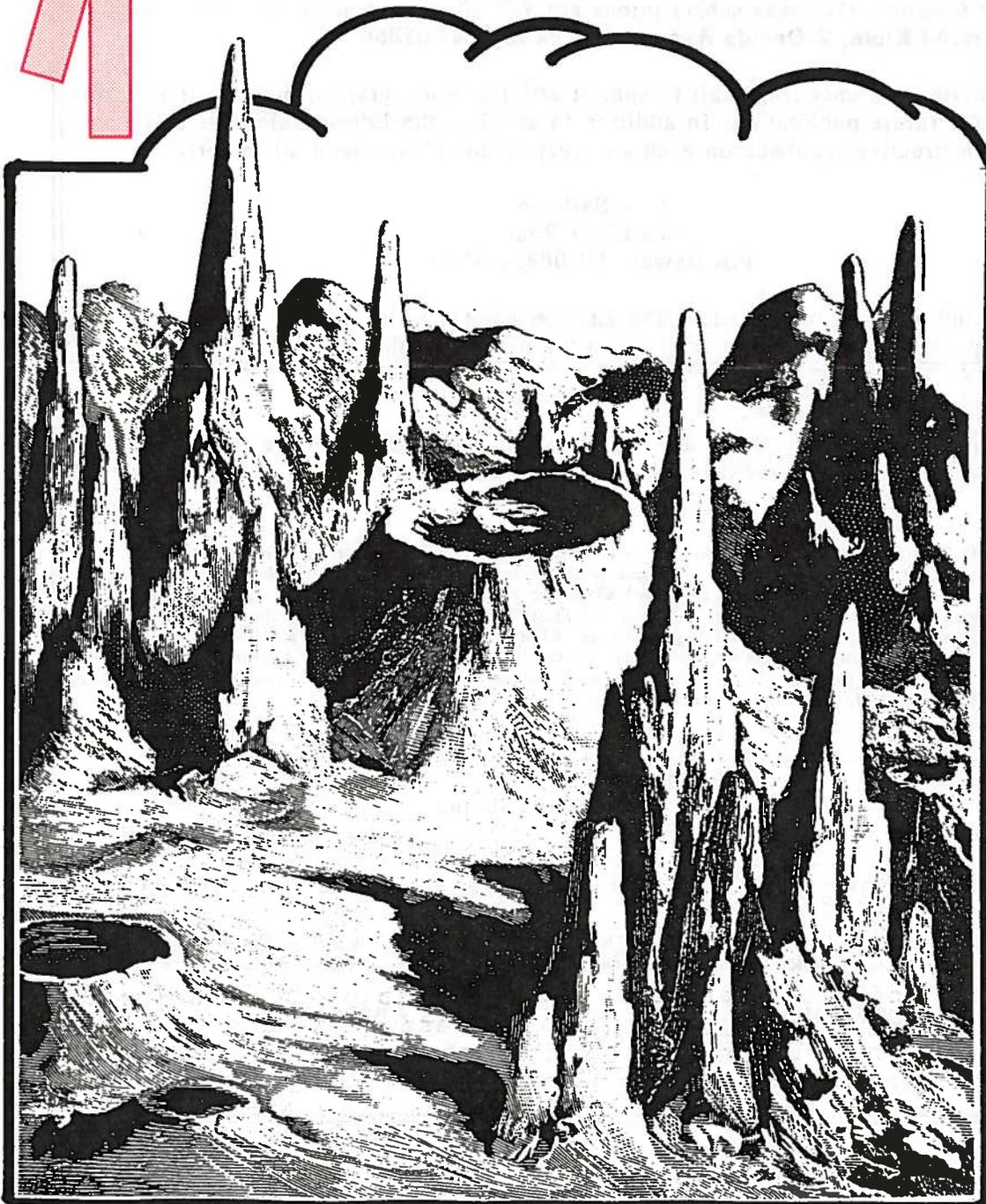


LAUNCH RACK



ISSUE 123



The Launch Rack

The Official Publication of The
Garden State Spacemodeling Society

MARCH/APRIL 1998

ISSUE 123

The Launch Rack is the official publication of the *Garden State Spacemodeling Society* (Section 439 of the National Association of Rocketry) and is published for the enlightenment and entertainment of its membership.

