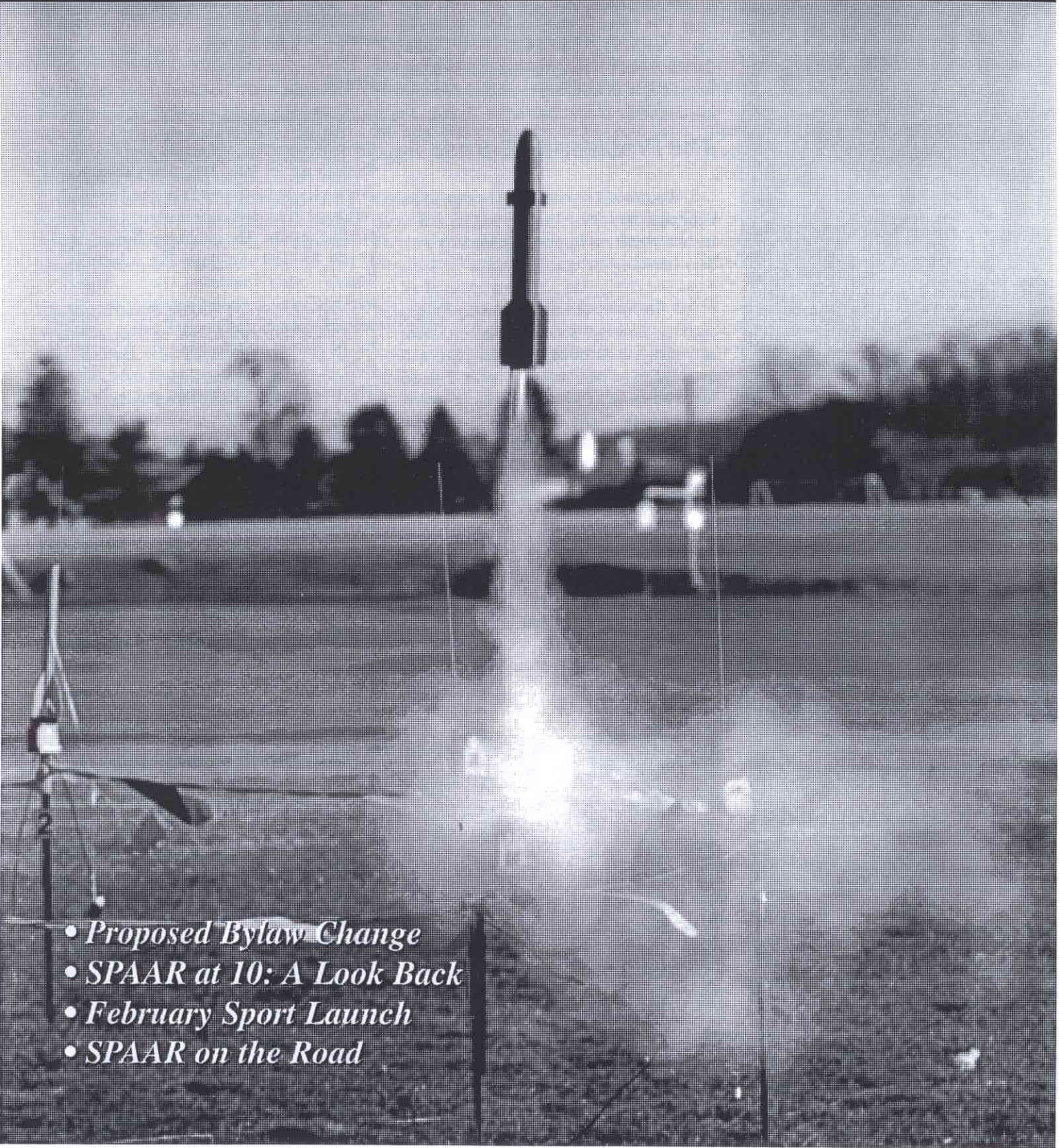


COUNTDOWN

Official Newsletter of SPAAR

THE SOUTHERN PENNSYLVANIA AREA ASSOCIATION OF ROCKETRY



- *Proposed Bylaw Change*
- *SPAAR at 10: A Look Back*
- *February Sport Launch*
- *SPAAR on the Road*

COUNTDOWN

Volume 11, Issue 2
March/April 1998

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COUNTDOWN is the newsletter of SPAAR, the Southern Pennsylvania Area Association of Rocketry, NAR Section #503, as well as Tripoli Susquehanna #71. **COUNTDOWN** is published 6 times a year for the benefit of SPAAR club members. Any information contained in **COUNTDOWN** may be used as long as proper credit is given. Please address all correspondence to:

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**The Editor's Corner**

This month, thanks go out to George Beever, Guy DeStefano, Dave Grumbine, Rick Hackman, and Mark Kamide for contributing to this issue of the Countdown. *Thanks guys!*

In this issue, you'll notice some new steps I've taken to try to reduce the size of the Countdown. The content will remain the same, but I'll be trying to squeeze it into fewer pages in an effort to reduce costs.

Hey, check out the February 8th flight log. Notice how many ?'s there are in the *Result* column? LCOs, please remember to fill in the flight result and help keep an eye out for incomplete cards. Thanks.

I'm still looking for club members to drop me an email at rcbrustee@aol.com. I've heard from many of you, but I know there must be more members with internet access. Let me know!

Randy**The President's Corner**

Wow, what a great meeting we had on February 28th. We discussed quite a few items and made some good decisions. Members attending the meetings make the decisions and change the rules that affect of all of us. Members decide upon many things, such as, how we set the range up, what activities we do throughout the year, and even when to purchase a Crappie Pole (a long rod to fish rockets from those rocket eating trees). While these are only a couple of items, we act on all the recommendations made at the meetings with the entire club's best interest at heart. The decisions are based on what is best for the club. I encourage all of our members to attend the meetings so your thoughts on club activities or changes in how we do things may be heard.

