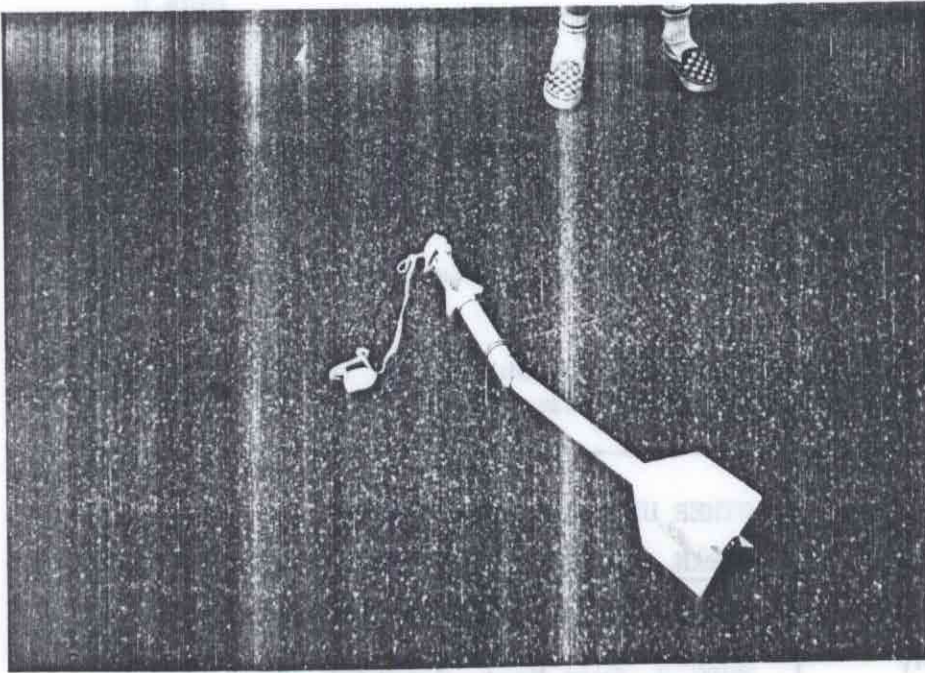


COUNTDOWN

VOLUME 2

NO 2



OOPS!!

-OR-
"WHADYA MEAN
THE CHUTES'
IN TOO TIGHT?"

THIS MAN IS:

- A) Goddard von CaTO
- B) Robert STOTT
- c) Robert Goddard

JULY '89



The SPAAR Countdown

Volume 2, Issue 2

July, 1989

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The SPAAR Countdown is the official newsletter of the Southern Pennsylvania Area Association of Rocketry, NAR Section #503, PO Box 127, Reamstown, Pa., 17567, and is intended for the enjoyment of it's members and subscribers. Non-member subscriptions: \$5.00 per year, 12 issues. It's their fault, Mom: George Beever, Mark Snyder & Ed Miller. Any resemblance of the contents of this newsletter to anything remotely intelligent is purely accidental.

ON THE COVER: The answer, of course, is "A", Goddard von Cato; Oh, OK, so the guy holding the rocket is Bob Stott; the guy next to him, leaning on the VW is Robert Goddard.

UPCOMING SECTION ACTIVITIES:

Sunday, July 23: SPAARSEC-1, Section Meet, 9AM to 5PM. Events: $\frac{1}{2}$ A PD, $\frac{1}{2}$ A SD multi, B SRD, B SD, C Eggloft Duration, $\frac{1}{2}$ A B/G, and Predicted Duration.

Sunday, August 13, Section Sport Launch, Cocalico High School, Denver, Pa., 1PM-5PM.

Monday, August 21, Section Meeting, Lancaster Library, 7PM-9PM.

Sunday, Sept. 3, Section Sport Launch, Cocalico High School, Denver, 1PM-5PM.

Monday, Sept. 18, Section Meeting, Lancaster Library, 7PM-9PM.

Sunday, Sept. 24, Section Sport Launch, Cocalico High School, Denver, Pa., 1PM-5PM.

OTHER UPCOMING ACTIVITIES:

NARAM - 31, ORR - 31, August 6 thru 13, Manassas, Va., hosting Section: NOVAAR.

ECBG-3, Open Meet, Saturday, September 9: Host Section: NOVAAR, at Manassas, Va.; Events: A F/W multi, C Rocket Glide, $\frac{1}{2}$ A Rocket Glide, A Boost/Glide, D Boost/Glide.

JOISEE V, Regional Meet, September 23-24; Host Section: GSSS, at Bridgewater, NJ; Events: B SD, B Eggloft Duration, $\frac{1}{2}$ A PD, A BG, Sport Scale, Plastic Model Conversion.

VACUUM-15, Open Meet, Sunday, Oct. 15, Host Section: NOVAAR, at Manassas, Va.: Events: $\frac{1}{2}$ A SD multi, A PD multi, B Helicopter Duration, A SuperRoc Altitude, D Dual Eggloft Altitude, B Payload Altitude.

