

OFFICIAL NEWSLETTER OF
THE SOUTHWESTERN PENNSYLVANIA AREA ASSOCIATION OF ROCKETRY

VOLUME 9, ISSUE 1 JANUARY/FEBRUARY 1996

THE ANNUAL ALMANAC ISSUE

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The Countdown

Volume 9, Issue 1

January/February 1996

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

President: Dale Greene
Prefect: Ed Miller
Advisor: Glenn Feveryear
Editor: George Beever

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SCHEDULE

SUNDAY, MARCH 10: SPAAR SPORT LAUNCH, 1PM TO 5PM, COCALICO HIGH SCHOOL, DENVER. BRING YOUR OWN LAUNCH SYSTEM!!

SATURDAY, MARCH 16: BUSINESS MEETING/WORKSHOP, 9AM TO 1PM, HOMEDCO COMMUNITY ROOM, HARRISBURG AVE., LANCASTER.

SUNDAY, APRIL 14: SPAAR SPORT LAUNCH, 1PM TO 5PM, COCALICO HIGH SCHOOL, DENVER. CLUB LAUNCH SYSTEM AVAILABLE. EVENT: 1/2A STREAMER DURATION.

"GREETINGS EARTHLINGS"



FROM THE EDITOR:

Welcome to the annual Almanac Issue of the Countdown, our club's newsletter.

This issue has traditionally contained all sorts of useful [or sometimes, -less] information about the club, it's members, and their activities. It also gives us a chance to recap the previous year, and to take a look at where we want to go in the year ahead.

One of the very important functions that this issue serves is to welcome all of the new members that have joined SPAAR over the past few months, and to get them caught up on who we are, what we do, and how we do it.

And while we're at it, on behalf of all of us old-timers, to all of our new members, a hearty welcome! The year 1995 brought the greatest amount of growth in membership since the 1989-90 period. We sincerely hope that these new members are not just "One Year Wonders", who fly for one summer and then disappear forever. We want your input, we urge you to attend the monthly meetings, and we welcome your help and participation. This is your

club!

On the following pages, all members will find an updated copy of the club By-Laws, including a basic revision that will be voted on at the February meeting. You'll also find a copy of our range procedures. This at first may seem a bit superfluous, but it simply puts into words how we go about running the flying range. Our emphasis has been, and must stay on, safety.

Also in this issue is a membership roster, so you can see who else is a member and how to get in touch with them.

As is customary, The SPAAR Record Book lists all club performance records, and The Department of Useless Statistics lists all of the compiled data from last year's Sport Launches.

The growth of 1995 took many of us of the "old guard" by surprise, albeit a pleasant one. It's great to get new ideas and thoughts into the mix. Let's build on '95, and make 1996 SPAAR's best ever, by getting involved in club activities and sharing with the other members. Fly high in '96!

THE SPAAR DATA SHEET

OFFICIAL NAME: The Southern Pennsylvania Area Association of Rocketry/Tripoli Susquehanna #71.

DATE ORGANIZED: May, 1988.

DATE CHARTERED: Granted National Association of Rocketry Charter number 503 in October, 1988, as Section #503, SPAAR. Became a Tripoli Prefecture Number 71 in January, 1995.

CURRENT OFFICERS: Dale Greene, President, [717] 367-8646
 Glenn Feveryear, Advisor, [717] 456-5570
 John Yost, Vice-President, [717] 684-9519
 Gary Feveryear, Sec/Treasurer, [717] 456-5386
 Dan Weinhold, Member-At-Large, [717] 295-9049
 Ed Miller, Tripoli Prefect, [717] 865-5240

CURRENT NUMBER OF MEMBERS: 51

NUMBER OF ORIGINAL MEMBERS: 7

PRIMARY FLYING FIELD: Cocalico Sr. High School, Denver, PA.
 [Model Rockets up G power only]

RAMTEC: SPAAR hosts the annual RAMTEC Regional [Regional Aerospace Meet To Encourage Competition] over a weekend in mid-June. RAMTEC is held on the campus of Allentown College in Center Valley, PA.

MEETINGS: Held monthly, primarily at the Homedco Inc. Community Room, 240 Harrisburg Ave., Lancaster. See schedule for dates and times.

LAUNCHES: Generally one per month, year 'round; see schedule for dates and times.

DUES: \$10/year, 18 & up; \$7/year, 15,16,17; \$5/year, 14 and under. .

