



March/April 2000

VOLUME 7 NUMBER 2

**T.H.O.R. - THE HEARTLAND ORGANIZATION OF ROCKETRY
2000 Events Calendar
(Complete calendar inside)**

*****SPECIAL NOTICE*****

**Tuesday March 21, 2000.
NEXT MEETING AND ANNUAL AUCTION
AT LA VISTA COMMUNITY CENTER.
START TIME IS 7:00 PM.**

LaVista Community Center at 8116 Parkview St,
La Vista NE (turn east at the Sinclair Gas Station on 84th St.).

March 18 - Pickrell High/Low Power Launch

Launch Coordinator ----- Larry Drake (402) 895-1583
Description of event -- This is a chance to fly your own low & high powered rockets, and see others fly their rockets.

March 18 - Streamer Duration

Launch Coordinator ----- Richard Burney (402) 734-2749
Description of event -- This contest consist of flying a BT-50 Tube rocket with a steamer on a standard "A" engine or a Mini engine, the longest time in the air wins.

March 21 - Third Annual Club Auction

Auctioneer ----- Rob Skiba (402) 896-3838
Description of event -- This is our third auction that we have Held, if you wish to purchase or sell rockets or rocket supplies Come to our monthly THOR meeting at 7 PM.

April 14,15,16 - Fire On The Farm III - Reg. Launch

Launch Coordinator ----- Bruce Lee (402) 691-8420
Description of event -- Fire On The Farm is our Third yearly high powered rocket event to take place at Brede Iowa. Low and high powered flights welcome. April 14th is a Experimental launch & night launch only.

April 30 - Egglofter Contest

Launch Coordinator ----- Larry Drake (402) 895-1583
Description of event -- The contest of flying an Egglofter rocket with an egg on any standard "B or C" engine, the longest time in the air wins.

* For Launch and activities information call T.H.O.R info line
(402) 896-2069
* Prizes for events are valued at no less than \$10.00.
* Cost to enter contest is \$1 for members \$2 for non-members.

TRIPOLI NEBRASKA WEB PAGE

www.tripoli.org/tra_ne/nebraska.htm

THOR WEB PAGE

www.tripoli.org/tra_ne/THOR/thor.html

It is tra_ne, underscore

Renewal Time!!

Just a reminder that January was renewal time for most members. If you have not renewed, you will cease to receive this newsletter and other member benefits. Again, here are the current membership rates:

Rates (1/2 year memberships divide by 2 and add \$1)

Family membership - \$36

Senior (18 and up) - \$24

Junior (under 18) - \$12

Correspondence - \$10

(people over 50 miles from Omaha)

Newsletter only - \$6

(6 issues per year)

Either mail your payment to Larry Drake or pay him at the next meeting. If you are uncertain on your membership status, check with Larry or Bruce Lee.

Rocketman Files

By Richard Burney, Secretary and Newsletter Editor(!!!)
THOR#8, NAR# 69543, TRA# 6140

My Time to be a Star...

As I mentioned last issue, I was considering at that time about the possibility of taking over as newsletter editor. As can be seen, this has become a reality! I have enjoyed being a contributing source to this newsletter for the last four years and I am honored that Bruce has given the reigns over to me. Bruce did an excellent job during the last four years in maintaining this newsletter and I hope to continue in his footsteps. I do plan on sprucing up the newsletter in the months ahead.

Because of room restrictions in the last issue, the Richard Burney Chronology was axed along with my future plans (it wasn't the Y2K bug after all... beware February 29th instead!). Both items are in this issue. To start off are some news items.

New Kid On The Block...



Prototype covers of *Extreme Rocketry*.

Previously, there have only been two model rocketry magazines on the market: *Sport Rocketry* and *High Power Rocketry* magazines. Starting this spring a new magazine will be hitting the market. The name of this new magazine is *Extreme Rocketry* magazine. The March/April issue will be going to press in early March. Currently the magazine will only be available through subscription. To subscribe to their magazine, go to their web page (www.extremerocketry.com). They have a downloadable sampler of the first issue which requires Adobe Acrobat Reader (can be downloaded from www.adobe.com) in order to view it. They also have an e-mail newsletter.

Time will tell if the magazine is a success or not.

Dale Miller Auction...