We have several items that need to be highlighted and promoted. First, we are asking club members to donate rocket-related items of value to raise money to purchase a high power launch pad. Please bring your items to the club meetings or to

the club launches and make sure you get them to me by May 31st. Tony Rossi has graciously volunteered(?) to run a special web page to advertise the items and post the bidding results. The bidding will start June 1st and will last until June 22nd at 9:00PM. Tony's web address is <http://tony.rollercoaster.com/spaarauction>. The second item is the Helicopter Contest. Liftoff for this event is scheduled for June 28th. Best of all, we will be using SPAAR rules. The rules will be published in the Countdown. Last, but very important, it's time to update the club logo.

We have come up with a contest called *Kill the Keystone* with a valuable prize going to the owner of the selected logo. We are asking for club members to submit their logo ideas by May 31st. Give your signed logo to any club officer. The club meeting on Friday June 6th will be the decision day for the logo contest. So get busy and turn your ideas in for a chance to win the valuable prize.

Mark**In this Issue**

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On the Cover

Trey Smith's Launch Pad Hellfire launches on an Estes D12-5 at the February 8th sport launch. (*Brust*)

Section News Notes

New Club Dues Proposed: A new proposal to raise the club dues will be voted upon at the regularly scheduled club meeting on Friday, April 17th, 1998. To do this requires a change to the club's bylaws. This change is detailed on page 5 of this issue of the Countdown. If you want a say in the matter, show up at the April meeting to vote!

New Setup for Launches: As reported in the February 21st Meeting Minutes, starting with the April launch, only D size or smaller motors will be allowed on the low power (inner) pads. E size and larger motors will be flown from the high power (outer) pads. For this reason, 3/16" rods will also be made available at the high power pads. See the Meeting Minutes for details.

Change of Location: Don't forget, the April 5th launch has been moved back to Cocalico High School. The hours will be 1PM to 5PM. The rain date remains unchanged on April 12th at Kirkwood Farms.

F Motor Limitation Means What: At SPAAR's Cocalico launches, we have limited ourselves to a total of 80 Newton-seconds of impulse per rocket. To help alleviate any confusion over this maximum allowable motor size, we have constructed the following chart which shows various

motor combinations which are less than or equal to 80 Newton-seconds:

One "F" Motor = 80Ns.	(Aerotech)
Two "E" Motors = 80Ns.	(Aerotech)
Four "D" Motors = 68Ns.	(Estes)
Eight "C" Motors = 72Ns.	(Estes)
Sixteen "B" Motors = 80Ns.	(Estes)

March 8th Club Launch a Washout: For those of you who were wondering, yes the March 8th launch was cancelled due to rainy, windy, and generally miserable weather. So, how many members had to take their significant other shopping instead?

Lost & Found Department: The top portion of an Estes Corkscrew was retrieved from the school roof at Cocalico. Its owner can contact George Beever at the next launch.

RAMTEC-6: RAMTEC is coming up fast! SPAAR's annual NAR sanctioned regional meet will be held June 20th-21st in Center Valley, PA. Range hours will be 9AM-6PM on Saturday and 9AM-2PM on Sunday. Come to fly, compete, and help out. See <http://www.cyberia.com/pages/feveryear/ramtec6.htm> for details.

NARAM-40: Don't forget! SPAAR is the host club for NARAM-40, August 8th-14th at the AMA flying field in Muncie, Indiana. This is the NAR's annual meet and contest

championship. Sport flying is welcome all week. SPAAR is listed as the host club, but Glenn Feveryear and family are doing the bulk of the work (read that almost *all* of the work!). If at all possible, show your support for your club and help out when and where you can. Glenn will find something for you to do. Contact him at 717-456-5570, or at <http://www.cyberia.com/pages/feveryear/naram40.htm>.

Upcoming Events:

Sunday, April 5th, 1998 - SPAAR Sport Launch (Best Upscale Rocket), 1PM to 5PM, Cocalico High School, Denver, PA.

Friday, April 17th, 1998 - SPAAR Monthly Meeting, 7PM to 9PM, APRIA Community Room, Lancaster, PA.

Saturday, April 18th - Sunday, April 19th, 1998 - RATS VII High Power Meet, 9AM to 5PM at Cedarville, NJ. Contact Damian Russo at 609-794-2689.

Sunday, May 10th, 1998 - SPAAR Sport/High Power Launch (Best Mercury Redstone Rocket), 9AM to 5PM, Kirkwood Farms, Chester County, PA.

Friday, May 22nd, 1998 - SPAAR Monthly Meeting, 7PM to 9PM, APRIA Community Room, Lancaster, PA.

Section Meeting Minutes

by George Beever

February 21st, 1998

Meeting called to order at 9:10AM.

Present: G. Beever, D. Grumbine, D. Feveryear, G. Feveryear, R. Feveryear, D. Greene, M. Kamide, T. Rossi, J. Yost.

Committee Reports:

Treasurer: George Beever reported that the balance at the end of the last meeting was \$169.55. Income was \$68.00, all in dues. Current balance, \$237.55.

Section Advisor: Glenn reported that the section insurance situation has been straightened out with the NAR. He also made passes to the East Coast Hobby Show avail-

able, passed out info on NYPOWER, a sport launch in Geneseo, NY, and passed out info on another sport launch to be held in Geneseo, NY, July 3rd-5th.

HPR: No report.

Competition: Glenn advised that the NICE-22 Open Meet would be held over the weekend of May 9th in Mannassas, VA. He also had NARAM-40 applications available, and displayed examples of the NARAM-40 patch and T-shirt. Contact Glenn for availability. NARHAMS will host an Open Meet on March 15th. Events; 1/2A FW, 1/2A BG, PML.

Newsletter: No report.

Old Business: No report.

New Business: Kill the Keystone: Presi-

dent Kamide stated that since the club, and therefore its logo are ten years old, it's time to come up with a new logo. The current club logo is in the shape of a keystone, which identifies with Pennsylvania. Glenn offered that the logo is *too busy*, with too many words, etc. All suggestions should be roughly the same size (4") so that the logo can be made into a standard size patch. Club T-shirts can also be made available. Submissions should be made to the Prez himself by the April meeting. The winning entrant will receive a prize, which will *not* be the Prez's dog, Sweitzer.