SPAAR Member Roster

| First Name | Last Name | Address | City | State | Zip Cod | Exp. Dat | Member No | Telephone No | NAR No |
|------------|--------------|-------------------------|----------------|-------|---------|----------|-----------|--------------|--------|
| Darrell C. | Asper | 11 N. Camp St. | Windsor | PA | 17366 | 12/31/95 | 69 | 717-246-9615 | |
| Jeffery | Aughey | 150 Speedwell Forge Rd. | Lititz | PA | 17543 | 5/30/96 | 66 | 717-626-1139 | |
| John | Balmer | 34 Birch Ave. | Mt. Gretna | PA | 17064 | 6/30/95 | 36 | 717-964-3820 | 32473 |
| Erin | Beever | 231 Weidmansville Rd. | Ephrata | PA | 17522 | 12/31/95 | 63 | 717-733-4170 | 44391 |
| George | Beever | 231 Weidmansville Rd. | Ephrata | PA | 17522 | 12/31/95 | 1 | 717-733-4170 | |
| Mark | Beever | 231 Weidmansville Rd. | Ephrata | PA | 17522 | 12/31/95 | 30 | 717-733-4170 | |
| Teresa | Beever | 231 Weidmansville Rd. | Ephrata | PA | 17522 | 12/31/95 | 20 | 717-733-4170 | |
| David | Bender | 1819 Quarry Rd. | Lebanon | PA | 17046 | 12/31/95 | 11 | 717-865-2998 | |
| Patrick | Boyle | 32 Whispering Pines | Birdsboro | PA | 19508 | 6/30/95 | 58 | 215-382-3087 | 53973 |
| Adam | Brandt | 915 Iron Bridge Rd. | Mt. Joy | PA | 17552 | 2/28/96 | 72 | 717-653-2262 | |
| Richard | Brandt | 915 Iron Bridge Rd. | Mt. Joy | PA | 17552 | 2/28/96 | 71 | 717-653-2262 | |
| Donald | Dunkle | 205 Ridge View Rd. | New Cumberland | PA | 17070 | 1/30/95 | 64 | | |
| Roger | Dwyer | 6074 Goshen Rd. | Newtown Square | PA | 19073 | 12/31/96 | 54 | 610-353-3919 | 54772 |
| Karl | Fehrenbac | 170 S. Spring Hill Rd. | Villanova | PA | 19085 | 12/31/95 | 43 | 610-525-6923 | 49644 |
| George | Fetter | 195 Musser Rd. | East Earl | PA | 17519 | 7/31/96 | 73 | 717-354-4785 | |
| Daniel | Feveryear | R.D. #1 Box 1-C | Delta | PA | 17314 | 12/31/95 | 61 | 717-456-5570 | 53641 |
| Gary | Feveryear | 93 Gemmill Rd. | Delta | PA | 17314 | 6/30/96 | 38 | 717-456-5386 | 24313 |
| Glenn | Feveryear | R.D. #1 Box 1-C | Delta | PA | 17314 | 12/31/95 | 9 | 717-456-5570 | 60263 |
| Renee | Feveryear | R.D. #1 Box 1-C | Delta | PA | 17314 | 12/31/95 | 56 | 717-456-5570 | |
| Rita | Feveryear | R.D. #1 Box 1-C | Delta | PA | 17314 | 12/31/95 | 46 | 717-456-5570 | |
| Kevin | Funk | 24944 Kaywood Ct. | Escondido | CA | 92026 | | | | 49969 |
| Doug | Gardei | R.D. #2 Box 2313 | Mohnton | PA | 19540 | 12/31/95 | 62 | | |
| Marcus | Good | 218 Fausnacht Dr. | Denver | PA | 17517 | 7/31/96 | 77 | 717-336-4835 | |
| Richard | Good | 218 Fausnacht Dr. | Denver | PA | 17517 | 7/31/96 | 76 | 717-336-4835 | |
| Dale | Greene | 244 Conoy Ave. | Elizabethtown | PA | 17022 | 12/31/95 | 18 | 717-367-8646 | 12464 |
| Rick | Hackman | 1500 Furnace Hill Pike | Lititz | PA | 17543 | 12/31/95 | 6 | 717-627-1598 | 47559 |
| Gerard | Hertzog, Jr. | 38 N. State St. Apt. 1 | Ephrata | PA | 17522 | 10/31/96 | 86 | 717-721-9487 | |
| Gerard | Hertzog, Sr | 38 N. State St. Apt. 1 | Ephrata | PA | 17522 | 10/31/96 | 85 | 717-721-9487 | |
| Fred | Hoke | 968 Jay St. | Lebanon | PA | 17046 | 10/31/96 | 24 | 717-272-2409 | |
| Mark | Kamide | 42 Eastbrook Drive | Ephrata | PA | 17522 | 1/31/96 | 70 | 717-733-4140 | |
| Douglas | McClearn | 704 N. 6th St. | Denver | PA | 17517 | 7/31/96 | 75 | 717-336-4001 | |
| William | McClearn | 704 N. 6th St. | Denver | PA | 17517 | 7/31/96 | 74 | 717-336-4001 | |
| Andrew | Miller | 31 Summers Dr | Stevens | PA | 17578 | 9/30/96 | 79 | 717-336-0692 | |