Dale Miller's online auction (on the THOR web page) was put on hold a few days before it was suppose to end in late January. The good news is that Dale will

be auctioning all those goodies at the March auction. If you previously had a bid for any of Dale's items, you may want to talk to him at the auction or reach him at grapebum@aol.com.

The Richard Burney Chronology 1985 – 1989...

I decided that before I get too much older (and senile:-), it was time to record some of the important milestones and dates of my first 15 years in model rocketry. It also provides some history of ORC, THOR, and Tripoli Nebraska, too. Here is the breakdown per year of what I have accomplished or have had happened to me in this hobby. Due to room constraints, I will have to cut this up into several parts. Part 1 will be the 1980's.

1985

Spring – A friend of mine at school lends me his 1983 Estes catalog. The spark of my fire is lit (I still have that catalog... thanks for getting me started, Scott!).

May – I bought my first model rocket kit from Star Realm up in La Vista (the store is currently on 13th just north of Martha street). The kit was the Estes Dune Highliner beginner set which was made to promote the movie release.

Summer (June?) – Bought the 1985 Estes catalog from Bel Air Hobbycraft.

July 3rd – 1st flight ever (on a 1/2A6-2 motor). 2 flights that day.

Late July – Lost my first rocket one late July evening! It was also my first B flight (B6-4).

September – Received the Alpha 3 starter set for my 12th birthday (September 4th). I flew it that same month. I still have virtually all the parts to it and plan on rebuilding it for its 15th anniversary flight.

1986

March – A few months after the Challenger explosion, I bought the Estes Level 2 Space Shuttle kit (the one that doesn't have the fuel tank or solid boosters). I had no previous experience with balsa, finishing, or spray painting. That rocket was sure ugly! It flew like a dog, too! After a number of flights, it crashed into the ground later that summer. It was definitely one of those "educational experiences".

October – 1st two stage flight (Estes Scorpion on an A8-0 to A8-5 combo).

1987

Late May – I bought my first Astrocams 110 kit. While putting it together that evening, I broke the reflective mirror! I then spent the next few months trying to get a replacement from Estes. When I finally got it finished, I

flew it three times one afternoon in mid-August. On the third flight, the shock cord came undone. The booster fell to the Earth below and one of the plastic fins broke. Since I didn't know how to fix it and I was too naïve to build a new booster, that was the end of what I call the "Astrocam Fiasco". By now I was really starting to get tired of the hobby.

September – I built the Estes Foxfire kit, which marked the first time for me to use sanding sealer (and it would be the last for nearly 6 years!).

1988

June – I hastily built an Estes Wizard before going on vacation to Indiana. I dragged the Wizard and a number of my rockets along with me. While we were staying at my great aunt's farm, I took my stuff out to the middle of her bean field one afternoon and did what was to be my last rocket flying for the decade.

1989

Winter – I bought the 1989 Estes catalog. This ended my involvement with model rocketry for the next several years.

A fair number of you who just read this may have similar stories to tell. If you want to share your own backgrounds in this hobby, just let me know. If you have never written or contributed an article to the newsletter before, this would be a good start.

Back to the Future...

Not to rest on my laurels, I have some BIG and ambitious projects within the next few months. Here is a list of what's in the works or what's in consideration.

Macross – In the works for nearly two years, this is my Level 3 design. Sometime later this year (possibly at Airfest in September) or next year, I plan on going for my Level 3 Certification. This spring and summer look VERY busy so we'll see what happens. Right now, Macross will stand an inch or two over 12 feet tall, have a diameter of 7-and-a-half inches, and weigh some where over 30 pounds. It will be able to take virtually all 98mm and 75mm L and M class motors. Originally, I planned on making Macross so it could be reduced enough to fly on motors as small as the K550, but the rocket continued to grow in size and complexity that I have pretty much ruled this out. The majority of it's design (structurally) is finished (I drew it with a nearly 10 year old release of AutoCAD) and I have been slowly drawing the detailed steps for construction (also with AutoCAD) so the rocket should come together right. I am planning on starting construction in late April.