Others interested in receiving this publication may do so for the annual subscription rate of \$7.50 for 6 issues. Overseas subscriptions are \$17.50. Please send this money payable in USD to **Arnold Klein, 2 Oneida Avenue, Rockaway, NJ 07866.**

The Editor invites and encourages all to submit articles, photographs, plans, letters to the editor, etc., for future publication. In addition to articles, the Editor welcomes and encourages constructive feedback on each an every issue. Please send all material to:

Jack Sarhage
875 River Road
Piscataway, NJ 08854-5549

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LAUNCH WINDOW:

Anyone wishing to attend any GSSS activity should call the GSSS hotline (908) 658-9417 the morning of, to verify the event is still on. If the event is cancelled, the recording will be updated at 9AM.

A NOTE ON NORTH BRANCH PARK. Please keep in mind that the park and weather conditions dictate what we allow to fly. Just because a rocket is under the one pound limit, do not assume it is an automatic launch. If the RSO does not feel the model can be safely flown or recovered within the park's boundaries, it will not be flown regardless of the weight or impulse. If some other activity shows up and starts using the adjoining fields, the RSO will reduce impulse for all flights. So, bring some small stuff just in case. **REMEMBER, WE SHARE THE PARK.** We do not pay a fee and most of us are not a resident of that county. Rocket flying fields in New Jersey are in short supply, and we are protective of the fields we have. If you're unhappy with this limitation, then we invite you to help us in gaining legal access to privately owned, large, open fields.

Sat., March 28, 1998

10:00 am - 3:00 pm

Sport Launch

Sat., April 25, 1998

10:00 am - 3:00 pm

Fun Fly: Open Spot Landing

Sat., May 30, 1998

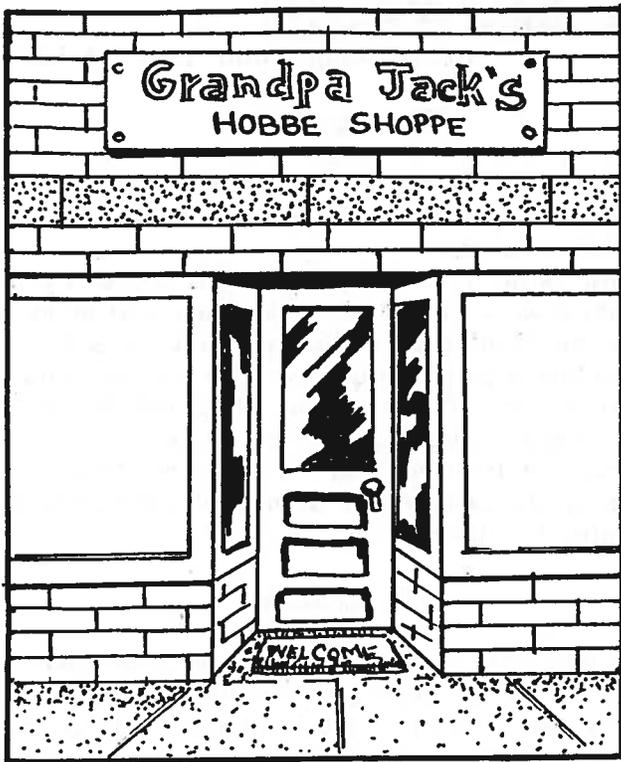
10:00 am - 3:00 pm

Fun Fly: A (Alpha
Type Model) Duration

ALL OF THE ABOVE LAUNCHES WILL BE HELD AT NORTH BRANCH PARK

ON OUR COVER: The landscape respresented is pretty bleak. Do you agree? Well that is exactly what will happen if you do not help out with this newsletter. So, send in your plans, articles, photos, drawings and cover artwork.

