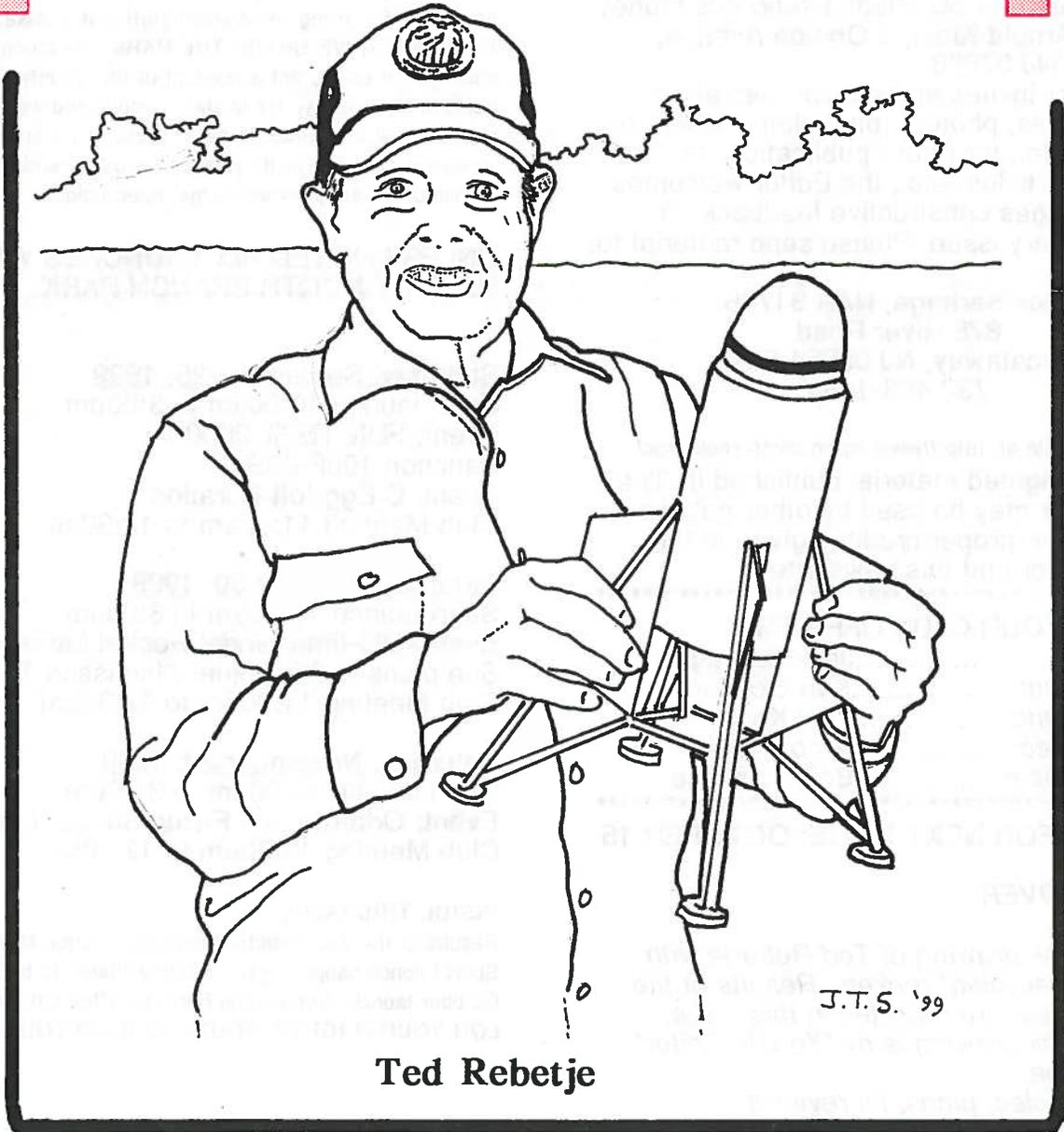


LAUNCH RACK

Journal of New Jersey's Oldest NAR Section

ISSUE 132(65)



Ted Rebetje

Memorial Meet Results

The Launch Rack

The Official Publication of The
Garden State Spacemodeling Society

SEPT/OCT 1999

ISSUE 132(65)

The *Launch Rack* is the official publication of the *Garden State Spacemodeling Society* (Section 439 of the National Association of Rocketry) and is published for the enlightenment and entertainment of its membership.

