



SPAAR COUNTDOWN

LAUNCH REPORTS

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THE ALMANAC ISSUE

- Check out the club performance records
- Who's Who on the SPAAR social scene—and by the way, who won the V-2?
- Missed a meeting? Shame on you! Read the minutes to catch up
- In short, everything you really didn't want to know about SPAAR—and now you know why you didn't ask!!

SPAAR SPORT LAUNCH

By Rick Hackman

The weather for the last SPAAR launch for the year, on December 9, was a bit cold and windy. Several diehards showed up and stood around trying to stay warm. Then Tom Ha and his sons arrived and got us going. I set up my launch system and we flew the following rockets with the results as follows:

My scratchbuilt Eagle B/G weather cocked due to the breeze. It did glide a ways until it hit the ground and snapped in half. On my Stiltfin, the igniter leads became entangled on the fin unit, and was carried skyward nearly yanking the launch controller from my hand! The rocket returned minus the tail unit. I know exactly what I did wrong. With the breeze, Tom

Ha's glider flight could better be described as "Gone With The Wind". We burned a total of 28.75 NS, or 1 "E" motor!

SPAAR SPORT LAUNCH

By George Beever

The weather forecast was rather foreboding on January 6: cold, cloudy, with rain, sleet and/or snow beginning in the Lancaster County area around 3:00PM. Did that stop us? Nah! We did make one concession to the weather, however, by setting up only four launch pads. We finally got flying at about 1:30 in very still conditions. Except for the 35-degree temperatures, the conditions were great!

COUNTDOWN

Volume 14, Issue 1
January/February
2002

SPAAR OFFICERS**PRESIDENT**

Dale "The Prez" Greene

VICE-PRESIDENT

Nicolas "Doc" Simon

SECRETARY/TREASURER

Larry "I Need A Receipt For That" Gerlach

MEMBER-AT-LARGE

Gregg "The Rail" Martell

SECTION ADVISOR

Glenn Feveryear

Countdown is the newsletter of SPAAR, the Southern Pennsylvania Area Association of Rocketry, NAR Section #503, and is published six times per year as a benefit of membership. Content may be used with proper credit. Thanks this time to:

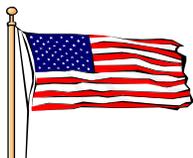
Rick Hackman
Mark Kamide
Tony Rossi
Glenn Feveryear

SPAAR
PO Box 127
Reamstown, PA 17567

Visit the SPAAR Website:

www.spaar.org

"LET'S ROLL"



With his name tag stuck in his right ear, Mark Kamide prepares to fly his Mercury Atlas at SPAASPAAM



Under the watchful eye of The Prez, Dale Greene, a Mercury-Redstone heads for the sky.

FROM THE PREZ.....

Well it's the start of a new year and a new calendar of SPAAR activities. January has already seen a great workshop by Ed Miller and the annual family dinner (kudos to the Ha family for a fine job). We have a full schedule of events coming up! Two more workshops in February and March and club trip to North museum will keep use busy during the winter months. Next summer we have once again been invited to hold a sport launch at the

FROM THE EDITOR

I'm back....again. Face it folks, you're stuck with me.

How do you follow an act like that? Following Mark Kamide, I mean. Mark did a wonderful job with *The Countdown* these past few years. I know for a fact that he put a LOT of time into this newsletter, amidst trying to juggle his professional life and a steadily increasing family! Mark actually enjoyed what I call the "bull work" of putting out a newsle tter - the copying, addressing, stamping, and mailing. You know, the stuff I hate [and guess what he still might be doing a lot of?]. All this to say that even though Mark might like you to think that he is no longer part of the newsletter operation, think again. He'll still be doing a lot of that "bull work", not to mention working me through all of this computer stuff ["Hey Mark, just what does this button do anyway?"].

**INSERT STANDARD NEWSLETTER EDITOR
GROVELING HERE**

Yes, friends, here it comes - that begging, that groveling, that shameless plea for submissions for the *COUNTDOWN*. You knew it was coming, didn't you? I am happy to say that over the past few years, submissions to the newsletter have actually picked up - from photos to cartoons to plans to articles and more. Please keep it coming!

SECTION MEETING MINUTES

SECTION MEETING MINUTES

December 21, 2001

Present: J. Yost, L. Gerlach, D. Greene, R. Hackman, T. Rossi, M. Brubaker, M. Spencer, 4 Feveryears, 2 Beavers.

The president called the meeting to order at 7:10PM and called for Committee Reports:

Treasurer: Larry Gerlach reported that we have a current balance of \$1,167.20.

Section Advisor: Glenn Feveryear reported that the NAR Section Charter is due for renewal in April 2002.

Competition: Glenn reported that local contests of interest are listed on the SPAAR website; and that the NAR Board of Directors meeting will be held in Baltimore in February 2002.

High Power: No report.

