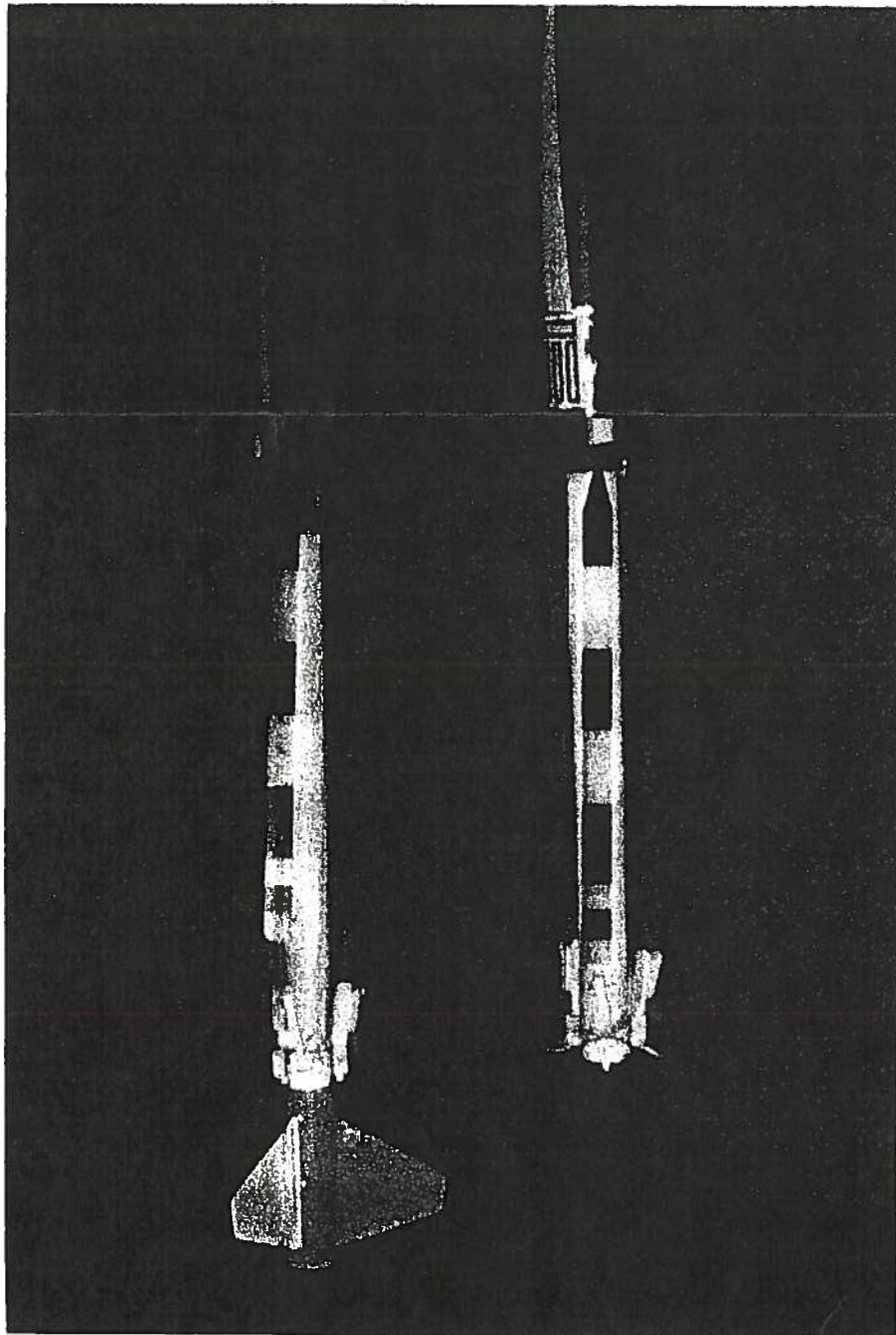
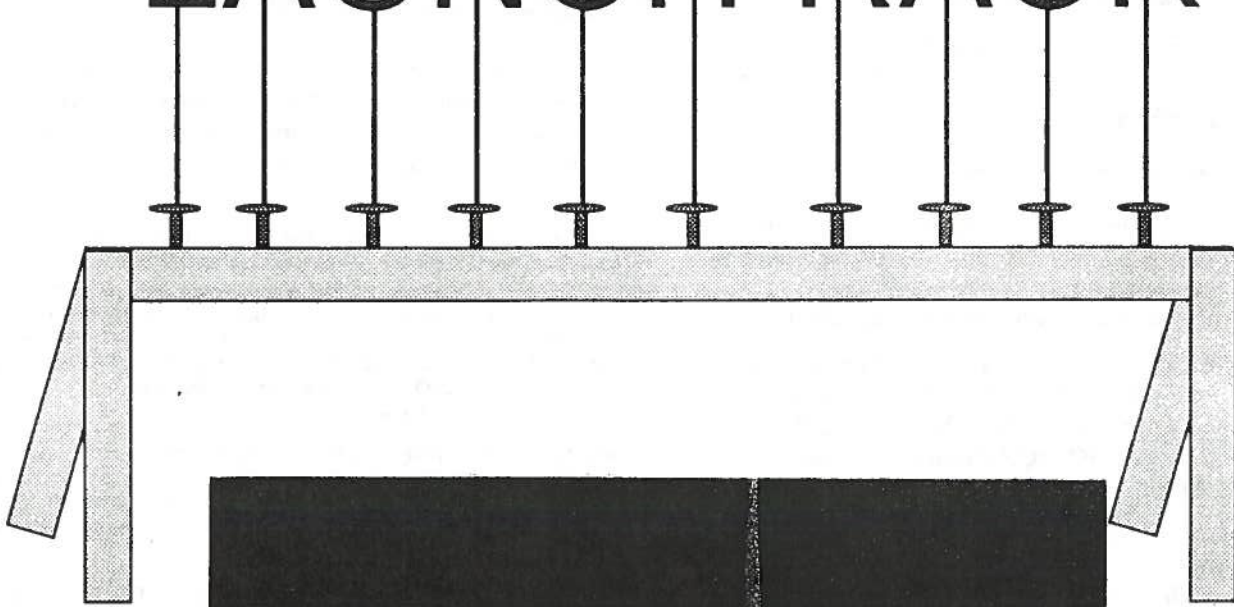


