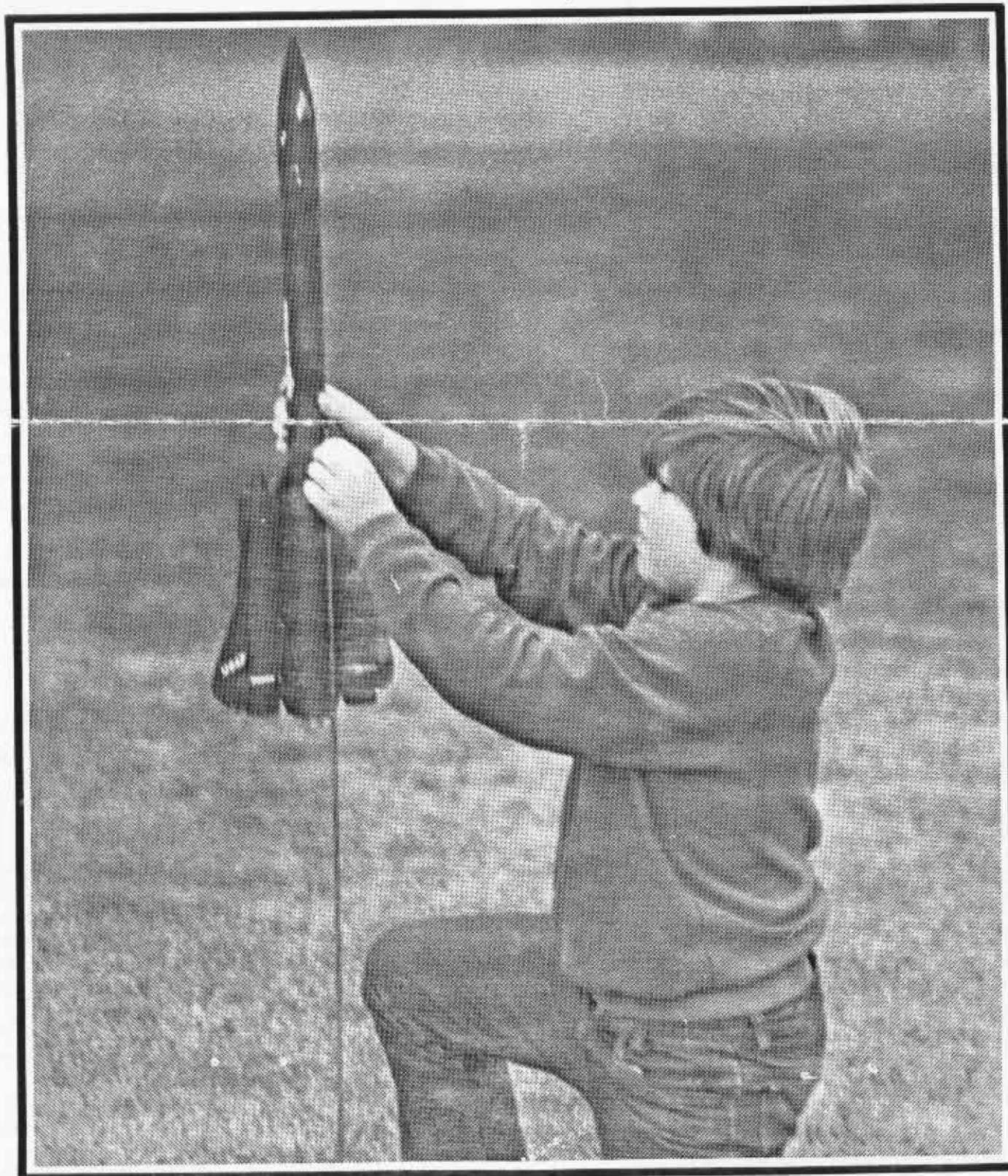


THE LEADING EDGE



JANUARY/FEBRUARY 1985 VOLUME 8, NO. 1
WINNER OF THE 1984 LAC NEWSLETTER AWARD

EDITORIAL

by
NIRA's Newest Editor

Hi! I'm Larry Mika, the new editor of the Leading Edge. I just want to take some space to thank Ric Gaff for doing a wonderful job on the club's newsletter for the last six years. Many people don't realize how difficult it is to produce a two-time LAC award winning newsletter. Believe me, it's hard! Ric has given the Leading Edge direction. I plan to keep the same basic format, but I would like to hear some ideas for new columns and stories. Remember, this is your newsletter, and you only get out what you put in.

We will have a new advice column called "Dear Mr. Know-It-All". (Great. Rocket J. Squirrel is a good friend of mine. - Bunny). I will be answering all your questions on anything from basic building tips to advanced scale modeling, glider construction and competition strategies. Just give me your questions. I won't print your name if you don't want it printed.

Ric has greatly helped me getting started, but I need your input to keep producing a quality, informative newsletter. Don't forget to thank Ric for a job well done!

Larry

T MINUS 1

MONTHLY NIRA MEETING Mar. 1
G.E. Civic Center 7:30 PM

Final planning for Park District classes. Plans for 1985 flying season, including contests.

