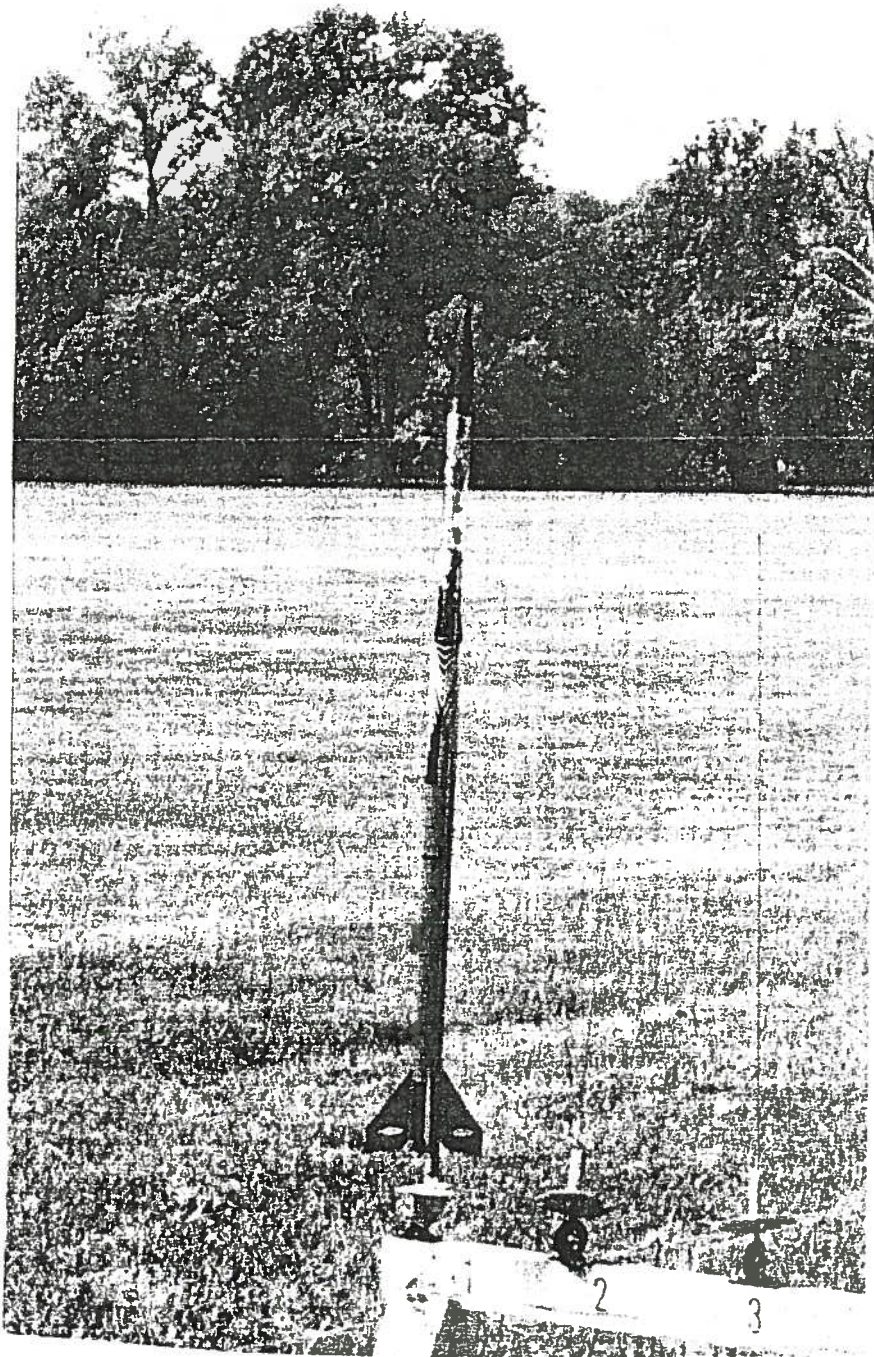
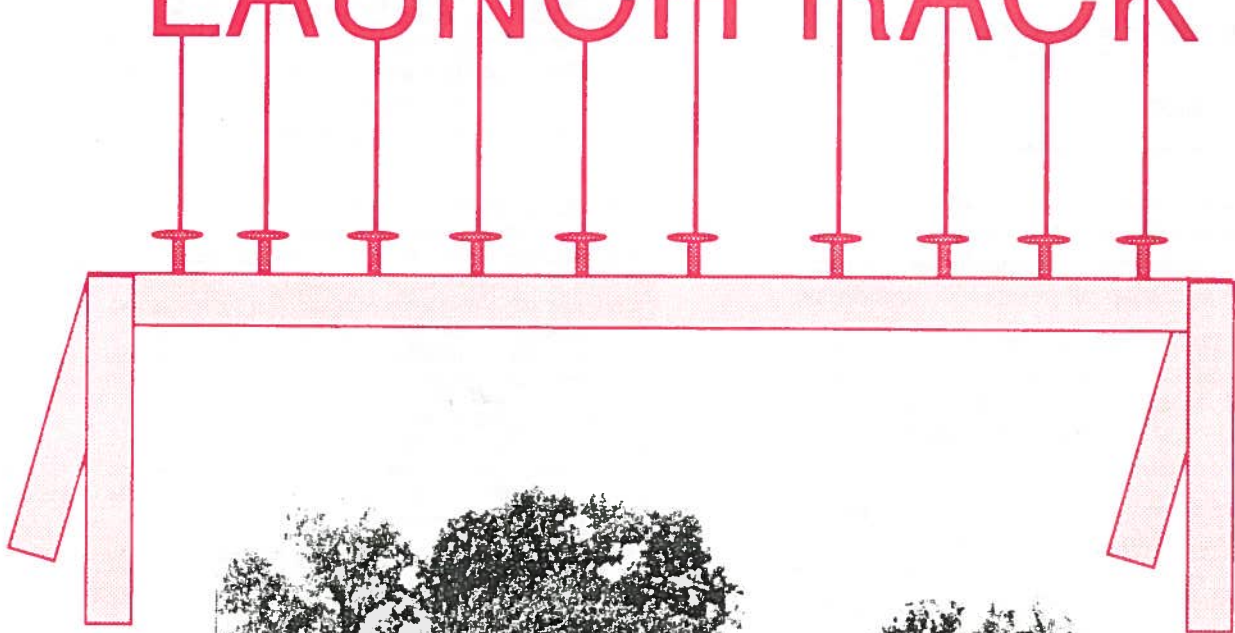


