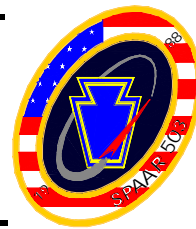




COUNTDOWN



Volume 13 Issue 6 The Official Newsletter of Southern Pennsylvania Area Association of Rocketry

SPAAR SPAM

Friends, Rockets, Food - *Oh the food!*

SPAAR SPAM Sport
Launch
November 4 2001

Perfect tailgating weather greeted us on November 4 for SPAARSPAM, our annual eat-a-thon and rocket launch. Like I've said many times, I think that this club knows how to do two things really well – eat and fly rockets. I'm just not sure in which order they are. But, that's what makes it so much fun, right?

Even though there was a bit of a breeze, a total of 60 flights were made, with only three little problems, but more on that later. Once again, Tom and Gregg Martell filled the sky with lumber, flying their big Edmonds gliders on Estes D and E motors. Very cool.

Steve Hutchinson flew a model on a G80 that flew great and looked vaguely familiar, but I just couldn't place it. Only later, when I was going over the Flight Cards, did I figure out what it was. He calls it the "Lonyx" – a stretched LOC

Onyx – get it, "Lonyx"? Very, very cool.

LeRoy Bonawitz flew the Estes Silver Comet that he has painted like a Cheshire cat on the new Estes E9 motors. Perfect motor for that model. Rick Hackman flew another golden oldie, the Tiger Shark, a 2-stage design from the 1960's. On two B motors, that thing really lit outta here. Great flight. Pete Bryson flew an Estes Defender on a D12 – and a rocket-eating tree gobbled it up. Mike Brubaker was a bit luckier – he dropped his Launch Pad Martin-Pescador on the school roof – the MIDDLE School roof!! It has since been recovered. Mark Beaver finally got to fly his new Mercury Redstone, twice in fact, on C6 motors. Nice flights both times. The old man had a nice flight on his Estes Maxi Honest John, but made up for it with a very realistic flight with his Launch Pad AGM-114 Hellfire. But, as Bruce Canino commented, it did get nice mission points. Mark Kamide made a real

nice, if somewhat exciting flight with his beautiful Estes Mercury Atlas ["this thing is screaming for an E!"]. Later, he flew his well-done scratch built 4" diameter Little Joe II. Nicholas Simon, senior and junior, made a number of good flights, among them an Estes Mean Machine on an E15 and an Estes/NCR Phantom 4000 on a G80.

Danny Camacci had some really cool flights with his Big daddy, Austin Roc, and V-2. He did take over first place in the 2001 Rocket Lok derby when his Pursuit hung up on the rod under power of an Aerotech G38, spewing clouds of black smoke. I really hope you don't feel bad, Danny – that kind of things has happened to us ALL!!!!

Tony Rossi was given an education on the CATO tendencies of the Estes D12. Nice fireworks display, but it really screws up the inside of your rocket!

Finally, a big thumbs-up to

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COUNTDOWN

Volume 13, Issue 6

November / December 2001

President

Dale Greene

(Ruling SPAAR with an Iron fist)

Vice President

Tony Rossi

(links that link the world)

Secretary-Treasurer

Larry Gerloch

(Hey give me back your name tag!)

Section Advisor

Glenn Feaveryear

(Sensei of the contest scene)

Member at Large

Dave O'neal

(Has anyone seen Dave? Dave are you still out there? Please phone in!)

Newsletter Editor

Mark Kamide

(last issue, entering witness protection)

COUNTDOWN is the newsletter of S.P.A.A.R., the Southern Pennsylvania Area Association of Rocketry, NAR Section #503. COUNTDOWN is published 6 times a year for the benefit of S.P.A.A.R. club members. Any information contained in COUNTDOWN may be used as long as proper credit is given.

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<http://www.cyberia.com/pages/feveryear/index.htm>

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Dale Greene, Larry Gerlach, Rick Hackman, Maria Ha, LeRoy Bonawitz, and Tony Rossi. These folks did all of the range duty, allowing everyone else to fly rockets, or sit back, relax, and eat. Thanks, folks, you did more than your share!!!

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.

Editors Corner

I would like to thank George Beever for taking on the newsletter editor's role as of the first of this year. Producing the Countdown has been a fun task to do and it could have not been possible for me to do without the support of you and especially George. George has in the past done the