LAUNCH RACK



The Launch Rack

The Official Publication of The

Garden State Spacemodeling Society

NOV 2001 - APR 2002

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 in USD to **Arnold Klein, 2 Oneida Avenue, Rockaway, NJ 07866.**

The Editors invite and encourage all to submit articles, photos, plans letters to the editor, etc., for future publication. In addition to articles, etc., the Editors welcome and encourage feedback on each and every issue. Please send material to:

Stephen and Theresa Flynn
1 Ridgeway Ave.

Blairstown, NJ 07825

e-mail: teri@eclipse.net

Visit the GSSS web site at www.robnee.com/gsss/

As an added note, we especially welcome e-mail attachments in ASCII (.txt), MS Works, or Adobe format as well as digital graphics and digital photos. Photos that work well when converted to black and white would be the best.

Non-copyrighted material published in The Launch Rack may be used by other publications provided proper credit is given to the original author and this newsletter.

Your Club Officers

President Jack Sarhage

Vice President Bob Gill

Vice President Steve Pantuck

Treasurer/Secretary Arnold Klein

Section Advisor Bob Zabriskie

LAUNCH SCHEDULE

Anyone wishing to attend any GSSS activity should call the **GSSS Hotline 908-658-9417** the morning of the event to verify if the event is still on. If the event is canceled, the recording will be updated at 9:00 am.

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 adjoining fields, the RSO may 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 of privately owned, large, open fields.

UNLESS NOTED ALL LAUNCHES WILL BE HELD AT NORTH BRANCH PARK from 10:00 AM to at least 3:00 PM your Contest Director can get clearance to launch longer into the afternoon. All launches are on Saturdays and are at least Sport Launches. Some contests have yet to be decided.

April 27, 2002

Contest: Funtest 2002 Section Meet

May 18, 2002

Maybe the Rain Date for Funtest 2002.

June 22, 2002

Contest: Summer Challenge 2 Open Meet

July 27, 2002

August 31, 2002

September 28, 2002

A Saturday in October Yet To Be Determined.

November 23, 2002

December 21, 2002

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ON THE COVER:

photo by: Theresa Flynn

DROUGHT!

Theresa and I appreciate the thanks that Jack just gave us for our work on The Launch Rack and for my work as a Contest Director. I am sorry but I cannot help but feel that something was missing because of the means the thank you was delivered.

I also am sorry that we have not a bulletin out in a while. I have had some exhausting work that had to get done this winter at my job, 67 miles away from our house. We have also had problems with our PC printer so we couldn't print out the proofs of bulletin. But, a big part of the problem with the bulletin is there was a drought in articles. There were no submissions to print. What's worse now is that there appeared to have been a President's Newsletter that could have been printed in "the club's" bulletin. We would have been able to publish much earlier if we had Jack's material. This leads me to the question- Does the leadership really want to communicate directly with me? I am sorry if I was not around when the club formed. I came along to try to broaden the scope of the club's model rocketry activities like Jack Sarhage suggests we do. If you guys really want to do things your way then please provide me with submissions to your newsletter and ideas on what contests you (all you members) want to fly. Jack, if you really want to thank me then please publish your newsletter in the club's newsletter.