SPAAR Member Roster

| First Name | Last Name | Address | City | State | Zip Cod | Exp. Dat | Member No | Telephone No | NAR No |
|------------|-----------|-------------------------|--------------|-------|---------|----------|-----------|--------------|--------|
| Casey | Miller | 31 Summers Dr. | Stevens | PA | 17578 | 9/30/96 | 80 | 717-336-0692 | |
| Edward | Miller | 316 E. Queen St. | Jonestown | PA | 17038 | 12/31/95 | 10 | 717-865-6829 | 45776 |
| Mathew | Mussleman | 150 Speedwell Forge Rd. | Lititz | PA | 17543 | 5/31/96 | 67 | 717-626-1139 | 60667 |
| Michael | Raush | 1390 Franklin Rd. | Columbia | PA | 17512 | 9/30/96 | 82 | 717-684-6302 | |
| Ron | Raush | 1390 Franklin Rd. | Columbia | PA | 17512 | 9/30/96 | 81 | 717-684-6302 | |
| Bill | Rhoat | 797-A Academy Hts, Ave | Ephrata | PA | 17522 | 12/31/95 | 7 | 717-733-6916 | 43355 |
| Dick | Rhoat | 216 Spring Garden St. | Ephrata | PA | 17522 | 12/31/94 | 12 | 717-733-6916 | 48684 |
| Brian | Royer | 344 Duke St. | Ephrata | PA | 17522 | 12/31/96 | 89 | 717-733-3952 | |
| Alan | Rubright | 462 Estelle Drive | Lancaster | PA | 17601 | 9/30/96 | 59 | 717-898-0487 | |
| Gary | Rubright | 2821 Michener Dr. | Lancaster | PA | 17601 | 9/30/96 | 83 | 717-898-0218 | |
| William | Schafer | 9418 Dawn Drive | Baltimore | MD | 21236 | 2/28/96 | 65 | 410-256-4349 | |
| Alan | Shepard | 210 W. Franklin St. | Ephrata | PA | 17522 | 12/31/96 | 88 | 717-738-2740 | |
| Robin | Shepard | 210 W. Franklin St. | Ephrata | PA | 17522 | 12/31/96 | 87 | 717-738-2740 | |
| Patrick | Shinoda | 209 Oxford Rd. | West Chester | PA | 19380 | 9/30/95 | 68 | 610-436-1827 | 60290 |
| Carl | Snyder | 4610 Ballygar Rd. | Baltimore | MD | 21236 | 12/31/95 | 17 | 410-256-7499 | |
| Chris | Snyder | 4610 Ballygar Rd. | Baltimore | MD | 21236 | 12/31/95 | 16 | 410-256-7499 | |
| Mark | Snyder | 4610 Ballygar Rd. | Baltimore | MD | 21236 | 12/31/95 | 3 | 410-256-7499 | 46209 |
| Brandon | Tabbutt | 340 Dogwood Dr. | Hershey | PA | 17033 | 9/30/96 | 84 | 717-534-6759 | |
| David | Wascavag | 605 Georgetown Rd. | Wallingford | PA | 19086 | 7/31/96 | 78 | 610-874-7868 | |
| Daniel | Weinhold | 240 E. Frederick St. | Lancaster | PA | 17602 | 12/31/95 | 8 | 717-392-8231 | 43116 |
| John | Yost | 4112 Millbrook Rd. | Mt. Joy | PA | 17552 | 12/31/95 | 2 | 717-684-9519 | 31472 |

Greetings from Gary W. Feveryear

FLIGHT LOG

December 17, 1995

| # | FLYER | MODEL | MANUF | MOTOR[S] | RESULT |
|----|----------------|-------------------|-------|---------------|-------------|
| 1 | Brian Royer | Alpha III | Estes | E C6-5 | Good Flight |
| 2 | Brian Royer | Sparrow | Estes | E A10-3 | Good Flight |
| 3 | Brian Royer | Big Bertha | Estes | E C6-5 | Good Flight |
| 4 | Brian Royer | Mosquito | Estes | E A10-3 | Good Flight |
| 5 | Brian Royer | Sparrow | Estes | E A10-3 | Good Flight |
| 6 | Brian Royer | Big Bertha | Estes | E C6-5 | Good Flight |
| 7 | Rick Hackman | Lil Swoosh | SB | E A10-3 [3] | Good Flight |
| 8 | Rick Hackman | XR-77A | SB | E C6-5 | Good Flight |
| 9 | Rick Hackman | XR-76 | SB | E D12-5 | Good Flight |
| 10 | Rick Hackman | Lil Squeaker | SB | E 1/2A3-2 | Good Flight |
| 11 | Rick Hackman | Turbo Interceptor | SB | E A8-3 | Good Flight |
| 12 | Ed Miller | Eliminator | NCR | AT F50-4T | Good Flight |
| 13 | Ed Miller | Monocopter | SB | AT G12RCT RMS | Good Flight |
| 14 | Ed Miller | Wizard | SB | AT G64-7RMS | Good Flight |
| 15 | Ed Miller | Titan IIIIE | Estes | AT E18-4RMS | Good Flight |
| 16 | Ed Miller | Maxi-Alpha | SB | AT F24-7RMS | Good Flight |
| 17 | Mark Kamide | Saturn V | SB | E C6-5 | Good Flight |
| 18 | Mark Kamide | Broadsword | Estes | E D12-5 | Good Flight |
| 19 | Mark Kamide | Saturn 1B | Cox | E D12-5 | Good Flight |
| 20 | George Fetter | IRIS | SB | AT E15-4WL | Good Flight |
| 21 | George Fetter | V-2 | SB | E D12-5 | Good Flight |
| 22 | George Fetter | LOC IV | LOC | AT G80-7T | Good Flight |
| 23 | George Fetter | Astrobee C | AT | AT F40-4RMS | Good Flight |
| 24 | George Fetter | LOC IV | LOC | AT G80-7T | Good Flight |
| 25 | George Fetter | IRIS | SB | AT E15-4WL | Good Flight |
| 26 | Gerard Hertzog | Mini Patriot | Estes | E A10-3 | Good Flight |
| 27 | Gerard Hertzog | Phantom 4000 | NCR | AT F25-4WL | Good Flight |
| 28 | Gerard Hertzog | Mean Machine | Estes | E D12-5 | Good Flight |
| 29 | Gerard Hertzog | Wizard | Estes | E C6-5 | Good Flight |
| 30 | Gerard Hertzog | Starfighter | SB | E C6-5 | Good Flight |
| 31 | Gerard Hertzog | Icarus | Quest | E C6-5 | Good Flight |
| 32 | Gerard Hertzog | Alpha III | Estes | E C6-5 | Good Flight |
| 33 | George Beever | EOS | FSI | E D12-5 | Good Flight |
| 34 | George Beever | Pegasus | Estes | E A8-3 | Good Flight |