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SPAAR SPAM Flight Log

Fl#	Name	Manuf.	Model	Motor	Result
1	Mark Beever	Estes	Mercury Redstone	Estes	C6-3 Good Flight
2	Mark Beever	Estes	Mercury Redstone	Estes	C6-3 Good Flight
3	Mark Beever	Estes	Turbo Copter	Estes	A8-3 Good Flight
4	George Beever	Estes	Little Joe II	Estes	A10-3 Good Flight
5	George Beever	Estes	Exocet	Estes	A3-4 Good Flight
6	George Beever	Estes	Maxi Honest John	Estes	D12-3 Good Flight
7	George Beever	L. Pad	AGM-114A	Estes	D12-3 Prang
8	LeRoy Bonawitz	Estes	Silver Comet	Estes	E9-4 Good Flight
9	LeRoy Bonawitz	Estes	Silver Comet	Estes	E9-4 Good Flight
10	LeRoy Bonawitz	Estes	Snitch	AT	D21-4 Good Flight
11	Mike Brubaker	L. Pad	Martin Pescador	AT	E18-4 Good Flight
12	Pete Bryson	Estes	Defender	Estes	D12-7 Good Flight
13	Pete Bryson	Aero.	IhInitiator	AT	F25-6 Good Flight
14	Danny Camacci	Scratch	Pursuit	AT	G38-4 Rocket Lok
15	Danny Camacci	Estes	Big Daddy	Estes	D12-3 Good Flight
16	Danny Camacci	Estes	V-2	Estes	D12-5 Good Flight
17	Danny Camacci	Scratch	Austin-Roc	Estes	C6-3 Good Flight
18	Bruce Canino	Scratch	Rotaroc	Estes	D12-3 Good Flight
19	Julianna Gerlach	Estes	Constellation	Estes	B4-2 Good Flight
20	Ben Gerlach	Estes	Bull Pup 12D	Estes	C6-3 Good Flight
21	Larry Gerlach	Estes	Broadsword	Estes	E9-6 Good Flight
22	Dale Greene	E./NCR	Big Brute	Estes	F62-4 Good Flight
23	Dale Greene	Estes	Maxi Alpha 3	Estes	D12-3 Good Flight
24	Dale Greene	Estes	Fat Boy	Estes	C6-3 Good Flight
25	Dale Greene	Scratch	Rotaroc	Estes	D12-3 Prang
26	Chris Ha	Estes	Big Daddy	Estes	D12-3 Good Flight
27	Maria Ha	Estes	Fat Boy	Estes	C6-3 Lawn dart
28	Tom Ha	Edm.	Tinee	Estes	1/2A3-2 Good Flight
29	Tom Ha	QCR	B RG	Estes	A8-3 Good Flight
30	Tom Ha	Edm.	Deltie Thunder	Estes	E9-4 Good Flight
31	Tom Ha	Edm.	DeeCee Thunder	Estes	E9-4 Good Flight
32	Tom Ha	Scratch	Once & Done	Estes	C6-5 Good Flight
33	Tom Ha	Edm.	Deltie Thunder	Estes	E9-4 Good Flight
34	Rick Hackman	Scratch	Moonik-1	Estes	C5-3 Good Flight
35	Rick Hackman	Scratch	Tiger Shark	Estes	B6-0/B6-6 Good Flight
36	Steve Hutchinson	Scratch	76704	Estes	A8-3 Good Flight
37	Steve Hutchinson	Scratch	Lonyx	AT	G80-7 Good Flight
38	Mark Kamide	Estes	Mercury Atlas	Estes	D12-3 Good Flight
39	Mark Kamide	Scratch	Little Joe II	AT	F40-4 Good Flight
40	Andrew Martell	Estes	Gnome	Estes	1/2A3-2 Good Flight
41	Gregg Martell	Edm.	Ecee Thunder	Estes	D12-3 Good Flight
42	Gregg Martell	Estes	Snitch	Estes	B4-2 Good Flight
43	Gregg Martell	VBS	Extreme 24	Estes	D12-3 Separation
44	Craig Myers	Estes	Sidewinder	Estes	C6-3 Good Flight
45	Tony Rossi	Estes	Broadsword	Estes	D12-3 CATO
46	Tony Rossi	Estes	Fat Boy	Estes	C6-3 Good Flight
47	Stephen Olsen	Scratch	Unknown	Estes	C6-3 Good Flight
48	Stephen Olsen	Scratch	Unknown	Estes	C6-5 Good Flight
49	Ed Romani	QCR	High Rotor	Estes	A8-3 Good Flight
50	Ed Romani	Scratch	5 Star General	AT	F52-8 Good Flight
51	Ed Romani	ASP	Kappa 9M	Estes	D12-5 Good Flight
52	Ed Romani	Estes	Firebird	Estes	C6-7 Good Flight
53	Ed Romani	Custom	Equinox	AT	E11-4 Good Flight
54	Ed Romani	Estes	Mercury Redstone	Estes	C5-3 Good Flight
55	Nicholas Simon	Estes	Dude	Estes	D12-3 Good Flight
56	Nicholas Simon	Estes	Mean Machine	AT	E15-4 Good Flight
57	Nicholas Simon	Aero.	Mirage	AT	G80-4 Good Flight
58	Nicholas Simon	E./NCR	Phantom 4000	AT	G80-4 Good Flight
59	Mick Spencer	Aero.	Mirage	AT	G80-4 Good Flight
60	Mick Spencer	Scratch	Code Orange	AT	E30-4 Good Flight

SPAAR Sport Launch
October 14 2001

How can we describe the conditions on October 14? Windy. Cold. Threat of rain. In other words, perfect SPAAR weather!!

We had the chance to witness a couple of "firsts". The first flight powered by one of the "new" Estes E motors – Larry Gerlach's Broadsword on an

E9 was pretty neat. And, the first time an LCO was almost taken out by a counter-balance, when John Yost was almost waffled by the nuts & bolts used as a counter weight on Mark Kamide's Mono-1 monocopter. (*I thought it was a an LCO spot landing contest? editor*) The model did have two pretty neat flights, however. You can check them out at <http://rcw.dyndns.org/spaar/>,

courtesy of Tony Rossi. Also on that same sight is some video of the Simon's Death Star flight. Thanks Tony!! And thanks to all of the SPAAR members who set up the range, took their turns doing range duty, and then took everything apart again when the flying was over. Without your work, we wouldn't have a club!!

