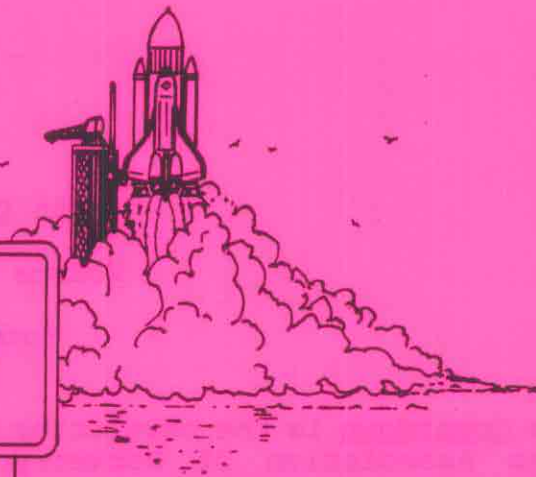


# COUNTDOWN



OFFICIAL NEWSLETTER OF  
THE SOUTHERN PENNSYLVANIA AREA ASSOCIATION OF ROCKETRY

---

VOLUME 8, ISSUE 3      SUMMER, 1995

---

## TIME TO CATCH UP

Once again, my apologies for being late with the newsletter. It has been one heck of a busy summer, professionally and personally. When you combine a heavy workload, a stubborn laser printer, moving to a new house, well you get the idea. I will try my best to get things back on schedule in the remaining months of 1995.

SPAAR has had a busy summer, too. We've put up with foreign exchange students playing soccer on our normal flying field, not to mention the usual weird Lancaster County weather [if you don't like it, wait about an hour; it'll change]. The good news is, we've grown in terms of new members, which puts us in good shape for the coming months. Here is a recap of what's been going on:

SPAARSEC-12 was held on May 28, and along with the competition

were 19 sport flights. One of our newest members, Gerard Hertzog, made two out-of-sight flights with his Estes Alpha III. Both flights were with C6-5s. Mark Kamide and George Fetter from Mountainside Hobbies in Ephrata flew an assortment of models, including the Estes Reliant and Skywinder [actually worked!], Cox Saturn 1B, and Quest Space Clipper. All had good flights.

Doug Gardei had most of the fleet out. The most impressive flights were with an Estes Maniac with a D12-7, and a North Coast Phantom 400, flown on an Aerotech F25-4 White Lightening.

June 25, 1995

Great weather and 23 flyers made the June 25 Sport Launch the busiest to date.

[Continued on Page 13]

The Countdown

Volume 8, Issue 3

Summer 1995

The Countdown is the newsletter of SPAAR, the Southern Pennsylvania Area Association Of Rocketry, NAR Section #503, PO Box 127, Reamstown, PA 17567, as well as of Tripoli Susquehanna/#71. Non-member subscription rate, \$6 per year, six issues. Please make all submissions to address above. Material may be used with proper credit. [as if anyone wants to]

Cover Logo: **Bob Stott** Jacket Design: **Bruce Canino** Editor: **George Beever**

Thanks This Time To:

Ed Miller

---

**CONTENTS**

Club News	pg 1
RAMTEC-3 Regional	pg 3,4,5
SPAARSEC-12	pg 6
Flight Log, 5/28/95	pg 7
Flight Log, 6/25/95	pg 8,9
Flight Log, 7/9/95	pg 10,11
Battlepark '95 by Ed Miller	pg 12,13
Sport Launch Coverage [cont]	pg 13
More Club News	pg 14

---

**SCHEDULE**

**SUNDAY, SEPTEMBER 3, 1995: SPAARSEC-13 LOCAL MEET, 9AM - 5PM. EVENTS: 1/2A ALTITUDE, B EGGLOFT ALTITUDE, 1/2A STREAMER DURATION, MULTI-ROUND. SPORT FLYING WELCOME!!!**

**FRIDAY, SEPTEMBER 15, 1995: CLUB MEETING, 7PM - 9PM, HOMEDCO BUILDING, LANCASTER.**

**SUNDAY, SEPTEMBER 17, 1995: CUB SCOUT SPACE CAMP, KINGSVILLE, MD. WE WILL LEAVE ABOUT 7AM. ANY MEMBER WHO CAN HELP IS ASKED TO CONTACT: GEORGE BEEVER, 733-4170 -OR- MARK SNYDER, 410-256-7499**

**MORE CLUB INFO ON PAGE 14**

---

**Contest Results:****RAMTEC - 3 REGIONAL**

Over the weekend of June 10-11, over 30 competitors, sport flyers, observers and family members attended SPAAR's RAMTEC-3 Regional Meet at Allentown College in Center Valley.

The weather was comfortable, with the only interruption being a 45 minute rain delay midmorning Saturday.

The events flown were A HD[M], 1/2A SD[M], B B/G[M], A RG[M], and D HD. For the first time in recent memory [WUBBA or RAMTEC], none of the age divisions had to be combined in any event.

With a few exceptions, most of the A Helicopters flown were of the Mini-Rotaroc type. Mike Filler, flying as an Independent, took A Division with three good flights totaling 210 seconds. NOVAAR's Shaun Smith, proxy flying for fellow NOVAAR B Divisioner Kevin Gormley, had two flights totaling 98 seconds. In C Division, PARA's Ducky Klouser put up three solid flights for a First Place 291 seconds. The Flirtin' With Disaster Team from host section SPAAR had three flights totaling 111 seconds for first in Team Division.