Models Flown:Motor Usage:

| | | | | | |
|----|----------------------|------|---|----|---------------------|
| 11 | Estes | 1/2A | 1 | G | 3 |
| 2 | NCR | A | 9 | | |
| 1 | Aerotech | B | 0 | 25 | Estes |
| 1 | Flight Systems, Inc. | C | 9 | 6 | Aerotech Single Use |
| 1 | Quest | D | 6 | 5 | Aerotech RMS |
| 12 | Scratchbuilt | E | 3 | | |
| 1 | LOC 1 | COX | F | 5 | |

SPAAR SPORT LAUNCH

December 17, 1995

You didn't think that a dusting [Ok, more like four inches] of snow a couple of days before launch time would stop the usual suspects from showing up, did you? In all, seven crazies braved the cold temperatures and white crust in order to get in a total of 34 flights.

George Fetter and Mark Kamide were busy flying Mountainside prototypes, in particular a 2.6" diameter IRIS. George flew it twice on Aerotech E15-4WL motors for nice flights. George also flew their 2.6" V-2, complete with yellow and black White Sands color scheme. George saved his most interesting flight for last, however, when he loaded up his LOC IV with an Aerotech G80-7 Blue Thunder. Nice, real nice.

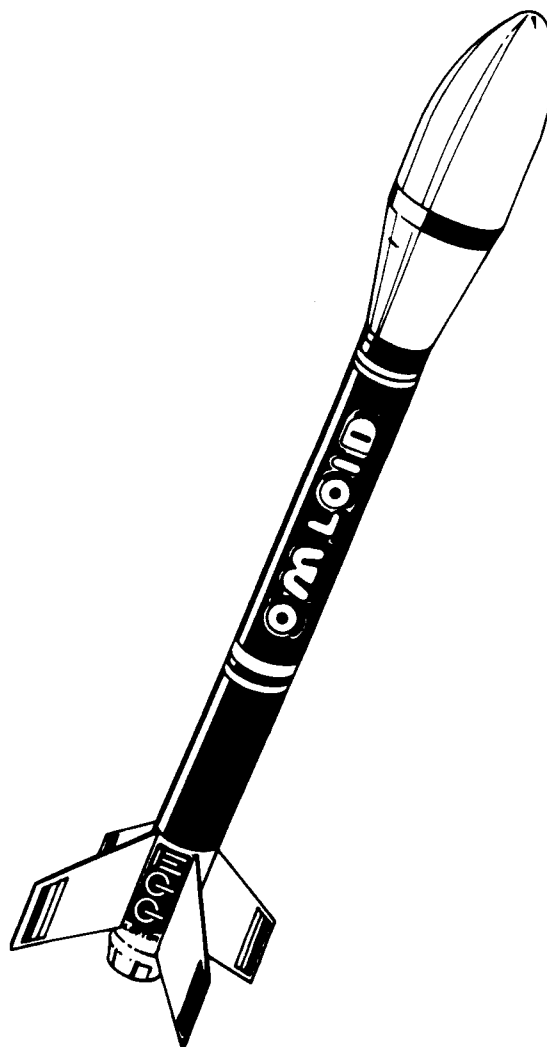
Rick Hackman flew his usual assortment of rather unique homebrews, most of which actually worked. The XR-76 and -77A looked like new ones.

Ed Miller brought out some old reliable, such as his Estes Titan IIIIE, North Coast Eliminator, and his scratchbuilt Alpha and Wizard scale-ups.

Another new member, Brain Royer, brought his son out to fly their Estes Alpha III, Sparrow, Big Bertha, and Mosquito. All made good flights, and it was hard to

tell who was more excited, Brian or the little guy!

Gerard Hertzog, senior and junior, flew their North Coast Phantom 4000 on an Aerotech F25-4 White Lightning for a great flight. The same for their Estes Mini Patriot, Mean Machine, Wizard, and Alpha III, as well as their Quest Icarus.