# LAUNCH RACK



# The Launch Rack

The Official Publication of The

Garden State Spacemodeling Society

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July – August 2002

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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:

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Blairstown, NJ 07825

e-mail: [teri@eclipse.net](mailto:teri@eclipse.net)

Visit the GSSS web site at [www.robnee.com/gsss/](http://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.

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## 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.**

August 31, 2002

Meeting ! September 6 at the Ramada Limited in South Plainfield

September 28, 2002

A Saturday in October Yet To Be Determined.

November 23, 2002

December 21, 2002

## IN THIS ISSUE:

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## ON THE COVER:

Photo by: *Steve Pantuck*

# The Launch Rack

## Other Events:

Here is a list of upcoming contests.

**Fall 2002 Open Skies 2002** – An open meet. To Be Announced. Probably to be held in October in South Jersey. Sojars may be getting access to a large flying field. Please send me your input on what you would like to fly at the meet and I'll relay the info to Sojars.

**From the Rumor Mill – August 2003 – NARAM 45 in Ohio?**

## The Showdown:

### Summer Challenge 2 Open Meet (And Funtest) Results

#### June 22

Events:	WF
Streamer Spot Landing	4
Parachute Spot Landing	4
Predicted Duration	8
1/4A Streamer Duration	8
1/2 A Parachute Duration	7
D Dual Eggloft Duration	27

June saw an interesting face-off of some of our NJ talent as we saw GSSS vs. Sojars vs. Independents in a good example of how a good competition can develop in a small meet. This was also the last chance for competitors in our area to build up their point totals before NARAM so those involved had to fly as many events as possible to score for themselves and their club. As happened at other open meets, the perennially independent Humphrey family – Steve and Micheal came to fly with their usual great style. Bruce Canino represented Sojars, entering in every event. As usual these formidable forces were met by our GSSS contenders with determination making the Challenge meet really live up to its name. See the results on the next page.

