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T-Minus Zero!

The new year is upon us now. 1977 is just a group of good model rocketry memories. ECHO section is now slightly over one year old, and we are looking forward to a bigger and better 1978. I hope everyone in the section will make a resolution to be more active this year than they were last year. If we can improve our performances and attitudes every year we will have an unbeatable combination. I would like to wish all ECHO members the Happiest New Year and thank you all for helping make the Eau Claire High Orbiters a reality!

Bob (the cook) Walsh, our newest Milwaukee member, has blessed us with the bone chilling tale of how the Incendiary Titan came to plague the modern world. Thanks go to Bob for his excellent literary effort.

We have an update on NARBAR-78 as well as final details on WIScon-I. I urge all of you to attend both of these events as well as Pole Cat-II this year. Pole Cat II will be ECHO's first Regional Meet, and will feature the first altitude events to be flown at an ECHO contest. NARBAR-78 (to be held in the Milwaukee area) will be the first regional sponsored by ECHO members to feature the Scale event. Our second year will see many firsts for our section. WIScon-I is shaping up as a very interesting convention. In this issue you will find a full event schedule and an application form. Those of you who are planning to attend should get your applications in to Tomah as soon as possible so TAC can finalize all events.

Estes has received five of the nine models we built for them this last time, and they have given us mostly four and five times the kit values for our efforts. We have received \$141.00 already, and the other four kits have not been evaluated yet, so we have quite a bit of free merchandise waiting for us. Please let me know what you feel we can best use these certificates for!

Fly higher and longer in 1978, and remember that Obi Wan Kenobi is still alive!

Buce

CIOS CALENDAR & NEWS.

- January 11, 1978. Delong J.H. rm. 168. 7 to 9 pm.

 Club Meeting. Mominations for club officers. Discussion on possible club displays for WIScon-I.
- January 25, 1978. Parks and Rec. 7 to 9 pm.

 Officer elections. Glider discussion. Work on WIScon display if there is interest. Turn in Maxi-Alphas.
- February 8, 1978. DeLong J.H. rm. 168 7 to 9 pm.

 Club Meeting. Work on club display or discussion of any problems with WIScon-I entries.
- February 25, 1978. Tomah Savings and Loan. Tomah, Wi. 10:00 am to 8:30 pm. WIScon-I sponsored by the Tomah Aerospace Club. Events: (definite) Static Scale, Craftsmanship, Original Design, and Identical Craftsmanship. (tentative) Hiar's Contest, Newsletter Contest, Display Contest, and R & D.
- April 15, 1978. Memorial High Football Field. 1 to 3 pm.

 All manufacturer demonstration. All Eau Claire members should plan
 to help launch and recover models.
- April 22, 1978. Craig Rd. launch site. 9 am to finish.

 Ground Hog II (section meet) Class 00 P.D., Class 0 P.D., Class 1 S.D.,

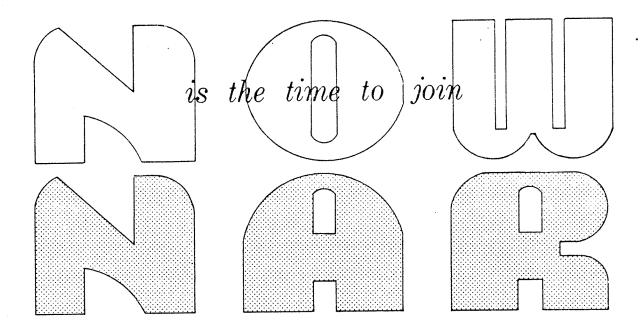
 Sparrow B/G, Hawk R/G, Class 1 Helo Duration. Entry fee: 50¢ per

 person.
- May 27 & 28, 1978. Craig Rd. launch site.

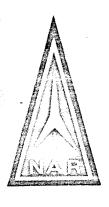
 Pole Cat II (regional). Class O P.D., Class O Helo Duration, Class 1
 P.D., Class 2 S.D., Hornet B/G, Sparrow R/G, Eagle B/G, Condor R/G,
 Pee Wee Payload, Robin E.L., Dinosaur Superroc. Fees: A Div. \$2.50,
 B Div. \$3.50, C Div. \$4.50.