Others interested in receiving this publication may do so for the annual subscription rate of \$7.50 for 6 issues. Overseas subscriptions are \$17.50. Please send this money in USD to **Arnold Klein, 2 Oneida Avenue, Rockaway, NJ 07866.**

The Editor invites and encourages all to submit articles, photographs, plans, letters to the editor, etc., for future publication. In addition to articles, etc., the Editor welcomes and encourages constructive feedback on each and every issue. Please send material to:

**Jack Sarhage, NAR 31745
875 River Road
Piscataway, NJ 08854-5549
732 463-1484**

Visit our WEB site at: <http://www.agron.com/~rnee/gsss/>

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YOUR CLUB OFFICERS

President:Jack Sarhage
Vice-president:Ken Goddard
Vice-president:Kurt Kogel
Treasurer/Sec:Arnold Klein
Section Advisor:Bob Zabriskie

DEADLINE FOR NEXT ISSUE: OCTOBER 15

ON OUR COVER:

A pen and ink drawing of Ted Rebetje with one of his "recycled" rockets. Results of the Memorial Meet are reported in this issue.

Pen and ink drawing is by "Ye Ole Editor" Jack Sarhage.

I need articles, plans, kit reviews, building tips, cartoons, and/or drawings.

LAUNCH SCHEDULE

Anyone wishing to attend any GSSS activity should call the **GSSS Hotline 908 658-9417** the morning of, to verify the event is still on. If the event is cancelled, the recording will be updated at 9:00am.

A NOTE ON NORTH BRANCH PARK. Please keep in mind that the park and weather conditions dictate what we allow to fly. Just because a rocket is under the one pound limit, do not assume it is an automatic launch. If the RSO does not feel the model can be safely flown or recovered within the park's boundaries, it will not be flown regardless of the weight or impulse. If some other activity shows up and starts using adjoining fields, the RSO will reduce impulse for all flights. So, bring some small stuff just in case.

REMEMBER, WE SHARE THE PARK. We do not pay a fee and most of us are not a resident of that county. Rocket flying fields in New Jersey are in short supply, and we are protective of the fields we have. If you're unhappy with this limitation, then we invite you to help us in gaining legal access of privately owned, large, open fields.

UNLESS NOTED ALL LAUNCHES WILL BE HELD AT NORTH BRANCH PARK.

Saturday, September 25, 1999

Sport launch 10:00am to 3:00pm

Event: **FUN TEST 2000-I**

Sanction 1006-00S

Event: **C Egg-loft Duration**

Club Meeting 11:30am to 12:30pm

Saturday, October 30, 1999

Sport launch 10:00am to 3:00pm

Event: **Old-time Model Rocket Launch**

See plans in this issue. Also issue 131.

Club Meeting 11:30am to 12:30pm

Saturday, November 20, 1999

Sport launch 10:00am to 3:00pm

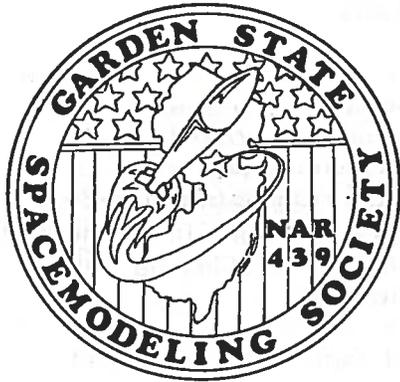
Event: **Odd-roc and Flying Saucer Launch**

Club Meeting 11:30am to 12:30pm

INSIDE THIS ISSUE:

Results of the Ted Rebetje Memorial Section Meet, July Sport Launch happenings, "Old-time Plans" to build for the October launch. Nomination Form for Club Officers.

LOG YOUR FLIGHTS. YOU'LL BE GLAD YOU DID!



News From Section 439

JUNE BUSTED OUT ALL OVER.....