THE SPAAR RECORD BOOK

As Of February 1996

| <u>Event</u> | <u>Name</u> | <u>Model</u> | <u>Motor</u> | <u>Date</u> | <u>T/A/P</u> |
|-------------------|------------------------|--------------|--------------|-----------------|--------------|
| A Division | | | | | |
| 1/2A PD | Dave Bender | | 1/2A3-4 | 11/03/91 | 44.5s |
| A PD | Dave Bender | X-3 | A3-4 | 05/05/91 | 50.9s |
| B PD | Aaron Newman | Sizzler | B4-6 | 05/27/90 | 157.6s |
| C PD | Eric Marcella | | | 09/03/89 | 66.4s |
| D PD | Dave Bender | Gone | D12-7 | 10/14/90 | 94.6s |
| 1/2A SD | Dave Bender | X-1 | 1/2A3-2 | 05/05/91 | 22.9s |
| A SD | Dave Bender | | | 10/09/88 | 42.6s |
| B SD | Jas. Wingenroth | Viking | B6-4 | 10/14/90 | 40.0s |
| C SD | Dave Bender | Excalibur | C6-7 | 12/18/88 | 39.5s |
| 1/2A RG | Daniel Yost | | 1/2A3-2 | 05/26/91 | 26.4s |
| B ELD | Derek Yost | 2-Minute Egg | B6-2 | 05/26/91 | 17.2s |
| C ELD | Daniel Yost | | C5-3 | 10/09/88 | 34.1s |
| 1/2A HD | Daniel Yost | Mini RotaRoc | 1/2A3-2 | 09/05/93 | 26.0s* |
| A HD | Daniel Yost | Mini RotaRoc | A3-2 | 09/05/93 | 33.0s* |
| B HD | Daniel Yost | RotaRoc | B4-2 | 09/05/93 | 71.0s* |
| C BG | Aaron Newman | | C6-3 | 10/14/90 | 93.2s |
| A ALT | Doug Gardei | | A8-5 | 08/07/94 | 78.8m |
| D ALT | Lee Dwyer | Mean Machine | D12-5 | 07/19/92 | 166.5m |
| E ALT | Patrick Boyle | Cheetah | E15-7 | 07/19/92 | 276.6m |
| A PAY | Renee Feveryear | | A8-3 | 09/05/94 | 28.67m |
| B ELA | Renee Feveryear | | B6-4 | 05/28/95 | 42.9m |
| C ELA | Renee Feveryear | | C6-3 | 09 / 04 / 94 | |
| | 144.5m | | | | |
| B Division | | | | | |
| 1/2A PD | Bill Rhoat | | | 07/23/89 | 36.5s |
| A PD | Bill Rhoat | | | 08/14/88 | 27.6s |
| B PD | Bill Rhoat | | | 04/16/89 | 79.0s |
| C PD | Dave Wenrich | | | 08/14/88 | 33.9s |
| D PD | Bill Rhoat | | | 04/16/89 | 31.1s |
| E PD | Bill Rhoat | Onyx | E60-6 | 11/05/89 | 22.2s |
| 1/2A SD | Bill Rhoat | | | 07/23/89 | 36.5s |
| A SD | Bill Rhoat | | A3-4 | 07/22/90 | 85.7s |

| | | | | | |
|-------|----------------|----------|------|----------|--------|
| B SD | Bill Rhoat | | | 07/23/89 | 50.9s |
| A ALT | Aaron Newman | | A8-3 | 06/30/91 | 83.2m |
| B ALT | Dave Bender | | B4-6 | 08/07/94 | 265m |
| C ALT | Dave Bender | | C6-7 | 08/07/94 | 426m |
| B ELD | Bill Rhoat | | B6-2 | 05/27/90 | 10.7s |
| C ELD | Bill Rhoat | | C6-3 | 07/02/89 | 67.2s |
| B SRD | Bill Rhoat | | | 07/23/89 | 832.5p |
| C HD | Bill Rhoat | Rotaroc | C6-3 | 05/27/90 | 61.3s |
| B ELA | Matt Musselman | Aero-Owl | B6-4 | 05/29/94 | 39.6m |
| C ELA | Matt Musselman | Aero-Owl | C6-5 | 05/29/94 | 100m |

C Division

| | | | | | |
|---------|----------------|------------|----------------|-----------------|-------------|
| 1/4A BG | Glenn F | | 1/4A3-4 | 05/23/92 | 25.8s |
| 1/2A BG | Glenn F | | 1/2A3-2 | 07/23/89 | 71.5s |
| A BG | Glenn F | Vulture | A3-2 | 07/02/89 | 84.3s |
| B BG | Glenn F | Fly Baby | B4-2 | 09/02/90 | 112.3s |
| C BG | Fred Hoke | HXP-1 | C6-3 | 05/27/90 | 83.7s |
| D BG | John Yost | D-Light | D12-3 | 09/02/90 | 67.3s |
| 1/2A HD | Glenn F | | 1/2A3-4 | 09/05/93 | 61.0s* |
| A HD | Glenn F | | A3-4 | 09/05/93 | 166.0s* |
| B HD | Glenn F | Rose-A-Roc | B4-4 | 09/05/93 | 139.0s* |
| C HD | Ed Miller | AeroCopter | C6-3 | 05/24/92 | 197.7s@ |
| D HD | George Beever | Yost--Roc | D12-3 | 05/29/94 | 112s |
| E HD | John Yost | Yost-A-Roc | E15-4 | 08/12/90 | 115.0s |
| 1/4A PD | Glenn F | | 1/4A3-4 | 05/03/92 | 41.9s |
| 1/2A PD | Glenn F | Perihelion | 1/2A3-4 | 07/02/89 | 258s |
| A PD | George Beever | | A3-4 | 09/02/90 | 125s |
| B PD | Dale Greene | | B4-6 | 07/02/89 | 184.9s |
| C PD | Dale Greene | | C6-7 | 08/13/89 | 125.2s |
| D PD | Ed Miller | | D12-5 | 07/02/89 | 120s |
| E PD | Bob Balogh | V-2 | E6-4 | 09/03/89 | 104.7s |
| F PD | George Beever | Aerobee-Hi | F25-6 | 08/12/90 | 83.4s |
| G PD | Bob Balogh | | G40-7 | 08/13/89 | 138.4s |
| 1/4A RG | George Beever | | 1/4A3-2 | 05/24/92 | 16.1s |
| 1/2A RG | Glenn F | | 1/2A3-2 | 05/30/93 | 55.0s* |
| A RG | Glenn F | Vulture | A3-2 | 09/01/90 | 109.8s |
| B RG | Glenn F | Gull | B4-2 | 10/30/88 | 154s |
| 1/4A SD | Glenn F | | 1/4A3-4 | 05/03/92 | 41.9s |
| 1/2A SD | Glenn F | | 1/2A3-4 | 09/03/95 | 139s |