Newsletter: George Beever, reporting for Mark Kamide, stated that the Nov/Dec newsletter should be out shortly, but that a ballot mailing will be done separately.

Old Business:

- Dale Greene advised that the NAR Section Survey would be active until after the holidays on the club's e-group.
- Larry Gerlach passed around some information that he had obtained from the North Museum at Franklin & Marshall College regarding their programs for the winter of 2002. After discussion, it was decided to visit the museum on Sunday,

February 24. Programs that are available will be "Kids Coolest Space Questions", 1:00PM; "The New Cosmos", 2:00PM; and the "Night Sky Tour" at 3:00PM. There is a \$4.00 admission fee if you are not a museum member. We will meet at the museum entrance at noon.

- Upgrades to the club launch system were discussed, as was the work on the back-up system.
- Tom Ha has advised the membership via the e-group of the details of the Family Dinner [January 19, 6:00PM], and more information should be in the mail shortly.

New Business:

- The possibility of a 2002 Gettysburg Launch was discussed, however no information has been received from the NPS at this time.
- After discussion, George Beever volunteered to send club activity information to the proper person for inclusion in *The Model Rocketeer*.
- The results of the elections for club officers for 2002 were announced:

President:	Dale Greene
Vice-President:	Dr. Nicholas Simon
Secretary/Treasurer:	Larry Gerlach
Member-at-Large:	Gregg Martell
Section Advisor:	Glenn Feveryear

The hot-air portion of the meeting ended at about 8:00PM when the pizza arrived, and the really seri-

(Continued on page 5)

SPAAR MEMBERSHIP ROSTER

187	Jeanie	Barnsley	12013 Buffington Road	Woodsboro	MD	21798	12/31/2001
236	Anita	Barnsley	12013 Buffington Rd	Woodsboro	MD	21798	12/30/2001
184	J. Ivan	Barnsley Jr.	12013 Buffington Road	Woodsboro	MD	21790	12/31/2001
30	Mark	Beever	231 Weidmansville Road	Ephrata	PA	17522	12/31/2001
1	George	Beever	231 Weidmansville Road	Ephrata	PA	17522	12/31/2001
237	Timothy	Beever	231 Weidmansville Road	Ephrata	PA	17522	12/30/2001
112	LeRoy	Bonawitz	115.5 Holstein Street	Bridgeport	PA	19405	07/31/2002
232	Michael	Brubaker	453 East Elm St	Lebanon	PA	17042	01/31/2002
122	Randall	Brust	6205 Domarray Street	Coopersburg	PA	18036	09/30/2001
123	Kathryn	Brust	6205 Domarray Street	Coopersburg	PA	18036	09/30/2001
124	Joseph	Brust	6205 Domarray Street	Coopersburg	PA	18036	09/30/2001
242	Aldo	Camacci	925 Sycamore Lane	Hummelstown	PA	17036	02/28/2002
212	Danny	Camacci	925 Sycamore Lane	Hummelstown	PA	17036	02/28/2002
243	Joey	Camacci	925 Sycamore Lane	Hummelstown	PA	17036	02/28/2002
244	Tony	Comp	316 N. Front St.	Liverpool	PA	17045	08/31/2002
245	Nathan	Comp	316 N. Front St.	Liverpool	PA	17045	08/31/2002
54	Roger	Dwyer	6074 Goshen Road	Newtown Square	PA	19073	02/28/2002
234	James	Ferry	2 Fausnacht Dr	Denver	PA	17517	11/30/2001
9	Glenn	Feveryear	701 Main Street	Delta	PA	17314	12/31/2001
56	Renee	Feveryear	701 Main St	Delta	PA	17314	12/31/2001
46	Rita	Feveryear	701 Main St	Delta	PA	17314	12/31/2001
61	Daniel	Feveryear	701 Main St	Delta	PA	17314	12/31/2001
156	Amy	Frisbie	1250 Creek Road	Lititz	PA	17543	04/30/2002
155	Bradley	Frisbie	1250 Creek Road	Lititz	PA	17543	04/30/2002
154	James	Frisbie	1250 Creek Road	Lititz	PA	17543	04/30/2002
0	Kevin	Funk	24944 Kaywood Court	Escondido	CA	92026	12/31/2001
219	Ben	Gerlach	25 Brusen Drive	Lititz	PA	17543	02/28/2002
218	Larry	Gerlach	25 Brusen Drive	Lititz	PA	17543	02/28/2002
18	Dale	Greene	244 Conoy Avenue	Elizabethtown	PA	17022	12/31/2001
214	Tom	Ha	416 Chestnut Street	Mount Holly Springs	PA	17065	02/28/2002
215	Christopher	Ha	416 Chestnut Street	Mount Holly Springs	PA	17065	02/28/2002
216	Zachary	Ha	416 Chestnut Street	Mount Holly Springs	PA	17065	02/28/2002
6	Rick	Hackman	1500 Furnace Hill Pike	Lititz	PA	17543	12/31/2001
211	Stephen	Humma	1720 Maple Street	Bethlehem	PA	18017	02/28/2002
194	Bryce	Hutchinson	155 Briarwood Blvd.	Elverson	PA	19520	02/28/2002
193	Steve	Hutchinson	155 Briarwood Blvd.	Elverson	PA	19520	02/28/2002
195	Aaron	Hutchinson	155 Briarwood Blvd.	Elverson	PA	19520	02/28/2002
241	Jeanne	Hutchinson	155 Briarwood Blvd	Elverson	PA	19520	02/28/2002
229	Chris	Izana	9 Thalia Lane	Birdsboro	PA	19508	11/30/2001
226	Dale	Jacobs, Jr.	3480 Station Ave	Center Valley	PA	18034	11/30/2001
70	Mark	Kamide	42 Eastbrooke Drive	Ephrata	PA	17522	01/31/2002
205	Bridget	Kane	56 Marshall Run	Northampton	PA	18067	11/30/2001
161	Eric D.	Kane	56 Marshall Run	Northampton	PA	18067	11/30/2001
206	Hannah	Kane	56 Marshall Run	Northampton	PA	18067	11/30/2001
109	Stephen	Knight	2 Richland Ln, Apt. 208	Camp Hill	PA	17011	07/31/2002
227	Mark	Koch	1135 East Poplar St	York	PA	17403	11/30/2001
228	Nathan	Lowrie	288 Tice Lane	Lebanon	PA	17042	11/30/2001
225	Gregg	Martell	1120 Old Eagle Rd	Lancaster	PA	17601	06/30/2002
224	Joshua	McNulty	6407 Quentin Road	Harrisburg	PA	17111	02/28/2002
223	Michael	McNulty	6407 Quentin Road	Harrisburg	PA	17111	02/28/2002
10	Edward	Miller	316 E. Queen Street	Jonestown	PA	17038	12/31/2001
230	David	Miller	68 South Penn St	Manheim	PA	17545	11/30/2001
231	Nathan	Miller	68 South Penn St	Manheim	PA	17545	11/30/2001
172	Janet	Myers	849 Park Hill Drive	Manheim	PA	17545	02/28/2002
137	W. Craig	Myers	849 Park Hill Drive	Manheim	PA	17545	02/28/2002
173	Matthew	Myers	849 Park Hill Drive	Manheim	PA	17545	02/28/2002
230	Michael	Naglieri	6411 Quentin Rd	Harrisburg	PA	17111	11/30/2001

