



Challenger 7

MEMORIAL LAUNCH

JANUARY 25, 1987

LAUNCH RACK

VOL. U, ISSUE 32

January 1987

Jack Sarhage, Editor
875 River Road
Piscataway, NJ 08854

The LAUNCH RACK is the official publication of the Garden State Space-Modeling Society (Section 439 of the National Association of Rocketry) and is published monthly (except for combined issues in May/June and July/August) for the enlightenment and entertainment of the membership.

Others interested in receiving this publication may do so for the yearly subscription rate of \$3.00. Please send this fee to the editor.

The Editor invites and encourages all to submit articles, photographs, plans, etc. to be included.

The deadline for material to be published in the next issue is January 27, 1987.

Your Status:

- () Your subscription ends with this issue.
- () If and "X" appears in this space it is time to think about renewing your GSSS membership. It expires on _____!



Editor's CLIPPINGS

1987 HERE WE COME!!!!

On page 4 of this issue of the LAUNCH RACK you will find the results of the planning session attended by the club's officers. You will see a schedule of activities in the works at this time.

Shown are the dates of all the Open Board Meetings, Sports Launches, Contest (there are three) and events that are to be flown, field trips and displays or demonstration launches that are in the works.

We hope that by getting this information to you this early you will be in a better position to plan your calendar and take part in more of the club's functions.

There will be more changes to the newsletter, but they are small and help in editing and delivering each issue on time. The computer (TANDY 1000 SX) will be used to take over more of these duties.

As in the past you are invited to participate in getting this publication out with your articles, photos, plans, etc.

Last, but not least A HAPPY NEW YEAR TO EACH OF YOU!!!!

MEETING NOTICE

The next Open Board Meeting will be held on January 27 at the home of Ye Ole Editor, 875 River Road, Piscataway.

PRESIDENT'S MESSAGE

BY
BOB ZABRISKIE



First I would like to wish everyone a Healthy and Happy New Year.

This month I am asking for information on the success or failure that you may be having with the new Estes Solar Ignitors. These are the ones with the red tips. Lots of folks are complaining of numerous misfires. Let me know or better yet let Estes know what your experiences have been using them.

In this issue we have included a Schedule of Activities that we have planned for 1987 so far. Be sure to mark these dates down on your calendar. It would be nice to see some NEW faces at the launches, demos, etc.

See you all at our January sports launch. It is being held in memory of the Challenger and the crew of 7.

COUNTDOWN (5-4-3-2-1) a calendar of upcoming events.....

JANUARY

- 25 Sports Launch at North Branch Park, Bridgewater Twp. Challenger 7 Memorial Launch.
- 27 Open Board Meeting, 7:30 PM at 875 River Road, Piscataway.

FEBRUARY

- 14 Sports Launch at Contest sponsored by Viking Rocket Society. Events: B International Parachute Duration (B IPD), Open Spot Landing. Contact: Jamie Schulze, 1310 Asbury Rd., Richmond, VA 23229 for info.
- 22 Sports Launch at North Branch Park, Bridgewater Twp. (Frost-bite II)
- 24 Open Board Meeting, 7:30 PM. Location to be advised.

MARCH

- 15 GODDARD III (Open Meet) Events: 1/2 A IPD, A B/G, A ISD, B ELD, B HD, C SRD, Predicted Duration. NAR Sanctioned. Entry Fee: Div A & B \$3.00 before 3-1-87 \$6.00 after

Continued on page 7



SECTION NEWS

DECEMBER SPORTS LAUNCH

By Bob Zabriskie

It was a typical early winter day at North Branch Park with hundreds of Canada Geese flying overhead in beautiful V formations, that met the eight GSSS members that came out for the cold, but fun day of flying.

Ted Rebetje was there with his Double Shuttle (photo to the left). This impressive D-powered home built booster and double orbitors really work.

(Photo by Steve Pantuck)

Another regular was Dr. Bob, back from his honeymoon in Aruba. Bob was working on his Gold NARTREK requirements so Greg Zsidisin and Jack Sarhage were helping him track some flights. Steve Pantuck and Mark Cascella were on hand with their fleets of vintage models. Joyce (of peanut butter cookie fame) flew successfully her first model rocket, a Flying Saucer. Yours truly was trying out some new designs. Bruce Canino came up from Vineland to see what was going on.