Eric Nixdrof has informed me that he used a Beuscher Diet Dactyl design rather than a CMR Mini-Manta to take 1st. place in Hornet B/G at WAMO I. Again I stand corrected.

Ed.



ONLY THROUGH NAR CAN YOU . . .



DON'T DELAY . . . JOIN TODAY!

- * Keep Current with the latest events on the model rocketry scene through your own copy of the exciting, all-new MODEL ROCKETEER!
- * Proudly Display your NAR colors with the new decals -- one large sheet containing all the useful sizes of the NAR symbol!
- * Enjoy the Peace of Mind of your \$1,000,000 liability protection!
- * Avail Yourself of the opportunity to be a part of the international model rocketry fraternity - the Fédération Aéronautique Internationale (FAI)!
- * Learn all about the latest NAR regulations and contest rules in the revised "Pink Book"!

Additionally . . .

- For the first time - the NAR FAMILY PLAN! one family member joins at the full rate - any and all other members deduct \$2.00 from their membership dues! (Sorry, you're going to have to share your family copy of MODEL ROCKETEER, but you still get all of the other benefits).
- * And last but not least - evidence of your membership in NAR - the newly, redesigned wallet-size sporting license!

NAR MEMBERSHIP APPLICATION

National Association of Rocketry, P. O. Box 725, New Providence, N. J. 07974

				• •			
мем	BERSHIP (CATEGORY (Ple	ease check one	e box only)			
		JUNIOR MEM	BERSHIP (U	nder 16 as of Januar	<i>y 1)</i>		
		LEADER MEN	BERSHIP (L	Inder 21 as of Janua	ry 1)		
		SENIOR MEM	BERSHIP (2)	or over as of Janua	<i>ry 1)</i>		
DATE	OF BIRTH			NAR NO.	AMOUNT ENCLOSED		
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	Family Plan Membership (Deduct \$ 2.00)		☐ New	☐ Renewal	If I am accepted in the National Association of Rocketry, I pledge to observe and follow the NAR safety code. I am aware that a secret violation of the NAR safety code.		
FAI Stamp \$2.00 NAR No			reported violation of the NAR safety code may lead to the revocation of my membership right. I also agree to abide by the bydays and the standards and regulations of the NAR.				

Signature.

WISCONI

WIScon I will be held Saturday and Sunday, February 25 & 26, 1978. Registration will start at 10:00 am. saturday morning at the Tomah City Hall in Tomah, Wisconsin. Refreshments, but not meals, will be available both days.

HYENTS:

- 1. Stalle Scale; WAR Pink Book rules, except flight points will be disreexceed. Scale data is not needed, only a picture and major dimensions. Veighting factor - 6.
- 2: Craitsmanship; Will be judged on neatness of construction and overall appearance. Prefabricated parts (i.e. Alpha III) will be fromed upon Any rocket may be entered. Weighting factor 2.
- 3. Orleinal Design; Rocket must be your own design, not a commercially nanufactured kit or built from someone else's plans. Wt. factor 3.
- 4. Identical Craftsmanship, Will be judged the same as Craftsmanship. The entry must be built and painted exactly like the picture on the kit.
 - A Division will build the ESTES Alpha
 - B Mivision will build the ESTES Invader
 - C Division will baild the ESTES Ecnest John

If you do not want to enter in your age division because you wish jo make a more difficult notel, you may more up in age division as high as you want, but you may not move down. You may enter in only one division. Weighting factor - 2.

- 5. Mar's Contest; Entities will be judged on creativity, organization, plausibility and overall appeal. You way read your lie. The idea is to tell the best lie about a model rocket experience. A model, display or illustration will help your chances. Weighting factor 5.
- 6. Neveletter Contest; The most recent issue of your newsletter must be entered. Will be judged on quality of reproduction, nestness, cuality of artwork or covers. No points will be awarded for places in this contest, but an award will play a part in deciding the "Most Active Section" award.
- ". Display Content; Any individual or group may enter an aerospace or rocket display. Each person may enter only one display. Will be judged on neatness, creativity, craftsmenship and overall appeal. Frighting factor 4.