ROCKETRY CLASS #1 Mar. 23
Main Street Rec Center, 1-4 PM
501 Hill Avenue, Glen Ellyn

TOPICS: Basic Construction,
Designing Your Own Rockets

ROCKETRY CLASS #2 Mar. 30
Main Street Rec Center, 1-4 PM
501 Hill Avenue, Glen Ellyn

TOPICS: Basic Finishing,
Plastic Model Conversion

MIDCON III Apr. 12-14
Warren, MI (Detroit area)
A fun model rocket convention for all! Contact: Woody Woo, 24001 Moritz, Oak Park, MI 48237

ROCKETRY CLASS #3 Apr. 20
Main Street Rec Center, 1-4 PM
501 Hill Avenue, Glen Ellyn

TOPICS: Recovery Devices,
Scale Modeling

ROCKETRY CLASS #4 Apr. 27
Main Street Rec Center, 1-4 PM
501 Hill Avenue, Glen Ellyn

TOPICS: Designing Your Own
Rockets, Competition Models

NOMID-85 Contest May 4-5
Fenton, MI
EVENTS: C ELA, B SD, A RG,
C BG, B HD, SP SYS, PRED ALT.
More info upcoming.

ELECTION RESULTS

With 100% of the precincts reporting, here are the results of the January 4, 1985 NIRA club elections.

PRESIDENT

Mark Schmitt - 10 votes
Tim Marcy - 5 votes

VICE-PRESIDENT

Tom Pastrick - 10 votes
Tony Lentini - 5 votes

SECRETARY-TREASURER

Bob Kaplow - 12 votes
Tony Lentini - 1 vote
Pat Peterson - 1 vote
Garfield - 1 vote

Congratulations to the winners, and thanks to Bunny for doing a wonderful job as our President over the past five years. The club wouldn't be the same without his efforts. How about a round of applause for the Wabbit?

CONTEST NEWS

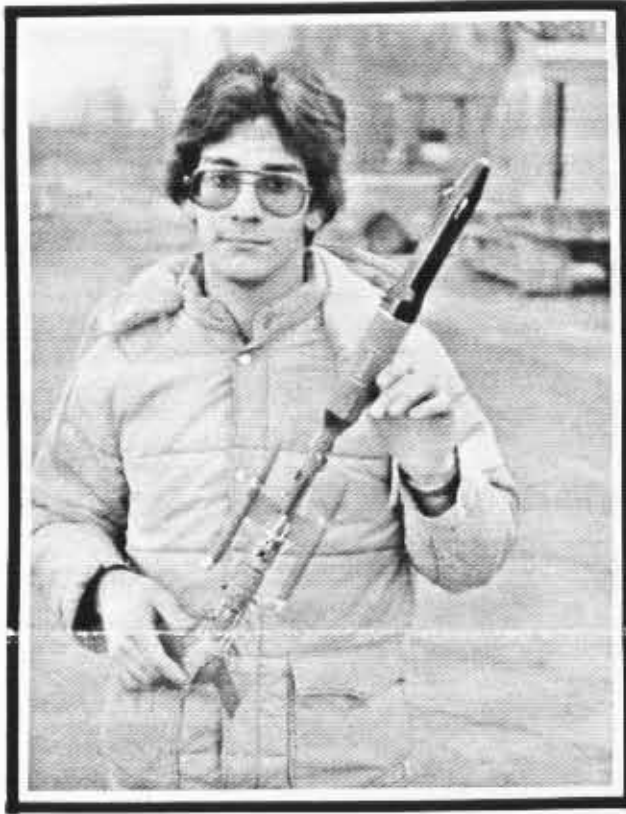
by Larry Mika

Well, it looks like this is our year to pounce on PULSAR. Our competition schedule, still tentative, is basically a bunch of NARAM-27 events. NOMID-85, May 4-5, will be flown for club points; events are: Pred. Alt., C ELA, B SD, A RG, C BG, Space Systems. We are also flying three Open Meets, May 25-26, June 8-9, and June 22-23. The events are: A RG, B HD, B SD, C SRA, D ELA, 1/2A BG, A PD. Try to get out and fly these meets!!! The schedule is much lighter than last year's, so you don't have to build as much.

MODEL OF THE MONTH WINNERS



The Model of the Month Winner for November is Larry Mika and his large Nike-Tomahawk scale model. Congratulations, Larry!



The Model of the Month Winner for December is Larry Mika and his plastic model SPEV. Congratulations, Larry!



**THE
LEADING
EDGE**

COVER PHOTO: Curtiss Jameson
readies his SR-71 Blackbird.

is published bimonthly by and for members of the Northern Illinois Rocketry Association, NIRA, NAR Section #117, and is dedicated to the idea that Model Rocketry is FUN! Membership dues are \$3.00 per year and include a one year subscription to the Leading Edge. Non-member subscriptions are available for \$5.00 per year. All membership and subscription fees should be sent to: Bob Kaplow, 1628 Waterford Lane, Palatine, IL 60067. Articles, plans, other newsletters and news items of interest should be sent to Larry Mika, 7905 Iroquois Court, Woodridge, IL 60517. Any material published in the Leading Edge may be reprinted by non-profit groups if proper credit is given.