ous business of the club commenced. With full stomachs and impending heartburn, the meeting was adjourned at 9:10PM.

SECTION MEETING MINUTES

January 12, 2002

Present: D. Greene, E. Miller, And D. Weinhold, L. Gerlach, T. Rossi, G. & M. Beever, J. Yost, G. Martell, M. Brubaker, L. Bonawitz.

The president called the meeting to order at 9:12AM and called for the committee reports:

Treasurer: Larry Gerlach reported a balance of \$1,136.21, with several memberships past due. If you are one of these people, Larry will find you.

Section Advisor: No report.

Competition: No report.

High Power: Ed Miller suggested checking the various Tripoli club websites for upcoming launches.

Newsletter: George Beever made the usual shameless plea for submissions, and expected the next issue to be out shortly [nudge nudge, wink wink].

Old Business:

- Larry, Keeper of The Old Business, reminded the assembled multitude that the issue of the club brochure that Gregg Martell was working on was still "out there". Gregg was verbally abused mercilessly until he fortuitously walked in with the brochure.
- John Yost spoke of the work he is doing on the secondary launch system, and used electronic terminology that a number of people

actually understood. The writer is not one of them.

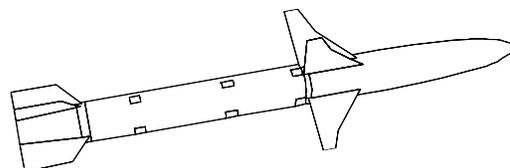
- The club's winter field trip will be Sunday, February 24, to the North Museum on the F&M campus. We'll meet there at noon.

New Business:

- Mick Spencer has requested permission to bring a Cub Scout group to a future launch
- Steve Hutchinson has advised, through the e-group, that the NPS in Gettysburg has contacted him about another SPAAR launch in June.
- Mick Spencer will be maintaining the club's membership database, taking over from Glenn Feveryear. Thanks for all of your work on this over the years, Glenn.
- George Beever advised the club of Randy Brust's offer to sell his Quad-Pod to the club at a very reasonable price. Discussion among the members agreed that the offer was a great one, but that it might simply be an item we don't need. No motion to purchase was made.

With that, the Prez called a halt to the business [hot air] portion of the meeting, and got on with the good stuff.

Ed Miller, one of SPAAR's early members, gave a great presentation on using on-board electronics in recovery system deployment and the air-start of motors. Thanks Ed, it was very well done!