FLIGHT LOG

Date: June 11, 1989
 Weather: Sunny, winds 10-20mph, from the west, temp. 84F.
 Night: Cocalico High School, Denver, Pa
 LEO: George Beever

SECTION SPORT LAUNCH

FLIGHT#	NAME	MODEL	MOTOR	EVENT	DURATION	MISC.
1	D. Bender	Birdie	1A3-2	Sport	6.0	CF
2	R. Hackman	Sprint	A8-3	Sport	16.2	CF
3	R. Hackman	Beta	1A3-2	Sport	16.8	CF
4	D. Bender	Liberty	A8-3	Sport	15.8	CF
5	R. Hackman	Mini-Bertha	1A3-2	Sport	24.3	CF
6	W. Rhoat	Sentinel	B6-4	Sport	6.2	CF
7	J. Yost	Delta Force	A8-3	Sport	17.4	CF
8	R. Hackman	Rogue	1A3-2	Sport	9.8	CF
9	D. Greene	Honest John	A8-3	Sport	12.1	CF
10	R. Hackman	Birdie	1A3-2	Sport	6.6	CF
11	D. Bender	Air Mail	D12-3	Sport	9.2	CF
12	R. Hackman	XR-31	A10-3	Sport	8.6	CF
13	R. Hackman	XR-35	1A3-2	Sport	24.5	CF
14	E. Miller	Hercules	F100-6	Sport	15.8	no chute
15	R. Hackman	XR-36	1A3-2	Sport	13.6	CF
16	D. Bender	Longshot	B6-4	Sport	28.4	CF
17	W. Rhoat	Clipper	B6-0/A8-3	Sport	29.3	CF
18	R. Hackman	XR-37	1A6-2	Sport	6.6	?
19	D. Greene	Minuteman	C6-7	Sport	31.29	CF
20	D. Greene	Nike Snake	B4-4	Sport	11.01	CF
21	W. Rhoat	Eggpress	B6-4	Sport	23.4	CF
22	R. Hackman	XR-35	A10-0/1A3-4	Sport	43.0	CF
23	D. Greene	Gran Premio	A10-3	Sport	35.9	CF
24	D. Bender	TransStar Carrier	C6-5	Sport	32.0	CF
25	R. Hackman	XR-36	A10-0/1A3-4	Sport	6.2	prang
26	G. Feveryear	B ELD	u6-4	Sport/B ELD	32.2*	CF
27	R. Hackman	XR-37	B6-4	Sport	55.0	CF
28	E. Miller	SDI	B6-2	Sport	7.6	CF
29	G. Feveryear	1A HQ	1A3-2	1A HQ	---	hung on rod
30	G. Beever	u-buaker	1A6-2	1A B/G	---	rod barron

SPAAR held it's only June sport launch on the 11th of the month, right on schedule. This made it four straight launches to have not been scrubbed because of bad weather. Of course, the term "bad weather" must be taken in perspective when one refers to SPAAR... to put it mildly, we're used to Mother Nature not being too cooperative at times. So let's hear it guys... do we mind a little wind??? (Here's where everyone is supposed to shout NO!!!) Do we mind a little rain??? NO!!!! Do we mind a little snow????? Do we mind a little ol' baseball game???? Well, maybe a little bit. Explanation?? It seems that as our SPAARsters arrived at Cocalico High School at the appointed time on the 11th, a real live baseball game, complete with uniformed players no less, was already underway, on a baseball diamond where most of our rockets would be landing. Problems? Nah... we just moved over to the other side of the school, where the R/C aircraft folks are usually flying, but weren't. And why weren't they flying? Well, if SPAAR only has one Sport Launch scheduled for the month of June, and Mother Nature

Practice Events

Flight#	Name	1A Parachute Duration		Total	Place
		#1	#2		
31	J. Yost	129.6	(32) 8.7	138.3	1st
33	Dale Greene	DQ	(34) 90.3	90.3	2nd
35	Dick Rhoat	66.7	(36) 11.6	78.3	3rd
37	G. Feveryear	40.2	----	40.2	4th
39	G. Beever	17.5	----	17.5	5th
39	W. Rhoat	DQ	----	----	----

B Streamer Duration	
40	Dick Rhoat 115.0 (41) DQ
42	G. Feveryear 100.3
43	John Yost 32.4
44	Dale Greene DQ (45) 28.7
46	G. Beever DQ

* - New SPAAR club record, not previously recognized in June issue of the Countdown.

has decided that only one day in June will be windy... well, you can put the rest together for yourselves. But even an unnaturally windy day didn't keep us grounded. Remember, Real Men fly in SPAAR weather. In any event, the sport flights of the day could have been dubbed "The Rick Hackman Show", as Rick put up a total of 12 flights out of a total of 30, bringing out some old Estes classics as the Beta, Mini-Bertha, Sprint and Rogue, as well as some of his own designs as the "X-Series" are known. Even John Yost got into the sport launching act with his Delta Force. Unfortunately, the OUCH!! of the day went to Ed "F-Monster" Miller, when his FSI Hercules pranged when the ejection charge of the F100 motor failed to deploy the chute. You could actually hear the big 'Herc as it whistled in on it's death dive. After many consolations, Ed somewhat cheerfully stated that the crash now gave him a good excuse to build another one, and donated the wreckage to Dan Weinholt, who will... uh Dan, just what are you going to do with that anyway?