Flight log below - editor

FL#	Name	Manuf.	Model	Motor		Result
1	Mark Beaver	Estes	Heatseeker	Estes	B4-4	Good Flight
2	Mike Brubaker	Scratch	3.4" Fat Boy	AT	D15-4RMS	Good Flight
3	Mike Brubaker	Scratch	3.4" Fat Boy	AT	E18-4RMS	Good Flight
4	Ben Gerlach	Estes	Fat Boy	Estes	D12-7	Good Flight
5	Ben Gerlach	Estes	Silver Comet	Estes	D12-7	Good Flight
6	Ben Gerlach	Estes	Big Bertha	Estes	C6-5	Good Flight
7	Ben Gerlach	Estes	Silver Comet	Estes	D12-7	Good Flight
8	Larry Gerlach	Estes	Big Bertha	Estes	B4-4	Good Flight
9	Larry Gerlach	Estes	X-Ray	Apogee	A3-6	Separated
10	Larry Gerlach	Estes	Big Bertha	Estes	C6-3	Good Flight
11	Larry Gerlach	Estes	Broadsword	Estes	E9-6	Good Flight
12	Larry Gerlach	Estes	Bull Pup 12D	Estes	B4-4	Good Flight
13	Rick Hackman	Scratch	XR-88	Estes	1/4A3-3	Unstable
14	Rick Hackman	Scratch	Gamma	Estes	B6-4	No chute
15	Rick Hackman	Scratch	Li'l Tinker	Estes	A8-3	Good Flight
16	Rick Hackman	Scratch	Hi-G Payloader	Estes	A8-3	Good Flight
17	Rick Hackman	Scratch	260 Booster	Estes	B6-4	Good Flight
18	Rick Hackman	Scratch	Astron Cobra	Estes	B6-4[3]	Good Flight
19	Mark Kamide	Scratch	Little Joe II	Estes	1/4A3-3	Lawn dart
20	Mark Kamide	Scratch	Mono-1	AT	G33-7RMS	Good Flight
21	Mark Kamide	Scratch	Mono-1	AT	G33-5RMS	Good Flight
22	Andrew Martell	Estes	Gnome	Estes	1/2A3-2	Good Flight
23	Gregg Martell	VBR	Extreme 24	Estes	C6-5	Good Flight
24	Gregg Martell	Estes	Big Bertha	Estes	C6-3	Good Flight
25	Dave O'Neal	Scratch	Frank n' Rocket	Estes	C6-5	Good Flight
26	Brian Royer	Scratch	Space Craft	Estes	A3-4	Good Flight
27	Brian Royer	Quest	Astra 1	Estes	C6-5	Good Flight
28	Brian Royer	Estes	Wildfire	Estes	C6-5	Good Flight
29	Brian Royer	Estes	Ninja	Estes	A3-4	Good Flight
30	Brian Royer	Estes	Turbo Copter	Estes	C6-3	Separation
31	Brian Royer	Estes	Nike Arrow	Estes	A3-4	Good Flight
32	Nicholas Simon	Estes	Corkscrew	Estes	C6-3	Good Flight
33	Nicholas Simon	Estes	Death Star	Estes	C6-3	Good Flight
34	Nicholas Simon	Estes	Skywinder	Estes	C6-3	Good Flight
35	Nicholas Simon	Estes	Shellshock	Estes	C6-3	Good Flight
36	Nicholas Simon	Estes	Asteroid Hunter	Estes	C6-7	Good Flight
37	Nicholas Simon	Estes	Red Storm	Estes	C6-3	Good Flight
38	John Yost		CATO	Estes	C6-3	Good Flight

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editor's job with great style and the Countdown will be in very capable hands with him at the masthead again. Please send George your articles of interest for inclusion the Countdown.

So for now, so long and thanks for all the fish.

Mark Kamide

Section Meeting Minutes

October 26, 2001

Present: M. Kamide, J. Yost, N. Simon x 2, T. Ha, L. Gerlach, G. Martell, T. Rossi, G & R Feveryear, D. Greene, G. Beaver.

Dale Greene called the meeting to order at 7:08PM and called for committee reports:

Newsletter: Mark Kamide stated, "we just had one", and then detailed some changes for next year.

Section Advisor: Glenn Feveryear reported that the NAR section charter would soon be renewed.

Competition: Glenn reported on the Steel City Smoke Trails meet, held over the weekend of October 20/21. Also, the NOVAAR Section will hold a meet on November 3, and

plans are proceeding for RAMTEC next year.

Treasurer: Larry Gerlach reported that we have a balance of \$1,198.00, and his transmission is working just fine, thank you.

Old Business:

The secondary set of launch equipment that is to be built was discussed. John Yost asked for input on certain features that the members want; Mark Kamide has the old launcher heads – they will be refurbished for the back-up set.