THE SOCIAL SCENE

On Saturday, January 19, SPAAR continued another one of its traditions by holding our annual Family Dinner. This year, Tom and Maria Ha organized the event, which was held at the Clear View Restaurant in Elizabethtown.

The meals were pre-ordered, which saved a lot of time and confusion...except of course, for Stephan Knight who didn't get his crab cakes until the waitress went down to the Chesapeake Bay herself to catch the crabs. All kidding aside, due to the snow storm, the expected wait staff of three became one solitary waitress who certainly earned her tip!

As with the last several years, there were door prizes given away. What was different this time around was that Tom had solicited several vendors for contributions. Among those that responded was Qualified Competition Rockets from Springfield, Virginia. QCR is owned by long-time NOVAAR Section Advisor and all around good guy Ken Brown. Another was Discount Rocketry from all the way from San Diego. A little story here—Discount Rocketry is owned by one Kevin Funk, who holds an honorary lifetime membership with SPAAR and a great guy—so when the call went out, Kevin did us proud, by sending a "new" Estes Maxi V-2 kit. I know that Tom already has done this, but on behalf of all of us, thanks Kevin and Ken!!!

Once again, after dinner we played the infamous "gift game", which this year actually contained rocketry-related goodies. We hear that Tom was hoarded the Sunday funnies for weeks to wrap them in.

As for the big door prize—the V-2? None other than my team partner, "Snarlin' John" Yost himself. When last scene, he and Larry Gerlach were locked in a wrestling match over it.

Thanks Tom & Maria!!!



This is NOT John Yost, it's Gregg Martell [he's not snarling], but it IS the V-2 donated by Discount Rocketry



Tom, Maria, and the little Has—can you see the relieved look on their faces?

CONTEST NEWS

The NARHAMS Section in Maryland has planned the following contests for 2002:

OPOSSUM-6 Open Meet, April 13, 2002, Middletown, MD. Events:

B Super-Roc Duration, 1/4A Rocket Glider Duration, 1/2A Helicopter Duration, 1/2A Parachute Duration.

ECRM-29 Regional [East Coast Regional Meet], May 18-19, 2002, Middletown, MD. Events:

C Dual Eggloft Altitude, Plastic Model Conversion, 1/4A Rocket Glider Duration, Open Sport Landing.

Maryland Funny Meet, October 12, 2002, Middleton, MD.

This will be an unofficial contest, open to anyone. There will be three divisions: Senior [19+], Junior [up to 18 years], and Beginner [anyone who has never competed in a NAR-sanctioned competition, regardless of age]. Events:

A Super-Roc unDuration - longest rocket to deploy a parachute wins. No duration timed, just model length.

B unlikely Rocket Glider Duration - most unlikely rocket glider wins. Anything that looks like a glider will not even make it past check-in.

C Barbie/GI Joe Parachute Spot Landing - Doll must be deployed separately from the rocket and descend via parachute. Distance is measured from the spot to the nose of the doll. Closest one wins.

Oddroc Craftsmanship - Build your favorite oddroc, supply substantiation data, and be judged by secret ballot by other competitors. Oddrocs must have successful flight to qualify.

I just received confirmation of our contest sanction for RAMTEC-10 (#1008-02R).

The details are:

Date: June 15-16, 2002

Location: DeSales University, center Valley, PA

Events: 1/2A PD, A r/G, B HD, Set Altitude [175 meters], Sport Scale.

Housing will be available in the dorms from Friday evening to Sunday Afternoon.

Please pass the word, far and wide. Let's make this the biggest RAMTEC yet. Hope to see you there.

-Glenn Feveryear

IN THE NEXT ISSUE OF *THE COUNTDOWN.*

Launch Reports

Sport Plan: The Grumpy Dog II

Meeting Minutes

And.....

WHATEVER YOU SUBMIT!!!



THE SPAAR RECORD BOOK

As many of you know, SPPAR attempts to keep track of performance records set by members during SPAAR Sport Launch and sanctioned contests. How do you make sure that your achievement is recognized? Easy—on your Flight Card, ask that that your flight be times or, when available, tracked for altitude. These records are current as of 02/02/02. [cool, huh?]