The practice events for June 11 were 1A Parachute Duration and B Streamer Duration. B Streamer had the closest contest, with Glenn Feveryear being edged out by none other than Dick Rhoat, with Dick turning in a 115 second flight to Glen's 100.3 seconds. John Yost and Dale Greene came in 3rd and 4th, respectively, with George Beever hanging up the big DQ due to a streamer separation. 1A PD, on the other hand, provided us with the best flight of the day. John Yost's first flight thermalled away, over some power lines into a hog farm near the town of Stevens, after 129.6 seconds! A subsequent second flight, using a stand-in model, timed at 8.7 seconds, gave John a first place in the event. John needed both flights to beat out Dale Greene, who posted a 90.3 second flight, after a first flight DQ. Right on his heels came Dick Rhoat again, with two qualified flights totaling 78.3 seconds. Glenn Feveryear hung up a 40.2 second flight, using a B Streamer model with an 18mm 1A6-2!

With the results that Dick Rhoat and Dale Greene turned in, one has to believe that SPAAR will be a Section for others to contend with at future meets!

SECTION NEWS NOTES

all members are asked to please remember that the future of our use of Cocalico Sr. High depends largely on how well we treat the grounds there. So, please remember to use the proper trash containers. Thanks!!

Two new Countdown subscribers have been added to our mailing list: Jason Derr, 35 S. 35th St., Camp Hill, Pa., 17011, and Craig E. Houser, 8671 Garo Ln., Garden Grove, CA., 92644. Thanks, and if either have anything that they wish to contribute to the Countdown, such as articles or plans, etc., they would be more than welcome!!

We're quite sure that all members of SPAAR wish John and Daniel Yost the best of luck at NARAM-31, coming up next month. Make us proud, guys!! (What pressure?) In addition, Ed Miller and family are planning to attend as observers, and maybe Ed will take an example or two of his great work down to Virginia to show all the folks. Of course, if he takes an Estes model down, he might wind up moving to Penrose, at Estes' expense!

In the May issue of the Countdown, mention was made of the SPAAR members who participated in the demo launch at Muddy Run Park on May 20. Inadvertantly, the list was minus Jim Lytle and his son. SORRY GUYS!!, and thanks to John Yost for bringing it to our attention.

We are in dire need of plans to publish in the Countdown. If you have one, please send it in! And of course, we always need articles of all kinds.

WANTED: volunteer LCO's for future SPAAR Sport Launches. Must be 18 or older. Contact John Yost.

FLIGHT LOG

Date: July 2, 1989 Flight: Cocalico High School, Denver, Pa. LCO: Mark Snyder

FLIGHT#	NAME	MODEL	MOTOR	EVENT	DUR.	MISC.
1	D. Bender	Birdie	A3-4	Sport	5.8	GF
2	R. Stott	CP-7-R-21 SAT	B6-4	"	7.8	GF
3	R. Stott	F 500 Starbelt	U8-5	"	26.1	GF
4	G. Beaver	Sidewinder	C6-5	"	12.0	PK:
5	E. Miller	I-4	C6-7	C SD	77.5	GF
6	R. Stott	Aerobee 300	A10-3	Sport	25.6	GF
7	D. Greene	Gran Primo	A10-3	"	42.45	GF
8	G. Beaver	Gemini-Titan III	1 B6-4/2 B6-0	"	27.0	GF
9	D. Greene	Honest John	C6-5	"	50.61	GF
10	G. Feveryear	Hanger	3 B6-4	"	42.15	GF
11	G. Beaver	Black Brant II	C6-5	"	105.5	GF
12	R. Stott	Flying Saucer	C6-0	"	8.7	GF
13	D. Greene	Wizard	A8-5	Sport/A PD	71.94	GF
14	V. Rhoat	Phoenix	D12-3	Sport	25.5	GF
15	E. Miller	DragonFly	A3-2	Sport/HARTHEK	69.6	GF
16	R. Stott	Bandit	B8-5	Sport	15.5	GF
17	M. Snyder	Phoenix	D12-3	"	31.8	GF
18	R. Stott	USAF Copernicus	B8-5	"	15.0	GF
19	M. Snyder	B SD	B4-4	B SD	102.4	GF
20	D. Greene	Gemini-Titan 3	B4-4	Sport	26.1	GF
21	D. Greene	Gemini-Titan 3	C6-5	"	47.8	GF
22	R. Stott	Gemini-Titan 3	B6-4	"	21.0	GF
23	V. Rhoat	Sentinel	B4-2	"	15.3	GF
24	F. Hoke	Der V-3	D12-5	"	65.7	GF
25	D. Rhoat	B SD	B6-4	B SD	91.6	GF
26	G. Beaver	EOS	B60-6	Sport	----	no chute
27	G. Beaver	Drifter	A3-2	A FA	15.7	GF
28	R. Stott	USJ Palades	B6-0/A8-5	Sport	71.7	GF
29	G. Feveryear	A B/G	A3-2	A B/G	84.3	GF
30	F. Hoke	Super Big Bertha	D12-5	Sport	33.5	GF
31	E. Miller	Spoilsport	4 D12-5	"	30.82	GF
32	G. Feveryear	Perihelion	A3-4	A PD	258.0	GF
33	V. Rhoat	unk	B4-4	Sport	45.1	GF
34	F. Hoke	Defender	D12-3	"	31.1	no chute
35	M. Snyder	KanJet	B6-4	"	31.9	GF
36	E. Miller	Flying Saucer	C6-0	"	8.3	GF
37	M. Stott	Sky Raider	D12-7	"	51.6	GF
38	D. Bender	Honest John	A8-3	"	15.8	GF
39	D. Rhoat	C SD	C6-5	C SD	145.35	GF
40	M. Snyder	Bullpup 12D	C6-5	Sport	64.53	GF
41	G. Beaver	D-Region Tomhawk	D12-7	"	76.8	GF
42	D. Yost	A Payload Alt.	A8-3	A FA	10.8	GF
43	E. Miller	Megatron	D20-0/D20-7	Sport	53.15	GF
44	V. Rhoat	Over Easy	C6-3	C ELD	67.2	GF
45	E. Miller	Bandit	C6-5	Sport	25.2	GF
46	G. Beaver	Eggterminator	B6-2	B ELD	16.4	GF
47	G. Feveryear	Grumpy Dog	D12-0/D12-3	Sport	56.7	GF
48	E. Miller	Mercury-Rolstone	C5-3	"	22.2	GF
49	J. Yost	Hoos-a-Roc	unk	Helo	unk	unk
50	J. Yost	Hoos-a-Roc	unk	Pred. Dur.	14	
51	G. Beaver	Hotshot	A8-3	"	25.0	GF
52	G. Feveryear	---	A3-4	"	102.7	no ret.
53	D. Greene	---	B4-6	Pred. Dur.	184.9	GF
54	V. Rhoat	---	A8-3	"	30.9	GF
55	D. Bender	Big Bertha	C6-5	"	47.5	GF
56	E. Miller	Mad Max	D12-5	"	120.07	?
57	Derek Yost	---	A3-4	"	26.8	GF

