

The Launch Rack

Newsletter of the Garden State Spacemodeling Society
Section 439 of the National Association of Rocketry

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April 2007

Silver Anniversary Local a Success



Pictured above are the winners of the Silver Anniversary Local. Pictured left to right are Bruce Canino (Yo Yodyne Team), Alex DeMarco, Rita Feveryear and Glenn Feveryear holding prizes for their first place finishes. One winner, Jack Sarhage is not in the photo because he is behind the camera.

Several years have passed since the last contest sponsored by the Garden State Spacemodeling Society but, as part of our 25th Anniversary one was held on March 31. There were 8 entrants. Compared to other contests the turn-out was small. As usual though there was quality not only in the folks competing but, in their efforts to win the event entered.

Several old friends turned up to help us celebrate this milestone year; **Glenn Feveryear**, Delta, PA; **Alex DeMarco**, East Greenburg, NY; **Bruce Canino**, Williamston, NJ; **Tom Whymark**, Bethlehem, PA.

Events flown were, Open Spot Landing, A Parachute Duration, A Streamer Duration (Multi), and 1/2A Boost-Glider Duration.

Note: If you have never flown in a contest you are urged to do so. You **will** learn more about the sport/hobby of model rocketry flying in one contest than you will in years of swoosh-pop flights. Try it!

Before going further and showing the results of each event there are some folks that need to be thanked. A BIG THANK YOU TO THE FOLLOWING: **Arnie Klein** for bringing and setting up the launch equipment, handling the launch control system, keeping track of the flight information, acting as Launch Control Officer;

Steve Pantuck assisting **Arnie** in setting up the equipment, timing flights, entering flight information, and being the Range Safety Officer. And although each are not mentioned by name the folks that timed flights (usually one or more of the contestants handled this chore and is traditional). Also **Jack Sarhage** as the Contest Director.

There were several rocket kits that were handed out to the First Place Winner. We want to thank **Quest Aerospace** and **Tom Whymark** for donating these for prizes. Thank you for your very generous offer.

Now for the results. We are showing the first four places only. The number of entrants in the event is shown in parentheses.

Open Spot Landing (8)	
<u>Contestant</u>	<u>Distance from Spot</u>
1. Jack Sarhage	5.44 meters
2. Thomas Miller	7.49 meters
3. Glenn Feveryear	9.91 meters
4. Yo Yodyne Team	21.34 meters

The object of Open Spot Landing is to land you rocket as near the spot/target as you can. Open means that you can use any size rocket engine and recovery system.

A Parachute Duration (7)	
<u>Contestant</u>	<u>Duration*</u>
1. Yo Yodyne Team	6:14.4
2. Glenn Feveryear	5:41.2
3. Alex DeMarco	2:55.9
4. Stephen Flynn	2:11.9

*Note: Duration in minutes and seconds.

The object of A Parachute Duration is to make the longest flight with a model rocket using a parachute and in this case an A (1.251-2.50 Newton-seconds).

A Streamer Duration-Multi (6)	
<u>Contestant</u>	<u>Duration*</u>
1. Alex DeMarco	4:41.6
2. Glenn Feveryear	2:26.1
3. Yo Yodyne Team	1:32.0
4. Stephen Flynn	0:27.34

*Note: Duration in minutes and seconds.

The object of A Streamer Duration (Multi-round) is to make the longest flight on an A (1.251-2.50 Newton-seconds) engine and a Streamer for your recovery. The streamer must be of a certain size.

½A Boost-Glider Duration (4)	
<u>Contestant</u>	<u>Duration*</u>
1. Glenn Feveryear	:52.8
2. Alex DeMarco	:27.8
3. Rob Nee	:18.7
4. Tom Whymark	:10.8

This is the most complicated event of the four. In this event you launch a model that is both rocket and airplane. It must fly as a rocket and then separate into two parts; the booster and the glider. The glider is timed and the longest duration wins. The booster must safely return under stream or parachute recovery. In ½A (0.625-1.250 Newton-seconds) is the engine to be used in this particular event.