| | | | | | |
|-----------------|------------------------|---------------|----------------|-----------------|---------------|
| A SD | George Beever | Perihelion | A3-6 | 09/15/91 | 132.3s |
| B SD | Glenn F | | B4-6 | 08/12/90 | 168.5s |
| C SD | Bob Balogh | | C6-7 | 07/22/90 | 208s |
| D SD | Dale Greene | | D12-7 | 08/13/89 | 52.3s |
| E SD | Ed Miller | | E25-10 | 07/22/90 | 106s |
| F SD | Ed Miller | | F25-12 | 07/22/90 | 138.5s@ |
| G SD | Ed Miller | | G25-10 | 07/22/90 | 181.6s@ |
| 1/2A SRA | Glenn F | | 1/2A3-4 | 05/28/95 | 460pts |
| B SRA | Gary Feveryear | | B6-4 | 09/04/94 | 865pts |
| 1/2A SRD | Glenn F | | 1/2A3-2 | 07/22/90 | 233pts |
| A SRD | George Beever | | A3-4 | 05/27/90 | 415pts@ |
| B SRD | Glenn F | | B4-4 | 07/23/89 | 486pts |
| C SRD | Dick Rhoat | | C6-3 | 09/03/89 | 533pts |
| A PAY | Glenn Feveryear | | A3-4 | 09/04/94 | 110.9m |
| 1/2A ALT | Glenn Feveryear | ALT131 | 1/2A3-4 | 09/03/95 | 163m |
| A ALT | Rick Hackman | | A8-3 | 08/07/94 | 81.2m |
| B Alt | Alan Rubright | | B4-4 | 09/13/92 | 184.6m |
| C ALT | John Balmer | | C6-5 | 08/07/94 | 147.4M |
| D Alt | Ed Miller | | D13-4 | 05/10/92 | 173m |
| E Alt | George Beever | Maxi-Alpha | E18-7 | 07/19/92 | 269.9m |
| F ALT | George Beever | Primero | F25-6 | 08/07/94 | 355.7m |
| G ALT | Gary Feveryear | Big Brute | G64-7 | 08/07/94 | 465.5m |
| B ELA | Glenn Feveryear | EGG!#1 | B7-6 | 09/03/95 | 106m |
| C ELA | Gary Fevryear | B-Liner | C6-5 | 09/04/94 | 172.6m |
| B ELD | Ed Miller | Streamliner | | 05/26/91 | 83.8s |
| C ELD | Glenn F | Aero-Owl | C6-3 | 10/09/88 | 156s |
| D DELA | Glenn F | | D21-7 | 05/24/92 | 294m |

NOTES ON CLUB RECORDS:

@ = US Record [NAR]

NEW RECORDS IN BOLD

Longest Standing Club Performance Records:

A Division: 1/2A SD, Derek Yost, & D PD, Daniel Yost, 07/03/88;
 B Division: A PD, Bill Rhoat, & C PD, Dave Wenrich, 08/14/88;
 C Division: C ELD, Glenn Feveryear, 10/03/88.

TO SET A CLUB RECORD:

A club performance record may be set or broken at any SPAAR Sport Launch or contest. Simply make a notation on your Flight Card that you wish the flight to be considered for a club record. If it is a duration event, it is the flyer's responsibility to see that the flight is timed. Altitude events are obviously restricted to those launches that the club altitude tracking equipment is available.

Please keep in mind that your model doesn't have to be a super high-tech competition model in order for you to set a club record. For that matter, some of the events that we keep performance records for are not recognized NAR events. Some examples are E, F and G Parachute Duration. We do it "just for fun"...which, the last time I checked, was the whole reason for flying rockets anyway! Some of these records are getting pretty old, and are screaming to be broken. Let's take a shot at them in '96!

THIS 'N THAT

Has Cox been bought up by Estes? Yes, according to what George Fetter gathered off of the 'puter... Don't forget that the monthly meetings and Winter Workshops are combined this year at HOMEDCO. Check your schedule for times and dates... News from Mountainside Hobbies: that rather large object is a 4" diameter V-2, which is about ready to undergo prototype flight testing; look for a kit soon. Available now from Mountainside is recovery wadding, \$2.35 for about 5 ton bag. Oh, OK, it's not really five tons, but it should last forever... After one snow-out, the Family Dinner was held this past February 3. About 20 members and their families attended at the Kountry Kitchen in Lancaster. Door prizes included a vintage Estes Alpha Starter kit [Daniel Feveryear]; an ARV Condor [Dale Greene]; an Estes Manta kit, won by Deb Yost; and a videotape of the 1995 SPAAR launches, won by Rita Feveryear. In addition, Mark Kamide of Mountainside Hobbies made sure that everyone walked away with a prize, by donating enough Estes Mosquito and Tornado kits to go around. Thanks, Mark & Cindy!... Now it can be told: yes, several SPAAR die hards did show up at the scheduled January 6 Sport Launch. The launch was held from 1PM to 5PM, smack dab in the middle of the great Blizzard of '96. The only difficulties arose when John Yost did an impromptu impersonation of Cosmo Kramer after he lit an A8-3 in his shorts to keep warm ["Shoulda' used a dash-zero motor! Those dern ejection charges sting!"], and when George Beaver took John up on his triple-dog dare and struck his tongue on Ed Miller's blast deflector. They don't call me 'Ol Composite Breath for nothing!

Yes, boys and girls, it's time once again for the annual.....

DEPARTMENT OF USELESS STATISTICS

-or-

What we fly, how often we fly it,
and what we put in the other end
to make it go up.