Purchase of a "Rocket Retrieval Device": Discussion was held on purchasing a crappie pole, AKA a rocket retrieval device. This is used to get rockets out of the dreaded Rocketus Eatemupus, a type of tree known to grow anywhere near rocket flying fields. The club has been using Glenn's for the last few years (thanks Glenn!) but should have

its own. Motion made by Beever, seconded by Rossi, to authorize Mark Kamide to spend up to \$30 to purchase and modify a pole. Motion passed.

B Helicopter Duration contest: The club's B Helicopter Duration contest will be held during the sport launch at Cocalico on June 28th. Kits will be ordered through Qualified Competition Rockets and are \$10 each. Anyone interested should contact George Beever at 717-733-4170. A set of rules will be made available.

NASM questionnaire winner: was John Yost. John looked over enough shoulders to come up with the most correct answers on the quiz that was part of the recent trip to the Air & Space Museum. He received an Estes Cobra rocket kit, which is actually a modele reduite. Congrats John, the rest of us are sore losers (joke).

Condition of launch system: The current launch system was inspected for any needed repairs. The strain relief points at the junction boxes appear to need some work. Discussion was held on whether or not the system should be replaced in the future or simply upgraded. However, the specifics of any possible upgrades were not discussed.

Range layout: At the end of the last launch, a number of members expressed some concerns about flying rockets powered by E or F motors from pads one through eight, referred to as *the inner pads*. The concerns were mainly about the proximity to the range head and other modelers setting models up on other pads. A suggestion was to set two additional pads up with the high power system, equipped with 3/16" rods, and require all models, regardless of size, powered by E or F engines to be flown off of these. At least two 3/16" rods will be available at the inner pads for use up to D motors. After discussion, it was decided that this would be the set up in the future.

Club SOPs: In the early 90s, a manual for club members was issued. It contained such things as the club bylaws, membership roster, and standard operating procedures (how we launch rockets!). This is in need of review and updating. George Beever volunteered to conduct the review and make a submission with suggestions to the Board.

Club finances: The president expressed some concerns about the long-term financial health of the club. He presented a document that outlined what it costs to run the club for a year. Comparing the known

expenses with the projected income, there is about \$66 surplus. This does not allow for purchasing new equipment, repairs to existing equipment, or any other activities that the club members may want to participate in. He proposed a new dues structure: \$20 per year for adults, \$15 without newsletter, since it is available over the internet. Persons 15, 16, or 17 years old would pay \$15; 14 and younger, \$10. The Family Plan would be \$20 for the adult, all additional family members, regardless of age, would pay \$2.50. Any such change would require an amendment to Article 5, Dues, of the club bylaws, and would require formal notification to the membership of the pending vote. Motion made by T. Rossi, second by D. Feveryear, to proceed with the notification to the membership. Motion carried.

Internet auction: In order to raise funds, the club will hold an on-line auction of rocket goodies. Mark Kamide has donated two recently discovered Mountainside Hobbies 4.0" V-2 kits, and George Beever has donated an Estes Pro-Series Patriot kit. Donation of items will be accepted until the end of May. Tony Rossi has volunteered to administer the website, available at <http://tony.rollercoaster.com/spaarauction>. Active bidding for items will begin on Monday, June 1st and end at 9:00PM on Monday June 22nd, 1998

After the agenda was completed, Dave Grumbine showed the tapes from two live-feed video flights at recent SPAAR sport launches.

March 21st, 1998

Meeting called to order at 9:10AM.

Present: G. Beever, D. Feveryear, G. Feveryear, D. Greene, M. Kamide, T. Rossi, J. Yost.

Committee Reports:

Treasurer: George Beever reported that the report for the last meeting was not accurate. He had neglected to account for a newsletter expense bill, covered in a check issued to R. Brust on 1/18. Therefore, the balance as of the date of the last meeting would have been \$65.53. Income since then was \$68.00 in dues, leaving a current balance of \$133.53.

Section Advisor: Glenn Feveryear reported

that the NAR Section Charter renewal has been completed, and he has received the insurance certificate. He will contact Cocalico School District with this information.

HPR: No report.

Competition: G. Feveryear reported that the plans for RAMTEC-6 are proceeding, as well as those for NARAM-40.

Newsletter: No report.

Old Business: New Flight Cards: M. Kamide advised that Randy Brust offered to devise a new flight card that may be more *user friendly*, and help him when he compiles the Flight Logs. G. Beever commented that in years past there was a problem with incomplete cards. The LCOs have to keep an eye on that, in particular the entry for the motor.

Crappie Pole: As authorized at the last meeting, M. Kamide ordered an RRD (Rocket Retrieval Device) for the club. The cast was about \$23.00.

B Helicopter Contest: Will be flown at the June 28th Sport Launch. George Beever and John Yost will work out the details (oh brother).

Online Auction: Further discussion was held on the Online Auction. Tony Rossi passed around some samples from the website.

New Business: Club expenses: various ways to cut back on expenses were discussed. It was decided that newsletter exchanges with other clubs would temporarily be suspended as a cost saving measure.

Launch system: John Yost detailed some of the repairs that he has made to the launch system, particularly to the strain reliefs.

Fund Raising: M. Kamide suggested selling hot dogs and sodas at all-day launches as a way to raise funds. G. Beever *volunteered* to handle the SPAAR Weenie Wagon at the next Kirkwood Launch, while Mark will be the soda magnate (Burp).

The next club activity will be the Sport Launch at Kirkwood Farms on Sunday, April 5th, from 9AM to 5PM.

There being no further business, the meeting adjourned at 10:45AM. A building session followed. **CD**

SPAAR at 10: A Look Back or...