Here, we see Tom Whymark placing his boost-glider onto the launch pad. (Steve Pantuck photo)

There is one flight in particular that we want to bring to your attention to. That of the **Yo Yodyne Team** and their A Parachute Duration Flight. Is this event you are allowed two flights and the best out of them is your score. Now, since you must return one flight the custom is to play it safe with the first flight and in the case of **Yo Yodyne Team (Bruce Canino)** his was 2 minutes 21.3 seconds. The second flight is where you go for broke. I (Ye Ole Editor) was one of the two timers. The rocket got good altitude and like most was coming down nicely on the parachute. Then it stopped and hung in a thermal. It went in circles as it stayed with the thermal and then began to rise. That's right the parachute acting as a wing got lift. It then stopped and then began to rise again. To make a long story short I lost it after 6 minutes and 9 seconds. **Glenn**

Feveryear, the other timer lost it 9 seconds later. An out-of-sight flight.

We also want to bring your attention to the fact that **Thomas Miller** flew with the big boys because there was no other in his age division; Division A for 7 through 13 years olds. (There is also Division B for 14 through 18 year olds and Division C, 19 years old and older.) This was also his first contest. Hopefully, it will not be his last and that there will be more from his age group trying next time.

All contestants receive flight points based upon what type of event and where you place. These points are kept track of by the National Association of Rocketry, if a sanctioned event, and also to the section/club you are a member of. The points are added to any you may receive at the Nationals to determine the NAR Champion for the year.

Look in the "Launch Windows" section of *Sport Rocketry* for upcoming contests. We will also keep you posted of any we hear of. We do know that over Labor Day Weekend there will be one sponsored by Southern Pennsylvania Area Association of Rocketry (SPAAR) that **Glenn Feveryear** is Section Advisor of. Details to follow.



This give you an idea of the number of folks that attended the Silver Anniversary Local and launch. As you can see it was overcast at the start and cool. (Steve Pantuck photo)

One aside note, there were several attendees, no section/club members that were a little upset due to the contest flights. We are sorry for that but the contest flights must have priority over sport flights. We informed as many as possible that there would

be a contest on that date. Again we are sorry and hope that you won't stay away.

Again, thanks to everyone that made the Silver Anniversary Local possible and successful.

March Sport Flights

There were many sport flights during the day on March 31. We will share a few of them through the following photos from the camera of **Steve**

Pantuck.



Future Events of GSSS

April 28 – Sport Launch and Fun-Test flights. We will have the long awaited Ping-Pong Ball Duration and Flying Saucer Spot Landing. Rules will be posted at the launch pad. Section Meeting to be held starting at Noon.

May 19 – Sport Launch and Fun Test: Vintage Model Rockets. Winner will be determined by popular vote of attendees. Section Meeting to be held starting at Noon.

June 30 – Sport Launch. We are also offering a change for you to work on the Bronze Level of NARTREK. Requirements to earn this are.....

- 1) Make a successful flight of at least 60 seconds duration with a model rocket using a parachute for recovery with a motor of no more than “B” impulse.
- 2) Make a successful flight of at least 30 seconds duration with a model rocket you a streamer for recovery with a motor of no more than “B” impulse.
- 3) Make a successful two-stage model rocket flight using at least a type “a” motor in the lower and upper stages.
- 4) Make a successful flight of a model rocket using a “D” motor or larger.

In addition a photo must be taken of the model and sent in to NARTREK Base. All forms, etc will be available at this launch. Those completing the requirements will receive their certificate, patch and decals.

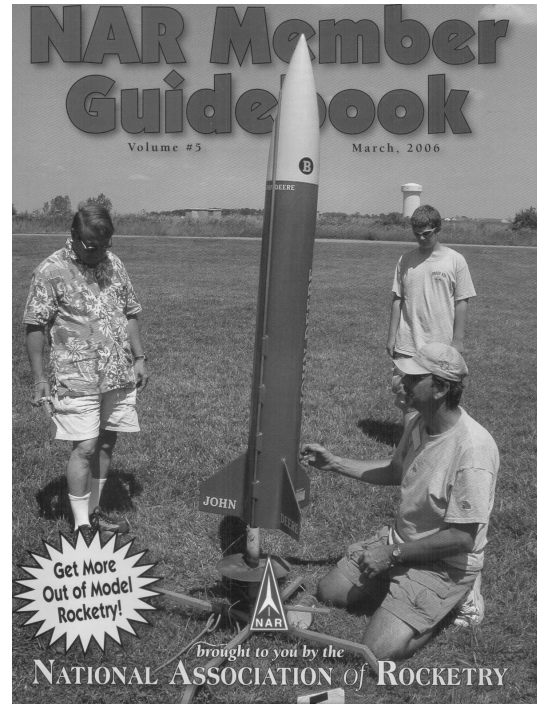
Section Meeting to begin at Noon.