Hvent: numbered 1. 2. 3. 4. will definitely be held. Events numbered 5. 6. 7. may be cancelled if prepagistration forms indicate little or no interest.

All events will be judged in age divisions except Display Contest and Howaltiter Centest. For each event there will be 4 places awarded in each (17)sion.

- A Division 14 years and under
- I Division 15, 16 and 17 years
- C Division 18 rears and over

lat Piece - 5 points

2nd Flace - 3 points

3rd Place - 2 points

4th Place - 1 point

An evend will be given for "Most Active Section". Tomah Aerospace Club is disqualified from receiving this award, so there must be at least two other clubs in attendance to give this award. Will be judged on the club's overall performance in the events, how many delegates are present; and how many workshops are conducted by club members.

There will be certificates, wibbons, rockets and possibly a trophy awarded for places. Rocketsers with the most points will receive Champion Rocketeer Awards.

All preregistration forms should be in by January S et the latest. Registration fee will be \$1.50 per person, to be paid on February 25. This covers all events. Invitations are being sent to 4 sections plus a notice will be in the Model Rocketeer. We need to know how many are coming, which events they plan to enter and which people will definitely plan to conduct workshops. We will decide on January 8 exactly which events and workshops will be held. (Events 1. 2. 3. 4. will be held.) A final schedule of events and workshops will be sent to you shortly after January 8. Those planning to conduct workshops please indicate about how long the workshop will be so we can work out a definite schedule.

There will be a number of recketeers at Wiscon I who attended MARAM 19 this summer, including 4 from the Tonah Aerospace Club. Jim Zingler, T&C, received a third at MARAM in Nocket Glide and Pete Pathon, ECRO, who may attend Wiscon I, received a first in Streamer Duration and set a national becord at WARAM.

Tariaties Forkshops:

- L. Building Tochniques Bruce Carey, ECHO
- 2. Scale Model Building Bruce Carey: ECHO
- 3. Boost/Gliders ECHO
- 4. Streamer Duration EGES
- 5. Parsobute Duration ECHO
- 6. Hewsletters Eric Bernhardt, editor STELLAR WINDS, TAC
- 7. Pissueing Gliders TAC
- 8. HAR Politics Hark Bundlok
- 9. Starlord Politics Scott Zingler, TAC, John Wetsch, Planetoids
- 30. High Power Model Rocketty John Wetsch, Planetoids
- 11. Berlofting Larry Chunles, AARN
- 12. Design Efficiency Larry Chamles, AARM
- 13. Research & Davelopement Larry Chemica, AADM

WIScon I (continued)

Tentative Schedule:

Saturday the 25th.

10:00 am - 11:00 am - Registration.

11:00 am - Noon - Keynote address and opening ceremonies.

Noon - 1:00 pm - Lunch.

1:00 pm - 5:00 pm - Midwest meeting and workshops.

5:00 pm - 7:00 pm - Supper.

7:00 pm - 8:00 pm - Manufacturers forum.

8:00 pm - ??????? - Movies and Sci/Fi costume party.

Sunday the 26th.

10:00 am - Noon - Model rocket auction.

Noon - 1:00 pm - Lunch.

1:00 pm - 5:00 pm - Contests, Workshops, Songfest, Lier's Contest, etc.

5:00 pm - 5:30 pm - Awards presentation.

Everyone will meet first at the Tomah City Hall (basement) for Registration.

Model Rocket Auction:

You can sell anything you want. TAC receives no profits from sales. Sections can hopefully unload some unwanted stuff.

We hope to have a big turnout for WIScon I. If there is little interest on the part of other clubs the workshops list and schedule may be drastically changed, but we will still hold the convention for TAC members. We held an outdoor meet last February for our own members and had good attendance. Hope to see you at WIScon I!