Tony Rossi reported back to the club on a subject that we discussed at the September meeting, that being trying to familiarize members with the responsibilities of the Range Safety Officer [RSO] and the Launch Control Officer [LCO]. Tony had two handouts – the NAR training program for HPR range duties, as well as a checklist that he'd developed for use at the SPAAR range. After discussion, he was asked to add a reference to checking the flyers name tags when they are at check-in. The checklist was then accepted and will be used at launches.

New Business:

Dale Greene reported that

he has received the NAR Section survey.

Tom Ha reported that the SPAAR Family Dinner will be held on Saturday, January 19, 2002, at 6:00PM at the Clearview Diner in Elizabethtown. For details contact Tom or Maria at rocketha@netscape.net, or 717-486-4922. Rita Feveryear made a motion, second by Gregg Martell, to authorize the expenditure of \$100 for door prizes. Motion passed.

The proposed 2002 club schedule was discussed and adopted. Discussion was held on workshops and family trips. Aberdeen Proving Ground and Wallops Island were discussed, but it was found that both visitors' centers are closed until further notice due to the national emergency situation resulting from the September 11 attacks. Larry Gerlach passed out some information on a space related program that will be held at the North Museum in Lancaster that might be of interest.

Dale Greene reminded those present that nominations for club offices will be taken at the next meeting, November 16.

Meeting adjourned at 9:05PM.

Section Meeting Minutes

November 16, 2001

Present: M. Kamide, N. Simon X 2, L. Gerlach, R. Hackman, M. Brubaker, D. Greene, J. Yost, G. Beever

President Greene called the meeting to order at 7:10PM and called for committee reports:

Treasurer: Larry Gerlach reported that currently have a balance of \$1,243.00, of which \$100 has been allocated for door prizes for the Family Dinner in January.

Section Advisor: No Report

Competition: No Report

Newsletter: Mark Kamide reported that the next issue would be out at the end of December. After that, please forward submissions to George Beever.

Old Business: John Yost reported that he has begun work on the back-up launch system. The controller box that we still have from the work a former member did can be used with several modifications.

Mike Brubaker asked about the club information brochure that Gregg Martell was working on. Gregg will be asked to

complete his revisions, and Mark Kamide volunteered to include them in with the other club equipment, so that they will be available to give to prospective members at launches.

Larry Gerlach has continued to investigate a winter field trip to the North Museum's planned exhibit on rocketry and space travel. We will decide on the exact date for this trip at the December meeting. Dr. Simon volunteered to check with Aberdeen Proving Ground in Maryland about the possibility of a trip there.

New Business: Larry Gerlach reported that he has procured the use of the Apria Community Room for our meetings in 2002.

George Beever asked that at least \$60 in cash be made available to cover the cost of the pizza at the December meeting. He will take care of drinks at plates.

Mike Brubaker donated several ceramic tiles with holes drilled in them for use as replacement blast deflectors.

The condition of the oldest table that we use on the range was discussed. It is believed that this was the original portable table invented by Leonardo De

Vinci. Motion by Beever, second by everyone, to authorize Dale Greene to purchase a replacement. Discussion ensued on a maximum amount; Dale then launched into another Sears Infomercial, and everyone lost interest.

Nominations: Nominations for club officers for 2002 were taken from the floor, as per the club By-Laws. The following persons will appear on the ballot:

Section Advisor: **Glenn Feveryear, Tony Rossi**

President: **Dale Greene, Gregg Martell**

Vice-President: **Dr. Nicholas Simon, Tony Rossi**

Secretary/Treasurer: **Larry Gerlach**

Member-at-Large: **Mike Brubaker, Gregg Martell**

Ballots will be mailed to all members, to be counted at the December meeting.

The meeting adjourned at 8:40PM.

ROCKETS OVER GETTYSBURG

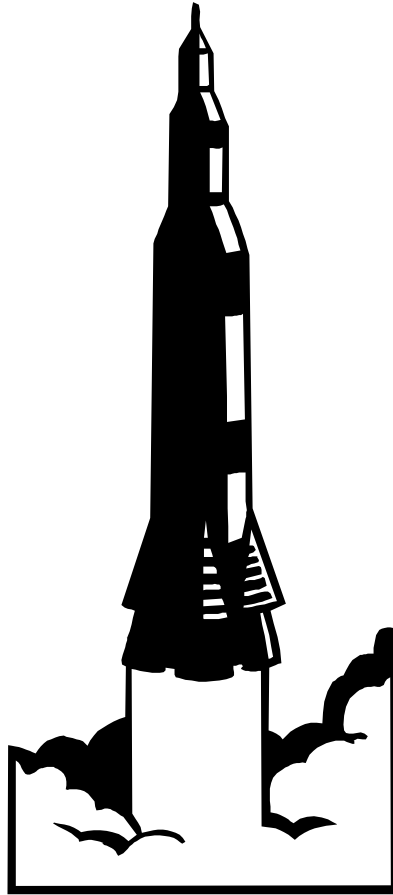
For the second straight year, SPAAR held a demonstration rocket launch as part of the National Park Service's "50's Weekend". In 2000, we were approached by the NPS to take part in these festivities, held on the farm where President Dwight D. Eisenhower and his wife Mamie lived in retirement after his two terms in the White House. Since Ike's presidency spanned the 1950's, the NPS asked us to highlight the dawn of the "Space Age", which began in 1957 with the launch of Sputnik 1 by the USSR.