## RAMTECH 10

### The End of An Era

By Stephen Flynn

A long-standing tradition of about 30 years ended on June 17 when the last rocket flew from the front lawn of Desales College in Center Valley, PA. For about 30 years various NAR sections used this field for holding NAR Regional Meets and also at least one NARAM. These fun meets reflected the levity of the hobby had unique acronyms starting with AARDVARK, WUBBA and RAMTECH. The cause of this cessation- prosperity! It appears that the college has been thriving and breaking ground on the field for a new cafeteria (*Yuk! This is part of the hazards of cafeterias (Ed.)*).

AARDVARK stood for the Amazing and Amusing Rocket (*I forgot the rest*) Kontest. One year it was decided to have a double regional – Friday through Monday. The first meet was called AARDVARK and the second, KRAVDRAA (*you figure it out*). WUBBA was the Weird, Unusual Baffling Blast Attack. RAMTECH meant Regional Aerospace Meet To Encourage Competition.

AARDVARK was held by two brothers- Carl and Mark Warner. Of course some would quip that it was a "Warner Brothers production. WUBBA was hosted by Art Rose and family. (*Your editor believes that "Wubba!" was an exclamation that one of the more colorful flyers exclaimed every time something odd happened and so the name stuck.*) The Feveryear family saw through the last of the meets – 10 years of RAMTECHs.

As for the GSSS contest results, Jack Sarhage came out for the competition. The Hyperspace team elected not to fly this meet as a team and so Emily assisted with the contest allowing Stephen E. to tough it out in C Division. While our contestants mainly scored flight points for their efforts, it was Daniel Flynn who solely managed to place in an event. His second place in Set Altitude competition gave the club some recognition for all our efforts in this tough "mini-nationals".

The meets at Desales College will be missed. The proximity to NJ, large field, dedicated staff and housing on the field provided one of the best environments going for NAR competitions. We can only hope that someone will make a go of hosting a replacement meet somewhere in our area. Without it the Fathers Day weekend will never be the same.