Two visitors also came out in the persons of Dan Domina (see the December issue of American Spacemodeling for Dan's exploits at NARAM-28) and Don Stankalis our from Long Island. Don asked GSSS to help with a demo launch in June as part of the dedication ceremony of the Air Museum at Mitchell Field Long Island.

YOUNG ASTRONAUTS PROGRAM (Bob Zabriskie)...I am very excited to announce that through the efforts of Jack Sarhage we are now an official chapter of the Young Astronauts Council. We hope to have this portion of the educational side of our GSSS activities in full swing by February.

SECTION LIBRARY...An idea by Bruce Canino was to form a library of newsletters and other material of interest to all GSSS members. A list of this information would be compiled and made available to anyone interested. Bruce Canino also volunteered to be our first librarian. Bruce would like to hear from anyone with material for this endeavor. Contact Bruce with what you would like to donate (before you send it) a 934 Alexander Drive, Vineland, NJ 08360.

Continued on page 6



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Bruce Benda watches his D-Region Tomahawk lift off (Photo S. Pantuck)

1987

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
OPEN BOARD MEETINGS	1-27-87	2-24-87	3-24-87	4-28-87	5-26-87	6-23-87	7-28-87	8-25-87	9-29-87	10-27-87	11-24-87	12-22-87
SPORTS LAUNCHES NORTH BRANCH PARK	1-25-87	2-22-87	X	4-26-87	5-30-87	X	T 7-25-87	T 8-29-87	T X	T 10-25-87	T 11-29-87	T 12-20-87
CONTESTS: DATE: TYPE: EVENTS:	/	/	GODDARD 3 3-15-87 OPEN	/	/	GSSS - 4 6-28-87 SECTION	/	/	TOISEE - 4 9-26+27-87 REGIONAL	/	/	/
CONTEST DIRECTOR: DR BOB KREUTZ 1301-A COMANCHE AVE. PT. PLEASANT, NJ 08742	/	/	1A IPD A B/G A ISD B ELD B HD C SRD PROD. DUR (56)	/	/	1A PD 1A SD B SRD 1A IB/G A HD SPOT LG. (42)	/	/	1A IPD 1A HD 1A SD 1A IB/G B SRD SPORT SCALE PLASTIC MOD CONV. (63)	/	/	/
FIELD TRIPS	/	/	/	PEARL RIVER M.D. ROC. SEM. 4/3-4/87	/	/	GODDARD SPACE FLT CTR. 7/19/87	WALLOPS ISLAND LAUNCH CRT 8/1/87.	/	/	/	/
DISPLAYS AND DEMONSTRATIONS	/	/	/	/	Y INDIAN GUIDES 5/3/87 PISCATAWAY ARSENAL 5/16/87	LINCOLN SCHOOL 6/5/87 MILLER AIR MUSEUM 6/6-7/87	/	/	/	/	/	/
NARAM - 29 ANAHEIM, CALIF.	/	/	/	/	/	/	/	8/2-7/87	/	/	/	/
FOR FURTHER INFORMATION CONTACT:	<u>SECTION ADVISOR</u> JACK SARNAKE 201-699-9456 875 RIVER ROAD PISCATAWAY, NJ 08854				<u>GSSS PRESIDENT</u> BOB ZABRISKIE 201-769-0943 123 DUER STREET MC. PLAINFIELD, NJ 07060				<u>GSSS VICE-PRESIDENT</u> CARL GUFONE 201-563-1575 6 TULL COURT MIDDLESEX, NJ 08846			