Sultry is the one word that best describes the June launch on the 26th.

Sultry best describes the weather with temperatures in the 90's and humidity to match. Why regulars even looked forward to the arrival of the North Branch "breeze" to help. It did.

Sultry best describes the competition in the "Ted Rebetje Memorial" Section Meet. Though the number of entries was disappointing, at first, it turned out to be a blessing as you will see later in this report.

There were a total of 7 competitors; three in A Division, three in C Division and one team.

A detailed report was distributed at the July Sport Launch in the *Launch Day Extra* so we will only give highlights here.

Open Spot Landing: Division A was won by Daniel Flynn at 21.9 meters from the pin. The combined Division C and Team was won by yours truly, Ye Ole Editor. Using a "Big Bertha" that landed 4.9 meters from the pin.

1/2A Boost-glider: Alex Bruccoleri won the A Division on a technicality; Stephen Flynn had the longest flight, 32-seconds, but failed to return the B/G to the judges. Tom Whymark, C Division, won this event with his 99-second flight.

1/2A Parachute Duration: Alex Bruccoleri was the only A Divisioner and so was combined with the Hyperspace Team in this event because it "would be fairer". Alex's 18-second flight was good enough for a win and the Hyperspace Team scored a DQ for "no deployment of parachute". In C Division it was Robert Nee beating out Tom Whymark by 35 seconds.

A Streamer Duration: Alex Bruccoleri took first place in this event with his 92-second flight and Stephen Flynn was second with a

time of 81-seconds. Tom Whymark in the combined C and Team Division won with 137 second total and the Hyperspace Team was second with a total of 106 seconds.

FLIGHT POINT TOTALS ARE AS FOLLOWS:

Division A	
Alex Bruccoleri.....	344
Stephen Flynn.....	81
Daniel Flynn.....	72
Division C and Team	
Tom Whymark.....	300
Hyperspace Team.....	174
Robert Nee.....	154
Jack Sarhage.....	40

Sultry best describes the action in the launch area where 13 pads were set up instead of the usual 6 to accommodate, in the end, a total of 130-plus rocket flights.

GSSS played host to Boy Scout Troop 99 from Hillside, NJ. Working toward a Space Merit Badge the Scouts had built **X-Ray** (Estes 0834 to meet the "build and launch a model rocket" requirement.

Due to the short, very short, shock chord supplied by Estes approximately 98% of all flights ended with separations.

The "flight of the day" was of a model sent by Manuel Mejia, Jr. of Florida's THOR section. In the letter with the model Manuel writes, "I ask you to fly it at the Ted Rebetje Memorial Launch in June. It represents some of my latest building techniques in terms of recycled parts rocketry." He went on to advise that, "the rocket I sent you is no ordinary rocket. The last time it was launched, the person who ignited the motor was none other than Col. Joseph W. Kittinger (USAF Retired). Back in 1961, the Colonel set the current altitude record for skydiving--102,800 feet from a Skyhook Balloon. It took him 13 minutes and 45 seconds to land on earth."

June Launch Recap:

Total Number of Logged Flights***.....	66
Total Number of Pilots Logged in.....	19
Total Number of Engines Used.....	67

*** This figure does not include the 29 competition flights or the 35 Boy Scout flights. It also does not include several flights that

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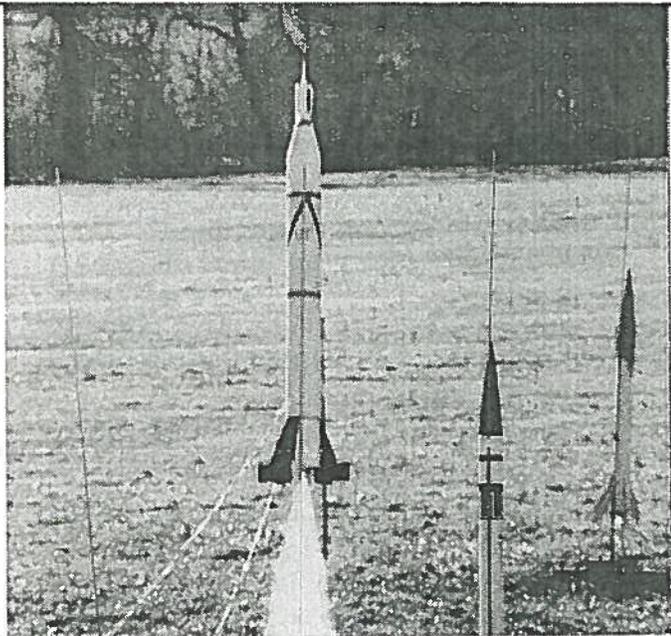
GSSS - Home of "Grass Roots" Model Rocketry