**RAMTEC-10 Results**

June 15 &amp; 16, 2002

Center Valley, PA

NAR Sanction #1008-02R

51 participants - 35 contest entries, 12 sport flyers

Results Contestant	NAR Number	Section	1/2A PD	A RG	B HD MR	STA	SPSC
<i>A Division</i>							
Beever, Mark	78630	503	69 / 80			35.4	
Bittle, Kate	79934	139	34 / 46	EJ / 23		NC / 5.1	500 / 97
Bittle, Kindra	76125	139	71 / 26	11 / 6	56 / 69 / 51	10.3	630 / 55
Bittle, Kris	74626	139	SEP / SEP	UNS / UNS	28 / 27 / NDP	42.9	635 / 98
Filler, Matthew	71947	139	93 / 24	NG / NG	68 / 74 / 109	32.0	610 / 110
Flynn, Daniel	75281	439		UNS	UNS / NDP	8.6	430 / 90
Flynn, Emily	70934	439	NDP			52.0	
Ha, Christopher	79497	139	58 / 99	11 / 11	NDP / SEP / NDP	33.1	
Humphrey, Michael	75192	IND	UNS / 21	NG / 12	9 / 5 / 8	14.3	
<i>C Division</i>							
Ash-Poole, Jennifer	61415	139	86 / 169	SHR / SHR	45 / 41 / 61	13.1	405 / 102
Barber, Trip	4322	205	195 / 180	62 / 62	110 / 99 / NDP	35.4	430 / 95
Bittle, Khim	17634	139	25 / 46	30 / 39	89 / 58 / 65	6.9	470 / 100
Canino, Bruce	39989	593	25 / 181		48 / 45 / NDP	0.6	365 / 95
Edmonds, Robert	37700	205		50 / 34		NC / NC	
Filler, Jim	27862	139	83 / 44	UNS / 116 NR	SEP / 81 / SEP	51.4	465 / 80
Flynn, Stephen E.	23648	439	CAT / 97 / 50	20		67.4	352 / 100
Foster, Steve	72814	473	88 / 11	SEP / 35	38 / SEP / NDP	15.4	640 / 145
Greene, Dale	12464	503	138 / 71	21 / 32	22 / 45 / 60	UNS	
Grumbine, Dave	69152	IND	13 / 17		32 / NDP / 44	5.7	460 / 100
Ha, Tom	76754	139	12 / 63	SHR / NG	SEP / 25 / 20	41.7	390 / 100
Humphrey, Steve	17888	IND	129 / 23	EJ / 23	27	32.6	568 / 100
Kidwell, Chris	45225	139	139 / 96	51 / 31	SEP / SEP / SEP	NC / 24.0	580 / 95
Mozier, Russ	80298	593	6 / SEP	46 / 57		1.1	445 / 95
Romani, Ed	79677	593	UNS / 44	42 / 40	71 / 72 / 68	13.1	495 / 100
Sarhage, Jack	31745	439	89 / EJ		SEP	29.1	
Schafer, Rod	36564	473	21 / 113	SHR / 150 NR	62 / 71 / 41	NC / 30.3	593 / 100
Sisco, Warren	12282	520		NG	99 / 74 / 79	40.0	
Tschirhart, Jessica	80356	621					595 / 115
Tschirhart, Josh	48098	621			SEP		680 / 100
<i>T Division</i>							
Flying Humanoids	T-606	606	327 / 28	59 / 78	81 / 38 / 49	16.0	610 / 98
LAX-Rocket	T-208	205	SEP / 63	8 / 30	38 / NDP	NC / 23.4	
Murphy's Lawyers	T-999	139	52 / 15	8 / SHR	37 / 34 / UNS	2.3	525 / 97
Newton's Grandparents	T-953	139	37 / 39	NG / SHR	55 / 55 / 45	5.7	565 / 98
Over 40 Victims of Fate	T-503	503	54 / 91	NG / 56	29 / 37 / 42	17.7	580 / 93
Two Marks Against You	T-134	139	491 NR / UNS	24 / 44	57 / SEP / 49	36.6	620 / 100

**Points**

Contestant	NAR Number	Section	1/2A PD	A RG	B HD MR	STA	SPSC	Total
<i>A Division</i>								
Beever, Mark	78630	503	126	0	0	24	0	150
Bittle, Kate	79934	139	21	600	0	240	120	981
Bittle, Kindra	76125	139	42	240	450	96	240	1068
Bittle, Kris	74626	139	0	0	300	24	600	924
Filler, Matthew	71947	139	84	0	750	24	360	1218
Flynn, Daniel	75281	439	0	0	0	144	60	204
Flynn, Emily	70934	439	0	0	0	24	0	24
Ha, Christopher	79497	139	210	360	0	24	0	594
Humphrey, Michael	75192	IND	21	120	150	48	0	339

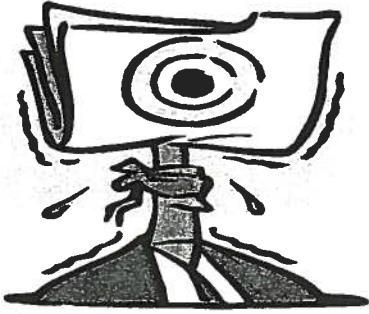
*C Division*

Ash-Poole, Jennifer	61415	139	126	0	75	24	60	285
Barber, Trip	4322	205	210	600	150	24	60	1044
Bittle, Khim	17634	139	21	60	450	48	60	639
Canino, Bruce	39989	593	21	0	75	240	60	396
Edmonds, Robert	37700	205	0	240	0	24	0	264
Filler, Jim	27862	139	21	60	75	24	60	240
Flynn, Stephen E.	23648	439	21	60	0	24	60	165
Foster, Steve	72814	473	21	60	75	24	600	780
Greene, Dale	12464	503	42	60	75	0	0	177
Grumbine, Dave	69152	IND	21	0	75	96	60	252
Ha, Tom	76754	139	21	0	75	24	60	180
Humphrey, Steve	17888	IND	21	60	75	24	60	240
Kidwell, Chris	45225	139	84	120	0	24	60	288
Mozier, Russ	80298	593	21	360	0	144	60	585
Romani, Ed	79677	593	21	120	300	24	60	525
Sarhage, Jack	31745	439	21	0	0	24	0	45
Schafer, Rod	36564	473	21	60	75	24	120	300
Sisco, Warren	12282	520	0	0	750	24	0	774
Tschirhart, Jessica	80356	621	0	0	0	0	240	240
Tschirhart, Josh	48098	621	0	0	0	0	360	360