As for the name? My rocket is named after the classic Japanese animated series *Super Dimension Fortress Macross*. I became a fan of the series several years ago, thanks in part to former member Jay

Chladek. The original TV series ran between October 1982 through June 1983. A high quality animated movie retelling of the series (*Macross: Do You Remember Love?*) was released in Japan in July 1984 (I just recently got a Laser



The SDF-1 as seen in *Do You Remember Love?*

Disc copy of the *Perfect Edition* of it... awesome!). Numerous sequels have been spawned throughout the 80's and 90's. The next *Macross* story will be fully computer rendered and will be released directly to video in Japan later this year. *Macross*, because of the transformable SDF-1 Macross and the transformable VF-1 Valkyrie jet fighters, was responsible for starting the craze for transformable robots which has lasted to this day (*Transformers* anyone?). *Macross*, though, is not just about large robots. *Macross* is a rich universe comprised of action, drama, romance (usually a love triangle such as the one that existed between fighter pilot Hikaru Ichijo; his commanding officer, Misa Hayase; and the ever talented singer, Lynn Minmay), tragedy (in particular Roy Fokker's death), humor, and, of course, its music (music always plays a part in saving the day in the *Macross* universe). Most of this formula has been utilized in all the subsequent sequels. The original TV series did hit the US airwaves in the mid 80's spliced together with two other animated series under the name *Robotech*. *Macross* will finally be released in its true, unedited, Japanese language form (with English subtitles) by a US company later this year.

Macross was a play on the word *macro* itself (large space ship = macro space ship = *Macross!*). Coincidentally, this rocket will be the largest I have ever built, so the name is appropriate. With Jay's help, I plan on making some nice decals for this rocket to honor the original 1980's series. What better way to combine two of my passions together?

Macross Plus – Before starting any construction on the actual *Macross* rocket, I have already started work on a rocket named after a *Macross* sequel! When I realized that my Level 3 rocket would be too big for a K550, I decided to design a rocket based on the 7.5 inch diameter LOC/Precision tubing I bought from Dale Miller at last year's auction. I came up with rocket's design last month. Construction has been going smoothly and it should be ready to fly at Fire on the Farm III. Soon after *Macross Plus*' maiden flight, a series of high quality

toys of the transformable jet fighters in *Macross Plus* will be released in the US which will mark the first time that any of the major *Macross* transformable toys will see an official US release... furthermore, the toys were designed by a US company in conjunction with the main creator of the *Macross* universe himself, Shoji Kawamori. What better way to commemorate this event? I plan on getting Jay's help on detailing this one, too.

Fire (Bomber) On The Farm III...

Another *Macross* reference! (Fire Bomber was the rock group that played a major role in *Macross 7*). It looks like this Fire on the Farm will be the best yet. Right now it appears that there will be at least SIX M class flights throughout the weekend. Will I be doing another world class article for publication in *High Power Rocketry* magazine again this year? I haven't decided yet, but since I am going to pull more range duty this year, I will be in a better position to observe more flights. I'll have my mind made up in the next month or so.

I hope you enjoy my first shot at the editor's helm. Please send me feedback on any comments or suggestions you have for the direction of this newsletter.

THOR Meeting Minutes: January/February

Compiled by Richard Burney, Secretary

THOR Meeting Minutes 1/4/00

Attendance: Lyle Woodrum, Richard Burney, Arley Davis, Candy Davis, Mike McGuire, Ken Nafito, Eric Nafito, Jon Damme, Rob Skiba, and Kathy McGinnis.

Meeting starts at 19:20.

Ken and Eric Nafito show the LOC Minie Magg that Ken will use for his Level 1 attempt. Members give advice (lots of it!) for construction techniques and adhesives.

Arley Davis shows the Rocketman "Thunder Chicken" kit that he received from Candy for Christmas. Arley also shows the new kits that Custom has released.

Candy shows her Doctor Rocket RMS 240-480 set that she received from her father for Christmas.

Rich shows the new Estes Cruise Missile kit which he recently bought. Also shows his Level 3 Certification design (aka "Macross").

Arley passes around preliminary calendar. Jon Damme makes motion to keep all the contests from last year the same. Passed. Rob Skiba makes motion for spot landing contest to be moved for September 10th. Passed.

Meeting adjourned at 20:10.