Send your registration form to:

Scott Zingler
Tomah Aerospace Club
324 W. Milwaukee St.
Tomah, Wisconsin 54660

Phone- (608) 372-5397

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WISCON I REGISTRATION FORM

NAME
ADDRESS
SECTION NAME
BIRTHDATE
AGE DIVISION Cirole One A B C
EVENTS: (Check if planning to enter)
1. Static Scale
2. Craftsmanship
3. Original Design
4. Identical Craftsmanship (Circle age division) A B C
5. Liar's Contest
6. Neweletter Contest
7. Displey Cortest If a group entry, please have only one member of the group register the entry and list all participants.
8. Research & Developenent
KORKSHOPS:
Please list workshop(s) you will plan to conduct. Also indicate approximate time workshop will take.
MCDEL ROCKET AUCTION

Check if planning to participate.

SPACE HISTORY

- January 31, 1958. The United States launches its first satellite, Explorer I.

 Instruments on board the 30.8-pound satellite confirm the existence of the theorized Van Allen radiation belts.
- January 2, 1959. The USSR launched Luna I, or Mechta, which missed the moon but became the first spacecraft to go into orbit around the sun.
- January 31, 1961. Ham, a chimpanzee, was rocketed 155 miles into space in a Mercury capsule and retrieved alive in the atlantic 420 miles from Cape Canaveral.
- January 29, 1964. First two-stage Saturn 1 lifted into orbit 37,700 pounds, of which nearly 20,000 pounds was payload.
- January 27, 1967. The three astronauts named as the crew for the first manned Apollo mission died in a flash fire while testing their spacecraft on the launching pad at Cape Kennedy. They were Command Pilot Virgil I. Grissom, a veteran of the second Mercury flight and the first Gemini flight; Senior Pilot Edward H. White II, the first American to walk in space (from Gemini 4), and Pilot Roger B. Chaffee.
- January 7, 1968. The last soft-landing Surveyor spacecraft- seventh in the series was launched, and it reached the moon on January 9, completing another highly successful U.S. space program.
- January 22, 1968. An unmanned Apollo lunar module, the "moon bug" made a successful first flight when a Uprated Saturn 1 placed it in earth orbit.
- *** Roes, Nicholas, and William E. Kennedy, Space-Flight Encyclopedia. Chicago and New York: Follett, 1968.

ODDS & ENDS *

ECHO News.

Our club patches went into production on 12/23/77, so we are looking at mid-February as a receipt date. Seven patches are spoken for already, so reserve yours now if you want one.

I've been thinking of publishing an Echoes Competition Yearbook this year. This publication would include winning designs from this contest year as well as building techniques and strategy discussions. Wouldbe contributors and those interested should drop me a line. (Bruce)

NAR National News.

In the December NFP an update on the Pink Book Revision project was noted. Chris Tavares, Novaar Free Press Editor and member of the revision committee, mentiones that besides attempting to close all loopholes in the rules, they are considering the following suggested changes: improvement of the maximum weights within classes of an event; elimination of the single-model restriction in all events; modification or elimination of the "Return Rule"; multi-round FAI-style glider events; creation of separate events for R/C models; and restructuring of the weighting factors for events. According to Chris, the next meeting of the committee is scheduled for the end of January.

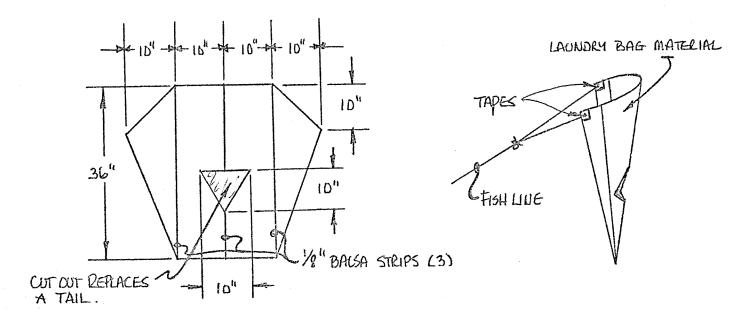
Contests and Competition.