News from Section 439 continued.....

regular GSSS members failed to log in.
PLEASE LOG EACH FLIGHT IN.

Those Making 5 Flights or more:

Ryan Lally.....	7
Mike S(immons?).....	7
Mark Casella.....	6
Peter Menard.....	5
Robert Nee.....	5
Steve Pantuck.....	5



Photog Steve Pantuck captures a Jupiter-C™ during lift-off at North Branch Park. Just the thing for the July launch.

A TORRID AFFAIR or, a sport launch in July..

If sultry described our June launch, **torrid**, sums up the one in July. The field was "parched" to say the least, as were those in attendance.

With conditions perfect for fire, LCO Bob Zabriskie and RSO Jack Sarhage, took precautions from the beginning to be prepared for such an event. This proved wise because a re-loadable engine failure did result in a rocket catching on fire and igniting the grass near the launch pad. It was quickly controlled and put out.

And speaking of to "be prepared". GSSS member Bob Gill was certainly that as were the members of his Cub Scout Pack. Bob is the Assistant Cub Master. Each of the Cub

Scouts had built their own rocket and then was allowed to launch it using first and A engine, followed by a B and C in order to see the difference each engine makes.

One of the differences between this group of Scouts and those at the June launch was that hardly a separation of recovery device was observed. This was due to Bob's expertise and fore thought in having the Scouts discard the shock chord that came with the kit and supplying new ones of a longer length.

There were also many more parents and leaders in attendance; a sign of a well run and organized group.

This launch was also designated as commemorating the 30th anniversary of landing on the moon. An invitation was made to bring your Saturn model rockets to launch to celebrate. Steve Pantuck had two Saturn 5's and a Saturn 1b. "Ye Ole Editor" had to leave before these were flown. I did not see any other Saturn rockets on display.

Steve did fly a *Star Wars Death Star* to the delight of all.

Flight logs were not available when this was written and so no "recap" appears.

SAFETY COMES FIRST; August launch scrubbed.....

With the drought conditions worse than at the July launch, and two fires at that launch, the launch team made the decision to scrub the August launch.

There are those that would have held it anyway. But, GSSS is proud of its safety record and plan to keep it as it is.

FUN TEST 2000 Section Meets Approved.....

The Contest Year for 2000 began on July 1, 1999 and will end on June 30, 2000. To celebrate we will hold five (5) NAR Sanctioned "Section Meets" with one (1) event being flown as follows:

September 25, 1999:	C Egg-loft Duration
April 29, 2000:	½A Rocket-Glider
May 20, 2000:	½A Flex-wing Glider Duration.
June 24, 2000:	A Helicopter Duration
July 29, 2000:	½A Parachute Duration
	Multi-round

More new from Section 439 continued on next page.....

GSSS - Home of "Grass Roots" Model Rocketry

New From Section 439 continued.....

Not only can you win monthly prizes you will be winning "points" for the Section by competing in a NAR sanctioned contest.

NOTE: Dates shown for year 2000 are tentative and are subject to change.

"OLD-TIME" MODEL ROCKETS LAUNCH

At our October launch we will hold an "unofficial" old-time model rockets event. **Definition:** An "old-time model rocket" for this event is any model rocket design that was published and/or a commercially produced kit prior to December 31, 1972 (the last year Model Rocketry was published).

Classification: There will be two classes of "old-time model rockets".

1) Published designs: This includes any model rocket design published in a magazine, newsletter, book, "blue print", or the instructions included with a commercially produced kit. Documentation would be the original, or copy of, publication the design appeared including the date published.