1/2A Streamer Multi was hotly contested in all divisions, with seven flyers scoring 60-second "maxes". In the end,

SPAAR's Renee Feveryear edged Mike Filler, 176s to 170s [both maxed one flight]; Shaun Smith again took First in B Division with a 55-second flight, and Glenn Feveryear maxed all three flights to take First in C Division. The closest finish was in Team Division, where the Snowball's Chance Team edged Flirtin' With Disaster, 116 to 114.

Ken Brown of NOVAAR and QCR blew away the competition in B Boost/Glide C Division with three solid flights totaling 373 seconds. His closest competitor was Garden State's Bob Zabriskie with 322 seconds. Snowball's Chance was equally dominating in Team Division at 275 seconds. Mike Filler and Shaun Smith took A and B Divisions respectively.

A Rocket Glider produced a lot of QCR-looking slide wingers, as usual. In A Division, Mike Filler maxed one flight, got 71 seconds on another, and in spite of one DQ took First Place with 191 seconds. Two maxes and a 98-second flight put Glenn Feveryear in First Place in C Division, and JPK's 129 second total gave them first in Team Division.

In the past, E Helicopter was a favorite event for those who attended the WUBBA Regionals, a tradition that was kept alive for RAMTECs 1 and 2. This year, D Helicopter was flown instead,

just to keep up the challenge. Mike Filler rose to the occasion, with two nice flights totaling 171 seconds in A Division. Renee Feveryear had a first flight of 97 seconds, but unfortunately DQ'd her second flight.

In C and Team Divisions, the number of qualified, returned flights was surprisingly low. Glenn Feveryear took C Division with 199 seconds, Jim Filler second at 108 seconds, followed right behind by Trip Barber of NOVAAR at 105. SPAAR's Flirtin' With Disaster Team put together two flights for 200 seconds and First Place, with JPK in second with 55 seconds.

There was also lots of good sport flying going on, too. Matthew Filler flew his Estes Gnome and Bailout, and mom Lori flew her Estes Maniac twice. The second flight was a real eye-opener on an Aerotech E15 White Lightning motor. Jonathan Rains, when he wasn't filling in as RSO, flew his Estes Optima twice. He also used an E15 White Lightning, for another good flight. Laura DeMar flew some Estes kits, too, such as Big Bertha, Alpha III, Mongoose and Gnome. Charley Sykos flew his rebuilt ARCAS on an F40 reload, showing no ill effects from having met the asphalt at high speed at NARAM in Houston last July. Ken Brown stole the show with some of his rather unique creations. The Crayon Bank Rocket and the Coat Hanger, both now in kit form from QCR [no kidding],

turned great flights, as did The Deluxe Coat Hanger, which Ken says is still in the R&D stage. Unfortunately, a D12 CATO spoiled the flight of the Mary Poppins umbrella rocket.

The range closed on Sunday at 2PM, so that the results could be totaled. The Division winners received trophies for their achievements. They were: A Division, Mike Filler, 2748 points; B Division, Shaun Smith, 3180 points; C Division, Glenn Feveryear, 2127 points; and Team Division, Flirtin' With Disaster, 2328 points.

The points-to-section winner was NOVAAR at 12,519. Second was SPAAR at 6836, third was PARA with 1221, followed by Garden State Spacemodeling Society with 666. Independent flyers earned 3729 points.

The two heros of RAMTEC-3 were Rita Feveryear who once again did 99% of the check-in work, and Ken Brown of NOVAAR and QCR. "Mr. Brown" donated a ton of kits and supplies to be used as door prizes and giveaways. Through Ken's generosity, no one walked away empty handed. In a sport loaded with "good guys", Rita and Ken deserve special recognition. Thanks!

As Trip Barber of NOVAAR commented, "there is no place on the East Coast quite like this [Allentown College] to hold a rocket meet. It has the perfect combination of location and facilities." Hope to see you at RAMTEC-4!