NOTE: DEADLINE FOR NEXT ISSUE IS APRIL 20!!!



IS IT THAT TIME AGAIN? It seems that only days have passed since I sat down at the word processor to knock out an issue of our newsletter.

CONTRIBUTING EDITORS: First, I want to thank Bob Gill for his contribution on page 5. Please note that Bob has planned the events for 1998's "Fun Fly". Also, he gives you a "Club Update". Thank you, Bob.

The plan included this issue is another Tim Milligan design of Apogee Components. Show your appreciation of his efforts by supporting Apogee. Got their catalog? If not why not send a SASE to Tim at Apogee Components, 708 Piedra Dr., Suite C, Cañon City, CO 81212.

Bob Zabriskie's "Sky Watch" is also in this issue with interesting things to look for in the night sky. Thank you, Roberto.

Why not join in the fun and send in a contribution of your own. I am especially interested in plans, how-to articles, building tips, or anything related to model rocketry and space. Remember, this newsletter is yours and what you see in it is up to you.

COVER ART: One of the hardest items we editors have of getting is things to put on the cover of the newsletter. So, I am looking for photos (I promise that re-production of them will be better). How about a picture of your

wife, daughter, or girlfriend holding one of your favorite rockets to grace our cover. Just remember that we use the portrait format for the cover, ok, vertical. How about some original artwork? It can be in pen and ink, for the best re-production, or color, though it will be printed in black and white. Do you draw using your computer? Fine, send us a sample of what you do for the cover. Actually, anything related to rockets and space, etc is all right

If you use something that someone else has done, be sure to get their permission to use it. Of course we give credit where it is due.

SWITCHING HATS: Now as President of GSSS I want to say that 1998 has started off well, As Bob Gill indicates we had our first club meeting of the year at the January launch. What the two new VP's let it be known from their first talks is that they feel we need to increase membership and to get the club more active. We kicked around several ideas and well work on them at future meetings.

The January launch was a success. It was windy but not cold as some January launches have been in the past. Memorable launches were Bob Zabriskie's annual shuttle launch in memory of the shuttle "Challenger" and crew.

Arnie Klein, Bob Zabriskie and yours truly set up a display at the Trailside Nature and Science Center in Mountainside, NJ in connection with their "Astronomy Sunday". We talked to lots of the folks and are sure of seeing lots of new faces at future launches. That is one of the best ways and a fun way to meet new prospective members. In addition to GSSS, members of the "U.S.S. Avenger" Star Trek Fan Association, Hayden Planetarium's Frank Somers speaking on the Eclipse Divine: Stonehenge Saros and Eclipse Prophecy", and several planetarium shows throughout the day. Next year? All I can say is that I how YOU will help out then.

Forms for the Golden Igniter award were on hand at the January launch though I do not think any of you filled them out. Hey, you are supposed to be having fun with this hobby.....do it!

POINTS NIGHT AUCTION: I would like to also get some of the social activities on the club calendar, such as the Christmas Party. As part of that event would be an auction of model rocket kits, etc....No, you would not use money but points that you have earned during the year.

Continued on the next page.....

Following is a sample list.....

Attending a club meeting	10
Build a model to display at meeting	15
Funfly participation (per event)	
First place	50
Second place	35
Third place	25
Club demo or booth display	100
Serving as office of the club	
President	500
Vice-President	400
Secretary/Treasurer	400
Contest Director	300
Committee Chair	200
Committee member	100

Well you get the idea. If you are interested let me know. We can make it retroactive to January 1. It is just another way to have fun with this hobby and belong to the section.

I leave you with the following.....

It is not the critic that counts
 Or how the strong man stumbled and fell,
 Or where the doer of deed could have
 done better.
 The credit belongs to the man who is actually
 in the arena,
 Whose face is marred by dust and sweat
 and blood,
 Who strives valiantly,
 Who errs and comes up short again and again,
 Who knows the great enthusiasm
 The great devotion,
 And spends himself in a worthy cause;
 And if he fails,
 At least he fails by daring greatly;
 So that he'll never be with those timid souls
 Who know neither victory or defeat.