Flights by Date:

01/22/95 18
02/19/95 44
03/19/95 36
05/28/95 19*
06/25/95 88
07/19/95 74
09/03/95 126
10/01/95 95
11/24/95 46
12/17/95 34

Total 580

* sport flights only

Types of Models Flown:

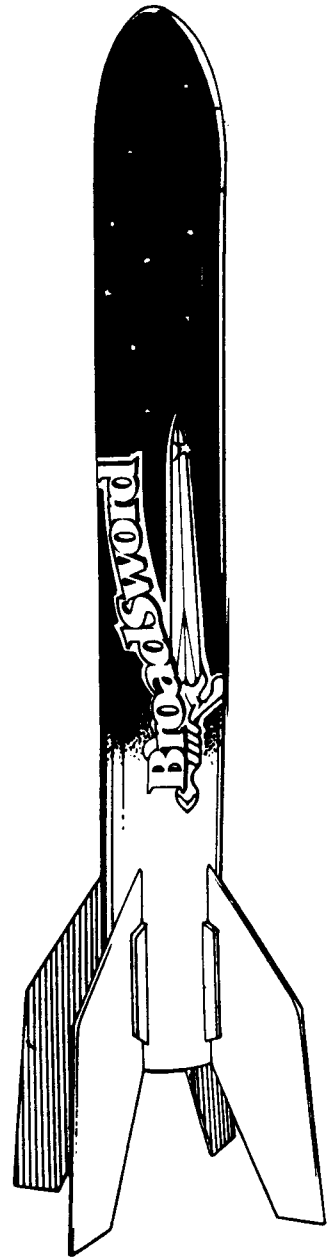
223 Estes
5 Custom Rocket Co.
23 Quest
5 Flight Systems, Inc.
3 THOY
18 Aerotech
1 AAA
6 LOC/Precision
6 Qualified Competition
22 North Coast Rocketry
7 Launch Pad
1 MRC
2 MPC
1 ORI
1 HobbyLab
1 Design
2 Unknown
84 Scratchbuilt

Motor Usage:

| | | | |
|-----|----------------------|-----|---------|
| 435 | Estes | 5 | 1/4A |
| 53 | Aerotech Single Use | 23 | 1/2A |
| 46 | Aerotech RMS | 87 | A |
| 6 | Flight Systems, Inc. | 98 | B |
| 1 | Vulcan | 152 | C |
| 7 | Apogee/Estes | 140 | D |
| 1 | Rocketflight | 34 | E |
| | | 61 | F |
| | | 19 | G |
| | | 1 | Unknown |

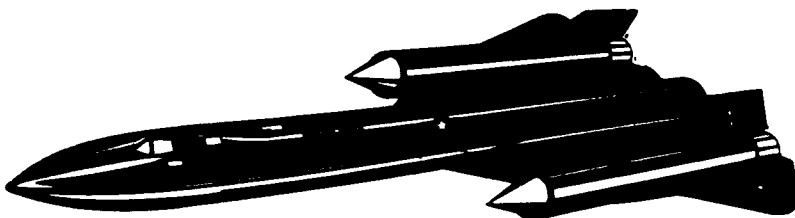
Failures:

3 Estes C5-3
1 Estes E15-4
2 Aerotech G80
1 Aerotech F24
1 Rocketflight F101



FLIGHTS PER MEMBER, 1995

| | | | | | |
|----|-----------------|----|----------------|----|-----------------|
| 6 | Mark Beever | 44 | Doug Gardei | 41 | Mark Kamide |
| 5 | Matt Musselman | 37 | Rick Hackman | 17 | Bill Rhoat |
| 5 | Gary Feveryear | 3 | Rita Feveryear | 20 | Glenn Feveryear |
| 41 | Ed Miller | 22 | Dale Greene | 43 | George Beever |
| 1 | Ryan Schafer | 4 | Tim Rickenback | 15 | Bill Schafer |
| 47 | George Fetter | 41 | Gerard Hertzog | 2 | Josh Schafer |
| 17 | Dan'l Feveryear | 5 | Darrell Asper | 3 | Josh Rubright |
| 17 | Gary Rubright | 2 | John Yost | 17 | Mike Rausch |
| 10 | Dwayne Doutrich | 1 | Kevin Kapp | 7 | Drew Kibler |
| 2 | Logan Kibler | 5 | Dave Tabutt | 2 | Kevin`Tabutt |
| 10 | Brandon Tabutt | 22 | Marcus Good | 7 | Doug McClearen |
| 12 | Casey Miller | 2 | Josh Snyder | 2 | Ron Rausch |
| 2 | Cindy Kamide | 8 | Bill McClearen | 6 | Andy Miller |
| 12 | Rich Good | 5 | Alan Rubright | 1 | Steve Biers |
| 5 | Nate Minnich | 2 | Ben Young | 4 | Jess Stauffer |
| 6 | Jeff Aughrey | 3 | Ed Garcia | 6 | Brian Royer |



COMING UP IN '96

During 1996, SPAAR will once again sponsor a full schedule of activities.

As the schedule shows, there will be Winter Workshops in January, February and March, all on Saturdays after the monthly business meetings. Please take note, however, that in April the meetings revert back to Friday evenings.

At the Workshops, feel free to bring whatever you are currently working on. It's also a nice way to catch up on what your buddy is working on, too.

A number of NAR competition events will be flown at our monthly Sport Launches this year. On April 14, the event will be **1/2A Streamer Duration**. It will be flown in accordance to NAR rules, as if it were a real contest. May 5 will see **B Eggloft Duration**, June 30 **A Rocket/Glider**, July 14 **1/2A Parachute Duration**, and on August 4 **D Altitude**. The prizes available will be various kits. If you've wanted to try contest flying, here's your chance. There will be plans for models, as well as notes and hints on strategies in upcoming issues. Take a shot at it! You may find it's something you'll like.