In 2000, we were only able to help out on Saturday, but this year, thanks to some hard work by the Hutchinson and Ha families, SPAAR was on center stage all weekend. Between the 2 days, 104 flights were made, with Ivan Barnsley making an incredible 49 flights himself! A number of models representing the beginning of space flight were flown: V-2, Juno-1, Vanguard, Atlas-Score, Sputnik, Thor Agena, and Mercury Redstone. The entire power range of model rocketry was flown, from 1/4A motors up G's.

It takes a lot of coordination of effort to put on a launch of this magnitude, so far from

"home". Our thanks go out to Steve Hutchinson and his family, Tom and Maria Ha, and everyone else who made SPAAR proud this weekend.

Flight logs are located on pages 8 and 9 for this launch - Editor



SPAARSPAM Recipe Croner

Someone (George, I think) requested my wife's recipe for her pesto chicken which we brought to SPAARSPAM, so I said i would submit it for the newsletter. Maybe an open request to all club members to send their SPAARSPAM recipes for the newsletter - this would

fill some space in the newsletter.

Gregg

CREAMY PESTO CHICKEN AND BOW TIES

3 cups uncooked bow tie pasta

2 tablespoons butter or margarine

1 pound boneless chicken breasts, cubed

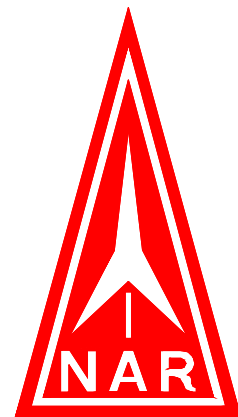
1 can (10 3/4 oz) cream of chicken soup

1/2 cup pesto sauce

1/2 cup milk

Cook pasta according to package directions. Drain. Meanwhile, heat butter in skillet. Add chicken and cook until browned, stirring often.

Add soup, pesto sauce and milk. Heat to a boil. Cook over low heat 5 minutes or until done. Stir in pasta and heat through. Makes 4 servings.



Please think about joining the NAR in the upcoming year.

FLIGHT LOG

Gettysburg 50's Weekend Demo Launch, Saturday, June 9, 2001

Fl#	Name	Manuf.	Model	Motor	Result
1	Ivan Barnsley	Scratch	Flying Jenny	Estes A8-3	Good Flight
2	Ivan Barnsley	Scratch	Chips&Soda	Estes C6-5[2]	Good Flight
3	Ivan Barnsley	Scratch	Leftovers&Ideas	FSI D18-4	Unknown
4	Ivan Barnsley	Scratch	Upscale Spaceman	Estes C6-3	Good Flight
5	Ivan Barnsley	Scratch	Upscale Sprite	Estes B6-4	Good Flight
6	Ivan Barnsley	Scratch	Leftovers&Ideas	Estes C6-3[1] B6-4[2]	GF
7	Ivan Barnsley	Estes	ARCAS	Estes B6-4	Good Flight
8	Ivan Barnsley	Estes	Big Bertha	Estes C6-5	Good Flight
9	Ivan Barnsley	Scratch	Huey,Duey&Louie	Estes C6-7,B6-6,A8-3	GF
10	Ivan Barnsley	Scratch	Get The Point	Estes C6-7,C6-3	GF
11	Ivan Barnsley	Scratch	Vanguard	Estes B6-4	Good Flight
12	Ivan Barnsley	Scratch	HummerEstes	D12-5	Good Flight
13	Ivan Barnsley	Scratch	6 X Upscale Quark	Aerotech F37S	Good Flight
14	Ivan Barnsley	Scratch	2.88 X Upscale Quark	Estes A8-3	Good Flight
15	Ivan Barnsley	Scratch	Flapper	Estes D12-3	Good Flight
16	Ivan Barnsley	Scratch	Leftovers&Ideas	Estes C6-3,A8-3	GF
17	Ivan Barnsley	Scratch	Hummer	Aerotech E15-4	Lawn Dart
18	Ivan Barnsley	Estes	Sky Winder	Estes C6-3	Good Flight
19	Ivan Barnsley	Estes	SPER	Estes C6-5	Unstable
20	Ivan Barnsley	Scratch	Upscale Mars Snooper	Estes D12-5	Good Flight
21	Ivan Barnsley	Scratch	Money For Nothing	EstesD12-0,A8-3,A8-5	GF
22	Ivan Barnsley	Estes	Big Bertha	Estes C6-5	Good Flight
23	Ivan Barnsley	Estes/Scratch	Atlas-Score	Estes D12-0,D12-3	Unk
24	Ivan Barnsley	Estes	Thor Agena B	Estes B6-4	Good Flight
25	Dale Greene	Estes	Maxi Alpha	Estes D12-3	Good Flight
26	Dale Greene	Estes/NCR	Big Brute	Estes F62-6	Good Flight
27	Dale Greene	Estes	Fat Boy	Estes B6-4	Good Flight
28	Dale Greene	Estes/NCR	Big Brute	Estes F62-4	Good Flight
29	Dale Greene	Estes	V-2	Estes D12-3	Good Flight
30	Dale Greene	Estes	Maxi Alpha	Estes D12-5	Good Flight
31	Dale Greene	Estes/NCR	Big Brute	AT G40-7	Good Flight
32	Dale Greene	Estes	Big Bertha	Estes B6-4	Good Flight
33	Chris Ha	Estes	Wizard	Estes B6-4	Separation
34	Chris Ha	Estes	Alpha	Estes A8-3	Good Flight
35	Zachary Ha	Quest	Big Betty	Quest B6-4	Ejected
36	Zachary Ha	Estes	Snitch	Quest C6-0	Good Flight
37	Zachary Ha	Estes	Wizard	Estes A8-3	Good Flight
38	Zachary Ha	Scratch	Mom's Creation	Estes 1/2A3-4	Good Flight
39	Tom Ha	Estes	Big Daddy	Estes D12-7	Lawn Dart
40	Tom Ha	Estes	Cherokee D	Estes D12-7	Lawn Dart
41	Tom Ha	Scratch	One and One	Estes B4-2	Good Flight
42	A. Hutchinson	Estes	Fat Boy	Estes B6-2	Good Flight
43	A. Hutchinson	Estes	Corkscrew	Estes C6-5	Good Flight
44	B. Hutchinson	Scratch	Double Boy	Estes D12-3	Good Flight
45	B. Hutchinson	Scratch	SD	Estes A8-3	Good Flight
46	B. Hutchinson	PSC	N-41	Estes D12-3	Good Flight
47	S. Hutchinson	Scratch	Boosted Sputnik	AT E30-4	Good Flight
48	S. Hutchinson	THOY	Wren	Estes D12-3	Good Flight
49	S. Hutchinson	Scratch	Boosted Sputnik	AT E30-4	Lawn Dart
50	S. Hutchinson	Estes/NCR	Patriot	AT G80-7	Good Flight
51	Gregg Martell	Estes	Fat Boy	Estes C6-5	No Chute
52	Gregg Martell	Aerotech	Initiator	AT F40-7	Lawn Dart
53	Gregg Martell	VBR	Extreme 24	Estes D12-5	Good Flight
54	Gregg Martell	Estes	Fat Boy	Estes C6-5	Good Flight