**George & John's Excellent Adventure
by George Beever**

Some of our members, especially those who have joined SPAAR within the past two or three years, might be interested in just how this whole thing got started. In fact, I kind of wonder about that myself. Not so much the how, but the why! Well anyway, for those of you so inclined, let's blow the dust off of the old archives, delve into the ancient records and documents, and take a stroll down memory lane...

Long ago and far away, in a distant... sorry, wrong story. Anyway, during the winter of 1988, I had reached that point where flying rockets by myself was well, a bit of a drag. I'd get my issue of American Spacemodeling (forerunner of Sport Rocketry) and digest it like nobody's business. I'd read about this club or that one, about their activities, meetings, and launches. Sounded great to me, but there were no active clubs in eastern Pennsylvania. Up until around 1980, there had been a club

active in the Berks County area, the SPEAR Missile Minders. I tried to join back then, but they had apparently gone defunct. Or they had heard about me, I'm not sure. In any event, there was a club in the western part of the state, the Pittsburgh Space Command. Art Nestor had started that club around 1987, so I wrote to him, asking if I could become some sort of "associate" member, because of the distance involved. Art wrote back promptly, but suggested that I start a club right here in this area. Over the next few weeks, in an exchange of many letters, Art provided me with many ideas and lots of support for the idea. *Note: I finally got to meet Art in person at NARAM-35 in 1993. A great guy!*

In March 1988, the NAR provided me with a listing of Association members in the southeastern Pennsylvania area. What they didn't give me though, were the ages of these people. So I took the chicken's way out. I sent out a questionnaire to about 20 of the geographically close people on the list to gauge support for organizing a club. While waiting for the replies, I decided to throw caution to the wind, and actually make some phone calls. To be honest, I was afraid

that I'd make a call, and the parents of an 8 year old would be wondering why some old guy was asking for their kid. I was already plotting my strategy if such a thing came about (hang up!) when I looked up the phone number for some guy named John Yost, who had a Mt. Joy address, about 10 miles from where I lived. As it turned out, we had a great conversation about rockets and all sorts of things. We found that we had many things in common besides rocketry, like age, interests, and being certifiably weird. And thus began the legend of how John and I became joined at the hip (cue the music here).

In any event, about seven people responded to the mailing, all of them positive. But then, for some reason, I let the matter slide for awhile (common sense perhaps?). Around late April John called me to see what was going on, or not going on as the case may be. We set up a meeting with those who had shown interest in forming a club, for late May at my place. As for what happened next, well kiddies, you'll just have to stay on the edge of your seats until the next issue, when we continue this spine tingling narrative! **CD**

Proposed Bylaw Change

**by George Beever
SPAAR Secretary/Treasurer**

Article 10, Amendments, of the Bylaws of the Southern Pennsylvania Area Association of Rocketry states: "*These bylaws may be amended by a two-thirds vote of those Section members present and voting at any meeting of the Section, providing written notice of the pending amendment has been sent to the membership of the Section at least five days in advance of such a meeting. No amendment of these bylaws shall be in force until submitted to NAR headquarters.*" Therefore,

A MOTION HAS BEEN MADE TO AMEND ARTICLE 5, DUES, OF THE SECTION BYLAWS TO READ:

"DUES SHALL BE ACCORDING TO THE FOLLOWING SCHEDULE:

DIVISION A: 14 YEARS AND YOUNGER, \$10.00 PER YEAR;

DIVISION B: 15,16, AND 17 YEARS OF AGE, \$15.00 PER YEAR;

DIVISION C: 18 YEARS AND OLDER, \$20.00 PER YEAR.

FAMILY MEMBERSHIP: OLDEST MEMBER PAYS FULL RATE FOR HIS OR HER AGE DIVISION; ANY ADDITIONAL FAMILY MEMBERS SHALL PAY \$2.50 PER YEAR.

IN ADDITION, C DIVISION MEMBERS WHO ELECT NOT TO RECEIVE A PAPER COPY OF THE SECTION NEWSLETTER AND ELECT TO DOWNLOAD SAID NEWSLETTER ELECTRONICALLY, SHALL RECEIVE A DISCOUNT MEMBERSHIP RATE OF \$15.00 PER YEAR, PROVIDED THAT THE NEWSLETTER IS AVAILABLE IN THIS MANNER."

The remainder of Article 5 shall remain as written. **This notice shall satisfy the notification requirement as outlined in Article 10. This amendment shall be voted upon at the regularly scheduled club meeting on Friday, April 17th, 1998.**

SPAAR Sport Launch

February 8th, 1998

by Guy DeStefano

Mother Nature was kind to us today. The club had a nice turnout and lots of birds were flown. We would like to congratulate those rockets that didn't land in trees. I will expand on this later.

There were some great flights. One that caught my eye was Kathy Gilliland's *Shadow* named *Tweety Bird* which flew on an F39. At apogee tweety lunged out of the rocket and slowly came back to earth right next to the rocket. Nice *long* shockchord, also. Rocketeers will realize that the longer the chord the better. Mr. Flamethrower, Ed Miller flew one of those new F62 motors for a great flight along with his mini UFO on a D13 reload.

Randy Brust tested the winds with his *Fat Boy* on an F24. Mr. Rossi flew his *Broadsword* on a D12 but then punched the skies with an E motor for a nice flight. Matt Zimmerman loves the CD rocket. Not a bad fin design, either. Lots of Aerotech *Barra-cudas* flown, multistagers and clusters.