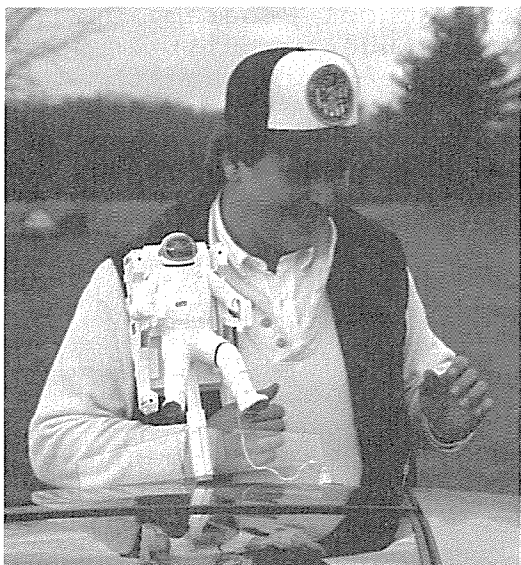
THIS EPISODE OF "IN SEARCH OF NEMESIS"
WILL NOT BE SEEN IN ORDER TO BRING YOU
THE FOLLOWING SPECIAL EDITION OF.....

STAR TRACK!!

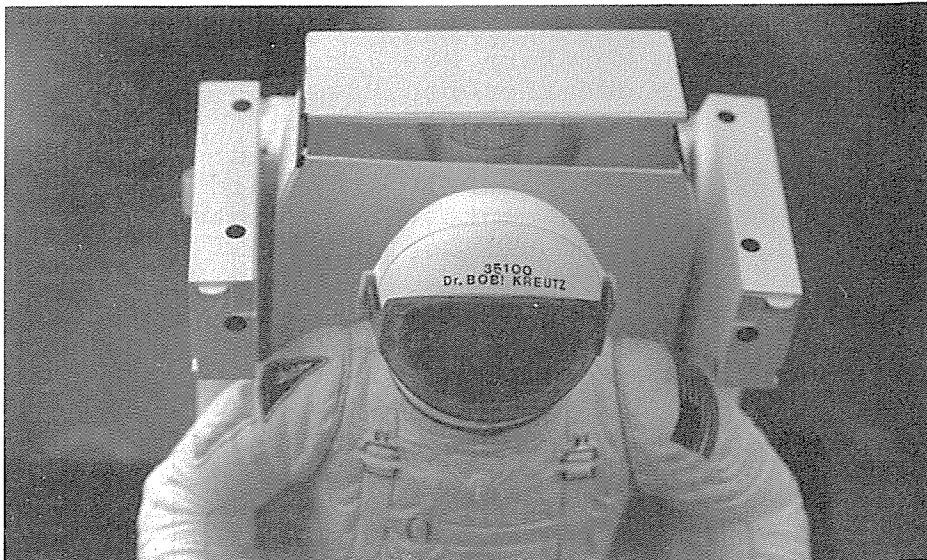
STARRING
BOB KREUTZ

CO-STARRING
TED REBETJE

DIR. OF PHOTO.
STEVE PANTUCK



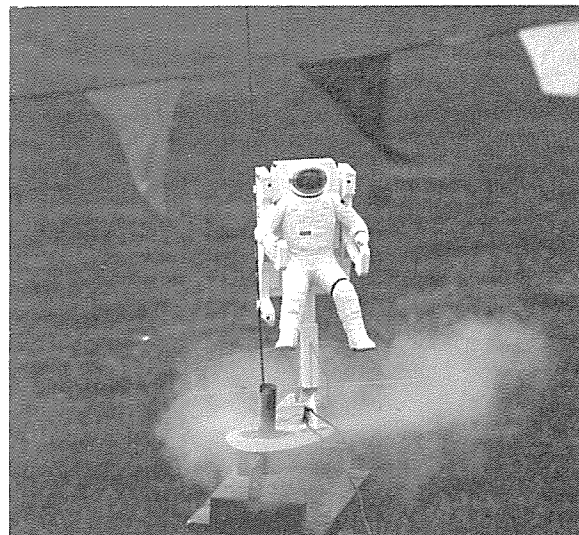
"OUR MISSION IS TO BOLDLY GO WHERE
NO MAN HAS GONE BEFORE."



"THAT'S EASY FOR YOU TO SAY, YOU DON'T HAVE AN
ENGINE STUCK.... ER, FOR A SEAT."