CONTRIBUTORS

**BUNNY
RIC GAFF
LARRY MIKA**

LEADING EDGE STAFF

EDITOR - Larry Mika
PUBLISHER - Ric Gaff
HALFTONES - Tom Pastrick
TYPIST - Bunny

FLASHBULB CLUSTER IGNITION

Gettin' 'Em All To Go
by Ric Gaff

Four feet of rip-snortin' rocket sits on the pad. At zero, there is a bright flash under the model. For a heart stopping moment, nothing else happens. Suddenly, with a roar and billows of smoke, the model blasts into the sky on its cluster of 3 D12's. It's the most impressive model you've ever seen, but in the back of your mind is the question "How did he get 3 motors to fire at the same time?" Then you remember the bright flash...

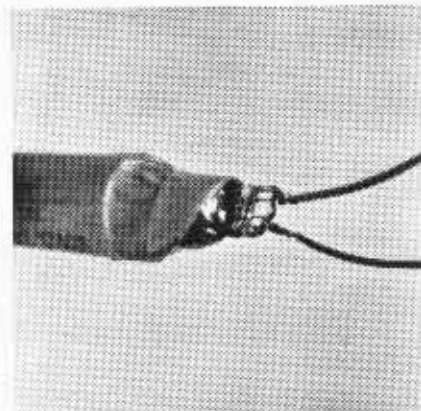
The use of photoflash bulbs to ignite engines is an old and well established technique. First introduced in 1971 by John Langford, I saw my first use of it at NARAM-15 (1973, Columbus, Ohio) where it was used to fire a 30+ engine cluster of mini engines. Thirty engines! Not good for anything, but it did show how well flashbulb ignition could work and very dramatically, too! Since then, flashbulb ignition has revolutionized clustering, turning a clumsy, often dangerous technique into a very reliable one.

Using a flashbulb to ignite an engine is somewhat more difficult than using a Solar ignitor, but not too much more. To make your first FBI you'll need the following parts:

(1) AG-1 flashbulb. Usually sold as a pack of 12 in camera stores or drugstores.

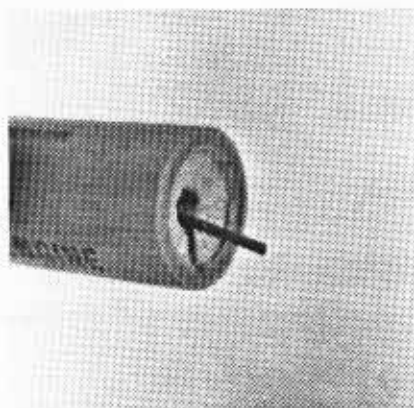
(2) Ignitor wick. That's the short "wire" in Photo 1. Centuri Sure-Shot ignitor wicks are normally used. While these are now out of production, they can still be found in some hobby stores. Suitable substitutes are FSI wick, from FSI, and Thermalite fuse available from Aerotech, Model Aviation Fuels and North Coast Rocketry.

(3) Two 6 inch lengths of 22 gauge stranded wire. It's a good idea if they are different colors, e.g. red & black or black & white. This will cut down on confusion later. Both ends should be striped, 3/4 inch off one end and 1/4 inch off the other.

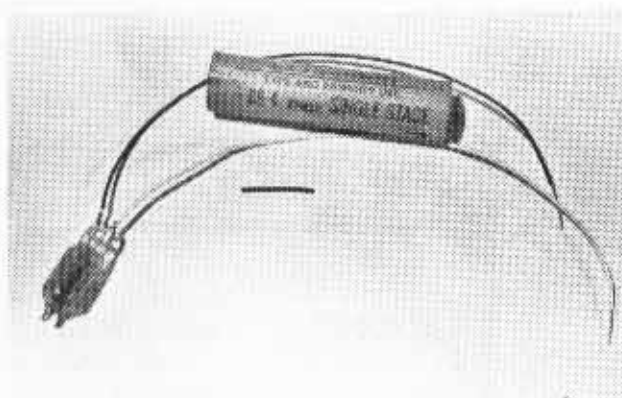


- 4 -

The flashbulb is simply a glass bubble with a clear (or blue) plastic coating to keep it from shattering when it is fired. At one end of the bulb are a pair of electrical contacts. Each contact is in the form of a bent over loop of wire. Unbend the loops so that they stick straight out from the bottom of the flashbulb. The short striped end of the stranded wire is then inserted into the loop. The wire is bent tightly around the loop and then crimped with a pair of needle nose pliers. Crimp tightly but carefully. Photos 1, 3 and 4 show a finished flashbulb. Soldering can be done, if done carefully, but is not really necessary. I generally like to sit down and crank out a bunch of flashbulb ignitors for future use rather than waiting until I need them.



- 2 -



- 1 -



- 3 -

Photo 2 shows the next step after all the bulbs are wired. Simply place an ignitor wick into the nozzle, put a flashbulb against the wick and push it into the nozzle as far as it will go (Photo 3). Wrap a piece of masking tape spirally around the end of the engine and over the flashbulb (Photo 4). This will hold the bulb to the engine as a single unit. Put the motors into your model (Photo 5) and twist the bare ends of same colored wires together. You will then have two electrical contacts (no matter how many motors you use) to which you can hook your launch controller and blast-off!

