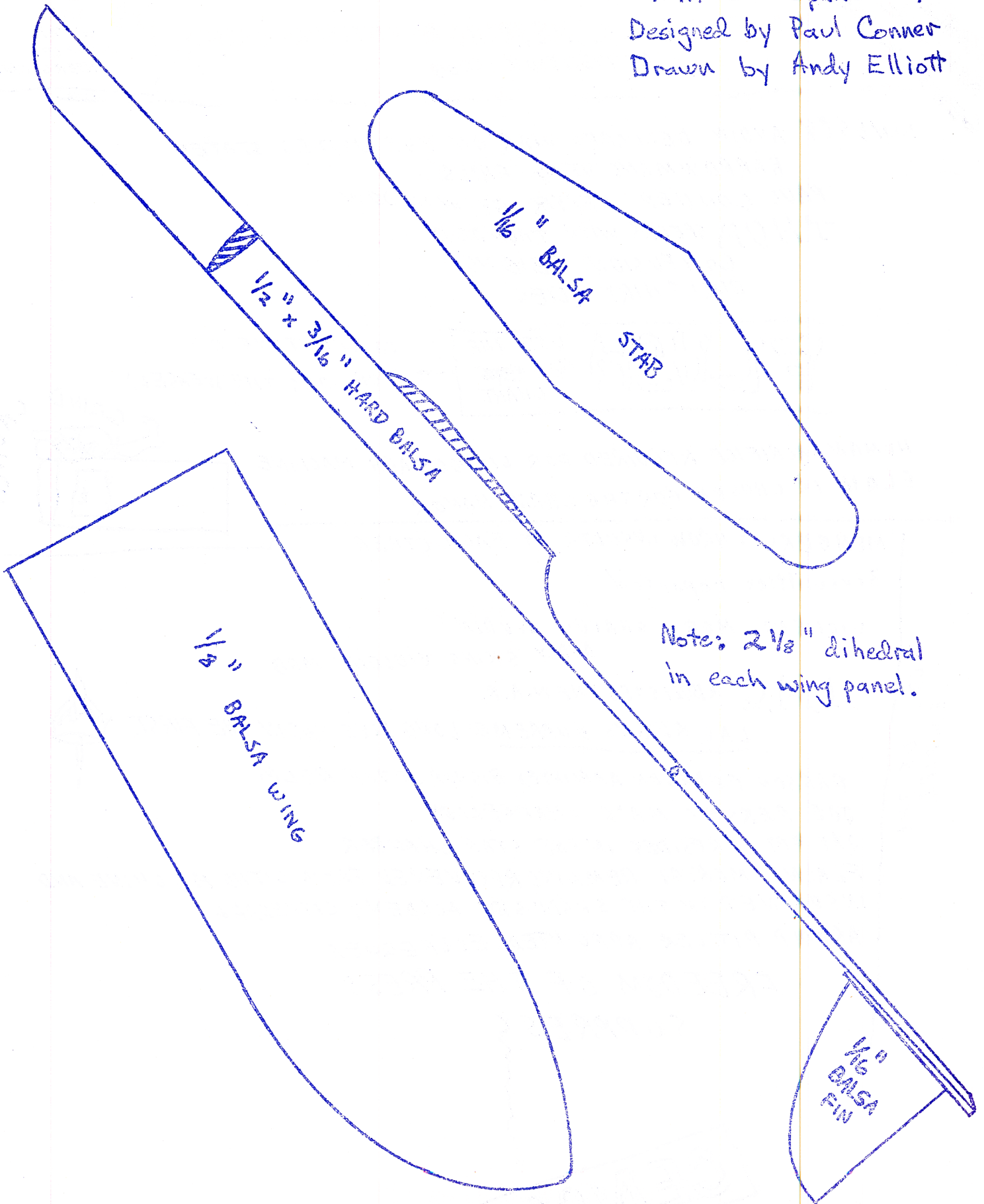
DISASTER PLANS

Plans for the Disaster 7-B, otherwise known as the Valkyrie, first place winner at NARAM-10 are available from its creator, Bruce Blackstone. There is a small fee.

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

Editor - Andy Elliott
Cartoonist - Bruce Blackstone

NOVA-I Sparrow B/G
Designed by Paul Conner
Drawn by Andy Elliott



FINALLY
FOR THE
GENERAL PUBLIC

OFFICIAL MINUTES
OF THE L.A.C. MEETING AT PITTSBURG SPRING
CONVENTION 1968

DO RECORDING
J+6 SPIES
OF THE
OPPRESSED
UNDERGROUND

LINDSEY AUDIN DECLARES WAR ON THE UNITED STATES
BARROWMANS VETO FAILS
PAUL CONNER LEAVES BY WINDOW
J.H.O.P. SPEAKS WITH THUNDER
CONFUSION REIGNS
BULLSHIRT FLIES

FLUSH GOES THE
FLOW ~~WEASEL~~ CHART TO THE TUNE OF
'POP GOES THE WEASEL.'

HUMAN SACRIFICE REQUIRED FOR LITHOGRAPH MACHINE
ELAIN IS CHOSEN FOR THE GRAND HONOR



MEMBERS THROW INSULTS AT EACH OTHER

3 casualties reported

VIOLENT MOB SHAVES AUDIN
AUDIN SKINS VIOLENT MOB

L.A.C. ABOLISHES THE N.A.R.

LAC REIGNS SUPREME LONG LIVE AUDIN THE FIRST.



PARSON PEARSON APPOINTED BISHOP OF THE RELM
JOE PERSHIO MADE CHANCELLOR
JAY APT PRESIDES IN THE STAR CHAMBER
ELAINS MORTAL REMAINS RECOVERED FROM LITHO MACHINE AND
INSHRINED IN THE SHADY SIDE ACADEMY CATHEDRAL
ARNOLD PITTIER APPOINTED EXCHEQUER
FREEDOM OF THE PRESS
SUPPRESS

ACTS OF THE
EMPIRE

CENSORED
Not to be used