2) Commercially produced kits: This is any model rocket built from and using the parts of the original kit. Documentation would be the kit itself, including instruction sheet and/or catalog showing the kit, or an ad in a publication showing the kit.

At this event each attendee may vote for their three favorite rockets. Winner will be the rocket earning the most votes.

To help you get started, we have published two designs this month that qualify under the "published designs" category. The plan for last month of the *Loadlifter 1A* also qualifies for this event.

NOTE: model rocket is defined as per the National Association of Rocketry "Model Rocket Safety Code" in effect at the time rocket was published or produced.

sky watch

Contributing Editor: *Robert Zabriskie*

SEPTEMBER

Mercury is not visible in September.

Venus is shining brightly in the Eastern

predawn sky, reaching its peak brightness at month's end.

Mars is visible all month in the Southwest sky close to the "star" *Antares*.

Jupiter rises around 10pm at the start of the month. But by month's end it rises around 8pm. Look for Jupiter in the Southwest sky about 4 hours after it rises.

Saturn will be rising about 1 hour after Jupiter and only one-tenth as bright to the lower left of Jupiter.

The Moon on the night of the 29th will occultate, or pass, in front of the star *Aldebaran*. (from the Arabic *al-dabaran* meaning "the follower")

OCTOBER

Mercury during the last 2 weeks of the month may be visible very low in the West Southwest sky.

Venus is the brilliant "star" in the morning sky. It rises about 4 hours before the Sun.

Mars is low in the Southwest sky at evening twilight.

Jupiter is high in the Southern sky around 11pm. It will be closest to Earth on the 23rd or in opposition. A fine sight in a telescope. You can see 4 of its moons with a 7 power binocular.

Saturn will rise about 1 hour later glowing pale gold. It is very impressive and will be in opposition in early November.

NOMINATIONS FOR OFFICERS DUE.....

Again we want to advise you that the present club's officers' terms are up at the end of this year. Per our by-laws Section 2.3, "Nominations, seconded, must be submitted to the Secretary/Treasurer by **October 15** in order to be published in the Society's official publication." The persons making the nomination and seconding it must both be

Continued next page.....

GSSS - Home of "Grass Roots" Model Rocketry

Nomination For Officers continued.....

members in good standing (read, "dues paid"). Nominations with a short bio will appear with the ballot in the November/December issue of **The Launch Rack**. You may nominate yourself or anyone you feel will be an asset to the Executive Board.

Club Officers are President, two Vice Presidents and a Secretary/Treasurer. They serve a two year term.

NOTE: We must have these officers to be a Section of the NAR and as a GSSS member it is your responsibility to elect them.

PLEASE NOTE THE NEW DEADLINE DATE OF OCTOBER 15.....don't know who the Secretary/Treasurer is? Arnold Klein, 2 Oneida Avenue, Rockaway, NJ 07866.

NOMINATION FORM

I would like to nominate the following GSSS members to serve as Club Officers.