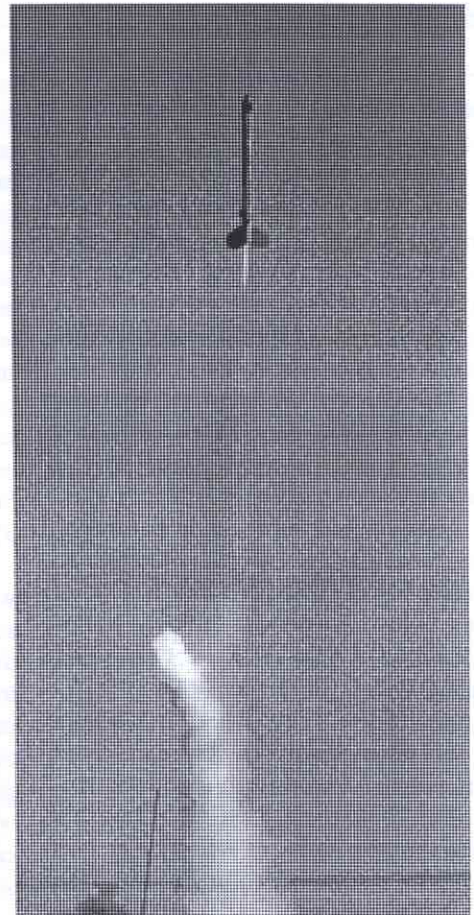
George Beever flew a beautiful SR-71 *Blackbird*. Guy DeStefano flew his *LOC Legacy* on an F40 and *Spirogyra* on a long burning F25, both good flights. Frank Sombers launched his V-2 on an E30. This rocket leaps off the pad with this motor. I also had the chance to look at his scratch built *Bullpup*. Looks real nice so far. Can't wait to see it fly. Mark Kamide flew a really small *Patriot*. Cool!!! I'm not sure it would shoot down a *Scud Missile* but.... Gary



Adam Gerhart's Estes Bandit is off on an A8-3. (Brust)

Kulp flew a *Fat Boy* for a neat flight. He told me he wants to certify Level One this year. Yes, that would be a good idea. Build that rocket nice and sturdy, Gary!!

Now for the venting session. It all started with Guy DeStefano's *Peacock* launch on an F52. Awesome flight but in



Hmmm... did Ivan Barnsley's cluster rocket lose something? (Hackman)

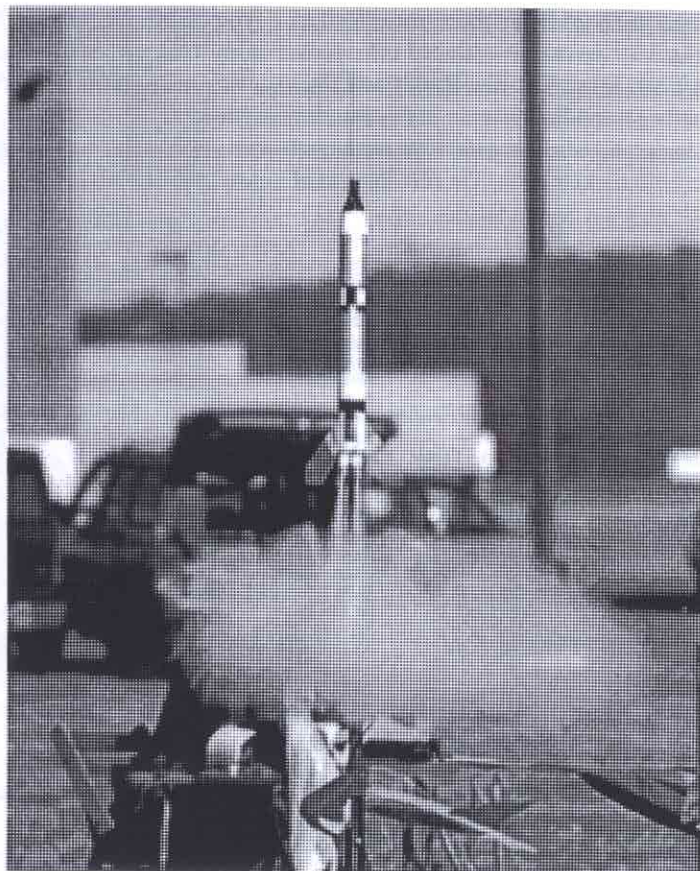
the *little* breeze that there was it landed in a tree. He was up in that tree for over an hour and with the help of Joey Brust and his friend, no luck was encountered. Then in the distance I heard Randy Brust's *Initiator* launch on an F62 and while I was up in that tree, here comes Randy's rocket drifting



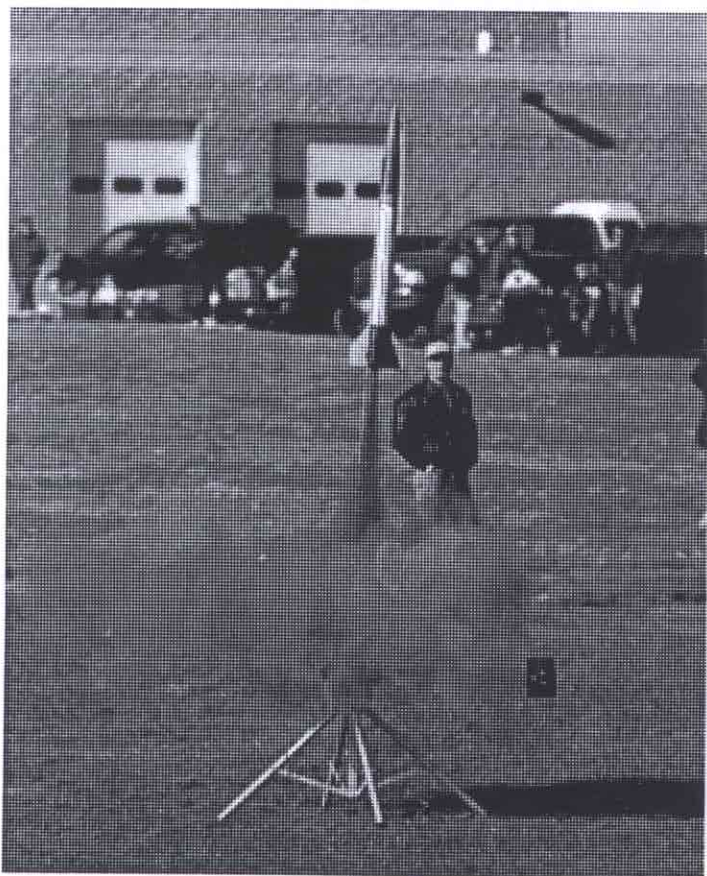
Hey, not bad for February 8th, huh? The nice weather brought out 30 fliers who made 83 flights. (Brust)