*T Division*

Flying Humanoids	T-606	606	210	600	750	96	360	2016
LAX-Rocket	T-208	205	21	120	75	24	0	240
Murphy's Lawyers	T-999	139	42	60	75	240	60	477
Newton's Grandparents	T-953	139	84	0	450	144	120	798
Over 40 Victims of Fate	T-503	503	126	240	300	48	240	954
Two Marks Against You	T-134	139	21	360	150	24	600	1155

Sections	Section Number	Total
NARHAMS	139	8847
MTMA	606	2016
NOVAAR	205	1548
SOJARS	593	1506
SPAAR	503	1281
PSC	473	1080
PARA	520	774
SEVRA	621	600
GSSS	439	438
IND		831



# Prez' Mess

## **NAR Membership; to be, or not, to be**

The question is not so much why be a member as why aren't you a member? Or, it could be you are trying to decide whether to renew your membership or not?

The answer to both questions is, "*NAR Member Guidebook*." Now, this little gem may not be new to you, but it wasn't until I recently (June 2002) renewed my NAR membership that I knew about it.

It really isn't a guidebook at all. Instead this is a handbook that is both convenient in size, and a ready reference on our favorite subject.

The contents, as NAR President Mark Bundick writes in his letter of welcome is, "an interesting mix of both technical and 'how to' articles, along with basic information" on the many benefits of joining the NAR.

The "technical" articles include how to improve the Estes Electron Beam Launch Controller, getting that parachute to do what it is supposed to do, when you want it to do it, reliability in streamer duration. The plans are priceless, LUNA 1, a C boost-glider, the Tri-F-O (maybe you have seen mine at one of our launches).

It also covers high-power, not one of my favorite things. Why? Hey! I haven't done all there is to do with model rockets using less than 20 newton-seconds.

On the cover it says, "Get More Out of Model Rocketry." Of course, that refers to the guidebook, but maybe it should be the NAR motto. Join it, renew your membership and find out yourself!

## **Pearl River Revived?**

This should appear in the September/October issue. Then why are thoughts of Spring filling my head as this is being written 24 July.

Well, it's brought about by a couple things. First, is NAR President "Bunny" Bundick's comment that, "the general public is gradually losing sight of our hobby" (see *The Model Rocketeer*, June 2002).

Second, was coming across some photographs taken at several of the Pearl River (NY) Modroc Conventions, prompting questions like, how long has it been since the last one? How many out there would like to see it revived? Could one be put together by March 2003, being the traditional month in which it was held.

In June, I sent these questions to the 20 NAR Sections that may have members remembering this "rite of spring" in the Northeast. Some have responded favorably with promises of attendance and some have volunteered to lead sessions covering various activities of our hobby/sport. We may even have a venue, Hillcrest Middle School.

There are members of GSSS that attended each year; Bob Z, Steve P, Dr. Bob, Jude, Tom, yours truly and others I may have missed.

What about it? Let me hear from you? "Bunny" Bundick fears we may be slipping "further into the background." This would be one way toward combating that in our region.

## **Section Meetings: At Ramada Limited**

I have arranged to use the boardroom at the hotel in South Plainfield (Exit 5 off I-287) where I work for our meetings. At least until such time as we out-grow it. Hopefully we had the one on August 2. The others scheduled are for September 6<sup>th</sup> October 4, November 1 and December 6, 2002.