Speaking of contests, SPAAR will host the RAMTEC-4 Regional over the weekend of June 15 & 16 at Allentown College. The

events will be: **B Streamer Duration**, **C Helicopter Duration**, **D Dual Eggloft Altitude**, and **Sport Scale**. Of course, sport flying is welcome all weekend. Make plans to come on up and join us for a weekend of competition and sport flying.

One of our sister clubs in Maryland, NARHAMS, will host the East Coast Regional Meet over the weekend of April 13-14. The contest is held in Middletown, MD., with the following events: **B Helicopter Duration**, **1/2A Boost/Glide**, **4 X A Cluster Altitude**, and **Plastic Model Conversion**.

On Sunday, May 26, we will host something a bit different: the SPAART-2 Record Trials. Come on out and try to set a new NAR performance record. We held SPAART-1 in July 1990, which was a lot of fun. The same should hold true for the '96 version.

In November comes SPAARSPAM, in which we combine two of our favorite things: rockets and food! It's a tailgate party and rocket launch combined. It's a tradition that goes back to 1989, but bad weather forced a cancellation in '95.

As usual, there should be enough here for everyone's tastes. Come on out and have some fun!

THE SOUTHERN PENNSYLVANIA AREA ASSOCIATION OF ROCKETRY

Membership Application

Name _____ Address _____

Phone _____ Age _____ Date of Birth _____

NAR # _____ Tripoli # _____

I have been flying rockets for _____ years. I have not yet flown a model rocket _____.

DUES: 18 years of age or older: \$10 per year.

15,16,17 years of age: \$7 per year.

14 and under: \$5 per year

Family Plan: Oldest member joins at full price, all other family members 1/2 price; one issue of the Countdown per family.

Return this form to: SPAAR, PO Box 127, Reamstown, PA 17567.

THE NATIONAL ASSOCIATION
OF ROCKETRY

TRIPOLI ROCKETRY ASSOCIATION
[HIGH POWER ROCKETRY]

For more information on the
NAR, write:

For more information on the
TRA, write:

NAR Headquarters
PO Box 177
Altoona, WI 54720
1-800-262-4872

Tripoli Rocketry Assn.
PO Box 339
Kenner, LA 70063-0339

SOUTHERN PENNSYLVANIA AREA ASSOCIATION OF ROCKETRY

NATIONAL ASSOCIATION OF ROCKETRY SECTION 503

JANUARY

Sunday 7 Sport Launch - 1 pm - 5 pm
Saturday 13 Spaar Family Dinner - 6 pm
Saturday 20 Workshop/Meeting - Homedco, Lancaster - 9am - 1 pm

FEBRUARY

Sunday 11 Sport Launch - Ground Hog Day - 1 pm - 5 pm
Saturday 17 Workshop/Meeting - Homedco, Lancaster - 9am - 1 pm

MARCH

Sunday 10 Sport Launch - 1 pm - 5 pm
Saturday 16 Workshop/Meeting - Homedco, Lancaster - 9am - 1 pm

APRIL

Saturday 13 - Sunday 14
East Coast Regional Meet (ECRM), Hosted by NARHAMS - Middletown, MD.
Sunday 14 Sport Launch - 1/2A Streamer Duration Contest - 1 pm - 5 pm
Friday 19 Business Meeting - Homedco, Lancaster - 7 pm - 9 pm

MAY

Sunday 5 Sport Launch - B Eggloft Duration Contest - 1 pm - 5 pm
Friday 17 Business Meeting - Homedco, Lancaster - 7 pm - 9 pm
Sunday 26 SPAAR/NAR Record Trials - 9 am - 5 pm

JUNE

Saturday 15 - Sunday 16
RAMTEC - 4, Hosted by SPAAR - Center Valley, PA.
Friday 21 Business Meeting - Homedco, Lancaster - 7 pm - 9 pm
Sunday 30 Sport Launch - A Rocket Glide Duration Contest - 3 pm - 7 pm

JULY

Sunday 14 Sport Launch - 1/2A Parachute Duration Contest - 3 pm - 7 pm
Friday 19 Business Meeting - Homedco, Lancaster - 7 pm - 9 pm

AUGUST

Friday 2 - Saturday 10
NARAM, Hosted by Launch Crue - Evansville, IN.
Sunday 4 Sport Launch - D Altitude Contest - 3 pm - 7 pm
Friday 16 Business Meeting - Homedco, Lancaster - 7 pm - 9 pm

SEPTEMBER

Sunday 1 SPAAR High Power Launch - 9 am - 5 pm
Friday 20 Business Meeting - Homedco, Lancaster - 7 pm - 9 pm
Sunday 29 Sport Launch - 1 pm - 5 pm

OCTOBER

Friday 18 Business Meeting - Homedco, Lancaster - 7 pm - 9 pm
Sunday 20 Sport Launch - 1 pm - 5 pm

NOVEMBER

Sunday 3 SPAARSPAM - 1 pm - 5 pm
Friday 15 Business Meeting - Homedco, Lancaster - 7 pm - 9 pm
Friday 29 Sport Launch - Thanksgiving Day - 9am - 1pm

DECEMBER

Sunday 15 Sport Launch - Christmas - 1 pm - 5 pm
Friday 20 Business Meeting - Homedco, Lancaster - 7 pm - 9 pm

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