A

<i>1/2AHD</i>	DANIEL YOST	1/2A3-2T	26.00	05 Sep 1993
<i>1/2APD</i>	DAVE BENDER	1/2A3-4T	44.50	03 Nov 1991
<i>1/2ARG</i>	DANIEL YOST		26.41	26 May 1991
<i>1/2ASD</i>	DAVE BENDER	1/2A3-2T	22.09	05 May 1991
<i>AALT</i>	DOUG GARDEI	A8-5	78.8M	07 Aug 1994
<i>AHD</i>	DANIEL YOST	A3-2T	33.00	05 Sep 1993
<i>APA</i>	RENEE FEVEYEAR	A8-3	28.67M	05 Sep 1994
<i>APD</i>	DAVE BENDER	A3-4T	50.89	05 May 1991
<i>ASD</i>	DAVE BENDER		42.60	09 Oct 1988
<i>BELA</i>	RENEE FEVEYEAR	B6-4	42.9M	28 May 1995
<i>BELD</i>	DEREK YOST		17.22	26 May 1991
<i>BHD</i>	DANIEL YOST	B4-2	71.00	05 Sep 1993
<i>BPD</i>	AARON NEWMAN	B4-6	157.60	27 May 1990
<i>BSD</i>	JASON WINGENROTH	B6-4	40.00	14 Oct 1990
<i>CBG</i>	AARON NEWMAN	C6-3	93.26	14 Oct 1990
<i>CELA</i>	RENEE FEVEYEAR	C6-3	144.5M	04 Sep 1994
<i>CELD</i>	DAN YOST		34.10	09 Oct 1988
<i>CPD</i>	ERIC MARCELLA		66.44	03 Sep 1989
<i>CSD</i>	DAVE BENDER	C6-7	39.50	18 Dec 1988
<i>DALT</i>	ROGER LEE DWYER	D12-5	166.5M	19 Jul 1992
<i>DPD</i>	DAVE BENDER	D12-7	94.60	14 Oct 1990
<i>EALT</i>	MATT WEAVER	D12/D12-3	315.2M	26 May 1996

B

<i>1/2APD</i>	BILL RHOAT		36.50	23 Jul 1989
<i>1/2ASD</i>	BILL RHOAT		38.90	23 Jul 1989
<i>AALT</i>	AARON NEWMAN	A8-3	83.2M	30 Jun 1991
<i>APD</i>	BILL RHOAT		27.60	14 Aug 1988
<i>ASD</i>	BILL RHOAT	A3-4T	85.70	22 Jul 1990
<i>BALT</i>	DAVE BENDER	B4-6	265.4M	07 Aug 1994
<i>BELA</i>	MATTHEW	B6-4	39.6M	29 May 1994
<i>BELD</i>	BILL RHOAT	B6-2	10.73	27 May 1990
<i>BPD</i>	BILL RHOAT		79.00	16 Apr 1989
<i>BSD</i>	BILL RHOAT		50.90	23 Jul 1989
<i>BSRD</i>	BILL RHOAT		832.50	23 Jul 1989
<i>CALT</i>	DAVE BENDER	C6-7	426.9M	07 Aug 1994
<i>CELA</i>	MATTHEW	C6-5	100.4M	29 May 1994
<i>CELD</i>	BILL RHOAT		67.20	02 Jul 1989
<i>CHD</i>	BILL RHOAT	C6-3	61.30	27 May 1990
<i>CPD</i>	DAVE WENRICH		33.90	14 Aug 1988
<i>DPD</i>	BILL RHOAT		31.10	16 Apr 1989
<i>EPD</i>	BILL RHOAT		22.10	05 Nov 1989

C

<i>1/2AALT</i>	GLENN FEVEYEAR	1/2A3-4T	163.0M	03 Sep 1995
<i>1/2ABG</i>	GLENN FEVEYEAR	1/2A3-2T	71.50	23 Jul 1989
<i>1/2AHD</i>	GLENN FEVEYEAR	1/2A3-4T	61.00	05 Sep 1993
<i>1/2APD</i>	GLENN FEVEYEAR	1/2A3-4T	258.00	02 Jul 1989
<i>1/2ARG</i>	GLENN FEVEYEAR	1/2A3-2T	55.00	30 May 1993
<i>1/2ASD</i>	GLENN FEVEYEAR	1/2A3-4T	139.00	03 Sep 1995

(Continued on page 9)