# RAMTEC - 3 RESULTS

NAME	DIV/SEC	A HD (multi)			1/2A SD (multi)			B B/G (multi)			A R/G (multi)			D HD		NAR PTS.				
		1	2	3	1	2	3	1	2	3	1	2	1	2	SUM					
		SUM			SUM			SUM			SUM									
MIKE FILLER	A END DQ	35	36	71	57	53	MAX	170	81	44	85	210	DQ	MAX	71	191	51	120	171	2748
BOB FEVEYER	A 503 69	83	58	210	59	57	MAX	176									97	DQ	97	1494
KRISTL SMITH	A 205 5	DQ	NF	5	38	30	DQ	68	45	45	84	174	10	52	57	119	DQ	NF	-	1278
LAURA DeMAR	A END				DQ	16	33	49												72
SHAWN SMITH	B 205 47	51	NF	98	55	NF	NF	55	106	72	NF	178	29	58	NF	87	DQ	54	NF	3180
KEVIN GORNLEY	B 205 39	NF	NF	39	16	NF	NF	16	DQ	DQ	DQ	DQ	45	NF	NF	45	14	NF	FP	1770
GLEN FEVEYER	C 503 21	72	81	174	MAX	MAX	MAX	180	85	86	DQ	171	MAX	98	MAX	338	147	52	199	2122
KEN BROWN	C 205 79	82	61	222	50	47	39	136	101	99	173	373	102	57	81	240	175	8	NF	1695
DAVE KLONER	C 520 115	109	67	291	41	MAX	MAX	161	20	15	NF	35	69	83	63	215	NF	NF	-	1221
TRIP BAZER	C 205 29	22	77	128	MAX	57	52	169	167	83	DQ	250	71	87	DQ	158	DQ	105	105	984
JIM FILLER	C 503 5	73	55	133	MAX	DQ	46	106	42	22	69	133	DQ	DQ	DQ	DQ	53	55	108	591
BOB ZABERKIE	C 439 NF	NF	NF	-	MAX	DQ	30	90	MAX	DQ	112	322	11	9	NF	20	NF	NF	-	522
DALE GREENE	C 503 69	52	51	172	51	DQ	8	59	DQ	57	NF	57	32	DQ	DQ	32	DQ	NF	DQ	321
John De Mar	C 503 21	57	DQ	78	DQ	36	35	71	131	61	42	234	71	35	43	149	DQ	DQ	DQ	318
ROGER PUYER	C 503 25	22	29	76	33	38	22	93	DQ	29	76	105	DQ	21	34	55	DQ	NF	-	249
KEVIN CREAMER	O 439 24	21	NF	50									14	10	27	51				144
JPK T 205 68	DQ	DQ	DQ	68	DQ	DQ	DQ	DQ	34	DQ	DQ	34	68	61	DQ	129	55	DQ	65	1698
Snowball's CHANCE T 205 43	46	DQ	DQ	89	58	58	DQ	116	142	52	81	275	79	NF	NF	79	DQ	NF	-	1914
Flirtin' With Disaster T 503 49	31	31	111		57	DQ	57	114	DQ	DQ	102	102	DQ	15	21	36	155	45	200	2328

SECTION POINTS: NOVEMBER 12, 519      SPAR 6, 541      PARA 1221      GSSS 666      IND 3, 729

**More contest results:****SPAARSEC-XII SECTION MEET**

The SPAARSEC-12 Section Meet was flown on Sunday, May 28, with six entrants flying 5 events. The events flown were A Helicopter Duration [M], 1/2A SuperRoc Altitude, B Eggloft Altitude, D Streamer Duration, and Open Spot Landing.

Glenn Feveryear took A Helicopter with 3 strong flights totaling 155 seconds. Flirtin' With Disaster Team took second, flying John Yost's rather unique design, totaling 131 seconds. Dale Greene missed the top spot by DQing flight #3 after getting 46 seconds on flight #1 and 52 on flight #2. Renee Feveryear trailed Uncle Gary by only 5 seconds, 96 to 91.

Renee made up for that by taking Open Spot Landing, only 9.3 meters from the club flag, which was the spot.

A total of 10 flights were made in B Eggloft Altitude, which claimed three eggs broken. The closure rate on the tracking was very good by anyone's standards. In the end, Flirtin' With Disaster, flying an ancient model, took first place at 59 meters. Glenn Feveryear, flying a variation of The Two Minute Egg, came in second at 56 meters; his daughter Renee took third at 43 meters. Close behind was Uncle Gary at 41 meters, Roger Dwyer at 32 and Dale Greene at 17 meters. It must be reported that Dale's

flight was made with an Estes Eggspress after splattering a model on flight #1.

In 1/2A SuperRoc Altitude, Glenn Feveryear had a 100cm model tracked to 80 meters, giving him 460 points and first place. Flirtin' With Disaster's was tracked to 65 meters and second place with 430 points. Roger Dwyer took third with 416 points.

There were those who thought that D Streamer was simply a matter of putting a D12 motor in a 24mm tube, and attaching a relatively small but competitive streamer. Not. The real trick was keeping the model together. Glenn's first model, a proven Ed Miller design, went unstable. A second flight of 41 seconds gave him first place. **No one else got a qualified flight.** Notice the emphasis. Flirtin' With Disaster couldn't keep a model together [so much for Blackshaft, Waferglass and cyano with epoxy fillets!] Gary Feveryear had similar problems with Waferglass-to-paper tubes. Dale Greene had a killer **363-second** flight, but couldn't return it. More than one flight was lost to view prior to streamer deployment and had to be DQ'd.

Current plans are to make the day after Labor Day contest a Local Meet. The events will be announced soon.