For information on NARBAR-78 contact Chris Weege, 7614 N. Bell Rd., Milwaukee, Wi. 53217. Chris has informed me that he was two weighting factor points short in the events, so add Class 1 P.D. to the schedule. Chris can be reached at (414) 351-1316.

MARRoots and Daughter of MAR (sponsored by SCEMRA) will be held in Joliet, Il. and Fort Wayne, In. in mid-June as last year. Jim Murray from that club has said details will be avaliable soon. And ETR will be back gang!!!!

*** Next month Echoes will start a feature entitled Getting Started in Contest Rocketry. This group of articles first appeared in the Satellite (newsletter of the Buffalo Section of the NAR), and later in the Model Rocketeer. These articles are excellent and those of you who have not had an opportunity to read them before should do so now. Our thanks to Jeff Flygare for permission to reprint these articles.

Thermal Detector.



* The kite will stay up untended in a very light breeze, and will indicate thermal activity by raising straight up over anchor location.

Manufacturer News.

AVI Astroport has finally finished their long awaited Encyclog 78. The new 224 page catalog is scheduled for shipment at the end of January, and if you don't send \$6.00 in now it will cost you \$9.95 when it is avaliable, so get your six big ones in!

Centuri expects to have their Cruise Missle kit ready by mid-February. This kit is the first of four kits in their new Strike Force missile series. The other three kits are still in the developmental stage. This info comes from Centuri's newest member Jeff Flygare (former member of the Buffalo Section of the NAR). Thanks go to Jeff for his product report!

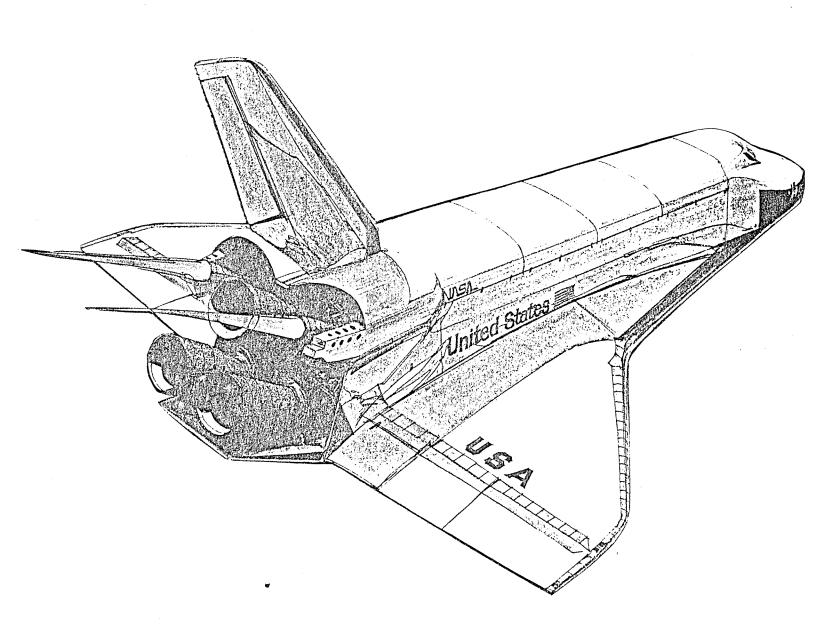
NASA News.

The first big skirt tailored for the solid-propellant Space Shuttle rocket is now undergoing tests at the Marshall Space Flight Center in Akabama. Fabricated from 3" aluminum, the 5-ton skirt is 17'6" in diameter at its base and stands 7'1" high. Since it will take two rockets to provide lift-off thrust, two skirts will be needed. After the boosters burn out and separate from the main space vehicle, they must survive a fall and parachute

NASA News. (continued from page 11)

drop of 27 miles. Following recovery in the ocean, they will be used again on other Shuttle missions.

Popular Mechanics, December 1977.



SSRS UPDATE

SMALL SOUNDING ROCKET SYSTEMS was formed in 1973. Since then research and development has progressed on a series of products for the advanced model rocketeer and also for various commercial and experimental applications. Naturally, this R&D has taken much longer than anticipated, and in fact still goes on -- and will for as long as the company stays in business. But some products are available NOW. We have several different types of rocket motors available off-the shelf, and even a brand-new line of kits.