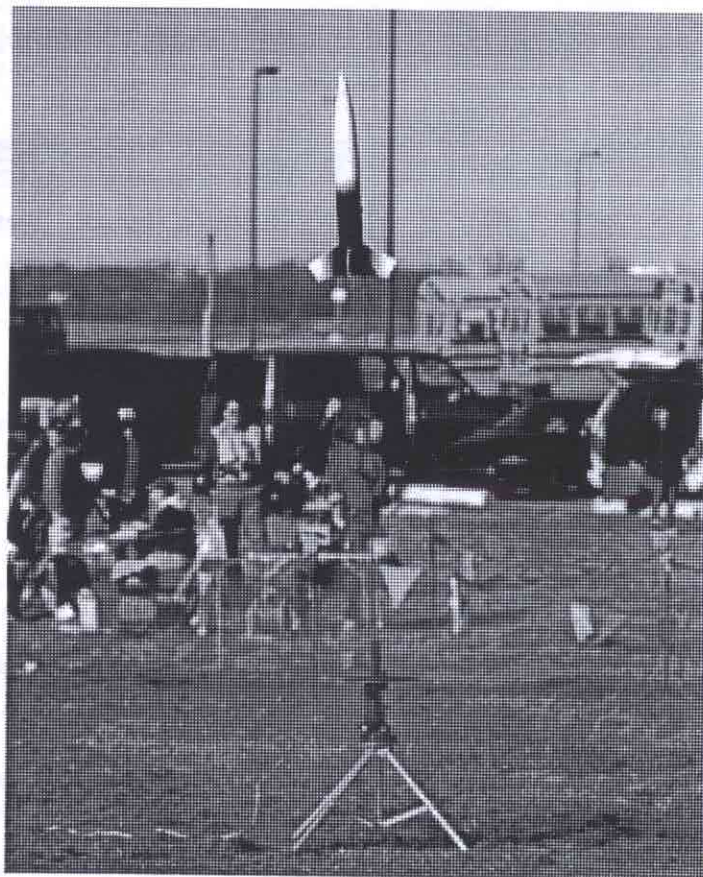
Brinton Schlegel's Estes Helicat on an C6-5. (Brust)



George Beaver's Gemini-Titan with two C6-3s. (Brust)



James Darnell's Aerotech Warthog on an F22-5J. (Brust)



Dale Greene's NCR Big Brute with an F50-4T. (Brust)

over me and into the highest tree. Well to say the least we had two ticked off dudes. John Yost, Mark Kamide, Randy and Guy teamed up to get Randy's out of the tree. By duct taping big sticks together, we managed to get both rockets back. I'm sure the rest of

you heard the screaming in the distance. Guy thought he was George of the Jungle with his audible celebration chant. Hey, those guys helped us out and it was very much appreciated. Thanks Mark and John, we appreciated it.

Stephen Knight won the trophy for *Best NASA Launch Vehicle* with his Estes Mercury Atlas. This model is finished beautifully, but Steve's knees were shaking too much for him to fly it. Nice job Steve! See you at the next launch. **CD**