FLIGHT LOG

May 28, 1995

<u>#</u>	<u>FLYER</u>	<u>MODEL</u>	<u>MANUF</u>	<u>MOTOR[S]</u>	<u>RESULT</u>
1	Rick Hackman	Spot Lander	SB	E 1/2A3-2	Good Flight
2	Rick Hackman	Quasar	Estes	E A8-3	Good Flight
3	Rick Hackman	XR-72	SB	E A8-3	Good Flight
4	Mark Kamide	Reliant	Estes	E B6-4	Good Flight
5	Mark Kamide	Skywinder	Estes	E C6-3	Good Flight
6	Mark Kamide	Saturn 1B	Cox	E C6-3 [2]	Good Flight
7	Mark Kamide	Space Clipper	Quest	E C6-3	Good Flight
8	Doug Gardei	Jammin' 4-Pack	SB	E A10-3 [2]	No chute
9	Doug Gardei	GEO SAT LV	Estes	E C6-3	Good Flight
10	Doug Gardei	Recruiter	Estes	E C6-5	Good Flight
11	Doug Gardei	Trident II	Estes	E B6-4	Good Flight
12	Doug Gardei	Patriot	Estes	E B6-4	Good Flight
13	Doug Gardei	Ovation 35	Custom	E A8-3	Good Flight
14	Doug Gardei	Maniac	Estes	E D12-7	Good Flight
15	Doug Gardei	Super Big Bertha	Estes	E D12-3	Good Flight
16	Doug Gardei	Phantom 400	NCR	AT F25-4WL	Good Flight
17	George Fetter	Space Clipper	Quest	E C6-3	Good Flight
18	Gerard Hertzog	Alpha III	Estes	E C6-5	Good Flight
19	Gerard Hertzog	Alpha III	Estes	E C6-5	Good Flight

Launch StatisticsModels Flown:

3 Scratchbuilt  
 11 Estes  
 2 Quest  
 1 North Coast Rocketry  
 1 Custom Rocket Co.  
 1 Cox

Motor Usage:

20 Estes  
 1 Aerotech Single Use

Motor Failures: 0

1 1/2A  
 5 A  
 3 B  
 9 C  
 2 D  
 0 E  
 1 F

FLIGHT LOG

June 25, 1995

<u>#</u>	<u>FLYER</u>	<u>MODEL</u>	<u>MANUF</u>	<u>MOTOR[S]</u>	<u>RESULT</u>
1	Mark Beever	Crayon Rocket	QCR	E D12-5	SEP
2	Rick Hackman	XR-54	SB	E D12-5	Good Flight
3	Rick Hackman	XR-64B	SB	E A10-3 [2]	Hung up
4	Rick Hackman	XR-57	SB	E B6-4	Good Flight
5	Rick Hackman	1/2A Alt	SB	E 1/2A3-4	Good Flight
6	Rick Hackman	XR-54	SB	E D12-3	Good Flight
7	Mark Kamide	Black Brant II	Estes	E D12-3	Good Flight
8	Mark Kamide	Mini Patriot	Estes	E A10-3	Good Flight
9	Mark Kamide	Reliant	Estes	E C6-3	Good Flight
10	Mark Kamide	Saturn V	Cox	E D12-3 [2]	Good Flight
11	Mark Kamide	Saturn 1B	Cox	E C6-3 [2]	Good Flight
12	Mark Kamide	Mini Patriot	Estes	E A10-3	Good Flight
13	Mark Kamide	Reliant	Estes	E C6-3	Good Flight
14	Bill Schafer	2 Finspin	SB	E C6-5	Good Flight
15	Bill Schafer	D X 2	SB	E D12-5	Good Flight
16	Bill Schafer	SST-92	SB	E D12-0/C6-5	Good Flight
17	Bill Schafer	Sentinel	Estes	E D12-5	Good Flight
18	Bill Schafer	Mod. Shadow	Estes	AT F24-7RMS	Good Flight
19	Bill Schafer	Slim Jim	SB	E B4-6	Good Flight
20	Bill Schafer	Gabriel	Designex	E D12-5	Good Flight
21	Bill Schafer	M84	SB	E C6-5	Good Flight
22	Bill Schafer	A-7	SB	AT E15-7WL	Good Flight
23	Gary Feveryear	Mega-Sizz	Estes	E D12-5	Good Flight
24	Gary Feveryear	GEO SAT LV	Estes	E C6-3	Good Flight
25	Gary Feveryear	Big Brute	NCR	AT F25-6WL	Good Flight
26	Josh Schafer	Bandit	Estes	E B4-6	Good Flight
27	Josh Schafer	Bandit	Estes	E A8-3	Good Flight
28	Daniel Fev.	Alpha III	Estes	E A8-3	Good Flight
29	Daniel Fev.	America	Estes	E C6-7	Good Flight
30	Daniel Fev.	America	Estes	E C6-7	Good Flight
31	Daniel Fev.	Gnome	Estes	A A3-4	Good Flight
32	Daniel Fev.	Crayola	QCR	E C6-3	Good Flight
33	Glenn Fev.	C SD	SB	E C6-7	194.7s/NR
34	Glenn Fev.	A B/G	SB	AP A3-2	262.7/GF
35	Glenn Fev.	C ELA	SB	E C6-5	Good Flight
36	George Beever	Kormoran	TLP	E D12-5	Good Flight
37	George Beever	Shadow	Estes	E D12-5	Good Flight
38	George Beever	B HD	QCR	E B6-2	Prang
39	George Beever	1/2A BG	QCR	E 1/2A3-2	Red Baron
40	George Beever	Mercury Atlas	Estes	E D12-3	Good Flight
41	Darrell Asper	Aurora	Quest	E C6-5	Good Flight
42	Darrell Asper	SR-71	Estes	E C6-5	Good Flight
43	Darrell Asper	Mongoose	Estes	E C6-5	Good Flight