THOR Meeting Minutes 2/4/00

Attendance: Richard Burney, Lyle Woodrum, Rob Skiba, Bruce Lee, Candy Davis, Arley Davis, Kevin Trojanowski, Eric Nafito, Ken Nafito, Jon Damme, Mark Uhlenkamp, Kathy McGinnis, Larry Drake, Dave Pares, Allyson Pares, and Doug Deden.

Meeting starts at 19:15.

Watch tape of "American Journey" (Travel Channel) which featured Ray Halms' scale Aries from LDRS last year.

Kevin Trojanowski is introduced to the group.

Bruce Lee shows a manifold he got from Ky Michaelson. To what rocket engine it belongs to is unknown, but it does have full identification (manufacturer, part number, manufacture date, etc.). Talks about other things from Ky's big Super Bowl part. Ky had presented the rocket powered luge that he plans on setting a speed record with.

Lyle shows his motor mount configuration for his Level 3 rocket. A screw in the top of the mount taps into the 75mm M1315 casing.

Bruce, Lyle, and a few others are working on a 20' tall rocket for LDRS XIX. The rocket will have 6 fins, use 11.5" PML tubing, and will be powered by two M1315's. By using wax paper and a large squeegee, they were able to apply epoxy with a very smooth finish... no need for fiberglass! PML and Rocketman are sponsors. Mark Uhlenkamp's new release system may get used.

Bruce and Ky will be building and flying rockets for the 8 pound bowling ball duration contest at LDRS.

Rich talks about his future plans such as his K project for Fire on the Farm III ("Macross Plus") and his new job.

Ken Nafito passes around his nearly complete LOC Minie Magg.

Mark goes into detail about his "PAR-1" recovery system. It's designed so that the drogue and main chutes can be deployed from the same end of the same tube. "PAR-1" uses very little black powder and is mostly mechanical.

Mark says that we should be able to move the FOTFIII launch site up north about a mile (no power lines!).

6 M class flights may take place at FOTFIII.

Arley passes out info on new Estes kits and the new rocketry magazine - "Extreme Rocketry". Arley shows

the motor retention system he has for his Level 3 project.

Discovery Channel will finally show their coverage of the our Redstone Project on the April 12th episode of *Extreme Machines*.

Dave Pares is doing an RC lifting body for his Level 3.

Larry is working on a high power 2-stage design (I and H power). Will rebuild his Level 3 rocket for future hybrid motor use. Other hybrid and multistage plans were discussed.

Tripoli has a new insurance policy (*Secretary's note: with HPR magazine, our Tripoli membership went up to \$99.00... ouch!*). NAR insurance has its limits pertaining to high power and medical coverage (otherwise, none).

Treasurer's Report - \$383.24 left at the end of the year. \$2,063 was brought in as income. Our expenses were \$2,296.00... about half was repairs to the trailer.

Lyle is thanked for hosting the Christmas party.

Lyle makes a motion for the group to purchase the latest version of Rodger's Aeroscience software so Bruce can use it to check everybody's large projects. Motion passed.

Rob will conduct the auction next month. Meeting won't be on the first Tuesday of the month, and may end up at Lyle's (*Secretary's note: meeting and auction moved to the 21st, but will remain at the Community Center*).

Dale Miller's auction is on hold.

Bruce passes out the updated calendar. Dates are adjusted.

Meeting adjourned at 22:00.

Rob Skiba Auction List

Editor's note: Rob e-mailed this list to me of what he's selling at the auction on the 21st. Not too shabby!

LOC/Precision Magnum High Power Rocket Kit with 3" Motor Mount

Dr. Rocket 38/600 reloadable motor (Blue anodized LDRS colloectors edition) with an I-284W reload

I-195J Reload

I-284W Reload

Electric Matches and Flash Bulbs

Assorted Estes type kits

If you have any questions - give me a call
Thanks,

Rob

NAR/TRA File Suit Against ATF

Editor's note: This was an e-mail issued by Bruce Kelly on February 15th to all Prefects. Provided by Bruce Lee.

The National Association of Rocketry (NAR) and Tripoli Rocketry Association (TRA) on Friday, February 11, 2000, jointly filed a four count civil complaint against the US Bureau of Alcohol, Tobacco and Firearms (ATF) in Federal District Court in Washington, D.C. We have not taken this action lightly or without a full and lengthy review, with counsel, of the available options for resolving our dispute with ATF. This action became necessary only after repeated meetings and exchanges of correspondence with ATF made it clear that ATF intends to proceed with rulemaking on rocket motors that is both onerous and unnecessary.