Theodore Roosevelt



SKY WATCH

Contributing Editor: Bob Zabriskie

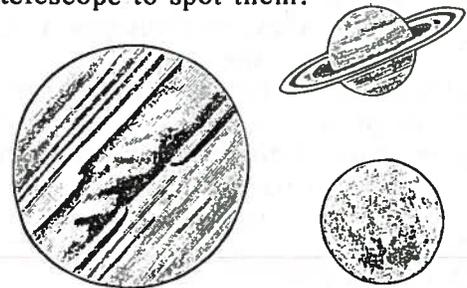
The March Sky

Mercury and Mars: Are very close together although very low in the Western sky around the 10th after sunset.

Saturn: is in the same area but well above. By the third week of the month Mercury will be as high and to the right of Saturn. Mercury is a very elusive planet to observe. Try to find it on the it. On the 28th the moon, Mars and Saturn will form a triangle. If you are up before morning twilight you can't miss the brightest "star" in the east, Venus. Jupiter also becomes a morning star later in the month.

The April Sky

This month Venus and Jupiter close in on each other (Naturally, Spring is coming. Ed. Note) and on the morning of the 22nd and 23rd will be less than 1/2-degree apart in the pre-dawn sky. The moon joins them on the 23rd. This will be spectacular. DON'T MISS IT! By the end of April Mercury becomes a morning star. There are no "naked eye" planets in the evening sky as Mars and Saturn disappear in the Sun's glow. Of course, Uranus and Neptune are there but, you need a telescope to spot them.



FIFTEEN YEARS AGO IN The Launch Rack

The year is 1983, the newsletter's name is change to "Launch Rack". Published 10-times that year, the covers of March and April are to the right. The section was then the Bergen County Model Rocket Society. March's issued advertised the second Section Meet. On the cover of April is the brand new "launch rack"

FUN FLY '98

- April 25 Open Spot Landing
- May 30 A - (Alpha Model Type)
Parachute Duration
- June 27 A - Glider Duration
(Anything that glides)
- July 25 A - Streamer Duration
- Aug 29 ½A - Parachute Duration
- Sept 26 A - Ping Pong Ball

Open to all GSSS members.

- Scoring will be based on the best of two (2) flights for each event.
- Events may be flown at the scheduled launch or at the following launch. This will give members two opportunities to participate.

Please try n' fly

Last years winner, Ted Rebetje, will receive a 1998 Jeep Grand Cherokee for first place. Just kidding, Arnie hasn't told me what the prize is yet....

Club Update:

January 31 marked the first launch of 1998. Although the weather was not very cooperative, (cold and windy) a number of successful flights were made and fun was had by all.

The first informal club meeting of 1998 was held at the launch. Jack introduced the new club officers; Jack Sarhage – President, Ken Goddard and Kurt Koegel – Vice Presidents and Arnold Klien – Secretary/Treasurer.

The major issue discussed was increasing club membership. Each GSSS member should make it a goal to introduce at least one person to the hobby each year (the more the merrier).

Along with increasing the general membership comes the question of active members. Although the membership is at 90 something registered members, the general consensus indicates that most are just interested in the sport launches. If there is enough interest perhaps the club can hold static meetings as it has done so in the

past at the area libraries. Also, if there is enough interest, maybe the club can hold sanctioned NAR contests. Last years attempt had a dismal turn out of only 2 or 3 participants. Remember, the members dictate the direction.

Also discussed was the pursuit of seeking the required FAA notifications to allow the weight limit to be increased from 1lb to 3lbs. Given the current field location and its relation to the surrounding airports, this proposition seems unlikely. Bob Nee has agreed to pursue this through the proper channels. Since safety is our primary concern and our field is located within a park, stringent safety regulations will be drafted if this does come to pass.

THE NAR'S 1-2 PUNCH!