KIT INFO

LASOR FAMILY (Low ALTITUDE SOUNDING ROCKET)

1.3" diameter, 29" length. Uses any motor up LASOR-135:

to a G120-16.

Similar to above but 1.6" diameter and 36" LASOR-165:

length.

2.25" diameter, over 4 1/2 feet long. Uses LASOR-225C:

a cluster of three motors, E to G (all motors

must be the same). NOT A MODEL ROCKET.

Other rocket kits are available in a variety of sizes, types, and prices. Send a stamped, self-addressed envelope for complete information on all kits.

WINTER SALE ANNOUNCEMENT

During our winter sale, motor prices are as follows:

E30-X: \$4.00 each

F40-X: \$5.00 each

Shipping charge: \$.50 F60-X: \$6.00 each per motor. G89-X: \$10.00 each

Maximum shipping

G120-X: \$12.00 each

charge: \$3.00

In addition, for the FIRST 30 ORDERS OVER \$50 (not including shipping) we are sending FREE a Mini-C motor. This is a C with the same dimensions as an AVI minimotor. These are not available for sale-- they're strictly part of this free offer. Get one before they're gone -- they're guaranteed collector's items!

P.O. Box 341 • Mountlake Terrace, Washington • 98043

CURRENTLY AVAILABLE ROCKET MOTORS

	Mod	del Rocket Motor:	Professional and Amateur		
	E30-X	F40-X ("Super-E")	F60-X	G89-X ("Super-F")	G120-X
Total		(Super-L)		(Super 1)	
Impulse,				110	7.60
n-sec	40	53	80	118	160
(lb-sec)	(9.0)	(12.0)	(18.0)	(26.6)	(36.0)
Dimensions	20.6.65	20.6 - 76	20.6 00	20 6 - 127	20 6 165
			28.6 x 98		
(in) (1.1	25 x 2.5625)	(1.125×3.000)	(1.125×3.875)	(1.125×5.0)	(1.125×6.5)
Total					
Mass, g	57	67	85	105	140
(oz)	(2.0)	(2.4)	(3.0)	(3.7)	(5.0)
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Propel-					
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g	21	28	42	58	80
(oz)	(.7)	(1.0)	(1.5)	(2.1)	(2.9)
Delays,					
sec	4 to 12	4 to 12	6 to 14	6 to 14	6 to 16

(All specifications are subject to variation without notice.)

Delays are available in increments of one second within the ranges specified. All motors are available in a plugged version (e.g. E30-P) with no delay or ejection charge, and in a delay-only version (e.g. E30-4D) with no ejection charge. These are priced the same as standard motors. In addition, all motors are available with an extra-strength ejection charge (e.g. E30-4X) which is useful when using very large body tube diameter; (CAUTION-- it is liable to blow a small-diameter, weak body tube apart). These are \$.25 extra per motor.

The F40, nicknamed the "Super-E", is designed to be used in rockets built for an Enerjet E24-- it's exactly the same size but delivers 1/3 more power. Similarly, the G89, or Super-F, fits anything designed for an Enerjet F or an F.S.I. Thunder-bolt, but with 1/2 more power-- and for no more than you'd pay for a T-Bolt!

Please note that these motors are NOT currently NAR-certified, and therefore are not presently acceptable for use in NAR-snctioned competition. In addition, they are to be used only in compliance with all federal, state and local regulations.

Now take a look at the price list-- and when you catch your breath, get an order in the mail. At these prices, you can bet demand is high!

the incendiary titan.... LIVES!!

By: Bob (the cook) Walsh
NAR # 28885

Not very many people know how the legendary and mystical incendiary titan came to exist. Some think it was thrown up from the bowels of the earth by Vesuvius in Pompeii to be unearthed by some ill-fated archeologist. Others think it was thrown up from the bowels of Chris Weege's basement after he finished throwing it together in fifteen minutes. Both are possible theories, but both are wrong. I will now tell the true story of my personal eyewitness account. Those without the intestinal fortitude to withstand gut-wrenching reality should put this essay down right now. Go no further! You have been warned!!