One word of caution when checking continuity. DON'T!! Flashbulbs are sensitive and need very little power to fire. This is, of course, why they work so well for clustering. Many launchers can set off flashbulbs when just checking continuity. Until you're certain whether or not your launcher is flashbulb safe, it's better to play it safe and expect your model to ignite when continuity is checked.

Clustering is an exciting and useful technique, as well as a lot of fun, in our hobby. Try it sometime!

ROCKETRY CLASSES APPROVED

by Bunny

The Glen Ellyn Park District has given tentative approval for our rocketry classes. They are quite happy to offer this, and are even willing to experiment! So, let's show our appreciation to the Park District by running a super set of classes.

We had to be somewhat flexible on dates, so things will get a bit busy in our schedules. The dates for the classes are March 23, March 30, April 20 and April 27. All classes will be held at the Main Street Rec Center, 501 Hill Avenue, Glen Ellyn. Classes will run from 1 to 4 PM.

Fees will be \$5 per person for all four classes. The fee will cover the rental of the rec center, and some finishing supplies. Beginning rocketeers should bring a Skill Level 1 or 2 kit; advanced rocketeers; a Skill Level 3-5 model.

The Park District will be advertising this class to their folks at the beginning of March. Those members living in Glen Ellyn may want to watch for the Park District's regular brochure around then.

Topics will be split between beginner and advanced. The subjects picked are listed below in the order they will be taught. Topics selected were:

BEGINNER TOPICS:

General Construction, Basic Finishing, Recovery Devices, Designing Your Own Rockets.

ADVANCED TOPICS:

Designing Models, Plastic Model Conversion, Scale Modeling, Competition

Don't miss out on this opportunity to get the "scoop" on how-to's from the club's Jedi Knights. See you on March 23rd.

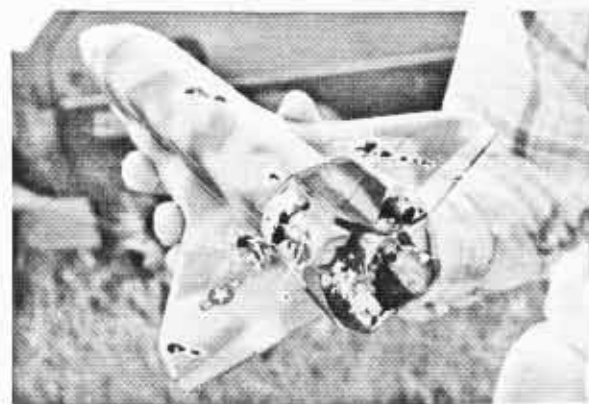
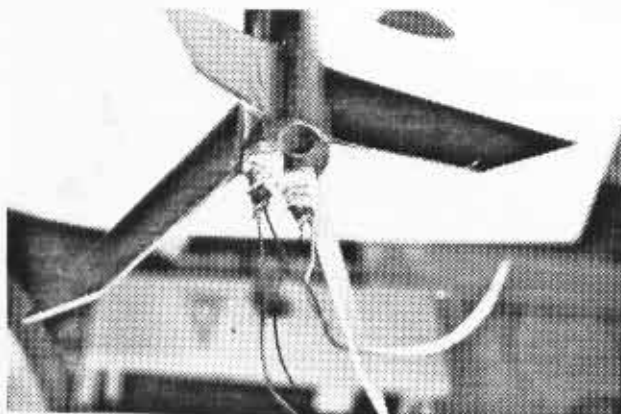
DEAR MR. KNOW-IT-ALL

Q: Dear Mr. Know-It-All: How can I fill those nasty body tube seams easily?

A: Well, Bullwinkle, go to a True Value Hardware store and get some "Hi-Q Spray Enamel", No. 1341. Make sure you get "Flat White", because other colors won't work. Give the seams two heavy coats, sand and repeat. This paint is easily sanded with 220 Wet-or-Dry sandpaper, and is compatible with Testor's enamel paints.

Remember, boys and girls, to send in your questions!

- 5 -



NOVEMBER CLUB LAUNCH

Only four members showed for this freezing fall flight day. We prepared in our cars and only got out to fly and recover our models.

Curtiss Jameson flew an originally designed payload. Henry Veldenz launched his now famous "Potato Salad".

This was supposed to be the day to fly "Sillycon I", so Larry Mika and Tim Marcy brought their "Uglyrocs". Tim's looked like a Quaker Oats container with cardboard fins and a long bamboo fishing pole for a nose. His motor choice was unusual, a D20 booster to an E5. The D20 propelled the model straight up, but the E5 detonated. The smoldering scraps littered the launch site. Larry shot his uglyroc next with a two D12 cluster. It was barely under the weight limit, and it arced over to complete its "flight" horizontally. A split second after ejection, it landed in a tree.

Tim tried his A Heavyroc, made almost entirely of Lego blocks. It only got about 5 feet off the ground. Larry had his FPSM Astrocam on



hand (and an E60 in the other!). Earlier in the day, it withstood a D12 cato and for some reason, the E60 actually worked. The shock cord snapped, the Astrocam was recovered, but the booster was eaten in a black hole.