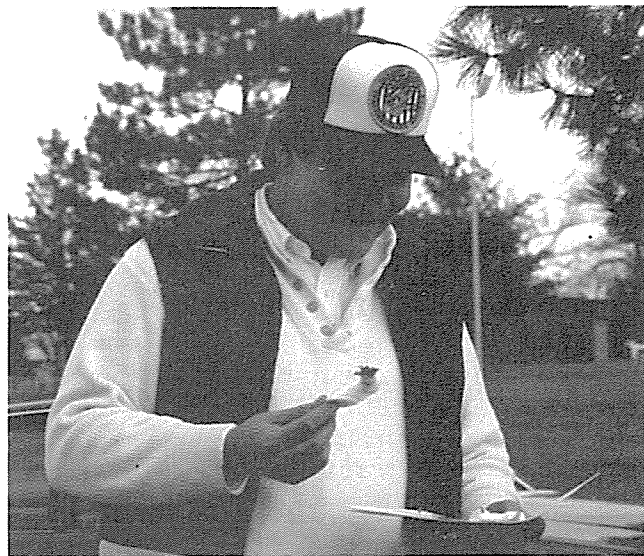
"LOOK! EVEN THE SAFETY OFFICER GIVES HIS
APPROVAL."



5-4-3-2-1 "O-O-O-O-OH!"



"GET ME OUTTA HERE. LOOK OUT FOR MY ARM DOWN
THERE."



"I DON'T UNDERSTAND IT.... ALL THE
FIGURES SAID IT WOULD WORK."

NEW MEMBERS...Now we've done it. We are happy to be able to introduce our first female member. I know you will all welcome Catherine Briggs-Boisvert from Leonia in Northern New Jersey. Catherine attended the Open House and after talking to GSSS members present joined. She is interested in competing, and when asked if she would attend the upcoming contest to compete her reply was, "I'm not coming down to compete, I'm coming down to win." Guys you have been warned. From Perth Amboy we would like to welcome a new Junior member Antonio Silva. And from West Caldwell we give a big HOWDY to Junior members Eddie Nugent and Douglas Squires. (You can read more on the last two in the coverage of the West Caldwell launch.

REQUESTS FOR NOMINATIONS FOR HONORARY MEMBERSHIPS...Twice a year we thank a person that is felt to have gone all out in their individual efforts to promote model rocketry. We invite you to nominate a person in your opinion meets the above requirement. This person should not be a member of GSSS. The person did not have to have helped GSSS in its growth or endeavors directly.

Your nomination should be sent IN WRITING, one page please, to either the President (Bob Zabriskie, 123 Duer Street, North Plainfield, NJ 07060) or the Section Advisor (Jack Sarhage, 875 River Road, Piscataway, NJ 08854). in order to be voted on at the January 27 Open Board Meeting.

WEST CALDWELL LAUNCH...It was windy (15-25 mph). It was cold (35-38 degree). The field was small (soccer field) and was marsh-like (it had been warm the past few days).

The scene above describes the conditions under which members, Arnie Klein, Manuel Mejia, Bob Zabriskie and "Ye Ole Editor" carried out the Student Launch on December 21 in West Caldwell.

We were asked, "How do we keep them out of the tree?"

Our reply was, "With a little luck."

Luck was with us for the most part. Out of 24 launches on 5 managed to decorate the surrounding foliage. It

(Continued next column)

was only a few days before Christmas after all.

The launch, was the end of the Model Rocketry class taught as part of West Caldwell's After School Program. During the 10-weeks the students built 2 rockets. One was the Viking and the second either a Cyclone or Sizzler.

A duration competition was held according to rocket type. Viking vs. Viking, Cyclone vs. Cyclone, etc. Winners were awarded memberships in GSSS and the total point winner an NAR membership to boot.

Winners were Doug Squires with the Viking (8.7 seconds). Doug's mother, Vicky was the capable and charming assistant during the semester.

Cyclone winner was Chris Armanto with 17-seconds. The Sizzler contest was the surprise of the day as two flights were over 20-seconds. Not bad for a rocket weighing 4-oz. on a 12-inch chute and only an A8-3 engine. Winner with 23-seconds, and overall top scorer of the day was Eddie Nugent.

The consensus of all attending was favorable. The GSSS members agreed that it was a lot of fun, but what else, when you are doing what you like to do...fly rockets!