July 28 – Sport Launch and Club Picnic. Bring your favorite dish to share. Club to provide soda.

August 25 – Sport Launch at Fun-Test. Action Figure Duration. Section Meeting to begin at Noon.

Note: During Section Meetings the launch pad will be shut down for its duration (about 45 minutes).

We hope that you will try to attend as many of these events as possible.



“Get More Out of Model Rocketry”

What? You’re not an NAR member? You should be! Why? Because as it says above you will “Get More Out of Model Rocketry.”

A long list could be made of the benefits of NAR membership but, let’s talk of one you can readily see and hold from the start. We refer to the *NAR Member Guidebook*” as picture above. It is updated annually, this one being Volume 5 dated March 2006 and sent to new and renewing members.

This issue will be of particular interest to newer model rocketeers. The section on “Rocketry Basics” is worth the price of membership alone. It takes you through the “Anatomy of a Model Rocket” written by Mark Newton. Mark also contributed “Building A Model Rocket” and “Ground Support Systems.” Want to know how to get those get finishes you see on rockets? Norm Taylor takes you through the steps in his “Finishing A Model Rocket.” “Types of Recovery Systems” are covered by Carl Kruger.

Those are just a few of several features in what could be described as a primer in model rocketry. But, wait—you will also find four (4) plans of model rockets to build and try out what you have read.

There is the NARTS catalog of all sorts of goodies available only through the NAR (cups, caps, patches, shirts, to name a few). Not enough? The guidebook's center contains money saving coupons from many manufacturers of model rockets and related supplies.

In his "Welcome Message," NAR President, Mark Bundick writes of the "fun, excitement and challenge" in the hobby/sport of model rockets and that the "mix of both technical and how-to articles" will be useful additions to you rocketry endeavors. And, we add competitions as well.

Come on! Join, and be part of the "world's largest sport rocketry organization."

Achievements in Model Rocketry Program

The insert in this issue is a form for what we are calling "Achievements in Model Rocketry Program." It is designed so that any GSSS member can participate. All you have to do is do what you do throughout the year—fly model rockets.

Just earn 100 points in one or all of the three sections. They are; Craftsmanship, Participation, Service. There are no judges no witnesses necessary. You are trusted to be on you honor as you complete this form and then send it in by the due date shown (January 15, 2008). You can take credit for the first few months of this year.

A nice certificate will be presented to those earning 100 points and sending in the completed form.

HAVE FUN, FLY MODEL ROCKETS

Plan of Issue

Instead of a model rocket plan this time we are presenting one for a "Rocket Painting Holder." This was designed by our own **Arnie Klein**.

It is one use for those expended model rocket engines you have.

Thank you, Arnie.
(Yes, it does qualify for 20 points under the "Service" category on the AMR form.)

Welcome to Our New Members

We want to take this opportunity to give a big WELCOME to some new GSSS members. Be sure to make them feel that way when you see them at a launch.

The Capriotti Family (Kathleen, Anthony, and Luisi).

The Benson Family (Tom and Jacob).

The Hansen Family (Tom and Courtney).

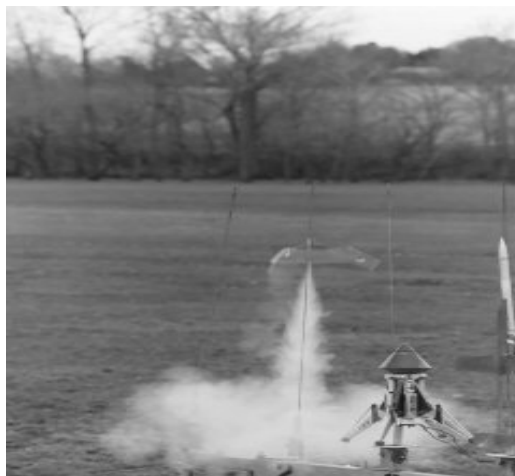
The Mercado Family (Xavier and Issac).

Litter Clean Up

Unfortunately we must, from time to time, remind you that the recovery wadding you use to protect your recovery device is **LITTER** when left on the ground and that when you see it, either to or from recovering your rocket pick it up and throw it away. No it does not make a difference if it is yours or not. **PICK IT UP!!!!!!**

Oh, by the way, it can be used over again.

A Parting Shot



A nice photo of a flying saucer lifting off. Is this one of Arnie's. Hope we see it in the Flying Saucer Spot Landing Fun Test on April 28th. (Steve Pantuck photo)