PRESIDENT: _____

VICE-PRESIDENT: _____

VICE-PRESIDENT: _____

SECRETARY/TREASURER: _____

Nominated by: _____

Seconded by: _____

Date: _____

Nova

SKILL LEVEL 2

**HONORABLE MENTION JULY 1978
DESIGN OF THE MONTH CONTEST
BY GARNET KARVONEN
WEMBLEY, ALBERTA, CANADA**

PARTS LIST

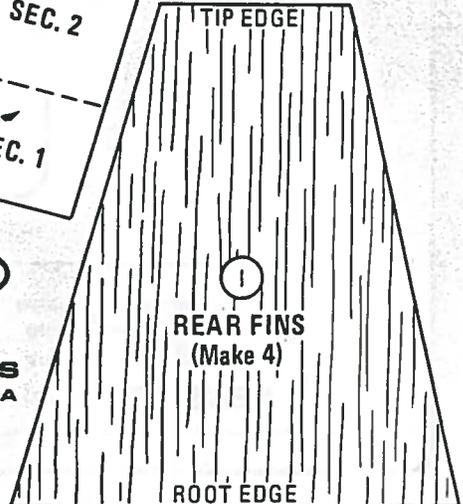
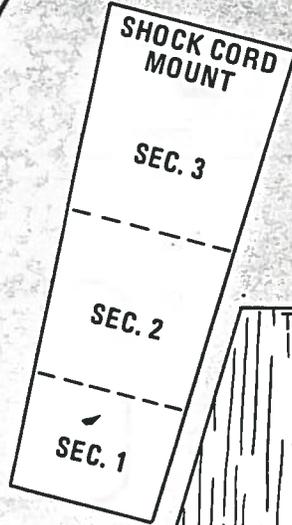
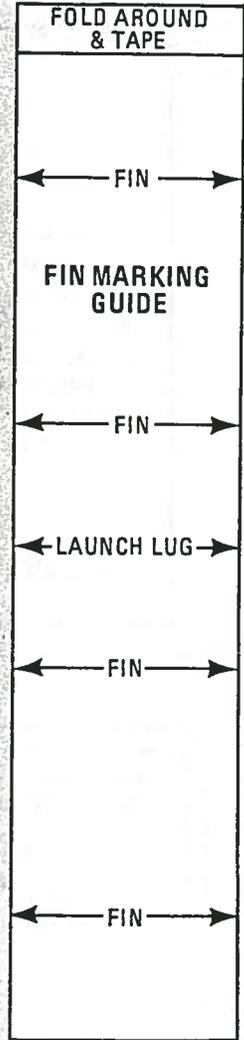
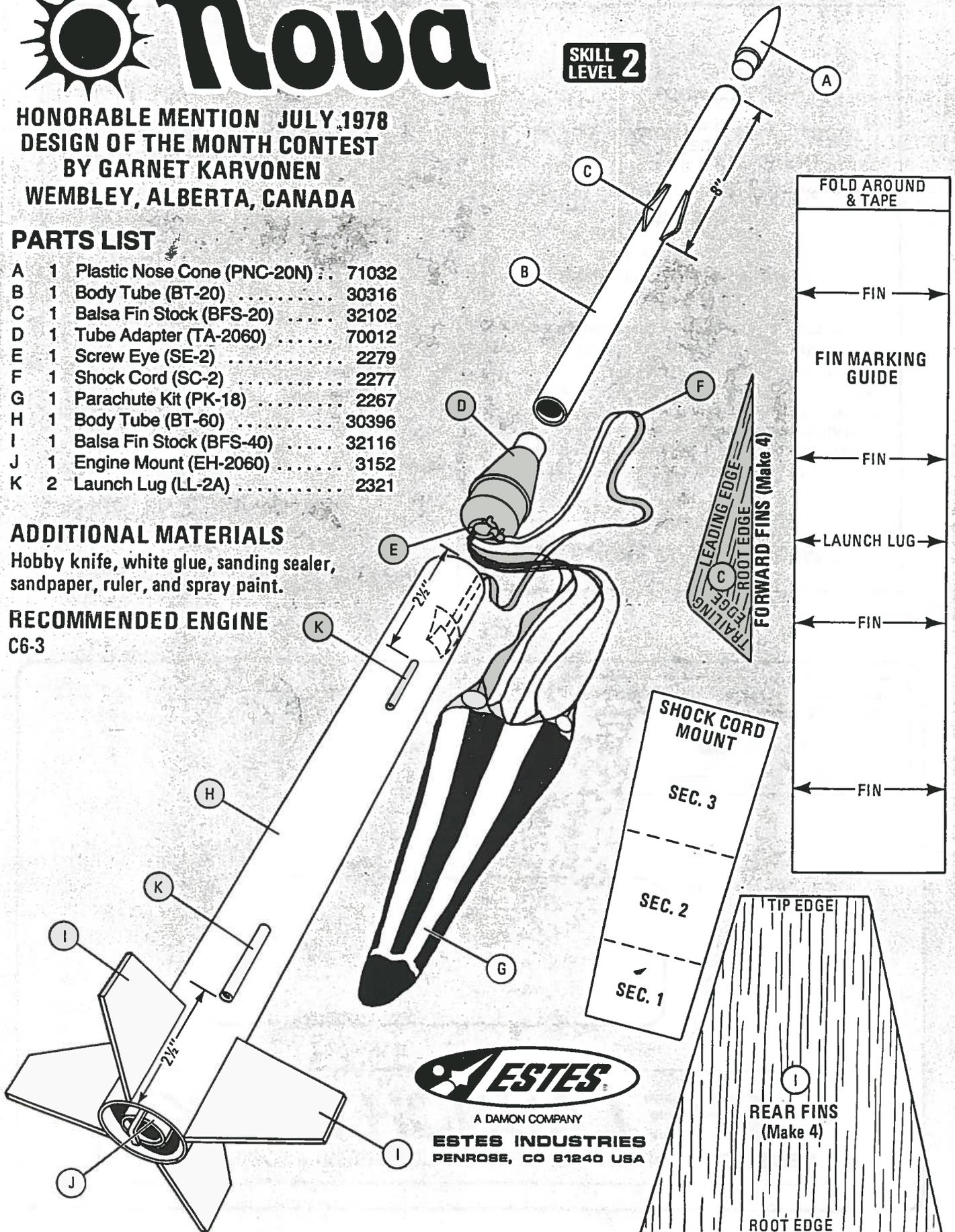
A	1	Plastic Nose Cone (PNC-20N) ..	71032
B	1	Body Tube (BT-20)	30316
C	1	Balsa Fin Stock (BFS-20)	32102
D	1	Tube Adapter (TA-2060)	70012
E	1	Screw Eye (SE-2)	2279
F	1	Shock Cord (SC-2)	2277
G	1	Parachute Kit (PK-18)	2267
H	1	Body Tube (BT-60)	30396
I	1	Balsa Fin Stock (BFS-40)	32116
J	1	Engine Mount (EH-2060)	3152
K	2	Launch Lug (LL-2A)	2321