PREDICTED DURATION RESULTS

Name	Prediction	Actual	Percentage	Place
Dave Bender	46	47.47	3.2%	1st
Derek Yost	30	26.86	10.5%	2nd
George Beaver	31	25	19.4%	3rd
William Rhoat	40	30.99	22.5%	4th
Ed Miller	56	127.23	127.2%	5th
Glenn Feveryear	40	102.69	156.7%	6th
Dale Greene	35	184.86	428.2%	7th

NEW SPAAR RECORDS, 7/2/89

Event	Name	Motor	Duration	Old Record
A PD	G. Feveryear	A3-4	258.0	J. Yost, 129.6, 6/11/89
A PD	D. Greene	A8-5	71.9	G. Beaver, 40.8, 8/14/88
B PD	D. Greene	B4-6	184.9	M. Snyder, 98.4, 7/3/88
C PD	G. Beaver	C6-5	105.5	D. Rhoat, 65.0, 4/16/89
D PD	E. Miller	D12-5	120.07	E. Miller, 83.7, 10/30/88
b ELD 6/11/89	G. Feveryear	B6-4	32.2	None
C SD	D. Rhoat	C6-5	145.35	D. Bender, 39.5, 12/18/88
A B/G	G. Feveryear	A3-2	84.3	None

A RECORD SETTING DAY

If you were present for the SPAAR Sport Launch on July 2, the sound you may have heard was the sound of no less than seven SPAAR club records being set or broken.

For the first time this year, near perfect weather treated the club members to a full day of fun flying. At the start of the launch activities, the light breezes were out of the west, towards the development that has claimed a number of rockets during the past few months. Unfortunately, it claimed another one when Glenn Feveryear's $\frac{1}{2}$ A Streamer Duration model just barely snagged the roof of the house closest to the street. Poor Glenn could be seen, standing there forelornly watching the streamer flap over the eave of the house, hoping that the slight breeze would pull it off of the roof. No such luck. Soon after this, however, what wind there was shifted to the north/northeast, towards the Middle School, sending the rockets into the same direction as they headed last year at UNCLE. As a result of this, some folks took some very long walks to retrieve models.

A new face was seen at this launch, that of Robert Stott. Robert is the "Elroy" half of the Farnsworth & Elroy concern, which at the present time produces a line of R/C aircraft, and will be releasing a line of model rocket kits in the future. Bob brought along a number of prototypes to fly. Bob normally flies with GSSS, but we were glad he could make the long drive from Richboro to fly with us, and we hope to see him again soon. Keep your eyes open for future issues of American Spacemodeling, as well as the Launch Rack, the GSSS newsletter; Bob's cartoon drawing talents, in the form of his fictional character Goddard Von Cato, are due to be published soon.

ICO Mark Snyder did a fine job of keeping things running smoothly all day, which allowed for 57 flights to be made, with little or no waiting time incurred at the pads. Mark even got in some flying himself, including a beautifully done Estes Phoenix, and a very impressive 102 second B Streamer Duration flight.

The younger A and B Division guys did very well for themselves, too, with Bill Rhoat coming up with a very nice 67 second C Eggloft Duration flight with his "Over Easy", and David Bender and Derek Yost taking 1st and 2nd places in the day's practice event, Predicted Duration. The fellow who finished last in Predicted Duration was Dale Greene, but he really shouldn't hang his head. His B parachute model turned in a time of 184.9 seconds, and everyone was amazed that he even got it back. It looked like it was heading for the same hog farm that swallowed up John Yost's PD model on June 11. Dale was heard to say, "I haven't gotten a good PD time all year. So, I predict 35 seconds, and look what happens!"