1/2ASRA	GLENN FEVERYEAR	1/2A3-4T	460.00	28 May 1995
1/2ASRD	GLENN FEVERYEAR	1/2A3-2T	233.00	22 Jul 1990
1/4ABG	GLENN FEVERYEAR	1/4A3-4	25.89	03 May 1992
1/4AHD	GLENN FEVERYEAR	1/4A2-4	67.00	28 Sep 1997
1/4APD	GLENN FEVERYEAR	1/4A3-4	102.38	08 Nov 1992
1/4ARG	GEORGE BEEVER	1/4A3-2	16.12	24 May 1992
1/4ASD	GARY FEVERYEAR	1/4A3-4	41.99	03 May 1992
AALT	ALAN SHEPARD	A8-3	106.6M	01 Sep 1996
ABG	GLENN FEVERYEAR	A3-2T	84.30	02 Jul 1989
AHD	GLENN FEVERYEAR	A3-4T	166.00	05 Sep 1993
APA	GLENN FEVERYEAR	A3-4T	110.9M	04 Sep 1994
APD	GEORGE BEEVER	A3-4T	125.00	02 Sep 1990
ARG	GLENN FEVERYEAR	A3-2T	109.80	01 Sep 1991
ASD	GEORGE BEEVER	A3-6T	132.34	15 Sep 1991
ASRD	GEORGE BEEVER	A10-3T	415.00	27 May 1990
BALT	ALAN RUBRIGHT	B4-4	184.6M	13 Sep 1992
BBG	GLENN FEVERYEAR	B4-2	112.30	02 Sep 1990
BELA	GLENN FEVERYEAR	B7-6	106.0M	03 Sep 1995
BELD	ED MILLER		83.89	26 May 1991
BHD	GLENN FEVERYEAR	B4-4	139.00	05 Sep 1993
BPD	DALE GREENE	B4-6	184.90	02 Jul 1989
BRG	GLENN FEVERYEAR	B4-2	154.00	30 Oct 1988
BSD	GLENN FEVERYEAR	B4-6	168.53	12 Aug 1990
BSRA	GARY FEVERYEAR	B6-4	865.00	04 Sep 1994
BSRD	GLENN FEVERYEAR	B4-4	486.00	23 Jul 1989
CALT	JOHN BALMER	C6-5	147.4M	07 Aug 1994
CBG	FRED HOKE	C6-3	83.70	27 May 1990
CELA	GARY FEVERYEAR	C6-5	172.6M	04 Sep 1994
CELD	GLENN FEVERYEAR	C6-3	156.00	09 Oct 1988
CHD	ED MILLER	C6-3	197.70	24 May 1992
CPD	DALE GREENE	C6-7	125.25	13 Aug 1989
CSD	GLENN FEVERYEAR	C4-5	215.00	31 Aug 1997
CSRD	DICK RHOAT	C6-3	533.42	03 Sep 1989
DALT	GLENN FEVERYEAR	D3-7	820.8M	01 Sep 1996
DBG	JOHN YOST	D12-3	67.38	02 Sep 1990
DDELA	GLENN FEVERYEAR	D21-7	294.0M	24 May 1992
DHD	GEORGE BEEVER	D12-3	112.00	29 May 1994
DPD	ED MILLER	D12-5	120.07	02 Jul 1989
DSD	FLIRT'N W/DISASTER	D12-7	95.44	28 May 1995
EALT	GEORGE BEEVER	E18-7	269.9M	19 Jul 1992
EHD	JOHN YOST	E15-4	115.00	12 Aug 1990
EPD	ROBERT BALOGH	E6-4	104.75	03 Sep 1989
ESD	ED MILLER	E25-10	106.00	22 Jul 1990
FALT	GEORGE BEEVER	F25-6	355.7M	07 Aug 1994
FPD	GEORGE BEEVER	F25-6	83.40	12 Aug 1990
FSD	ED MILLER	F25-12	138.50	22 Jul 1990
GALT	ED MILLER	G25-15	1527.7M	01 Sep 1996
GPD	ROBERT BALOGH	G40-7	138.42	13 Aug 1989
GSD	ED MILLER	G25-10	181.60	22 Jul 1990

SPAAR MEMBERSHIP ROSTER—continued from page 4

148	Shannon O'Neal	116 Columbia Drive	East Fallowfield	PA	19320	02/28/2002
149	Melissa O'Neal	116 Columbia Drive	East Fallowfield	PA	19320	02/28/2002
132	Dave O'Neal	116 Columbia Drive	East Fallowfield	PA	19320	02/28/2002
238	Lori O'Neal	116 Columbia Drive	East Fallowfield	PA	19320	02/28/2002
240	Susan Reed	2535 Hartwell Ct	Lancaster	PA	17601	05/31/2002
169	Tony Rossi	25 Tumbling Run	Lititz	PA	17543	10/31/2001
89	Brian Royer	466 N. Maple St	Ephrata	PA	17522	12/31/2001
233	Nicholas H.	Simon 3045 Round Hill Rd	York	PA	17402	11/30/2001
235	Nicholas V.	Simon MD 3045 Round Hill Rd	York	PA	17402	11/30/2001
213	Mick Spencer	117 Kim Acres Dr.	Mechanicsburg	PA	17055	02/28/2002
239	Jonathan	Spencer 117 Kim Acres Dr.	Mechanicsburg	PA	17055	04/30/2002
8	Daniel Weinhold	121 East Ross St	Lancaster	PA	17602	12/31/2001
2	John Yost	4112 Millbrook Rd.	Mt. Joy	PA	17552	12/31/2001

STEEL CITY SMOKE TRAILS

October 2001

You missed a good weekend in Charleroi (I learned a new city name), PA. Just thought I would pass along some shorts as you know I can talk forever.

The field was interesting, a flat top hill surrounded by hills and valleys. A large recovery area. Just watch out for those western PA briars. They grow as thick as some small saplings and once entangled in them you are fair game for the fox roaming the field.

The crowd was large. Far more high power flyers than contest. Of those I recognized were SPAAR Members Ed Miller, Rick Hackman and Rita (my wife); SOJARS members, Steve Hutchinson and his son; NOVAAR members: Gregg Boch and Jim Brower; PSC members Rod Schafer, Steve Foster, John Pace and Richard Freed and NARHAMS members Jennifer Ash-Poole, Chris Kidwell, Don Brown, Paul Miller, Robert Edmonds, Tom and Chris Ha.