ADDITIONAL MATERIALS

Hobby knife, white glue, sanding sealer, sandpaper, ruler, and spray paint.

RECOMMENDED ENGINE

C6-3



ESTES
A DAMON COMPANY
ESTES INDUSTRIES
PENROSE, CO 81240 USA

**DIRECTIONS TO NORTH BRANCH
PARK LAUNCH SITE**

North Branch Park is very near the traffic circle junction of NJ Routes 22, 28, 202, and 206, near Somerville. Follow 202 South from the circle for 2 miles, past Ortho Pharmaceutical and Harris Corp. under railroad trestle marked "4H is Tops", to right turn onto Milltown Road. Make first left after firehouse and 4H Center on right; follow path to open field. Monthly launches from 10-4.

FROM NORTH
NJ Turnpike South to Exit 10, 287 North to Exit 13, 202/206 South to Circle

FROM SOUTH
202 North to Milltown Rd.; or 206 North to Circle

FROM EAST
287 North to Exit 13, 202/206 South to Circle

FROM WEST
Rt. 78 or Rt. 80 East to 287 South to Exit 13, 202/206 South to Circle

GSSS MEMBERSHIP APPLICATION

Name _____
Address _____
City _____ State _____
Zip _____ Birthdate _____
Phone Number _____
NAR number _____ GSSS number _____

Membership Category (Check One)
 Junior (Under 16)\$5.00
 Leader (16 through 20)\$7.00
 Senior (21 or over)\$10.00
 Family Plan (Deduct \$2.00 for each additional family member, only one Launch Rack will be sent.)

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

Signed _____ Date _____

Send this application along with check for dues payable to: Arnold Klein, GSSS Secretary / Treasurer
2 Oneida ave Rockaway N.J. 07866

GARDEN STATE SPACEMODELING SOCIETY -- NAR SECTION #439
R. Zabriskle
RD #2 ~~201-097~~
3 Peach Tree Rd.
Basking Ridge, NJ 07920




TO:

Robert Nee
222 Willow Avenue - #2A
Hoboken NJ 07030

THE LAUNCH RACK

NEWSLETTER OF NEW JERSEY'S SPACEMODELING SOCIETY