Remember, we'll fly Sillycon I for real in the spring! Bunny has the prizes ready, so be there!



Never, never do this.

DECEMBER CLUB LAUNCH

A few more members came out of hiding for this launch than the last November effort. Tim Marcy and Curtiss Jameson made some decent flights with SR-71's. Larry Mika flew his FPSM Astrocarn with a bunch of motor combos; D12's, CHAD-staged D12's and an E60.

Ric Gaff decided to actually launch. His "Pyramid" made its standard, laughable flight. Tom Pastrick flew an unusual BG (I wasn't aware Tom had any other kind of BG. - Bunny), and an oddroc that looked like an orange with four dowels for stability. Some members were involved with a school R&D project on the relationship between rocket length and duration.

Tom tried his "Sea Venom" plastic model again. I think it actually worked once, but this time it pranged on the gravel. There is a serious plastic model tip to be learned out of this. Pick a model and stick with it. It might auger in a few times, but eventually you'll learn all the tricks of getting it to fly correctly.

Build a plastic model and bring it to the next club launch. Join the exclusive Plastic Model Prangers Association of NIRA! See you in the spring.



Larry Mika's E60 powered FPSM. Look for the "fire and smoke" plans in this issue.



Tom Pastrick checks his "Sea Venom".



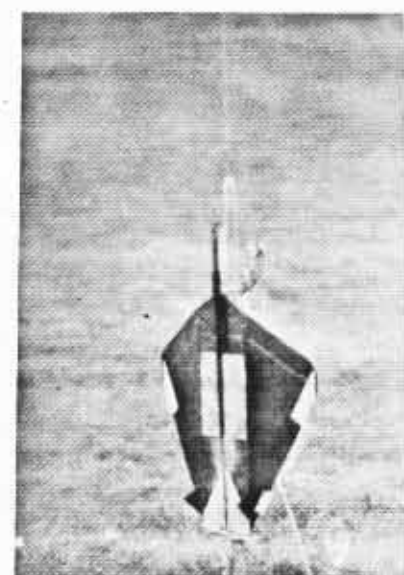
... the launch!!!



Ric Gaff gets mesmerized by pyramid power.



Presto! It's back in kit form.



Tom Pastrick's unusual BG.

By 1957, the Army Ballistic Missile Agency was studying the prospects for future U.S. missiles. One of these missiles, known as "Missile D", was planned to cover ranges of between 80 and 800 miles. In 1958, the Wilson Memorandum forbidding U.S. missiles to exceed 200 miles range was rescinded, and the whole project was at once launched (so to speak). Pershing, as Missile D was named, was handed over to the Martin Company, now Martin Marietta.

In its original form, Pershing I comprised a neat two-stage missile deployed as a "Fire Unit" on four tracked vehicles. One carried the erector/launcher and missile body, another the programmer test station and power station, another the radio terminal set and the fourth, the nuclear warhead and azimuth laying equipment. Assembled, the missile was raised vertically, the erector arm lowered, and the birdie fired remotely. Guidance of the first stage was by three delta fins and three rectangular wedge fins on the second stage skirt. The re-entry vehicle incorporated new technology in sharp cone ablation.

In 1967, production switched to the Pershing IA. The same missile was matched with a new set of wheeled vehicles. The whole system was now transportable by C-130 aircraft, making Pershing a cross-country weapon. In 1976, European units got a new advance: the ability to fire up to three missiles in rapid order from an unsurveyed launch site.