This reporter had long suspected a relationship between model rocketry and the occult, but had never experienced this intermingling firsthand until I took a trip to the deep, dark Amazon. This trip was unplanned, and its details are most unusual, even eerie!

This tale all started when Chris Weege and I boarded our plane for what we thought was Prist, Czecheslovakia and the FAI Championships. Somehow our tickets got switched, and we were headed south instead of east. If our minds hadn't been so clouded by our excitement that we were actually attending the Internats, we probably would have thought more about the fact that all the other passengers on the plane had bones in their noses.

On arrival we deplaned to what we thought was a Czech military welcoming complement, but which in reality was a war party from the Narrrr tribe. Thinking that all foreigners locked alike, they took us, with our full entourage of rockets, to what we thought was the flying field, but which turned out to be their ceremonial burial ground. I knew something was wrong earlier when I turned for one last look at our plane, and I saw the natives burning it to erase any last trace of our coming. I don't know, maybe my fears were unfounded, but it all seemed a little strange.

As I was saying, the Marrrr tribesmen took us to their ceremonial burial grounds where full comprehension of our true plight finally came to me. I realized that Chris had been drugged. This made him dull, listless, and incoherent. The natives had slipped him a Mickey in the banana soup he had on the plane. Looking back on it now it was lucky I noticed any change in Chris at all!

incendiary titan (continued)

An English-speaking native told me that the two great medicine men of this area, Ma-nung of the Worth-their-weight-in-butter tribe, and Gee-haree of the Sty-in-the-ein tribe, were gathering their forces in a joint exorcism of the demon that had spread a pall over their land. There was a low chant being led by the two overpowering presences. At first it was almost inaudible to my ears, although I could fell the electricity flow thru the native throng, but then it grew louder and louder until it was deafening. It sounded something like this:

Mung mung lu a lum Mung mung lu a lum Mung mung lu a lum

Translated loosely:

Oh, I've seen fire and I've seen rain, Why, I don't know.
Oh great Pink Book which runs our lives, Save this, the only South American section.

These natives seemed to be summoning something, something so horrible that at the first sight of it my wits were scattered for a moment, leaving only panic. This thing that the natives had called up from the very depths of the earth was tall, too tall: Its' very presence cried "minimum stability" which bordered on suicide. Then the horror that had engulfed this simple, rule abiding model rocketry section took hold of me with the realization of the words that bring dread to any rocketeer with a sense of self-preservation.......

Super Cluster!!!!!!!! How these simple people had been able to contain its' fury for so long was beyond me. I now understood that it was Chris' and my duty to relieve these people of the demon that had plagued them for so long.

This was no ordinary demon from the depths of darkness. It was a great coming together of all the things that gave model rocketry a bad name. Some say it was forged by the devil himself, using a Zap so strong it could not be broken by the most powerful incantations or the waving over of the Pink Book. This hideous contraption had the power to bend otherwise straight rocketeer's minds to make them perform feats of unrestrained surrealism that lay on the very edge of the psychotic!

We headed back home with the blessings of our new native friends and the dreaded demon machine. The natives had named this grotesquery the Incendiary Titan. We encased the menace in 1/64" plywood and C-grain balsa which we thought was an inpregnable barrier to any evil, but we were wrong. This encasement served only as the creator of a state of suspended animation. For many years the

incendiary titan (continued)

demon lay silent, but one day an unforseen chain of events caused a D-12 to roll too close to the box. This was all the evil forces within needed to unleash on the world their powers once again. Let the warning go far and wide The Incendiary Titan Lives !!!!!!!!!



The daring twosome (left to right, Bob Walsh and Chris Weege) hold the demon Incendiary Titan as friendly natives hold up offerings to the machine of doom.

Count 'um. Ten 'B' motors fuel the IT for its' many deeds of evil. Bob W. and Chris W. display the demon.