SPACE NEWS NOTES

NASA announced that at there will be at least six satellites put into orbit using unmanned launch vehicles in 1987. Five from Cape Canaveral Air Force Station and One from Vandenberg AFB, California. The first is scheduled for February 19, 1987.

NASA says flights of the Space Shuttle will begin February 18, 1988 with that of the Discovery. It will have as its payload a TDRS.

The Hubble Space Telescope is scheduled for launch aboard the Atlantis on November 17, 1988. Other scientific payloads are: ASTRO 1 UV Telescope January 19, 1989, Magellan Venus probe April 25, 1989. Galileo Jupiter Probe or Ulysses Mars probe on November 1, 1989. Five flights are planned for 1988. Ten in 1989 and Eleven in 1990.

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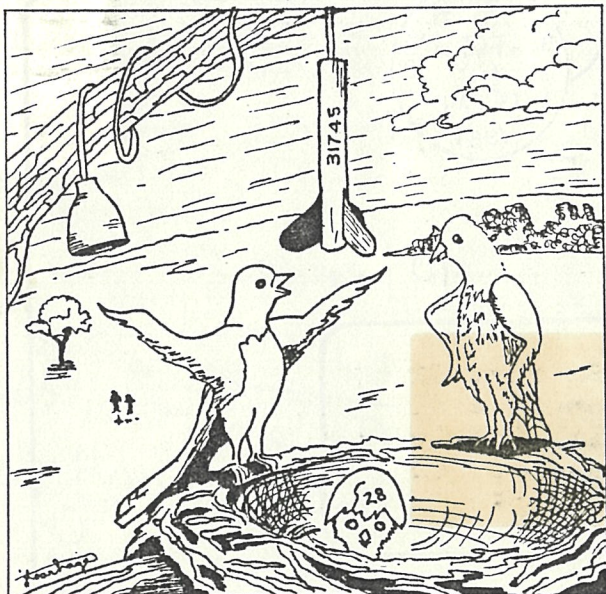
GARDEN STATE
SPACEMODELING SOCIETY
All-Season Rocketeer 1987

Name: _____

Month	Date	Witness
AN		
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PR		
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UL		
UG		
EP		
CT		
OV		
EC		

Approved by: _____
C & R Chairman

on easy award. Just make one flight
each month. Date it and have someone
sign it. Turn it in before 12-31-87.



LOOK, IT IS A SURPRISE TO ME,
TOO.

ENJOY MODEL ROCKETRY MORE BY
JOINING THE NATIONAL ASSOCIA-
TION OF ROCKETRY.

Space News Notes continued.....

A new launch vehicle, the Titan 4 is being developed by the Air Force. It will have the capability of lifting "shuttle sized" payloads into low earth orbit. Completion date is set for late 1988.

HISTORICAL LAUNCHES

By Bob Zabriskie

- 1-10-62 X-15 Rocket plane test flight.
- 1-11-61 BOMARC launched from Elgin AFB.
- 1-12-84 TALOS sounding rocket from Poker Flats, Alaska.
- 1-14-75 X-24 Rocket plane test flight from Edwards AFB.
- 1-17-63 NIKE-CAJUN launched from Wallops Island, VA.
- 1-21-60 LITTLE JOE III launched from Wallops Island, VA.
- 1-22-67 APOLLO 5 launched on a Saturn 5 (It was the first orbital test flight of lunar module.)
- 1-25-64 ECHO-2 launched.
- 1-28-48 V-2 from White Sands Missile Range
- 1-31-58 First US artificial satellite, EXPLORER I launched on JUNO I from Cape Canaveral.

COUNTDOWN continued.....

Div. C \$5.00 before 3-1-87, \$10.00 after 3-1-87. Contest Director: Bob Kreutz, 1301-A Comanche Ave., Pt. Pleasant, NJ 08742.

- 24 Open Board Meeting, 7:30 PM
Location to be advised.