Plan Ahead!
1. NATIONAL SPORT LAUNCH '98
May 15, 16 & 17

<p>Host Club- Summit City Aerospace Modelers, NAR Section 282/182</p> <p>Dates- May 15, 16 & 17, Friday - Sunday, range opens 9am each day.</p> <p>Location- Academy of Model Aeronautics National Headquarters field, 5050 Memorial Drive, Muncie IN, Over 1000 acres of closely mowed grass.</p> <p>Official Hotel- Muncie Ramada Inn, Special discount rate \$45 per night, must mention that it's for the event at the AMA for that weekend, reservations (765) 288-1911, as</p>	<p>usual participants must make their own reservations.</p> <p>Waiver- 10,000 feet AGL applied for (this is the waiver we have been requesting for this field).</p> <p>Other Features- Many on-site-vendors, hot food vendor, high power certification.</p> <p>For more info- visit www.mid.net/~bobhart/ or email Bob Hart at bobhart@mid.net or Ned Blumenschein at 102170.3164@compuserve.com</p>
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Help us celebrate the
40th anniversary of the NAR

2. NARAM 40

August 8-14, 1998

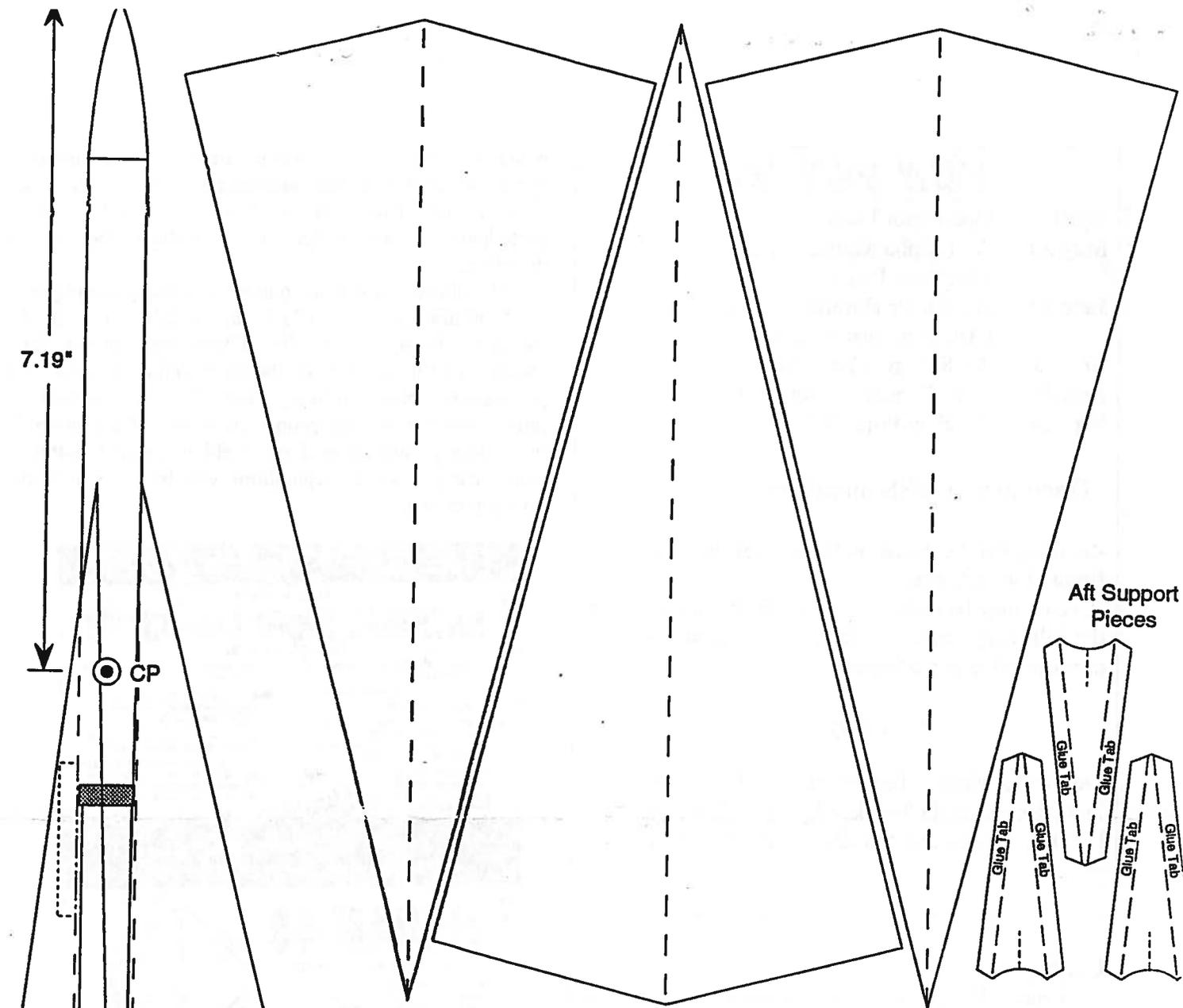
<p>Date: August 8-14, 1998</p> <p>Location: Muncie, Indiana, AMA National Flying Site. Location of the '98 National Sport Launch</p> <p>Events: 1/1A PD 1/2A FW Multiround A/B/G B HD B SD Multiround B AH D DELA Sport Scale R&D</p> <p>Range: Sport Range Opens Saturday, Competition starts Monday.</p> <p>Waiver: Waiver to 10,000ft anticipated</p>	
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Web site: www.cyberia.com/pages/feveryear/naram40.htm
Contact: Glenn Feveryear
 RD 1 Box 1C
 Delta, PA 17314
 Phone: 717-456-5570
 E-mail: feveryear@cyberia.com