TRA and NAR assert that ATF has no legal authority to regulate sport rocket hobby motors, which have been used safely for decades and which are already heavily regulated by other US Government agencies. We are seeking both declaratory judgment preventing ATF regulation of these motors, and full recovery of the costs of the litigation to resolve these issues. A full copy of the complaint may be found at our website (www.nar.org, www.tripoli.org).

We are not at this time encouraging media coverage of this issue, but if you receive an inquiry, please refer all media inquiries to John Kyte of our Washington counsel team at 202-530-4557. We respectfully ask for your understanding that the sensitive nature of litigation requires that we limit media interaction to a single point of contact.

Mark B. Bundick Bruce E. Kelly
NAR President Tripoli President

Tripoli Launch Insurance Liability Coverage for Events.

Tripoli Rocketry Association carries General Liability Insurance covering launch events, meetings, classes, seminars and other Tripoli Sanctioned Events. This policy covers events hosted by a Tripoli Prefecture, or member. The policy limit is \$1,000,000 per occurrence, \$3,000,000 aggregate and the deductible is \$2,500. The policy runs for each calendar year, (Jan 1 through Dec 31), and all sites, and locations require re-filing every year with the Tripoli insurance office for continuation of coverage. The policy covers injury and property damage to spectators, other Tripoli members, and to the landowners, but does not cover accidents to the flyer themselves. The \$2,500 deductible is the responsibility of the member or parties causing the damages. The deductible must be paid prior to filing a claim. The hosting prefecture will be

responsible for the deductible if they do not or cannot identify the flyer causing an incident.

THE INSURANCE COMPANY WILL INVESTIGATE ANY INCIDENTS!

To file for coverage of a Launch event:

1. Fill out the Tripoli Insurance Application form, which can be found here on the web site, and can be obtained by contacting the Tripoli Insurance office.

2. Include copies of Landowners Authorization for each landowner. This can be the sample Landowners form, (see above), or a letter from the landowner. The application will not be filed without this information!

3. Aviation clearance: The insurance certificate is not valid, unless copies of these documents are on file at the insurance office.

1. For rockets over 3.3 lbs.

1. If an FAA waiver is required for this event, a copy of the COMPLETE waiver, or if not issued yet, a copy of the Waiver Application must be filed, and the copy of the waiver sent as soon as you obtain it. (The same applies for CFA's, Controlled Firing Area's). Remember, if the FAA sends it to you, you must send the Insurance office a copy.

2. For rockets between 1 and 3.3 lbs.

1. For the 3.3-pound rule send a copy of the ATC Notification.

4. IMPORTANT! The schedule information on the application form is critical. The insurance carrier REQUIRES this, and the application will not be filed without it. New dates cannot be added without 60 days notification to the insurance carrier, so take into account 1 week for me to complete the notification. It is best if you include a rain date for each and every date submitted, in case of cancellation, as there is no variance from the 60-day notification. The insurance certificate will only be valid on the dates submitted in compliance with this requirement. (60-day notification waived for any events prior to April 1, 2000, but still required for notification to the insurance carrier PRIOR to the event.) Launches will be subject to the following for insurance to be valid:

1. You must adhere to the Tripoli Rocketry Association Inc. safety code, (most recent edition) and BYLAWS to be covered for liability coverage.

1. Violations to the Tripoli Rocketry association Safety Code, or its Bylaws will not be covered.

2. RSO must be on site during event.

3. FAA requirements must be met.

1. Violations to the FAA regulations will not be covered.

4. Non-Tripoli members may NOT participate in the event, with the following exceptions:

1. Non-member children (under the age of 18) may fly rockets at a Tripoli sanctioned and insured launch as part of our educational program (i.e. Boy

Scouts, schools...) as long as insurance has been applied for.

2. The following item is under investigation at this time as well as dual TRA/NAR events NAR members must have NAR optional insurance to be able to fly at a Tripoli Sanctioned and insured launch. Tripoli only members (without dual membership) are not covered to fly at non-Tripoli events (i.e. NAR, IAR...) or other non-Tripoli sanctioned events.