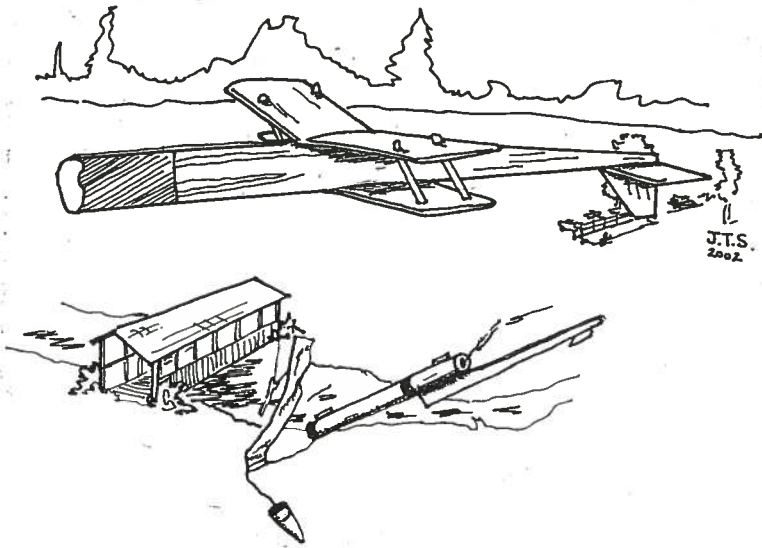
Hope you can attend.

Well, I've about used up all my space for this time. I hope you have racked up lots of flights during the summer and maybe even taken a little trip down Texas way. Until next time...

Keep 'em Flyin'

Jack Sarhage

## Kit Review:



*By Jack Sarhage, NAR 31745*

Though Qualified Competition Rockets' (QCR) Kit 160B does not model a particular bi-wing aircraft, with the right paint, tissue, and decals it can be made to look like many of those that flew during World War I.

Of course we aren't talking about airplanes, but boost-gliders (B/G). Many will tell you all that decoration does is add more weight. That's true! Yet I've seen and built Peanut Scale (maximum 13-inch wing span) models having most of the detail there get flights of 3, 4 even 6-minutes.

The same "many" will argue that those Peanut Scale models don't reach the speed or under go the G-forces placed upon a B/G. True enough! But, maybe that tissue covering will beef it up enough to prevent it from reaching the dreaded "speed of balsa".

Anyway, I decided to make my "bi-wing boost glider," the subject of this review, look like a something between a Sopwith Camel and a Fokker SE5.

This kit has two parts to it; a pop-pod and the glider itself. Those of us that have been around the hobby for awhile will recognize the pop-pod based upon the technology of 1977 when Chris Flanigan first introduced it. And, I would be willing to bet that most pop-pods used to launch boost-gliders are some off shoot of the "Flanigan Standard Pod."

The pod is the easiest part of the kit. The glider takes careful attention to detail and patience. But, anyone that has built a few model rockets can do it.

Make sure that the wings are parallel to each other, the correct distance apart and offset as shown on the plans. Ditto for the rudder and stabilizer as well.

This is not going to be one of those stick part a to part b type reviews. If you need that kind of instruction, I suggest building a couple more Wizards.

The only criticism I have with the particular kit I got was that I thought the balsa was not up to QCR's usual standards. But, for \$9.00, plus S&H, you can have a model that is different and add to your building skill.

Flight day was at our 27 July Sport Launch. It was cool, overcast, and not a North Branch zephyr to be felt.

I had the glider trimmed out real nice during it's hand tossed first flights. Maybe I should have stopped there. There were certain signs that maybe I should wait until another day to fly it. Like, after installing the B4-4 motor I attempted to insert the ignitor, only to find I had put the motor in backwards. Du-u-uh!

About those B4-4s. That was not my choice and I had even purchased B4-2s for this model. But, for some reason I could not find them and went ahead. That was another sign not to fly it.

Of course you know the results. Yep, a Red Baron. Which are not usual for me anyway, as Arnie pointed out. That's okay, part of my job is making everyone else look good.

The damage is a crimped launch pod tube that can be rebuilt or a new one made. The glider is in good shape and will fly again. Hopefully, at our 31 August launch.

The bi-wing glider is an interesting model and fun to build and fly. Just remember to use short delay motors as the glider needs to separate during boost and not after it turns earthward.