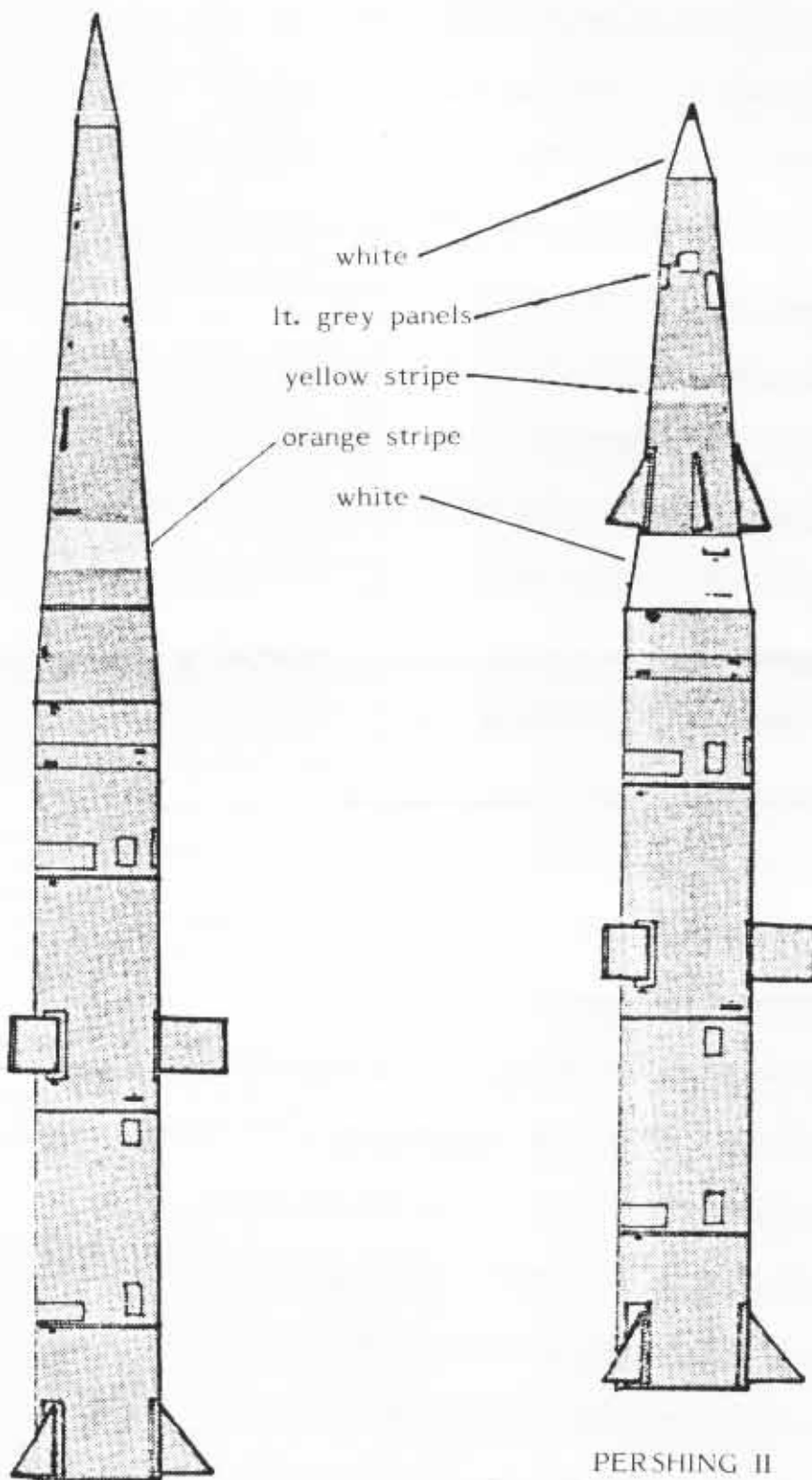
SPORT SCALE DATA

for the
Pershing I and II

by Bunny

Pershing I Data
Length: 34' 9 1/2"
Diameter: 39 1/2"
Weight: 10,141 lbs.

Both are overall olive drab.



PERSHING I

PERSHING II

Pershing II, a frequent topic in today's press and sore irritant to the Russians, is an advanced missile, with new radar correlation equipment. The former 400 kiloton warhead has been replaced with one of lower yield because of the increased accuracy. Pershing II is now operationally deployed in Europe. Big time competitor and NARA member Matt Steele used to service these things when he was in the Army. Mixing business and pleasure, eh, Matt??

Now you can fly your old Estes Maxi-Brute in Sport Scale. Hope you don't prang like the real ones do!

"BULLET BOB SEZ"

Can you detect the minor detail errors on Larry's 1:100 scale Saturn V? Probably not. And scale judges won't notice either. That's because you can get away with using a 2-liter bottle for an Apollo capsule, an F-86 Saber plastic model for fins, any old body tubes, toilet paper for roll patterns, and cigarette butts for corrugations. Also twenty color "New Wave" camouflage will usually pass for white. Why can you build your scale model this way? Because judges and experienced modelers know the Golden Rule of Model Rocket Improvisation:

ATTENTION NIRA MEMBERS!

If you have anything you wish to sell trade, give away, or if you have a service to provide, you can still advertise it in the Leading Edge's Unclassified Ads. There is no cost to ye as a NIRA member. Ads may be run as long as necessary. To place an ad, contact Larry Mika, Editor.

QUOTABLE QUOTES FROM NIRA MEETINGS

Ric Gaff wins the "Mr. Awareness" Award for sitting through an entire meeting before noticing an old NIRA member present. He then remarks, "Is that Pat over there? I'll be damned!"



BULLET BOB



PARTS IS PARTS

FPSM

This model can handle any legal motor D through F sized, with a suitable adapter. The best flights are from an E60-8, F100-10 and composite core burners. Assembly is pretty much self explanatory, so I only hit the highlights.

A High Power Payloader
by Larry Mika

Wrap the RB-120 tube with 3/4" wide masking tape as shown. Install an engine block and Titebond in place. Then cut three 3 1/2 x 1/16 slits in the BT-55. Squirt Titebond through the slits and install the fins. When dry, fillet heavily several times. Repeat until the slits are filled and the fins look like they're attached to the outside of the tube.

Glue the NB-55 into the 6" payload section. Install the screw eye and six feet of 1/4" wide elastic shock cord. Make sure the shock cord mount is secure on the inside of the tube. (Gauze or cloth with epoxy is a good way to go for strong shock cord mounts. - Bunny) Attach the launch lugs in the positions shown.

For recovery, use a large cloth streamer, 72" x 6". Bright colors are best. Paint the model fluorescent orange for ease of recovery.

FULL SIZE
MAKE 3
1/16 PLYWOOD

PNC-55
OR
ASTROCAM

6"
BT-55
NB-55

If you use the FPSM for an Astrocam booster, extend the shutter cord so it will fit around the NB-55. It also helps to cut a small guide slot in the NB-55, similar to that in the Astrocam base. If you fly the bird with more than a D, use lots of tracking powder. By the way, this model is stable enough to fly with CHAD staged D12's.