The two big jaw droppers of the day, however, were flights put up by Ed Miller and Glenn Feveryear, right after one another. One was purely contest oriented, and the other was the ultimate expression of "sport flying". A rather contrasting sight, too, as both were on the pads at the same time. There they were, Glenn hooking up his $\frac{1}{2}$ A PD Perihelion, which was dwarfed by Ed Miller prepping his North Coast Rocketry Spoilsport, powered by 4 (count 'em) Estes D12-5s. (Half credit should be given to Kevin Reichert, as the big Spoilsport was a joint venture.) Ed's model left the pad with a roar, all motors running for a beautiful flight and recovery. Just after the Spoilsport's landing, Glenn's Perihelion went off on a great 258 second (that's 4 minutes, 18 seconds, folks) flight. Glenn was seen, chasing the model in the direction of the middle school, it's new chute showing up very white against the sky. A number of people were heard to say that too bad that such a nice flight was all for nothing; no record, since there was no way Glenn would find the model. Right. Ten minutes later, here comes Glenn, with the Perihelion in hand to return the flight and claim a new record!

John Yost appeared to be practicing for NARAM, working out the kinks in his new Helicopter Duration model. Dick Rhoat was trying out some new fin materiel on his Streamer Duration models, and doing very well for himself, thank you, including a new SPAAR C Streamer Duration record. Not to be outdone in the record department, Dale Greene claimed new records in B Parachute Duration with the 184+ second flight already mentioned, as well as a New A PD record. A 71.9 second flight with an Estes Wizard and an A8-5 did the trick. Glenn Feveryear has the $\frac{1}{2}$ A PD mark, as well as the A B/G record, which had been open. He used a "Vulture" and an A3-2 to turn in an 84+ second time.

George Beever accidently set a new C PD record with his Estes Black Brant II, as it caught a thermal and just hung there for a minute and 45 seconds. If you're saying to yourself, "wait a second...the Black Brant uses D motors", you're right, but a D motor in that rocket would send it far, far away, so a C was used instead. He also got the "FRANG of the day award", as an MRC Sidewinder that took too darn long to build mistook the asphalt parking lot for the exhaust of a MIG-29 and shot down a Toyota or something.

Another new member who got in some flying was Fred Hoke, from Lebanon. Fred seems to like D motors, as everything that he brought out flew with a D 12. Do you think that Ed Miller has anything to do with that? One person who was not there, but who would have enjoyed himself was Rick Hackman. He and Bob Stott would have a lot to discuss, considering the old "classics" that Bob brought out, such as the Sky Raider, Bandit, USS Pelaines, and Aerobee 300.

On hand too, were Dan Weinhold, who did a lot of timing, and Rita Feveryear, Char Snyder, and Teresa Beever. Sometimes we overlook those folks who come out to the launches to help out, lend support, or help out with range duties. THANKS FOLKS!!!

QUOTE OF THE DAY DEPT: John Yost tells Bob Stott that Glenn Feveryear is a "Reborn Rocketeer", to which Stott replies, " Being a reborn rocketeer just means that you were able to find all of your old rocket junk in the attic."

SECOND BEST QUOTE OF THE DAY DEPT: Mark Snyder to his 5 year old son Carl, as the assembled crowd was making all sorts of strange noises, some of which were supposed to sound like dogs, as Glenn was preparing his Grumpy Dog for the traditional second-to-last flight of the day: "No, son, those aren't the bad kids making those noises... those are the "adults".

FAMOUS LAST WORDS DEPT: Teresa Beever to everyone who said "Gee, you're turning awfully red"... "Nah, I don't burn." Uh-hu.

The "Ugly Stick-C" SuperRoc Design

The "Ugly Stick-C" SuperRoc is named after the graphite-shaft fishing rods that it resembles. It gained 1st place in C Division SuperRoc Duration at WUBBA-12 in June, 1989, much to the astonishment of it's builder.