Stephen E. Flynn

Now, here is the editorial that I wanted to print before the second newsletter "event".

Editorial

(in the style of The Lord of the Rings)

Another year is upon us with nice weather already. This weather inspires us "elves" (as a stock market reporter once called us Techies) to ask ourselves what it we want to do with our precious leisure time. When we ask each other what we ought to do, some times the conversation comes out.

Elve 1: "What do you want to do?"

Elve 2: "I don't know. What you want to do?"

Elve 1: "I don't know. What you want to do?"

Repeat until you're ready to tear your hair out.

So once again I raise my voice "To Whom It May Concern:" (if anyone) and make this year's suggestions for contests, **both NAR and NON-NAR Funtests**. First, as any planner might say, what resources do we have? We have the interest of the people in two states- NJ and PA. We have the experience of GSSS and the great exuberance of SoJars and a number of seasoned Independent flyers. With the combined abilities of these three groups we should have a "dynamite" year for fun flying and contest rocketry (bad pun intended).

When considering NJ rocketry we might also consider that we could arrange to have contests at either the GSSS field or the SoJars field. They both have their restrictions- trees at GSSS and distant condominiums at SoJars. We still appear to have two interested clubs that may be able to allow us to combine efforts to have challenging meets. Should I dare to "face the eye of Saruman" and sanction a Funtest 2002 Section Meet and propose a Summer Challenge 2 Open Meet this contest year? Perhaps an Open Skies 2002 in the next contest year? The Funtest 2002 is set for the GSSS April laungh and June for the Summer Challenge. I am thinking sometime between the end of August and the end of November for Open Skies? These would be both NAR meets and Funtests.

Then major contests ahead are Ramtech and NARAM and, once again I have planned to have the club fly events similar to those meets so that we are well practiced for our desired goals. Having some knowledge now of both fields, I go with the most obvious performance events to hold such as 1/2A Parachute Duration and B Eggloft Duration. It also appears that Sport Scale could be worth another try.

Other popular events are A Streamer Duration, Streamer Spot Landing and 1/4A Boost Glider (for you Micro-Max

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fans!). Of course, some of us wilder types would not mind the craziness of D Dual Eggloft Duration or another attempt at conquering Helicopter Duration (You at Open Skies 2001 know how much we could improve on that one!). How about A Helicopter Duration?

For a **non-contest** day at GSSS we could have rudimentary altitude tracking. We could use one scope as was offered by one of our Independent flyers and have an altitude tracking / calculation station for **any** flyer who wants an estimate on how high her or his rocket flew. People who are heading for Ramtech could use this as an opportunity to "calibrate" their rockets for the Set Altitude competition.

Please prove that "the pen (or at least the keyboard) is mightier than the sword" and send us feedback. Note that those people who contacted your CD in the past have usually gotten their way with events. This is not the authoritarian land of Mordor (though I must admit I travel through similar surroundings to get to work). You all have a voices and I am challenging you to speak up.

Stephen, The Olde Contest Director

Announcing Funtest 2002 Section Meet

Events:

Streamer Spot Landing

1/4 A Parachute Duration

1/2 A Parachute Duration

Sport Scale

Your's truly Stephen Flynn has volunteered to be CD and RSO again this year. But this year the contest will be open to all GSSS members, not just the NAR members. Of course we will also have it as a NAR Section Meet for NAR members.

I chose these events in order to practice for RAMTECH in June. Unfortunately, the rain date might have to be the June launch after Ramtech unless you want to make a trip to Andover NJ at another rain date which only a happy few have done during other meets.

No prizes have been purchased at this time but the winners will be published in the newsletter. If

someone would like to get prizes/ribbons or trophies please let me know and we could have a small launch fee to cover expenses.

Just a side note, your editor and assistant editor would like you to know they are married twenty years this June so Ramtech should be extra fun for them. We are going to provide a sheet cake for the people attending one of the launches to introduce everyone to our special celebration year. Hope your enjoying the slice! The 67 mile commute to work is a good time too! (haha)

Announcing Yet Another Contest:

Summer Challenge 2 Open Meet (And Funtest)

This NAR Open meet and GSSS Funtest needs a volunteer to help take down the launch system and return it to Bob Z's house around 5:00 (or earlier if it rains) the day of the launch so that we can continue past the normal 3:00 launch end to get more Open Meet flights in. Please contact Stephen Flynn, Arnie Klein and Bob Zabriskie ASAP so that we can pull this off.