#	Flyer	Model	Motors	Result	#	Flyer	Model	Motors	Result
1	Ivan Bamsley	Scratch Columbiad	Estes B6-0/C6-7	Good Flight	43	Mark Kamide	Estes Mini Patriot	Estes A10-3T	?
2	Ivan Bamsley	Estes Ranger	Estes D12-0/D12-7	Good Flight	44	Mark Kamide	QCR Rotaroc	Estes C6-3	Good Flight
3	Ivan Bamsley	Scratch Unnamed	Estes B6-0(2)/D12-5	Good Flight	45	Stephen Knight	Boyce Gemini-Titan II	Estes C6-3	No Chute
4	George Beever	Estes Deep Space Trans.	Estes C6-3	Good Flight	46	Stephen Knight	Scratch Spear	Estes D12-7	No Chute
5	George Beever	Scratch Gemini-Titan	Estes C6-3(2)	Good Flight	47	Stephen Knight	Estes USS Enterprise	Estes B6-2	CATO
6	George Beever	CMR Manta	Estes A8-3	Good Flight	48	Stephen Knight	Estes USS Enterprise	Estes C6-3	Good Flight
7	George Beever	Hobbylab SR-71	AT E15-0W	Good Flight	49	Gary Kulp	Estes Athena	Estes A8-3	Good Flight
8	George Beever	Estes SR-71	Estes C6-3	Good Flight	50	Gary Kulp	AT Baracuda	AT E15-4W	CATO
9	George Beever	Estes Transtar Carrier II	Estes C6-0/B6-6	1/2 Good Flight	51	Gary Kulp	Estes Fat Boy	Estes C6-5	Good Flight
10	Mark Beever	Estes R2-D2	Estes C6-3	Prang	52	Gary Kulp	Estes Fat Boy	Estes C6-3	Good Flight
11	Mark Beever	Estes X-Wing Fighter	Estes C6-3	Good Flight	53	Ed Miller	Scratch Armacron III	Estes C6-7(3)	Good Flight
12	Steve Biers	Estes Big Bertha	Estes B4-4	Good Flight	54	Ed Miller	NCR Eliminator	NCR F62-6	Good Flight
13	Steve Biers	Scratch Little Blue	?	?	55	Ed Miller	Scratch UFO 18-8	AT RMS D13-4W	Good Flight
14	Steve Biers	Estes Reliant	Estes A10-3T	?	56	Ed Miller	Estes Warp II	Estes C6-0/B8-5	Good Flight
15	Jimmie Blackaly	Estes Blackbird	Estes C5-3	?	57	Michael Ritchie	Estes Omloid	Estes C5-3	Good Flight
16	Jimmie Blackaly	Estes Bullpup	Estes D12-5	?	58	Michael Ritchie	Estes Omloid	Estes C5-3	Good Flight
17	Jimmie Blackaly	Estes Longshot	Estes D12-0/C5-3	Good Flight	59	Tony Rossi	Estes Broadsword	AT RMS E18-4W	Good Flight
18	Jimmie Blackaly	Estes Longshot	Estes D12-0/C5-3	?	60	Tony Rossi	Estes Broadsword	Estes D12-5	Good Flight
19	Randy Brust	Estes Fatboy	AT F24-7W	Good Flight	61	Tony Rossi	Estes Death Star	Estes C5-3	Good Flight
20	Randy Brust	AT Initiator	NCR F62-6	Good Flight	62	Tony Rossi	Estes Fat Boy	Estes B6-4	Good Flight
21	James Darnell	Estes Big Bertha	AT RMS E18-7W	Good Flight	63	Brinton Schlegel	Estes Alpha III	Estes B4-4	Good Flight
22	James Darnell	Estes Bullpup 12B	AT E30-7T	Separation	64	Brinton Schlegel	Estes Cobra	Estes A10-0T/A10-3T	Good Flight
23	James Darnell	AT Warthog	AT RMS F22-5J	Good Flight	65	Brinton Schlegel	Estes Helicat	Estes C6-5	Good Flight
24	Mark Darnell	AT Barracuda	AT RMS F40-7W	Good Flight	66	Brinton Schlegel	Estes Maniac	Estes D12-5	Good Flight
25	Mark Darnell	AT Initiator	AT RMS F52-5T	Good Flight	67	Brinton Schlegel	Estes Mean Machine	Estes D12-5	Good Flight
26	Guy DeStefano	LOC/Precision Legacy	AT RMS F40-7W	Good Flight	68	Trey Smith	Launch Pad Hellfire	Estes D12-5	Good Flight
27	Guy DeStefano	Rocket R&D Peacock	AT RMS F52-5T	Good Flight	69	Zach Smith	Launch Pad Folgore	Estes D12-5	?
28	Guy DeStefano	Scratch Spirogyra	AT F25-4W	Good Flight	70	Zach Smith	Estes Silver Comet	AT E15-4W	Separation
29	Tim Dinger	NCR Goober II	NCR F62-6	Good Flight	71	Frank Sombers	Estes Bullpup 12D	Estes C6-3	Good Flight
30	Adam Gerhart	Estes Alpha	Estes B6-4	Separation	72	Frank Sombers	Scratch The Charger	AT E15-7W	Good Flight
31	Adam Gerhart	Estes Bandit	Estes A8-3	?	73	Frank Sombers	Mountainside V-2	AT E30-7T	Good Flight
32	Adam Gerhart	Scratch Nova	Estes B4-4	Good Flight	74	Ethan Stell	Estes Big Bertha	Estes C6-5	Good Flight
33	Kathy Gilliland	NCR Eliminator	AT RMS	F24-4W	75	Joshua Stell	Estes Mean Machine	Estes D12-5	Good Flight
34	Kathy Gilliland	Estes Python	AT E30-4T	Good Flight	76	Bob Utley	Estes Black Brant	Estes D12-7	Good Flight
35	Kathy Gilliland	Estes Shadow	AT RMS F39-6T	Good Flight	77	Bob Utley	Estes Fat Boy	AT E15-7W	CATO
36	Dale Greene	Estes Big Bertha	Quest C6-5	CATO	78	Bob Utley	Rocket R&D Robin	AT E15-7W	CATO
37	Dale Greene	Estes Big Bertha	Estes C6-7	Good Flight	79	John Yost	Estes Sizzler	Estes B6-6	Good Flight
38	Dale Greene	NCR Big Brute	AT F50-4T	Good Flight	80	Matt Zimmerman	Scratch CDR	Estes C6-5	Good Flight
39	Dale Greene	Quest DC-4	AT D21-4T	CATO	81	Matt Zimmerman	Estes Silver Comet	Estes D12-5	Good Flight
40	Rick Hackman	Scratch Asroc	Estes A8-3	Good Flight	82	Matt Zimmerman	Scratch Vortex Z	AT F50-4T	?
41	Rick Hackman	Scratch Asroc	Estes C6-5	Good Flight	83	Matt Zimmerman	Scr. Zirconian Destroyer	Estes D12-5	Prang
42	Bryce Hutchison	Estes Big Bertha	Estes C6-5	Good Flight					

Launch Statistics - February 8th, 1998

Number of Flyers: 30 Weather: Mild, Slight Breeze

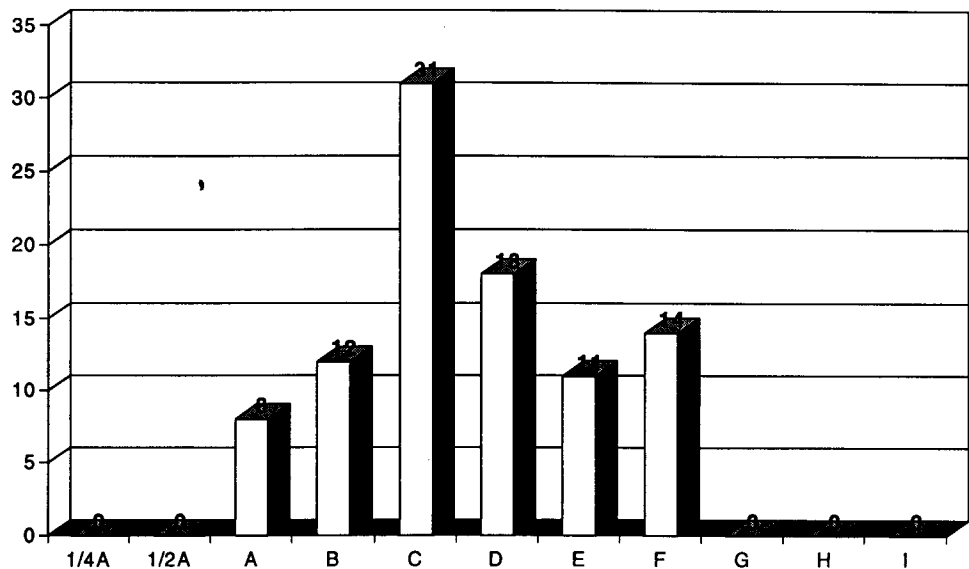
Models Flown:

Estes	42
Scratchbuilt	14
Aerotech	5
North Coast Rocketry	4
Launch Pad	2
Rocket R&D	2
Boyce	1
CMR	1
Hobbylab	1
LOC/Precision	1
Mountainside Hobbies	1
QCR	1
Quest	1

Motor Usage:

Estes	66
Aerotech	14
Aerotech RMS	10
NCR	3
Quest	1

Impulse Distribution:



SPAAR on the Road

Maryland Tripoli February 21st-22nd
by G. DeStefano and R. Brust

On February 21st and 22nd, Maryland Tripoli held their monthly launch at the Higgs Dairy Farm. On Saturday, Bob Utley and Kathy Gilliland showed up with one thing on their minds, certification!

Kathy was up first with her NCR Eliminator, named Rosebud, loaded with a US Rockets H120. It had a great flight, but the combination of breezy conditions and a 42 inch chute carried the Eliminator about 3 miles before they lost sight of it. Over 2 hours of searching turned up nothing, but the flight was good for her certification.

Bob faired better putting up his Mountainside Hobbies 4 inch V-2, also on a US Rockets H120. He used a smaller chute to make sure he got his V-2 back, resulting in a ding in the paint job upon landing. At least he got his certification. Congratulations Bob and Kathy!

Sunday morning, Guy DeStefano rushed down there thinking he was going to be late. He wasn't late. He was the first one there. It got lonely real fast. As folks started to roll in, he was praying to the wind



Dave Grumbine's upscale Mosquito waiting for the G40 to light. (Grumbine)

goddess to keep her cool for the day. She did. And what a day it was. Sunny, breezy and nice temps allowed many spectacular flights ranging from B to K motors and many more in between.

Fellow SPAAR members Randy Brust and Dave Grumbine trickled into the site around 9:45AM. Randy eagerly prepped his LOC Minie-Magg for its maiden flight and Dave prepped his Texas sized Skeeter.

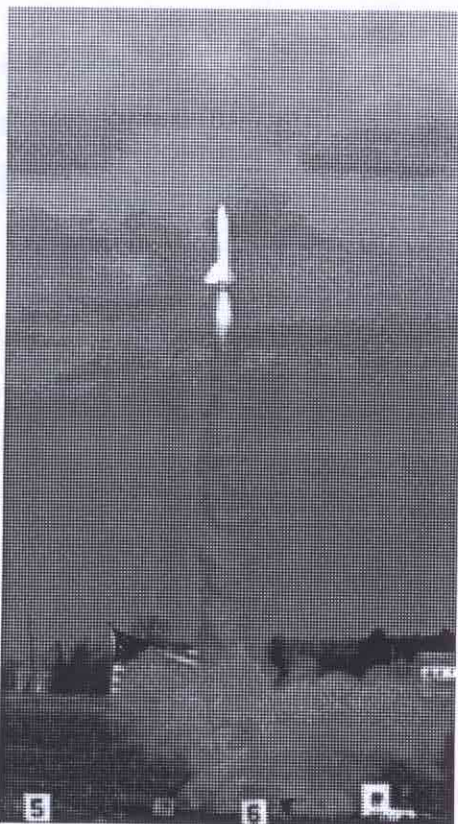
Dave's upscaled Mosquito is about twice as big as a G40. Guess what motor he flew it on, a G40. The little bugger raced out of site but Dave had binoculars and tracked it into the nearby cornfield. If it wasn't for the smoke trail and sharp eyes, it would have been lost. Dave later put his Rear Facing Astrocam way up there with an E11, and put his yellow Crayon way up there on an F40.

The person who put that 8 foot tall rocket out next to Randy's Minie-Magg should have been scuffled with. The Minie-Magg is 5.5 inches in diameter and weighs 5 pounds, but isn't very tall, and some person put this 8 foot tall monster of a rocket next to Randy's Magg which made it look like a Mosquito. Anyway after a failed igniter foiled the first try, the bird nailed the heavens on an I161W but with mixed results. The 6 second delay was a tad long. The nosecone, with its pound of nose weight, popped free but the rest of the rocket landed safely. Randy also put his Dart-29 about out of sight with an H180W.

At the last Cocalico launch, there were a set of twin brothers (don't recall their names). Well they were at this launch and one of them certified level one with an H124 in their Aerotech Barracuda. Very gutsy, but he did it.

Guy DeStefano launched his LOC I-ROC on a slammin' I357 blue thunder motor. When that igniter started, that monster of a bird whistled the whole way up. Ed Miller once told him that a 6 second delay was too short? Ed, it was a good choice of a delay. This combination will fly at Kirkwood.

Other flights included a neat J204 Hybrid flight that registered 4000 feet. A few Rocketman Wahoo kits launched on I284 motors. One person tried to launch an I283 Redeye motor (which is NOT certified yet!!). Well, it didn't light. A few say they are hard to light. All in all, it was a great day. **CD**



Randy Brust's Minie-Magg heads skyward on an I161W. (Grumbine)

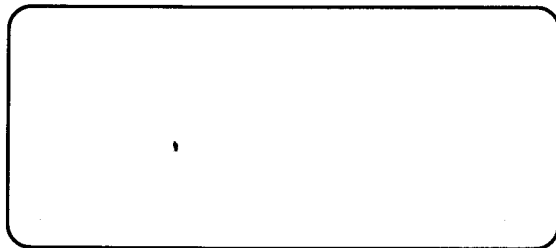


Guy DeStefano's I-ROC moves quickly off the pad on an I357T. (Brust)

COUNTDOWN

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THE SOUTHERN PENNSYLVANIA AREA ASSOCIATION OF ROCKETRY

Please make sure your membership is up to date!



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