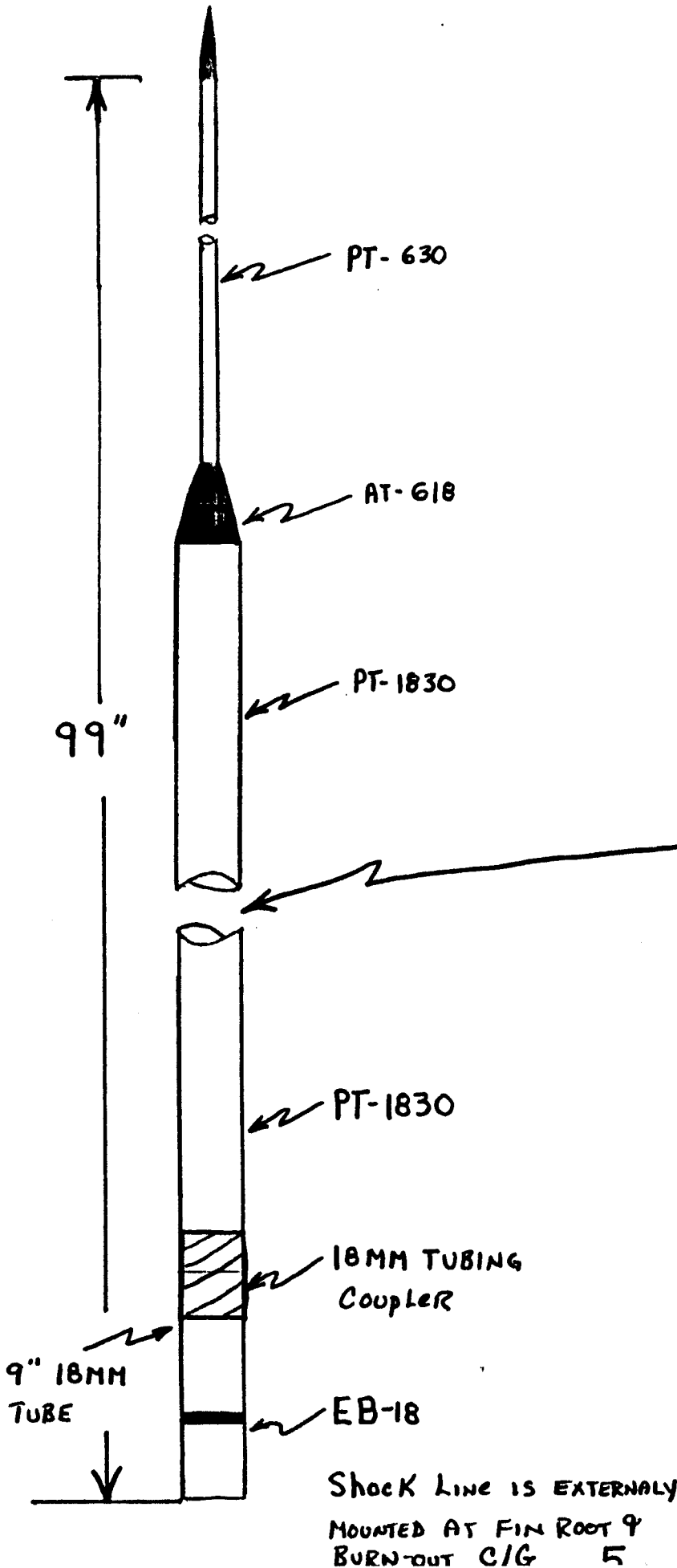
I could tell you that the "Ugly Stick-C" is the result of many sleepless nights of well thought out research, coupled with the latest in computer-assisted design. I would also be lying. The only pre-planning that went into the rocket was the fact that in April, I ordered a quantity of 18mm and 6mm Apogee "blackshaft" tubing, so I had the parts on hand to build it.

The only previous experience that I had in SuperRoc construction and flying (A and B) told me that one weak point in any design was the body separation point; if not constructed properly, the model will "wiggle" and become loose; that, and the effort to minimize the number of body tube joints were the only design goals I had in mind when it came time to put together a "C" SuperRoc for WUBBA.

The parts list on the opposite page is exactly what went into the original model; obviously, substitutions can and must be made. For example, the 9" length of "BT-30" will have to be replaced by any length of 18mm tubing. I've had a couple of 9" BT-30s around for years, and it seemed like as good a time as any to use one, as 9" was exactly what I needed to bring the overall length up to the 250cm (98.43") maximum length. The fins were made out of 1/16" plywood, because that's what I had around; 3/16" balsa or GBS-20 I'm sure will work fine. The fin design is simply the pattern used for the front canard wing of a B/G also built for WUBBA, with a little trimmed off of the end! The "nose cone" is a piece of 1/4x1/4 balsa stick sanded to shape; the tubing couplers are the yellow engine spacers found in Estes kits. A 16" 1/2 mil mylar chute was used at WUBBA, powered by a C6-5. The actual secret to the "Ugly Stick-C" was flying it out of Glenn Feveryear's tower!!

The "UGLY STICK-C" SUPERROC DESIGN

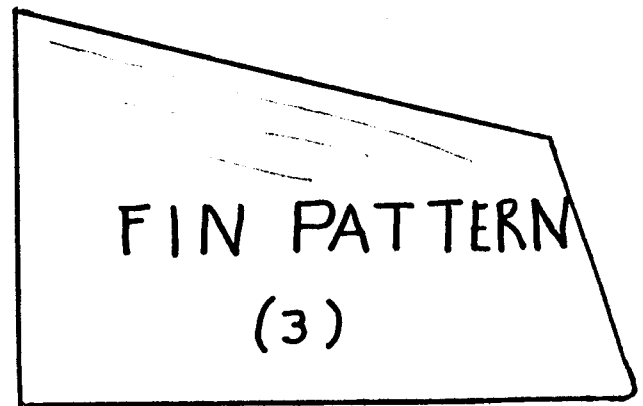
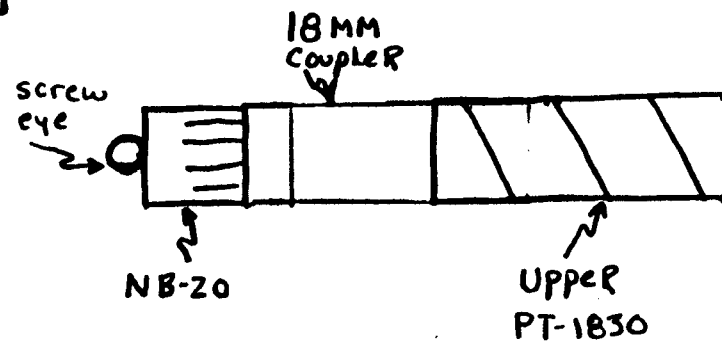
by George Beever
NAR 44391