44	Darrell Asper	Air Walker	Estes	E C6-5	Good Flight
45	Darrell Asper	Turbo Copter	Estes	E A8-3	Good Flight
46	Bill Rhoat	Mini Patriot	Estes	E A3-4	Good Flight
47	Josh Rubright	Rampage	Estes	E B4-4	Good Flight
48	Josh Rubright	Bailout	Estes	E B4-4	Good Flight
49	Josh Rubright	Nova Payloader	Estes	E B4-4	Good Flight
50	Gary Rubright	Rascal	Estes	E C6-5	Good Flight
51	Gary Rubright	Recon-1	Estes	E B4-4	Good Flight
52	Gary Rubright	NASP	Estes	E B4-4	Good Flight
53	Michael Raush	Air Walker	Estes	E A8-3	Good Flight
54	Michael Raush	Air Walker	Estes	E A8-3	Good Flight
55	Michael Raush	Air Walker	Estes	E A8-3	Good Flight
56	Dwayne Doutrich	Tomcat	Estes	E C6-5	Good Flight
57	Dwayne Doutrich	Space Shuttle	Estes	E C6-5	Good Flight
58	Dwayne Doutrich	Jayhawk	Estes	AT E15-7WL	Good Flight
59	Dwayne Doutrich	Mosquito	Estes	E 1/2A3-?	Good Flight
60	Dwayne Doutrich	Phoenix	Estes	E D12-5	Good Flight
61	Dwayne Doutrich	Mosquito	Estes	E 1/2A3-2	Good Flight
62	Dwayne Doutrich	Black Brant	Estes	E D12-5	Good Flight
63	Kevin Kapp	SA-14 Archer	Estes	AT F40-4RMS	Good Flight
64	Drew Kibler	Cobra	Estes	E 1/2A3-2	Good Flight
65	Drew Kibler	Cobra	Estes	E A10-3	Good Flight
66	Drew Kibler	Cobra	Estes	E 1/2A3-4	No Deploy
67	Logan Kibler	Guided Missile	??	E 1/2A3-4	Good Flight
68	Logan Kibler	Guided Missile	??	E 1/2A3-2	??
69	Dave Tabutt	No Name	SB	E B4-4	Good Flight
70	Dave Tabutt	Big Bertha	Estes	E C6-5	Good Flight
71	Dave Tabutt	Ninja	Estes	E ??	??
72	Dave Tabutt	NASP	Estes	E B4-4	Good Flight
73	Dave Tabutt	Dark Star	Estes	E C6-5	Good Flight
74	Kevin Tabutt	Stinger	Estes	E A8-3	Good Flight
75	Kevin Tabutt	Stinger	Estes	E A8-3	Good Flight
76	Brandon Tabutt	Big Bertha	Estes	E C6-7	Good Flight
77	Brandon Tabutt	Candy Cane	SB	E A8-3	Good Flight
78	Gerard Hertzog	Mini Patriot	Estes	E A10-3	Good Flight
79	Gerard Hertzog	Icarus	Quest	E C6-5	Good Flight
80	Gerard Hertzog	Mean Machine	Estes	E D12-5	Good Flight
81	Gerard Hertzog	Alpha III	Estes	E C6-5	Good Flight
82	Gerard Hertzog	Mean Machine	Estes	E D12-5	Good Flight
83	Gerard Hertzog	Icarus	Estes	E C6-5	Good Flight
84	Gerard Hertzog	Min Patriot	Estes	E A10-3	Good Flight
85	George Fetter	Space Clipper	Quest	E C6-3	Good Flight
86	George Fetter	Space Clipper	Quest	E C6-3	Good Flight
87	George Fetter	Phantom 400	NCR	AT F25-4WL	Good Flight
88	George Fetter	Astrobee-D	Aerotech	AT F40-4RMS	1/2 GF

### Launch Statistics:

Models flown:

Motor Usage:

Estes: 41 Quest: 3

Estes: 84

North Coast: 3	Aerotech: 1	Aerotech RMS: 3	1/2A 8
The Launch Pad: 1	Unknown: 1	Aerotech SU: 4	A 17
QCR: 4	Designex: 1	Apogee/Estes: 1	B 13
Cox: 2	Scratch: 15		C 28
			D 17
			E 3
			F 5