Competition was good. I didn't do so well though. Performance is directly proportional to the amount of preparation time. E Flexie is crazy. Rod Schafer managed a record time of over 3 minutes and returned it. The big winners were the Hutchinsons, with C Div Champ going to our friend from Ohio, Wolfram von Kiparski.

Ed Miller accidentally caused a bit of a stir with the power company by hanging a rocket across a 25,000 volt line. Half of Allegheny Power showed up along with the State Police. By Saturday night all was back to normal and we got to keep flying on Sunday

You missed a good time. The trip out took 5 ½ hours with a stop for dinner. You will have to try and get out next year. -Glenn Feveryear

FROM THE PREZ.....

From page 3

Eisenhower farm. And this father's day weekend will mark the 10th anniversary of RAMTEC!

Nationally NARCON and NARAM will both be held in Texas with The National Sport Launch held in Arizona. Last year saw more SPAAR members attend NARAM than ever before! I realize Texas is a long haul but if you get a chance to go to a national event you owe it to yourself to go! It's great fun!

What do you expect of you club? The NAR has many programs for individuals, clubs and schools. If you want to make a difference come to the club business meetings - that's where the plans are made!
Dale

PS check out the clubs new website at www.spaar.org - and if you haven't joined the SPAAR



LeRoy Bonawitz's Cheshire Cat starts to head skyward at SPAARSPAM

Let's face it, unless you are into things like skiing, snowmobiling or ice hockey, winter stinks. It is, however, a great time to work on all of those long-forgotten or neglected rocketry projects. So, in order to allow our members to keep up with each other, we ask-

What Are YOU Working On????

At present I am working on an Estes V-2, a 60% scale Sidewinder ARCAS two stage, some monocothers, and an all carbon fiber 4" diameter rocket with diamond airfoil fins that has no paper or wood parts.

Edward Miller
TRA 637 L3
NAR 45776

Only 60% scale?? Gee Ed, we were hoping for something more like FULL scale!!

I've just completed the re-working of the Estes Electron-Beam launch controller, ala the new NAR Member's Guide (the one that replaces the coupons and loose stuff we used to get after renewing membership). Bought \$30.00 worth of stuff at Radio Shack and "just did it". My new launcher features 94' of wire split onto two spools with 6' of wire to a cigarette lighter connector for battery power.

Also working on helicopter models to test fly soon, including a smooth-exterior model with rotors blades that come out of the BT at ejection. Also working on a Big Bertha and 4 Alpha III's for demo launches.

I will also be adding myself as a Merit Badge Counselor for the local Boy Scouts in Rocketry. It's my first step to create an outreach program with the local Council to help Scouts learn about rocketry.

You asked! :)
Tom

..since you asked - I just finished transferring the hardware of my computer to a new case, following a power supply failure two weeks ago. No computer thru the holidays.. I still have the shakes! Now I'm browsing thru 120 new email messages, most of them from SPAAR :)
Dole

I have had an Estes Tomcat about 80% complete for over a year and have "good intentions" of someday finishing it. I guess I've been hearing too many horror stories of other's Tomcats not flying very good. (I've never done a glider type before.) I also have an (unopened) Estes reissue of their (BT-80) V-2 waiting to be looked at. I recall "turning the world up-side-down" to find one of these kits a year or two ago. Now that I have it I wonder why construction hasn't yet begun!!! I'm thinking of altering it to accept the new Estes E-9's. I always seem to have repairs to make after most launches. Repairs have taken priority over new models.

Larry

For what it's worth, Larry, I have seen some of those Tomcats fly pretty well —mine was not among them. I spent a good deal of time on it, only to have it become a "Splatcat" when it nose-dived into the parking lot at Cocalico on it's first flight. I am certain yours will do just fine.

I have three projects in the works:

- 1) a loooooong 2 stage rocket ala Glenn's "grumpy dog" but with 2 D12-0s in the booster
- 2) a clone of the classic Centuri "Hustler Carrier Rocket"
- 3) A "tin tin" style sci-fi rocket

Now I know what you are thinking- these are the same projects I have been working on for the last 3 years or so, well I WILL build at least one this winter!
Dale

Who is this really?? Not OUR Prez!!!! :)

From front page

FLIGHT LOG—December 9, 2001

FLIGHT LOG

<u>#</u>	<u>Name</u>	<u>Make</u>	<u>Model</u>	<u>Make/Motor</u>	<u>Result</u>
1	Rick Hackman	Scratch	Eagle	Estes A8-3	Good Flight
2	Mike Brubaker	Quest	Nike Smoke	Estes B6-4	Good Flight
3	Tom Ha	Edmonds	Tinee	Estes 1/2A3-2	Good Flight
4	Dale Greene	Estes	Fat Boy	Estes B6-2	Good Flight
5	Rick Hackman	Scratch	Space Freighter	Estes A8-3	Good Flight
6	Dale Greene	Estes	Big Bertha	Quest C6-3	Good Flight
7	Rick Hackman	Scratch	Stiltfin	Estes A8-3	Good Flight