Sunday, June 10, 2001

1	Ivan Barnsley	Estes	Venus Probe	Estes	C6-5[3]	Good Flight
2	Ivan Barnsley	Scratch	Gemini-Titan	Estes	B6-4	Good Flight
3	Ivan Barnsley	Estes	Red Storm	Estes	A8-3	Good Flight
4	Ivan Barnsley	Scratch	Leftovers&Ideas	Estes	B6-0,B6-6	Good Flight
5	Ivan Barnsley	Estes	Firestreak	Estes	A8-3	Good Flight
6	Ivan Barnsley	Scratch	Chips&Soda	Estes	A8-3[4]	Good Flight
7	Ivan Barnsley	Scratch	Huey,Duey&Louie	Estes	A8-3[3]	Good Flight
8	Ivan Barnsley	Scratch	Hummer	AT	E15-4	Good Flight
9	Ivan Barnsley	Scratch	Screwy	Estes	A8-3	Good Flight
10	Ivan Barnsley	Scratch	Upscale Gyroc	Estes	A8-3	Good Flight
11	Ivan Barnsley	Scratch	Auction Block Special	AT	G104M	Good Flight
12	Ivan Barnsley	Scratch	WRESAT	Estes	D12-5	Good Flight
13	Ivan Barnsley	Estes	Starlight	Estes	B6-4	Good Flight
14	Ivan Barnsley	Scratch	Flapper	Estes	D12-3	Good Flight
15	Ivan Barnsley	Scratch	Get The Point	Estes	C6-7,C6-3	GF
16	Ivan Barnsley	Scratch	Upscale Sprite	Estes	A8-3	Good Flight
17	Ivan Barnsley	Scratch	Flying Jenny	Estes	A8-3	Good Flight
18	Ivan Barnsley	Scratch	Flying Jenny	Estes	A8-3	Good Flight
19	Ivan Barnsley	Scratch	6 X Upscale Quark	AT	F62S	Good Flight
20	Ivan Barnsley	Scratch	1/35 Little Joe	Estes	C6-3	Good Flight
21	Ivan Barnsley	Estes	Mercury-Redstone	Estes	D12-3	Good Flight
22	Ivan Barnsley	Scratch	1/72 Mercury-Redstone	Estes	1/2A3-2	Good Flight
23	Ivan Barnsley	Estes	Big Bertha	Estes	A8-3	Good Flight
24	Ivan Barnsley	Scratch	1/35 Juno-1	Estes	D12-5	No Chute
25	Ivan Barnsley	Scratch	Leftovers&Ideas	Estes	B6-4[2]	Good Flight
26	Dale Greene	Estes/NCR	Big Brute	Estes	F62-6	Good Flight
27	Dale Greene	Estes	V-2	Estes	D12-3	Separation
28	Dale Greene	Estes/NCR	Big Brute	Estes	F62-4	Good Flight
29	Dale Greene	Estes	Maxi Alpha	Estes	D12-5	Good Flight
30	Dale Greene	Estes/NCR	Big Brute	Estes	F62-4	Good Flight
31	Dale Greene	Estes	Fat Boy	Estes	C6-5	Good Flight
32	Dale Greene	Estes	Maxi Alpha	Estes	D12-3	Good Flight
33	Dale Greene	Estes	Big Bertha	Estes	C6-5	Good Flight
34	Dale Greene	Estes	Explorer-1	Estes	C6-5	awn dart
35	Dale Greene	Quest	Nike-Smoke	Quest	C3-3	Good Flight
36	Chris Ha	Estes	Fat Boy	Estes	C6-5	ood Flight
37	Chris Ha	Scratch	Mom's Creation	Estes	1/2A3-4	Good Flight
38	Chris Ha	Estes	Snitch	Quest	C6-0	Good Flight
39	Chris Ha	Custom	Totally Tubular	Estes	A8-3	Good Flight
40	Chris Ha	Estes	Maverick	Estes	1/4A3-3	Good Flight
41	Maria Ha	Scratch	B Superroc	Quest	B6-4	Good Flight
42	Maria Ha	Scratch	B Superroc	Quest	B6-4	Good Flight
43	Maria Ha	Scratch	Mom's Creation	Estes	1/2A3-4	Good Flight
44	Tom Ha	Edmonds	Deltie	Estes	1/2A3-2	Good Flight
45	Tom Ha	Scratch	Egglofter	Apogee	C6-4	Good Flight
46	Zachary Ha	Scratch	Eggy	Estes	C6-5	Good Flight
47	B. Hutchinson	Estes	Fat Boy	Estes	C6-3	Good Flight
48	B. Hutchinson	Estes	Fat Boy	Estes	C6-3	Good Flight
49	B. Hutchinson	Scratch	Treelander	Estes	A3-4	Good Flight
50	B. Hutchinson	Scratch	Double Boy	Estes	D12-3	Good Flight
51	S. Hutchinson	Estes	Fat Boy	Estes	C6-3	Good Flight
52	S. Hutchinson	PSC	N-41	Estes	D12-3	Good Flight
53	S. Hutchinson	Scratch	Sputnik	AT	E15-4	ood Flight
54	Gregg Martell	Estes	Fat Boy	Estes	C6-5	Good Flight
55	Gregg Martell	VBS	Extreme 24	Estes	D12-3	Good Flight
56	Gregg Martell	THOY	Jaeger	AT	F40-7	Unknown
57	E. Rohrbach	Estes	Fat Boy	Estes	C6-3	Good Flight
58	E. Rohrbach	Estes	Fat Boy	Estes	C6-3	Good Flight
59	E. Rohrbach	Estes	Fat Boy	Estes	C6-3	Good Flight
60	E. Rohrbach	Estes	Big Dawg	Estes	A8-3	Good Flight