## July 9, 1995

1	Gerard Hertzog	Mean Machine	Estes	E D12-5	Good Flight
2	Gerard Hertzog	Alpha III	Estes	E A8-3	Good Flight
3	Gerard Hertzog	Icarus	Quest	E C6-5	Good Flight
4	Gerard Hertzog	Mean Machine	Estes	E D12-5	Good Flight
5	Gerard Hertzog	Mini Patriot	Estes	E A10-3	Good Flight
6	Gerard Hertzog	Mean Machine	Estes	E D12-5	Good Flight
7	Gerard Hertzog	Icarus	Quest	E C6-5	Good Flight
8	Gerard Hertzog	Alpha III	Estes	E C6-5	Good Flight
9	Daniel Fev.	Gnome	Estes	E 1/2A3-4	Good Flight
10	Daniel Fev.	Crayola	QCR	E C6-3	Good Flight
11	Bill Rhoat	Hawkeye	Estes	E A3-4	Good Flight
12	Bill Rhoat	Space Racer	Estes	E A8-3	Good Flight
13	Bill Rhoat	Big Rage	Estes	E C6-5	Good Flight
14	Bill Rhoat	Sentinel	Estes	E C6-5	Good Flight
15	Bill Rhoat	Sport	CRC	E B6-4	Good Flight
16	Bill Rhoat	Astrocam 110	Estes	E C6-7	Good Flight
17	Bill Rhoat	Astrocam 110	Estes	E C6-7	Good Flight
18	Rick Hackman	Delta D	SB	E D12-3	Separation
19	Rick Hackman	Ramjet AA	SB	E D12-3	Separation
20	Rick Hackman	Skyhook	Estes	E A8-3	Old Rocket Day
21	Rick Hackman	XR-54	SB	E D12-3	Good Flight
22	Rick Hackman	XR-64C	SB	E C6-7 [2]	Unstable
23	Rick Hackman	Turbotwister	SB	E D12-3	Good Flight
24	Rick Hackman	Ripper	SB	E D12-5	Unstable
25	Rick Hackman	Turbo Tiger	SB	E ??	Good Flight
26	Mark Kamide	Gnome	Estes	E A10-3	Good Flight
27	Mark kamide	Black Brant II	Estes	E D12-5	Good Flight
28	Mark Kamide	Athena	Estes	E C6-5	Good Flight
29	Mark Kamide	Saturn V	Cox	E D12-3 [2]	Good Flight
30	Mark Kamide	Saturn 1B	Cox	E D12-3	Good Flight
31	Mark Kamide	HL-20	Quest	E C6-3	Good Flight
32	Mark Kamide	Mini Patriot	Estes	E A10-3	Good Flight
33	Mark Kamide	Gnome	Estes	E A10-3	Good Flight
34	Dale Greene	1/2A BG	QCR	Ap 1/4A3-2	Good Flight
35	Dale Greene	1/2A BG	QCR	Ap 1/4A3-2	Red Baron
36	Dale Greene	1/2A BG	QCR	Ap 1/4A3-2	Good Flight
37	Dale Greene	1/2A BG	QCR	Ap 1/4A3-2	Good Flight
38	Dale Greene	1/2A BG	QCR	Ap 1/4A3-2	Good Flight
39	Dale Greene	Nike-Smoke	MPC	E B4-6	Old Rocket Day

40	Dale Greene	Das Blue Max	ORI	AT G64-4RMS	Good Flight
41	John Yost	Big Bertha	Estes	E B4-4	Old Rocket Day
42	Dwayne Doutrich	Impulse	Estes	E D12-7[2]	Good Flight
43	Dwayne Doutrich	Patriot	Estes	E D12-7[4]	Good Flight
44	Dwayne Doutrich	Comanche	Estes	E B6-4	Good Flight
45	Ed Miller	Patriot	Estes	AT D13-7RMS	Good Flight
46	Ed Miller	UFO 24-10	SB	AT E15-7WL	Good Flight
47	Ed Miller	V-2	Estes	AT D24-4RMS	Good Flight
48	Ed Miller	Eliminator	NCR	AT F50-4T	Good Flight
49	Ed Miller	Phoenix	Estes	AT E18-4RMS	Good Flight
50	Ed Miller	Mini Katana	NCR AT	E45-8/E C6-7[6]	<b>Good Flight</b>
51	George Fetter	Phantom 400	NCR	AT F25-4WL	Good Flight
52	George Fetter	Phantom 400	NCR	AT F24-4WL	Good Flight
53	George Fetter	Phantom 400	NCR	AT F25-4WL	Separation
54	George Fetter	Space Clipper	Quest	E C6-3	Good Flight
55	George Fetter	Space Clipper	Quest	E C6-3	Good Flight
56	George Fetter	Alpha III	Estes	E B4-4	Good Flight
57	George Fetter	Alpha III	Estes	E B4-4	Good Flight
58	George Fetter	Terrier/Sandhawk	Estes	E D12-3	Good Flight
59	George Fetter	Astrobee-D	Aerotech	AT F50-4T	Good Flight
60	George Fetter	Astrobee-D	Aerotech	AT G40-4WL	Good Flight
61	George Fetter	Astrobee-D	Aerotech	AT F50-4T	Good Flight
62	George Fetter	Terrier/Sandhawk	Estes	E D12-3	Good Flight
63	George Fetter	Alpha III	Estes	E C6-5	Good Flight
64	Glenn Fev.	1/2A FWD	QCR	E 1/2A3-2	Good Flight
65	Glenn Fev.	1/2A Alt.	SB	E 1/2A3-4	Good Flight
66	Glenn Fev.	Onyx	LOC	AT E15-4WL	Good Flight
67	Glenn Fev.	Nike-Hercules	TLP E	D12-0[3]/D12-3,5	<b>Good Flight</b>
68	George Beaver	Cherokee-G	AAA	AT E15-4WL	Good Flight
69	George Beaver	Lamprey	CRC	E B6-4	Good Flight
70	George Beaver	Pathfinder	Estes	AT D21-7T	No 'chute
71	George Beaver	SR-71	HobbyLab	AT E15-P	No Glide
72	George Beaver	Maxi Honest	John Estes	E D12-3	Good Flight
73	George Beaver	Wren	THOY	AT D15-4RMS	Good Flight
74	George Beaver	Wren	THOY	AT E15-7WL	No 'chute