PARTS LIST:

QUAN.	DESC.	MANU.
1	9" 18MM (BT-20)	you pick
2	PT-1830	Apogee
1	PT-630	Apogee
1	AT-618	Apogee
1	EB-18 Engine block	Apogee
3	FINs	you pick
6'	SHOCK LINE	you pick
	AT LEAST 30LB TEST	
1	SMALL SCREW EYE	you pick
2	18MM TUBING	you pick
	Couplers	
1	NB-20	ESTES
	NOSE BLOCK	
1	NOSE CONE	you <u>MAKE!</u>

NOSE BLOCK DETAIL:



MANUFACTURER REVIEW

by Ed Miller

Competition Specialties

Competition Specialties is a manufacturer and supplier of hard to find products which are applicable to model rocketry.

Competition Specialties offers a line of high tech, light weight, very strong materials for competition model construction. High tech components offered are: Carbon Fiber Laminate, Carbon Fiber Rods, Carbon Fiber Braided Cord, Carbon Fiber Mat, Rohacell Foam, Kevlar mat, Kevlar Cord and Thread, and Boron Filiments. As you can see, these are not your average model rocket building materials! These high strength, light weight materials are used by the actual Aerospace Industry.

The Rohacell Foam and the Kevlar Mat are advertised as being excellent for use in glider wings and helicopter blades. Carbon Fiber Rods are suggested for use in Flex-wing gliders. The rest is up to the imagination of the builder!

The \$3.00 price for the catalog also covers the cost of 10 "free" samples of the firm's products.

Write: Competition Specialties
P.O. Box 452
Vine Grove, KY
40175-0452
Catalog: \$3.00

SPAARSEC-1 COMING JULY 23rd!

The Southern Pennsylvania Area Association of Rocketry's first NAR sanctioned Section Meet will be held on Sunday, July 23rd, from from 9AM to 5PM. Here's a quick reference guide:

- Name: SPAARSEC-1
- Date & Time: July 23, 1989, 9AM to 5PM;
- Events: 1/2 A PD, 1/2 A SD multi, B SD, C Egg-Toss, 1/2 A B/G, B SuperRoc Duration, and Predicted Duration.
- Location: Cocalico Sr. High School., Denver, Pa.
- Contest Director: Glenn Feveryear.
- Special Considerations: C and B Divisions will be combined; A Division will fly "18mm 1/2 A Streamer Duration, Commercially Available Kit Division"; the 1/2 A6-2's will be supplied by the club; one flight per contestant, best flight wins.
- Cost: C Division \$2.00; B Division \$1.00; A Division, free.
- Sport Flying: Welcome.
- Enter as many or as few events as you wish.
- Range help is always welcome, so please help out. As of this writing (7/14) there is a port-a-pot at the school. If you don't bring a lunch, there are many sandwich shops in the Denver area.
- RAIN DATE: July 30.

OOPS!!!

-or-

It could only happen to a model rocketeer!!

Your editor received a phone call the other day from Mark Snyder, he of the "Mouth from the South" fame, who related a story that he warned could only be appreciated by another rocket nut. This eventually became the idea for a story for the Countdown; not to make fun of anyone, because things like this have happened to us all.

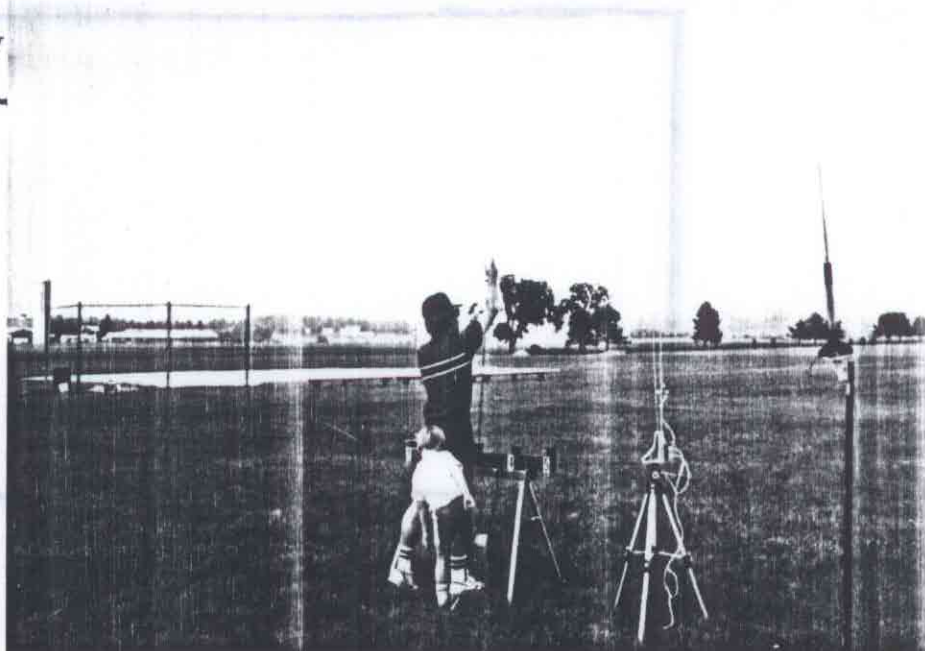
Well, it seems that our hero, Mr. Mark, was just back from the local hobby shop, where he had purchased some dope thinner, and a can of spray butrayte dope, red no less. The idea was to repaint his B SuperRoc, which he had just done some work on. So, here's Mark, the former drummer, always tapping or tossing something, strolling thru his downstairs family room, tossing the can of spray dope, which by the way is minus it's cap... and well, you know what happens next, right? Uh-hu, Mark misses the can on it's next toss, and it lands, sure enough, on the nozzle; if that's not enough, it now starts to propel itself thru the room, down the steps, into the basement itself, it's nozzle stuck wide open. So, Mr. Mark makes the gutsy decision; he grabs the can with his bare hand, which of course turns bright red, takes the offending can outside, and smothers it in a handy plastic garbage bag,