NASA Panel Endorses Scaling Back the ISS

20 December 2001

CAPE CANAVERAL, Fla.

The NASA Advisory Council is endorsing the idea of scaling back the international space station program, saying the huge cost overruns "cannot be excused and must not be ignored. Despite the technical successes in orbit, "the viability of the entire international human spaceflight enterprise is being undermined by a loss of confidence in NASA's ability to exercise adequate management and cost discipline," the council's chairman Charles Kennel, wrote in a letter to NASA dated Wednesday. The NASA Advisory Council is a standing body of experts that offers guidance to the space agency. Last month, an independent task force on space station's budget problems suggested that NASA reduce the station work force and number of shuttle flights and reorganize station management to get costs under control. overruns are in the billions; NASA has yet to determine exactly how many billions. Kennel said the management deficiencies identified by the task force must be resolved and will require major restructuring.

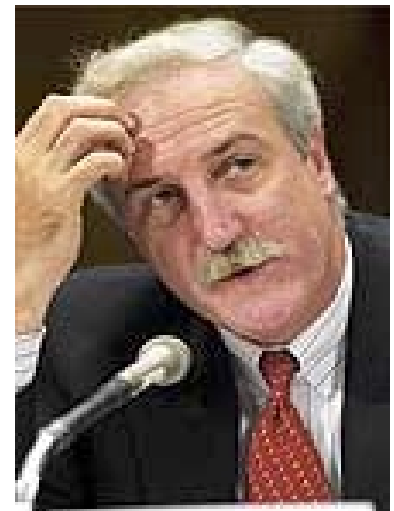
The advisory council recommended that NASA focus for the next two years on a reduced space station, big enough for just three residents. That is how many people are living up there now. No commitments to expand the space station should be made until NASA has regained public confidence, the council added. A lifeboat and living quarters necessary to accommodate six or seven astronauts already have been shelved by NASA, at the Bush administration's insistence. The advisory council suggested that NASA continue to fund such components over the next two years, just in case the nation decides to move forward with plans for a bigger and better space station. The council also said NASA has failed to make its scientific priorities clear and should do so immediately. "Given this lack of clarity," Kennel wrote, "it is not surprising that there is little public understanding of why the United States is building" the station. NASA said it will have no comment until senior managers have a chance to study the recommendations fully. The Senate has yet to confirm Sean O'Keefe, deputy White House budget director, as NASA's next

administrator. Daniel Goldin stepped down in November.

Senate Confirms O'Keefe as NASA Administrator

22 December 2001

WASHINGTON -- The U.S. Senate confirmed the new of America's space program. The Senate late Thursday confirmed Sean O'Keefe as administrator of the National Aeronautics and Administration.



O'Keefe served as Navy secretary for Bush's father and gained a reputation for budget cutting while working at the Pentagon in the early 1990s under then-Defense Dick Cheney. He's been the deputy director of the White House Office of Management and Budget since March.