### Launch Statistics

#### Models Flown:

Estes	25	LOC	1	NCR	3
Aerotech	1	AAA	1	CRC	2
Launch Pad	1	THOY	1	ORI	1
QCR	3	MPC	1	Cox	2
Scratch9		HobbyLab	1		
Quest	3				

#### Motors Used:

Estes	66	1/4A -5
AT RMS	4	1/2A-3
AT SU	13	A-7
Ap/Estes	5	B-5
		C-20
		D-30
		E-7
		F-6
		G-2

**High Power Report:****Battlepark '95, Culpeper, VA.**

April 29-30, 1995

by Ed Miller

The annual spring HPR launch at Culpeper, Virginia was eagerly awaited by dozens of rocketeers. The weekend started off great. The weather was almost perfect; clear skies, 65 degrees, and only an intermittent 5 mph breeze.

Flyers from all over the Northeast came to Culpeper to burn some propellant. SPAAR/Tripoli Susquehanna were represented by Roger Dwyer, Rick Hackman, Dale Greene, and Ed Miller. Other Tripoli Prefectures attending were Tripoli Connecticut, L.I.A.R.S. from Long Island, Tripoli Maryland, Garden State Tripoli, Tripoli North Carolina, Tripoli Eastern Tennessee, and Tripoli Virginia. Aerotech and Hypertech were on hand to demonstrate their hybrid motors. Vulcan was also on hand to demonstrate their new reloadable motors. Other dealers attending were LOC/Precision, Blue Ridge Rocketry, Pratt Hobbies, Rocket Science, Designex, Public Missiles, Countdown Hobbies and Kytech.

Aerotech and Hypertech flew demonstration flights all day Saturday. Both systems were impressive. The Hypertech system seemed to have better performance than the Aerotech system. Both systems have good

and bad points.

The most impressive flight of the weekend was Steve Eve's 3X-scale IROC. This IROC was 14' long and 16" in diameter. It weighed 135lbs with one "M" motor and four "K" motors. It reached an altitude of about 4500 feet, and then deployed its chute with an automotive airbag detonator. Fantastic. Many flyers flew large models with 98mm K and L motors. Roger Dwyer flew his Bruiser EXP with a K500 motor for a perfect flight. His Bruiser landed only a few hundred feet from his car. Ed Miller flew his THOY Falcon with a J250 to 4150 feet. The altitude was recorded with an Adept ALT2S altimeter with deployment switches. The drogue chute ejected at apogee and the main chute ejected at 250 feet above ground level. Ed also launched his Flame Thrower with four H330 Silver Streaks. Some spectators said they could feel the heat when it took off.

Ed Holland launched a large rocket with a K motor and 6 H100's; stagger air started in pairs by radio control. Bill Davidson launched his 1/3-scale WAC Corporal with an I500 and an H330 Silver Streak for a perfect arrow straight flight. There were so many cool flights on Saturday that I cannot

possibly remember them all.

Sunday's weather was a bust. The stopped only long enough to let us make a few flights. Even with the bad weather on Sunday there was a total of 250 flights for the weekend. Numerous flyers also became confirmed Tripoli members.

As always, this launch had larger and more powerful rockets than the previous launch. How far can it go? Who knows? I want to be there to see for myself.

---

#### Sport Launch [cont.]

There were a number of new faces, too. Darrell Asper was finally able to make it to a launch from over in York County. He had some great flights, in particular his Quest Aurora and Estes SR-71 Blackbird.

Dwayne Doutrich actually got an Estes Tomcat to...well, glide! Nice going, Dwayne! His Estes Jayhawk also had a great flight on an Aerotech E15 White Lightning.

Some not-so-new faces included Bill Schafer [Designex Co.]. Mark Kamide and George Fetter [Mountainside Hobbies], Rick "XR" Hackman, Gary "Have You Hugged Your Big Brute Today?" Feveryear, and Gary "No, I'm Gary" Rubright.

In all, 88 flights were made for the day.

#### July 9, 1995

Another great day for flying, which resulted in 74 flights by 12 flyers.

Some highlights include Gerard Hertzog flying the heck out of everything he had; Daniel Feveryear getting another great flight out of one of Mr. Brown's crayon rockets from QCR; Bill Rhoat making seven [count 'em] flights [in one day!]; and Mark Kamide continuing to astound everyone by getting great flights out of his Cox Saturn 1B and Saturn V [mine had melted way before this!].

George Fetter flew a re-built Aerotech Astrobee-D for some nice flights, particularly on a G40 [real nice]. He also flew a nicely finished Estes Terrier Sandhawk. Dwayne Doutrich made lots of smoke with his Estes Impulse and Patriot; Glenn Feveryear continued to prepare for NARAM with his 1/2A Flex-Wing and 1/2A Altitude models. Then he flew his beautiful Nike-Hercules, built from The Launch Pad plans. Everything worked as planned for a great flight [gee, can we see that one fly again?]