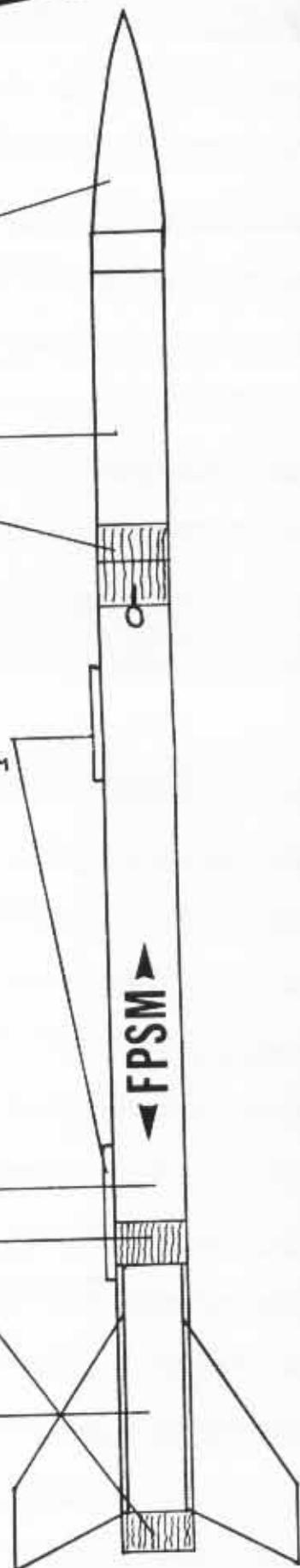
Build the FPSM, and be sure to bring some binoculars!