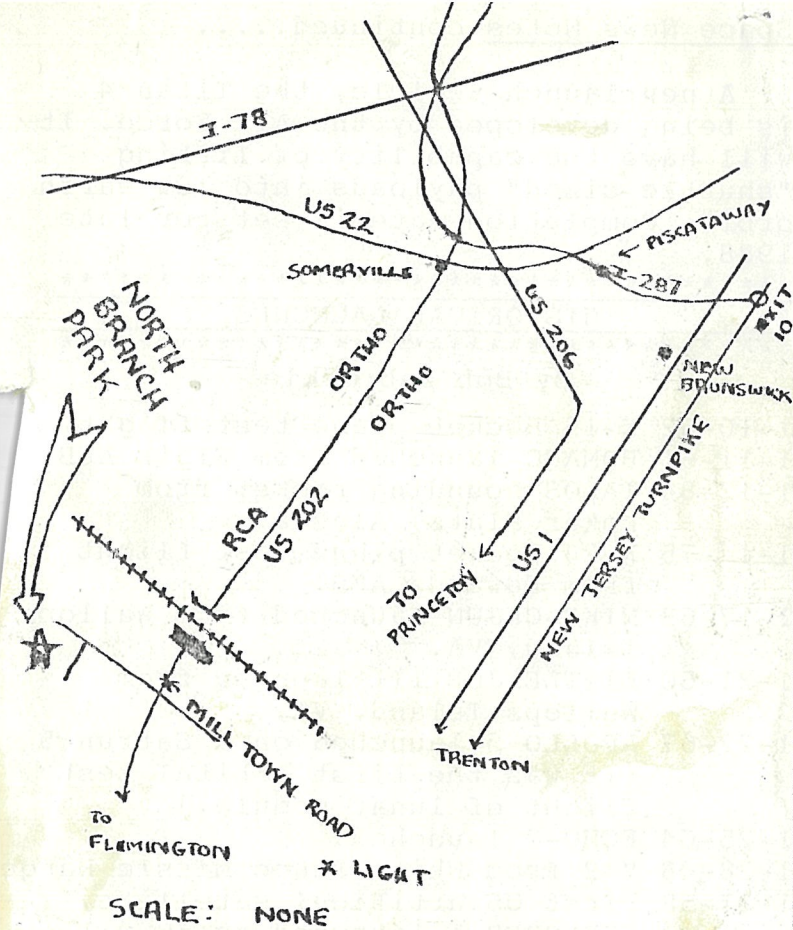
APRIL

- 3-4 16th Annual Pearl River (NY) Modroc Seminar. If you attended last year you will receive information. If not, contact Dick Nelson, Pearl River Middle School, 520 Gilbert Avenue, Pearl River, NY 10965. DON'T MISS THIS FOR A FULL WEEKEND OF FUN AND LAUNCHES.

- ?? ASTRO-5 Open Meet. Events will be announced. Contact: Jeff Vincent, Box 95, New Scotland, NY 12127.

- 26 Sports Launch, North Branch Park at Bridgewater Twp. (Springtime 1)

- 28 Open Board Meeting, 7:30 PM, Location to be advised.



APPLICATION FOR GSSS MEMBERSHIP

Name _____
 Address _____
 City _____ State _____
 Zip _____ Birthdate _____
 Are you an NAR member? _____
 If so, provide NAR number. _____

Membership Category (Check One)

- ☐ Junior (Under 16) \$4.00
- ☐ Leader (16 through 20) \$6.00
- ☐ Senior (21 or over) \$9.00

This is a (renewal) _____ (new) _____ application.

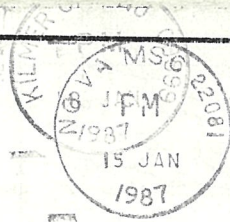
I pledge to abide by the Safety Code of the NAR/HIA in all my non-professional rocketry activities.

Signed _____ Date _____

Send this application along with check for dues to:

Karl Zabriskie, GSSS Secretary/Treasurer
 123 Duer Street
 North Plainfield, NJ, 07060

GARDEN STATE SPACEMODELING
 SOCIETY -- NAR SECTION #439
 c/o Jack Sarhage
 875 River Road
 Piscataway, NJ 08854-5549



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THE LAUNCH RACK

NEWSLETTER OF NEW JERSEY'S SPACEMODELING SOCIETY