Ed Miller got some "ooohs & aaahs" with his North Coast Mini-Katana [version 3], which lifted off under 6 C6-7's, which air-started a central Aerotech E45... or was it the other way around? Anyway, it was a great flight.

CLUB NEWS NOTES

**New members:** Welcome to all of our new members! They are:

George Fetter, 195 Musser Rd.,  
East Earl, PA 17519

Marcus & Richard Good, 218  
Fausnacht Dr., Denver, PA 17517

Douglas & William McClearen,  
704 N. 6th St., Denver, PA  
17517

Dave Wascavage, 605 Georgetown  
Rd., Wallingford, PA 19086

Glad to have you with us!

---

**New address:** Your editor has a new one:

George Beever, 231  
Weidmansville Rd., Ephrata, PA  
17522 [ph# 733-4170 unlisted]

---

**Newsletter submissions:** If you've got 'em, I need 'em! Anything and everything, including articles, plans for your favorite sport or competition model, product reviews, letters to the editor, whatever. Send them to the club address: SPAAR, PO Box 127, Reamstown, PA 17567. I could use the help!!!!

---

**Upcoming launches and events:**

On **Sunday, September 17**, the club will assist SPAAR member Mark Snyder with a launch for a group of Cub Scouts from

Perry Hall, MD., as part of a weekend "Space Camp". We will set up and run the range for the scouts. We are welcome to fly, too. Anyone interested in helping should call George Beever at 733-4170, or Mark Snyder at 410-256-7499... **On Sunday, October 1**, we will have a Sport Launch at Cocalico from 1PM to 5PM. The theme will be scratch built models [models not from a kit]. Bring out all of those designs that you dreamed up yourself. Note the time change.... **Sunday, October 29** will feature another Sport Launch [1PM to 5PM], followed by **SPAARSPAM-7 on November 12 from 1PM to 5PM**. For the newcomers, SPAARSPAM is our annual tailgate picnic and Sport Launch. Everyone is asked to bring their favorite picnic dish to share with everyone else. Chili is provided by the Beevers. A fun contest event is also flown. Last year we flew Chili-loft Duration Spot Landing or something weird like that. What will this year's event be? Come to the **club meeting on October 20** and find out. There is also a **club meeting on Friday, September 15**. Our meetings are held on the **third Friday of each month**, from 7PM to 9PM at the HOMEDCO building on Harrisburg Ave. in Lancaster. For directions, call Glenn Feveryear, 717-456-5570, George Beever, 717-733-4170, of Dan Weinhold, 717-295-9049. All members are encouraged to attend the club meetings.

**SOUTHERN PENNSYLVANIA AREA ASSOCIATION OF ROCKETRY**

SECTION 503

SPAARSEC-XII RESULTS

Revised 6-20-95

<i>A HD (MR)</i>	FLT1	FLT2	FLT3	TOTAL	PLACE	PTS
Glenn Feveryear	46.90	54.23	54.12	155 sec	1	240
Flirt'n w/Disaster	43.53	40.87	45.52	131sec	2	144
Dale Greene	45.85	51.61	DQ(NDP)	98 sec	3	98
Gary Feveryear	33.12	31.99	30.83	96 sec	4	48
Renee Feveryear	28.53	33.56	28.20	91 sec	FP	24
Roger Dwyer	13.81	19.19	14.00	47 sec	FP	24

<i>1/2 A SpA</i>	FLT1.L	FLT2.L	BEST	PLACE	PTS
Glenn Feveryear	79.86m/100cm	-	460 pts	1	140
Flirt'n w/Disaster	65.41m/100cm	-	430 pts	2	84
Roger Dwyer	58.49m/100cm	45.8m/100cm	416pts	3	56
Dale Greene	32.4m/98cm	28.4m/98cm	358 pts	4	28

<i>B ELA</i>	FLT1	FLT2	BEST	PLACE	PTS	
Flirt'n w/Disaster		59.29m	-	59m	1	190
Glenn Feveryear		55.84m	55.65m	56m	2	114
Renee Feveryear		42.94m	DQ(EGG)	43m	3	76
Gary Feveryear		40.83m	-	41m	4	38
Roger Dwyer		32.02m	DQ(EGG)	32m	FP	19
Dale Greene		DQ(EGG)	16.9m	17m	FP	19

<i>D SD</i>	FLT1	FLT2	SUM	PLACE	PTS
Glenn Feveryear	DQ(UNS)	40.50	41 sec	1	110
Dale Greene	DQ(ND)	362.53(NR)	NR	FP	11
Roger Dwyer	35.19NR	-	NR	FP	11
Flirt'n w/Disaster	DQ(SHR)	DQ(ND)	DQ	-	-
Gary Feveryear	DQ(SHR)	-	DQ	-	-

<i>OSL</i>	FLT	PLACE	PTS
Renee Feveryear	9.3m	1	40
Glenn Feveryear	10.6m	2	24
Flirt'n w/Disaster	11.8m	3	16
Dale Greene	18.7m	4	8
Gary Feveryear	23.7m	FP	4
Roger Dwyer	>50m	FP	4

**Total Points**

Glenn Feveryear	628
Flirt'n w/Disaster	434
Dale Greene	162
Renee Feveryear	140
Roger Dwyer	114
Gary Feveryear	90