where it hisses happily for another 15 minutes. Remember the dope thinner? It saved Mark's keyster, I'm sure, cleaning up the red spray with no problem. OOPS! And then there's the time that I put all of my chute's on snap-swivels, went out to the launch feild, prepped the rocket, watched it arc over at peak altitude, only to discover the chute, with swivel, in my hand. OOPS!

It could only happen, (cont)

Just recently, on July 2 as a matter of fact, the OOPS! Syndrome afflicted Section Advisor John Yost. Seems he forgot to remove the rubber band that held the rotors of his Rose-a-Roc down for prepping, prior to launching it. Needless to say, it was rather difficult for the rotors to deploy that way. OOPS!

"WATCH WHAT WIRES, DAD?"

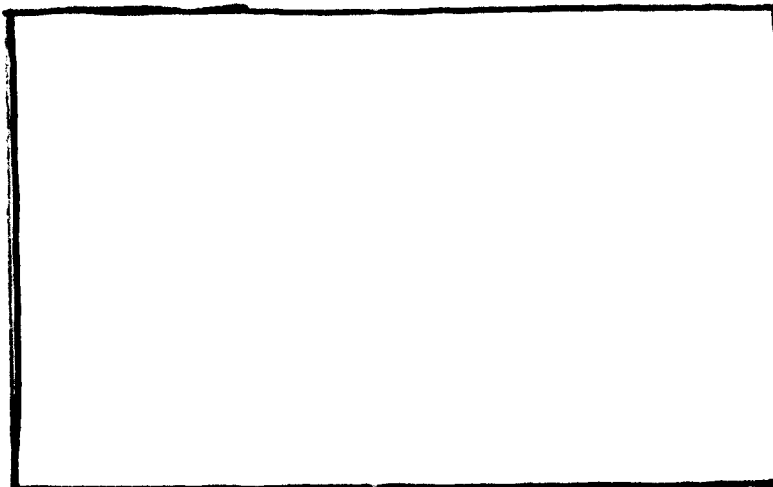


BILL AND DICK RHOAT
MODELING THE LATEST
IN LAUNCH RANGE
HEAD GEAR, MUCH TO
DALE GREENE'S
"AMAZEMENT".

TO JOHN AND DANIEL YOST:
GOOD LUCK AT NARAM !!!

George + Teresa + ? Beaver

(AND OF COURSE, THE REST OF THE SPAAR GANG!)



To:

1977
1977
FROM: STAFF

THE SOUTHERN PENNSYLVANIA AREA ASSOCIATION OF ROCKETRY, NAR SECTION #503, PO Box 127, Reamstown, Pa., 17567. Schedule of events:
July 2: Section Sport Launch, Cocalico High School, Denver, Pa., 1 PM to 5 PM; Practice Event, Predicted Duration.

July 17: Section Meeting, Lancaster Library, N. Duke St., 7 PM to 9 PM. New members welcome.

July 23: SPAARSEC 1; Section Meet, Cocalico High School, Denver, Pa., 9 AM to 5 PM; 1/2 A PD, 1/2 A SD multi, C ELD, 1/2 A P/G, B SuperRoc, B SD, Predicted Duration. Special launch of Saturn V models to commemorate the 20th anniversary of the Apollo 11 moon landing.

August 13: Section Sport Launch, Cocalico High School, Denver, Pa., 1 PM to 5 PM; Practice Event, C SRD.

August 21: Section Meeting, Lancaster Library, N. Duke St., 7 PM to 9 PM. New members welcome.

September 3: Section Sport Launch, Cocalico High School, Denver, Pa., 1 PM to 5 PM. Practice Event, B ELD.

September 18: Section Meeting, Lancaster Library, N. Duke St., 7 PM to 9 PM. New members welcome.

MEMBERSHIP APPLICATION

NAME: _____

ADDRESS: _____

AGE: _____ DOB: _____

PHONE: _____

NAR#: _____

I HAVE BEEN FLYING MODEL ROCKETS
_____ YEARS/MONTHS

I HAVE NEVER FLOWN A MODEL ROCKETS
BEFORE _____

DUES: 18 or over: \$10/year _____

15, 16, 17 years old: \$7/year _____

14 years old & under: \$5/year _____

Return to: SPAAR, PO Box 127,

Reamstown, Pa., 17567