TREASURERS REPORT SUBMITTED BY ARNIE KLEIN

FOR THE MONTHS OF JULY 97-FEB 98

Total in treasury JUNE 97	\$799.73
Income JULY97 -FEB 98	\$222.00
Disbursements JULY97-FEB 98	\$221.68
New total	\$800.05



Fins: Transfer pattern to index card-stock. Cut out on solid lines. Score on dashed line and fold in half. Cut out aft support piece and glue to aft edge of fins. Allow glue to dry before gluing fins to body tube.

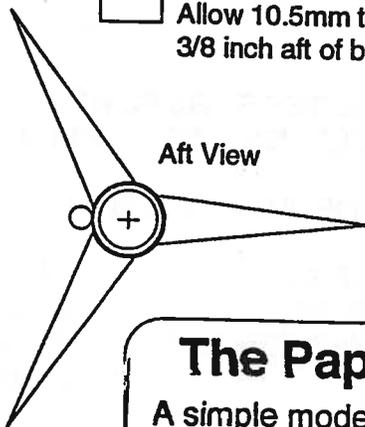
Allow 10.5mm tube to extend
3/8 inch aft of body tube

Parts List:

- (1) Apogee 13mm Nose Cone
- (1) 13mm Tube (9.0 inch long)
- (1) 10.5mm Tube (3.5 inches long)
- (2) Apogee CR10-13 Centering Rings
- (1) Apogee Motor Block (EB-10)
- (1) Kevlar Shock Cord (18 inches long, 100#)
- (1) Streamer (1 inch X 18 inch)
- (1) Launch Lug (1 inch long)
- (3) Paper fins (Index cardstock)
- (1) Clay Nose Mass (Add after installing motor to move CG forward of CP)

Recommended Apogee Motors

- 1/42-2 (first flight)
- 1/2A2-4
- A2-5
- B2-7



Aft View

The Paper Chaser

A simple model using paper fins!

Designed by Tim Van Milligan
October, 1994

Support Your Local Club!
Let's do Launch Together!