FLIGHT LOG—January 6, 2002

January 6, 2002

<u>#</u>	<u>Name</u>	<u>Make</u>	<u>Model</u>	<u>Make/Motors</u>	<u>Result</u>
1	Mike Brubaker	Launch Pad	Bull Pup	AT F24-4	Lawn Dart
2	Mike Brubaker	Scratch	Fat Boy	AT F24-4	Good Flight
3	Mike Brubaker	Scratch	Wasserfall	AT E18-4	Roof
4	Larry Gerlach	Estes	Silver Comet	Estes D12-5	Good Flight
5	Larry Gerlach	Estes	Silver Comet	Estes E9-6	Good Flight
6	Larry Gerlach	Estes	Big Bertha	Estes C6-3	Good Flight
7	Tom Ha	Edmonds	Deltie Thunder	Estes E9-4	Good Flight
8	Tom Ha	Edmonds	Tinee	Estes 1/2A3-2	Good Flight
9	Tom Ha	Scratch	Deltie 2X	Estes C6-3	Good Flight
10	Tom Ha	Scratch	Deltie 2X	Quest B6-4	Good Flight
11	Nicolas Simon	Estes	V-2	Estes E9-4	Good Flight
12	Nicolas Simon	Aerotech	Strong ARM	AT G40-7	Good Flight
13	Nicolas Simon	Aerotech	Initiator	AT G40-7	Good Flight
14	Nicolas Simon	Aerotech	Astrobee-D	AT G80-4	Prang
15	Mick Spencer	Aerotech	Mirage	AT G80-7	Good Flight
16	Jon Spencer	Scratch	Code Orange	AT E15-7	Good Flight

CHAD RG-1/2A

BY BOB PRINZIVALLI

WARP-9 JULY-AUGUST 1939

MATERIALS

1/4" x 1/8" x 10" Balsa

3/8" x 1/8" x 1/2" Balsa

(1) "GULLOW'S" GLIDER
OR 1/32 Balsa
SHEET

(3) PINS

(1) RUBBER BAND

.015 MUSIC WIRE
FOR HOOKS

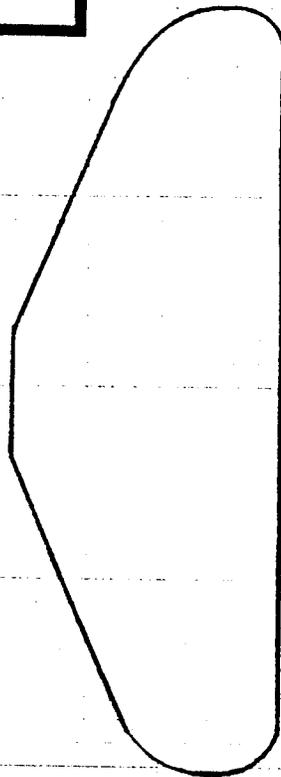
(1) LAUNCH LUG

LIGHT THREAD

BT-5

BNC-SV NOSE
CONE

1/2"



DRILL 1/8" HOLE AND CUT SLOT FOR RUBBER BAND

1/4" HO. ON BOTH SIDES OF BT-5

USE PINS TO GUIDE AND HOLD THREAD

LUG

PYLON

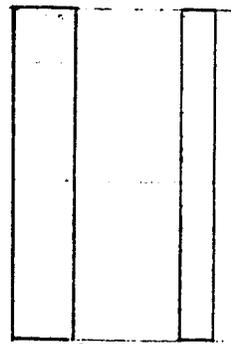
RUBBER BAND

FUSELAGE

THREAD

WIRE HOOK

SLIDING BOX CROSS SECTION



MAKE 2

WIRE HOOK

1" DIHEDRAL

PIN

1/16" UP

ALL SIZES ARE FULL SCALE EXCEPT WING LENGTH.

THE SOUTHERN PENNSYLVANIA AREA
ASSOCIATION OF ROCKETRY

PO Box 127
Reamstown, PA 17567
www.spaar.org

COUNTDOWN

PLEASE MAKE SURE YOUR MEMBERSHIP IS
UP TO DATE—THANKS!

Mark Your Calendars

**Saturday, February 16: Meeting/Workshop, Apria Community
Room, 9:00AM—1:00PM.**

**Sunday, February 24: Family outing to North Museum,
Franklin & Marshall College, Noon.**

**Sunday, March 3: SPAAR Sport Launch, Cocalico High
School, 1:00PM—5:00PM**

**Saturday, March 9: Meeting/Workshop, Apria Community
Room, 9:00AM—1:00PM**