SOUTHERN PENNSYLVANIA AREA ASSOCIATION OF ROCKETRY
NATIONAL ASSOCIATION OF ROCKETRY SECTION 503
P.O. Box 127, Reamstown, PA 17567

All sport launches will be held at Cocalico High School, Denver, PA, unless noted.

JANUARY 2002

Sunday 6 Sport Launch, 1-5pm
Saturday 12 Workshop/Meeting- Ed Miller (APRIA, Lancaster) 9am - 1pm
Saturday 19 SPAAR Family Dinner (Elizabethtown) 6pm

FEBRUARY

Sunday 10 Sport Launch, 1-5pm
TBD SPAAR Family Trip to TBA
Saturday 16 Workshop/Meeting - George Beever (APRIA, Lancaster) 9am - 1pm

MARCH

Sunday 3 Sport Launch, 1-5pm
Saturday 9 Workshop/Meeting - Ed Miller (APRIA, Lancaster) 9am - 1pm
TBD SPAAR Family Trip to TBA

APRIL

Fri 5-Sun 7 NARCON 2002 (Austin, Texas) Hosted by AARG
Sunday 7 Sport Launch, 1-5pm
Saturday 13 OPOSSUM -6 Open Meet Hosted by NARHAMS
Friday 19 Business Meeting (APRIA, Lancaster) 7-9pm

MAY

Friday 17 Business Meeting (APRIA, Lancaster) 7-9pm
Sat 18-Sun 19 East Coast Regional Meet (ECRM-29) Hosted by NARHAMS
Sat 25-Mon 27 National Sport Launch () Hosted by TBA
Sunday 26 SPAAR Section Meet, 9am - 5pm

JUNE

Sat 8 - Sun 9 Eisenhower Launch
Sat 15-Sun 16 RAMTEC- 10, Hosted by SPAAR - Center Valley, PA
Friday 21 Business Meeting (APRIA, Lancaster) 7-9pm

JULY

Sunday 7 Sport Launch, 1-5pm
Friday 19 Business Meeting (APRIA, Lancaster) 7-9pm

AUGUST

Sat 3-Fri 9 NARAM 44 (McGregor, TX) Hosted by DARS
Sunday 4 Sport Launch, 1-5pm
Friday 16 Business Meeting (APRIA, Lancaster) 7-9pm

SEPTEMBER

Sunday 1 Sport Launch, 9am - 5pm
Friday 20 Business Meeting (APRIA, Lancaster) 7-9pm

OCTOBER

Saturday 12 Maryland Funny Meet Hosted by NARHAMS
Sunday 13 Sport Launch, 1-5pm
Sat 19- Sun 20 Steel City Smoke Trail Regional (Hosted by Pittsburgh Space Command)
Friday 25 B usiness Meeting (APRIA, Lancaster) 7-9 pm

NOVEMBER

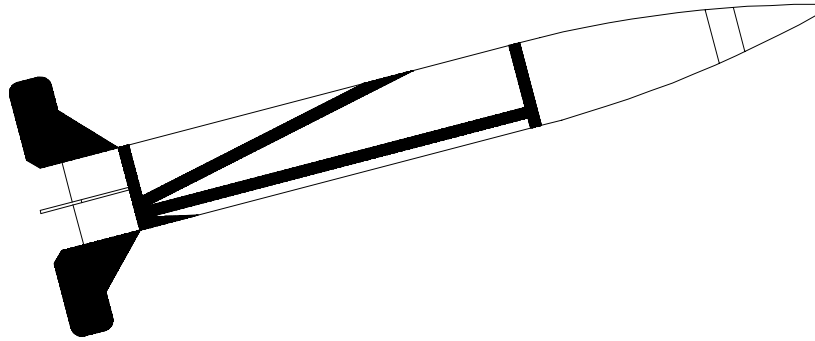
Sunday 3 SPAARSPAM, 1-5pm
Friday 15 Business Meeting (APRIA, Lancaster) 7pm - 9pm

DECEMBER

Sunday 8 Sport Launch, 1-5pm
Friday 20 Business Meeting (APRIA, Lancaster) 7pm - 9pm

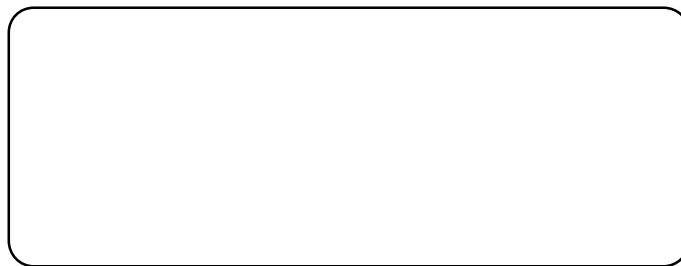
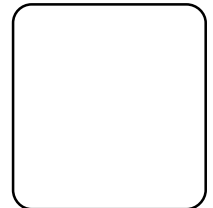
COUNTDOWN

Is the official Newsletter of S.P.A.A.R.
Southern Pennsylvania Area Association of Rocketry



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S.P.A.A.R.
P.O. Box 127
Reamstown, PA 17567



Please Make sure your membership is up to date