Garden State Spacemodeling Society of New Jersey
National Association of Rocketry Section 439

1998 FLYING SCHEDULE *

DIRECTIONS TO NORTH BRANCH PARK LAUNCH SITE

North Branch Park is very near the traffic circle junction of NJ Routes 22, 28, 202, and 206, near Somerville. Follow 202 South from the circle for 2 miles, past Ortho Pharmaceutical and Harris Corp, under railroad trestle marked "4H is Tops", to right turn onto Milltown Road. Make first left after firehouse and 4H Center on right; follow path to open field. Monthly launches from 10-3.

FROM NORTH

NJ Turnpike South to Exit 10, 287 North to Exit 13,
202/206 South to Circle

FROM SOUTH

202 North to Milltown Rd.; or 206 North to Circle

FROM EAST

287 North to Exit 13, 202/206 South to Circle

FROM WEST

Rt. 78 or Rt. 80 East to 287 South to Exit 13,
202/206 South to Circle



Come join us for a full
year of sport flying.
For all launch information and club
information contact the GSSS
Hotline : 908-658-9417
or send mail to
Bob Zabriskie
RD#2
3 Peachtree Rd Basking
Ridge NJ 07920

Visit our WEB site at:
<http://207.86.164.2:80/GSSS/>

MONTHLY SPORT LAUNCH Launch Times 10:00-3:00

Sat 31 Jan	Northbranch Park
Sat 28 Feb	Northbranch Park
Sat 28 Mar	Northbranch Park
Sat 25 April	Northbranch Park
Sat 30 May	Northbranch Park
Sat 27 June	Northbranch Park
Sat 25 July	Northbranch Park
Sat 29 Aug	Northbranch Park
Sat 26 Sept	Northbranch Park
Sat 10 Oct	Northbranch Park
Sat 28 Nov	Northbranch Park
Sat 19 Dec	Northbranch Park

1 LBS MAX LIFTOFF WEIGHT
MAXIMUM ENGINE THRUST
80 NEWTON SECONDS
"When park conditions permit"

Call to confirm all dates and
locations. NAR/AMA insurance is
highly recommended at all
launches.

**DIRECTIONS TO NORTH BRANCH
PARK LAUNCH SITE**

North Branch Park is very near the traffic circle junction of NJ Routes 22, 28, 202, and 206, near Somerville. Follow 202 South from the circle for 2 miles, past Ortho Pharmaceutical and Harris Corp, under railroad trestle marked "4H is TIPS", to right turn onto Milltown Road. Make first left after firehouse and 4H Center on right; follow path to open field. Monthly launches from 10-4.

FROM NORTH
NJ Turnpike South to Exit 10, 287 North to Exit 13, 202/206 South to Circle

FROM SOUTH
202 North to Milltown Rd.; or 206 North to Circle

FROM EAST
287 North to Exit 13, 202/206 South to Circle

FROM WEST
Rt. 78 or Rt. 80 East to 287 South to Exit 13, 202/206 South to Circle

GSSS MEMBERSHIP APPLICATION

Name _____
Address _____
City _____ State _____
Zip _____ Birthdate _____
Phone Number _____
NAR number _____ GSSS number _____

Membership Category (Check One)
 Junior (Under 16)\$5.00
 Leader (16 through 20)\$7.00
 Senior (21 or over)\$10.00
 Family Plan (Deduct \$2.00 for each additional family member, only one Launch Rack will be sent.)

I pledge to abide by the NAR/HIA Safety Code and GSSS Constitution and Bylaws in all my non-professional rocketry activities.

Signed _____ Date _____

Send this application along with check for dues payable to: Arnold Klein, GSSS Secretary / Treasurer
2 Oneida ave Rockaway N.J. 07866

GARDEN STATE SPACEMODELING SOCIETY -- NAR SECTION #439
 R. Zabriskie
 RD #2 Box 227
 Peach Tree Rd.
 Basking Ridge, NJ 07920



TO:

Robert Nee
 222 Willow Avenue - 2A
 Hoboken NJ 07030

THE LAUNCH RACK
 NEWSLETTER OF NEW JERSEY'S SPACEMODELING SOCIETY