Now that you see what a kit review looks like you can do one yourself the next time you build a model. Make notes as you go along, especially on those places that were difficult, or where you found an easier way of doing it without changing the design or stability of the kit. Then, send it to Steve Flynn, our editor. I know he will appreciate it.

some sort of order. It does not have to be a complete article. Remember, the editor's job is to edit and that includes re-write if necessary. It is just another way to help him out and be part of the team.

*Reported by Jack Sarhage*

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## 5-4-3-2-1 LAUNCH!

### Or, Happenings at a Sport Launch...

Ignoring the weatherman's forecast of rain, approximately 20 souls arrived at North Branch Park on 27 July. As it turned out this was one of the finest days so far this year; no wind!!

Ever faithful Arnie Klein and Bob Zabriskie were already setting up the launch equipment when I arrived at 0930.

We don't log in our flights as many sections do. As a result it is hard to remember all the folks there and what was flown. Beside, I have always thought that should something happen (God forbid) and we were being held liable for it, our log would be proof that we knew what was being flown and that those flying followed the NAR Safety Code.

Anyway...I do remember a 'Mean-machine' being flown several times. An a couple trash rockets that Manuel would have been proud of.

Your reporter had 4 gliders to test out. One a bi-wing glider from QCR. The subject of a kit review elsewhere in this issue. The other three were variations of the 'Ding-Bat' parasite boost glider that appeared in the May/June 2001, *Sport Rocketry*, designed by M. E. Bowitz.

Arnie flew his chad-staged flying saucer that always is a big hit with the crowd.

We even saw some folks we haven't seen for a while; Bob Gill and his son, Bob. Several new people attended that got our name off the web site and decided to see if we would be there.

Sorry, I do not have any pictures for you. I do remember someone with a camera and hopefully he will send a few in to our editor.

This is another place where you can help the editor. Why not volunteer to be a Monthly Launch Reporter? All you have to do is attend, take notes of what is going on, put them into



# Funtest2002Results

## Funtest 2002 Section Meet Results

### NAR Section Meet Results

Overall Place	Entry	Events	Streamers	Spot Landing	NAR Pts.	Sport Scale	NAR Pts.	1/4A Parachute	Duration	NAR Pts.	Total Points
1st	James Menoutis	-	-	935 pts. 1st	200	0	26 sec. 1st	70	200	70	200
2nd	Hyperspace Team	39.853 m. 2nd	24	760 pts. DQ	0	14 sec. 2nd	42	58	40	40	58
3rd	Daniel Flynn	44.983 m. 3rd	16	645 pts. DQ	0	-	-	-	-	-	-
4th	Rob Nee	17.602 m. 1st	40	-	-	-	-	-	-	-	-

NAR Points earned for GSSS: 392

Not enough entries were available for 1/2A Parachute Duration

### Funtest Results (Combined Entries - NAR and non-NAR)

Overall Place	Entry	Events	Streamers	Spot Landing	Pts.	Sport Scale	Pts.	1/4A Parachute	Duration	NAR Pts.	Total Points
1st	Jame Menoutis	27.432	4th	935 pts. 1st	200	0	26 sec. 1st	70	200	70	200
2nd	Stephen Pelegriano	39.853	FP	690 pts. 2nd	120	0	14 sec. 2nd	42	120	42	120
3rd	Hyperspace Team	44.983	FP	760 pts. DQ	0	0	-	-	-	-	-
4th	Daniel Flynn	16.332	1st	645 pts. DQ	0	-	-	-	-	-	-
5th	Arnold Klein	17.602	2nd	-	-	-	-	-	-	-	-
6th	Rob Nee	27.518	3rd	-	-	-	-	-	-	-	-
7th	Michael Teichman	50+ m.	FP	-	-	-	-	-	-	-	-
8th	Fred Taverni	-	-	-	-	-	-	-	-	-	-

Abbreviations - FP - Flight Points - Flying credit without placing - got over 50 meters in spot landing or did not place in the top 4 places.

m. - meters - Distance from the marked spot. The shorter the distance, the better the score.

NAR Pts. - NAR Contest Points = Contest Factor X Weighting Factor of event X Place Factor.

sec. - Seconds in the air from first motion on pad to landing or loss of visual contact.

Sport Scale pts. - Results from judging awarded on certain craftsmanship and flying criteria.

**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