Events: ?????? Please tell us what you would like to fly! We need the suggestions well in advance so that they can be published in the next issue!

Other Area Events:

Here is a list of upcoming contests in our area for the Contest Year starting 7/1/01, ending 6/30/02. This was taken from the website of the Northeast Contest Board of the NAR and the NARAM 44 website.

June 15-16, 2002

RAMTECH 10

Center Valley, PA - Not very far west of the GSSS Bridgewater field.

Info used from the Ramtech website-

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<http://rcw.dyndns.org/spaar/ramtec.htm>

Events:

1/2A Parachute Duration

A Rocket Glider Duration

B Helicopter Duration - Multiround

Set Altitude (175 Meters)

Sport Scale

RAMTEC-10 will be flown at the DeSales University (formerly Allentown College) in Center Valley, PA. This is the location of three

NARAM's, (18, 23, 26), as well as numerous open and regional meets over the past 29 years. Thermal activity is great in the Lehigh Valley, this time of year, which has spawned many U.S. Model Rocket

Performance Records at the yearly event. Trophies will be awarded for 1st place in each event (divisions A, B, C and Team) and certificates for 2nd thru 4th place.

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The Range will be open Saturday from 9am to 5:30pm and Sunday from 9am to 2pm. Events may be flown either day with the exception of Set Altitude which must be flown on Saturday.

The range is open for sport flying both days, during operation of the contest range. Flights will be limited to 3.3lbs and a total impulse of 160 nt-sec motors). DeSales University fields may

not be suitable for some high performance models, so use your discretion

Special Saturday night bar-b-que and the most unique trophies in RAMTEC history.

Registration fee for the competition is:

\$10.00 for A and B Division,

\$15.00 for C Division and

\$18.00 for Team Division.

Registration fee for sport

flying is: \$5.00 for one day or the weekend

Rooms are available for Friday thru Sunday in the college dorms. The dorms are air conditioned.

You will need to bring your own linens. Room check-in time is 4:00 pm.

Room Rates:

To Be Announced (Last Year - \$23.00) per night - Single

To Be Announced (Last Year - \$17.50) per person per night - Double occupancy

Registration forms will be available in April 2002.

Directions:

Take your favorite route to the intersection of PA 309 and PA 378. Proceed North on PA 378, approx. 2 miles. Turn right onto Landis Mill Road (follow signs to the Shakespeare Festival).

Cross the Railroad tracks on Landis Mill road.

At the top of the hill turn left into the college driveway. To the right; Conmy Halls will be on the right as you turn into the parking lot at the bottom of the hill.

Editors' Note

Don't forget some variety of shade- portable gazebos or umbrellas as the field is an open, sunny spot which requires at least sun screen. (All those PA farmers didn't turn that lovely tan color sittin' around the beach!)

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	Weighting Factor
B Altitude:	11
E Eggloft Altitude:	20
1/2A Parachute Duration:	7
C Helicopter Duration:	22
B EggLoft Duration:	17
B Boost Glide Duration:	19
C Rocket Glide Duration:	22
Sport Scale:	20
Research & Development:	36

Pro Sport Scale: DEMO
Contest Director: Scott Hunsicker

For the latest info. updates on NARAM go to
<http://www.nar.com>.

Open Skies 2001 Results

A great, enthusiastic meet was held at the SoJars launch field at Gloucester County College, NJ on December 2, 2001. The reason this meet came about was because the engine maker, Apogee components announced that he was stopping the production of micro engines (1/A 2 through B2) and so your CD got on the Internet and asked SoJars if they wanted to fly a meet before the engine's NAR contest certification expired at the end of Dec., 2001. SoJars enthusiastically accepted.

The events were as follows:

Events:	WF
Streamer Spot Landing	4
1/2A B/G	17
A Streamer Dur.	8
B Streamer Dur.	9
B Helicopter Dur.	21

Total WF 59 out of a possible 60

The weather was unseasonably warm-ish making for a great day of flying. Turn-out was great with a very spirited group of competitors. SoJars were flying the more reliable Estes engines while the rest of us mixed

Apogee and Estes. The Apogee engines proved the hazard of the "temptation". Their small diameter made them more efficient than other motors but their ejection charges were weaker. To make a long story short, SoJars proved that if you get a good sized group of competitors flying reliable rockets, you can win the meet.

The meet results changed a little after the results were sent in due to rulings by the NAR Contest Board on certain duration flights.