2" x 3/16"
ALUMINUM
LUGS

18"
BT-55
TAPE

6"
RB-120

FPSM



NAME	ADDRESS	CITY	STATE	ZIP	PHONE	DATE	TIME	STATUS
BEACH, TOM	1000 W. 10TH ST.	CHICAGO	IL	60607	312/204-2459	777777	03/28/71	8509
BREITLANDER, KIRK	20145 ROBERTA AVE.	CHICAGO	IL	60648	312/682-4614	777777	03/28/71	8509
BURDICK, MARK	1523 CLEVELAND	EVANSTON	IL	60202	312/475-5148	810258	06/02/54	8509
BURR, KEN	2355A RUPERT	WHEATON	IL	60188	312/653-5787	810258	05/28/71	8509
CARNEY, SCOTT W.	3780 WINSTON DR.	HOFFMAN ESTATES	IL	60145	312/359-8637	833867	08/03/55	8512
CORLIAND, CHICK	1725 MOUNTAIN COURT	DEERFIELD	IL	60015	312/945-5288	8584	05/22/67	8512
CUREY, CRAIG	1330 E. RAND RD.	DES PLAINES	IL	60014	312/827-0778	835512	04/04/57	8510
DUGAN, JON W.	602 F EUCLID	GLEN ELLYN	IL	60137	312/460-7292	8583	06/22/72	8503
FOUNTAIN, ROBERT B	2348 N CEDAR LN	LAKE ZURICH	IL	60047	312/433-7555	832000	06/17/38	8510
GABRIUS, AL	344 ALABAMA	CAROL STREAM	IL	60188	312/653-7545	8512	05/07/46	8512
GABRIUS, DAVID	346 ALABAMA	CAROL STREAM	IL	60188	312/653-7545	8512	01/27/73	8512
GABRIUS, JUSTIN	344 ALABAMA	CAROL STREAM	IL	60188	312/653-7545	8512	04/24/76	8512
GARY, RICHARD	331 THIRD ST	NORTHFIELD	IL	60093	312/722-2075	822906	12/27/53	8509
GENIUSA, ED	124 WHEELING AVE.	WHEELING	IL	60093	312/537-3393	822906	05/28/73	8509
GORDON, F. SCOTT	474 MAIN ST	GLEN ELLYN	IL	60137	312/460-2653	809912	1/26/68	8504
GUICCI, TONY	1788 OLD DEERFIELD RD.	HIGHLAND PARK	IL	60035	312/831-5040	8504	07/29/51	8504
HOGUE, JAMES W.	20 S. TOWA ST.	ADDITION	IL	60101	312/834-5619	8504	02/15/72	8504
JANSON, CLIFFORD	2017 MAIN ST.	EVANSTON	IL	60202	312/860-8655	8509	10/18/53	8509
KAPLOW, ROBERT G.	1628 WATERFORD LN	PALATINE	IL	60074	312/934-1168	8011286	08/15/48	8509
LEGANDY, DAN	3088 PADDOCK RD. #211C	OMAHA	NE	68124	312/831-5378	8509	12/10/65	8509
LIVONN, LARRY	1811 LAWRENCE	HIGHLAND PARK	IL	60035	312/831-5378	8509	02/08/68	8509
LORR, ROYCE	187 GRANDVIEW	GLEN ELLYN	IL	60137	312/831-5378	8509	03/04/37	8509
MARY, TIM	714 N. STODARD	WHEATON	IL	60187	312/688-7186	8508	03/14/72	8508
MENFILL, JERRY	503 W. LINCOLN	WHEATON	IL	60187	313/979-0032	8509	08/11/76	8509
MENFILL, MARK	503 W. LINCOLN	WHEATON	IL	60187	313/979-0032	8509	06/25/75	8509
MENAPK, JIMMY	720 PATRIVUE AVE.	GLEN ELLYN	IL	60137	312/790-1242	8509	11/22/65	8509
MENAPK, RON	720 PATRIVUE AVE.	GLEN ELLYN	IL	60137	312/790-1242	8509	02/28/57	8509
MIXA, LAWRENCE	7085 IRONQUITS CT.	WOODRIDGE	IL	60517	312/985-2156	834515	12/06/63	8509
MILLER, BRAXTON	P O BOX 551	WORTHON GROVE	IL	60053	312/204-0258	823860	02/08/63	8509
MYKILA, PAUL	7452 WOODRIDGE DRIVE	WOODRIDGE	IL	60517	312/985-3277	8509	02/08/63	8509
NEAL, DENNIS	5116 W. WELLS	CHICAGO	IL	60641	312/284-8015	8509	02/08/63	8509
OLSTEAD, DAVID	327 RANDON AVE.	GLEN ELLYN	IL	60137	312/460-7847	8509	04/08/71	8509
ORNE, DAVID	1116 E. FOREST AV.	WHEATON	IL	60187	312/688-0431	8501	06/15/41	8501
PATRICK, THOMAS F.	8847 LAKE ST.	NILES	IL	60648	312/478-0697	802276	06/15/41	8501
PERKINSON, PAT BARCOK	906 W. COLLEGE #427	IRRAWA	IL	61801	312/520-3037	830146	06/15/41	8501
PHILLIPS, JOHN	801 1848 S. ROSELLE RD	SCHAUMBURG	IL	60172	312/658-7042	8509	07/13/63	8509
PIERCE, GEORGE A JR	19 LAKE DR.	LAKESHILLS	IL	60182	312/894-4739	828139	07/18/30	8509
PIERCE, GEORGE A JR	513 ROCKTON LANE	SCHAUMBURG	IL	60193	312/894-4739	828988	04/01/74	8509
PIELI, MATT	513 ROCKTON LANE	SCHAUMBURG	IL	60193	312/894-4739	851267	11/11/67	8512
RANDMAN, STEVE	564 LITSE LANE	ROLLINGBROOK	IL	60430	312/730-7968	832216	12/29/67	8512
SCHWARTZ, MARK	3636 E. COLUMBINE	PHOENIX	AZ	85032	602/871-3771	8512	03/31/71	8512
SCHWARTZ, MARK	214716 RUCKINGHAM RD	GLEN ELLYN	IL	60137	312/460-9078	8512	03/13/37	8512
SCHWARTZ, MARK	1834 CHARIING CROSS	LOWARD	IL	60148	312/620-6732	8512	09/26/47	8512
SMITH, ROBERT W.	4015 N. WHIPPLE ST.	CHICAGO	IL	60614	312/583-7588	8512	1/13/60	8512
STRATTON, TONY	2103 RECK DR.	RICHMOND	VA	23221	312/834-3398	8512	1/22/52	8512
TORBERMAN, RALF	1817 SOUTHPORT	LITSE	IL	60532	312/963-7277	8512	07/30/72	8512
TULEA, BILL	117 JULIE RD	ROLLINGBROOK	IL	60430	312/730-9188	8512	03/11/71	8512
VELLENZ, HENRY	810 N. CUYLER	DAK PARK	IL	60430	312/386-6238	8512	02/12/78	8512
WALLS, DAVE R.	1408 S. OAKLAND AV.	VILLA PARK	IL	60181	312/834-3398	8512	1/22/52	8512
WALLS, DAVE R.	1438 S. DANRUPY DR.	PHOENIX	AZ	85308	312/834-3398	8512	1/22/52	8512
WIFEK, KEVIN C.	487 COTTAGE AVE.	GLEN ELLYN	IL	60137	312/834-3398	8512	07/30/72	8512
WONOWSKI, KEITH	105 N. HUDSON	WESTMONT	IL	60550	312/960-0326	8512	03/11/71	8512
WONOWSKI, KEVIN	105 N. HUDSON	WESTMONT	IL	60550	312/960-0326	8512	02/12/78	8512

NIRA MEMBERSHIP LIST

COMPILED BY "BULLET" BOB KAPLOW

SOMEONE'S
1/2 APD
MODEL
CORN

QUALIFIED!
HI! I'M BOB KAPLOW'S NARAM-26
PLASTIC MODEL/FOOD CONTAINER.
I GOT 3 STATIC POINTS, BUT POINTS
IS POINTS. DON'T FORGET TO
STOP BY

GLENELLYN
TOY AND CARD SHOP
476 MAIN ST
GLENELLYN
BUY MIRA SOME POINTS TODAY!

STUPID
METAL
SCULPTURE

DEL
4-
EVER

SCALE
DOG

Larry Mika
7905 Iroquois Court
Woodridge, IL 60517