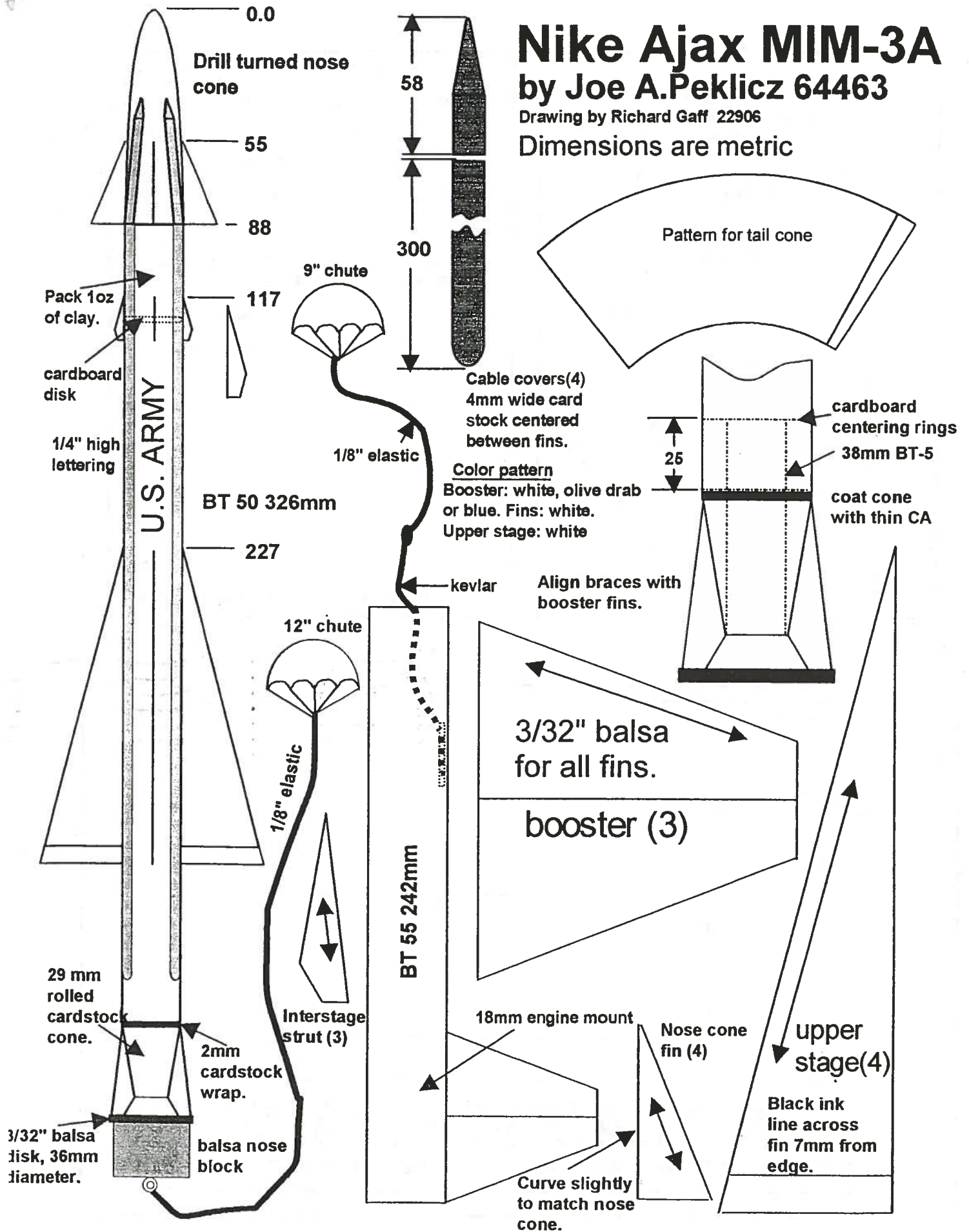
Also, only one SoJars member entered as a Funtest entry. Matt Puyor entered a B Helicopter Duration model which put him second in Funtest's B HD, moving Alex Bruccoleri to third in the non-NAR Funtest. All other meet results were the same for both the Funtest and the NAR Open meet.

Nike Ajax MIM-3A

by Joe A. Peklicz 64463

Drawing by Richard Gaff 22906

Dimensions are metric



**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 10-4.

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,
2 Oneida ave Rockaway N.J. 07866

**GARDEN STATE SPACEMODELING
SOCIETY -- NAR SECTION #439**

Robert Zabriskie
3 Peachtree Road
Basking Ridge, NJ 07920

TO:

Robert Nee
222 Willow Avenue - #2A
Hoboken NJ 07030



THE LAUNCH RACK
NEWSLETTER OF NEW JERSEY'S SPACEMODELING SOCIETY