All "yes" responses are subject to the deductible and are excess over any valid and collectible insurance

1. If a member damages another member's property, is there coverage for that loss?

Yes, since the party suffering the loss is 3rd party to the member creating the loss.

2. If a member damages a rental vehicle rented by the member, is it covered?

No, since the claim is not considered 3rd party. The physical damage loss should be settled under their personal auto policy. (Note: Rental agencies have damage waivers. I would suggest everyone attending the launch pay the \$10 or so per day to insure a rented vehicle. We have actually had a member damage his own property before, so this can and does happen.)

3. If a member damages another member's rental vehicle, is it covered?

Yes, since the claim is considered 3rd party.

4. If a member injures their own family member, can the family members claim bodily injury losses?

Yes, since the family member is considered 3rd party.

5. Is there coverage under Medical Payments?

No, limits are not provided under this coverage for medical expenses incurred at the time of accident "regardless of fault."

6. Are the members covered for activities outside of Tripoli, such as at NAR events?

No, members are only covered if they are participating in Tripoli-sponsored group events and safety code regulations are followed.

7. Are NAR members, who participate in Tripoli's activities, covered under Tripoli's policy?

No, NAR members are not Named Insured's.

Insurable Event If the questions below have been answered "yes" consecutively, then an insurable event has occurred.

1. Is the loss triggered from a Tripoli-group sponsored and planned activity/event?

2. Did a current Tripoli member cause the loss?

3. Have Tripoli safety codes been followed?

4. Is there a Tripoli Range Safety officer supervising the event?

INSURANCE Q & A



T.H.O.R.

2000 Events Calendar

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Launch Coordinator ----- Bruce Lee (402) 691-8420
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April 30 - Egglofter Contest

Launch Coordinator ----- Larry Drake (402) 895-1583
Description of event -- The contest of flying an Egglofter rocket with an egg on any standard "B or C" engine, the longest time in the air wins.

May 30 - Parachute Duration

Launch Coordinator ----- Bruce Lee (402) 691-8420
Description of event -- This contest consist of flying modified Big Bertha rocket with a parachute on a "B" standard engine, the longest time in the air wins.

June 2,3,4 - Nebraska Heat III - Regional Launch

Launch Coordinator ----- Bruce Lee (402) 691-8420
Description of event -- Nebraska Heat is our third yearly high powered rocket event **dedicated to the memory of Bruce Furan** to take place at Pickrell, Nebraska. Low and high powered flights welcome. June 2nd is a Experimental launch & night launch only.

June 25 - Sport Launch

Launch Coordinator ----- Rich Burney (402) 734-2749
Description of event -- A low powered day of fun and flying. All rocketeers welcome to come and join in on the fun.

July 1,2,3,4 - LDRS XIX

Tripoli Nat'l Launch - South Carolina
Description of event -- LDRS XIX yearly national high-powered event. Tripoli annual general membership meeting and board meetings will take place during the launch. For details call (402) 691-8420.

July 15 - Fourth Annual Barbecue / Pool Party

Description of event -- Will be held at the home of Bruce Lee its open to all club members and their family, there will be swimming and a barbecue.

July 16 - Drag Race Competition

Launch Coordinator - Richard Burney (402) 734-2749
Description of event -- Two rockets launched simultaneously. Points are awarded for first motion, low altitude, and lands last. The winner goes on to the next "heat."

July 29 - August 4 NARAM 2000 - Vernon Estesland. CO

Description of event -- NARAM 2000 is the National Association of Rocketry's Annual Meet. There will be many contest events being held. Details in Sport Rocketry Magazine.

August 5 - Pickrell Experimental Launch

Launch Coordinator ----- Larry Drake (402) 895-1583

Description of event -- This is a chance to fly your own rockets using experimental motors only.

August 19 - Pickrell High/Low Power Launch

Launch Coordinator ----- Larry Drake (402) 895-1583
Description of event -- This is a chance to fly your own low & high powered rockets, and see others fly their rockets.

September 2,3,4 - Air Fest 2000 - Regional Launch

Description of event -- Air Fest 2000 is a yearly high powered event that takes place in Argonia, Kansas. Come join in the fun! For details call (402) 691-8420.

September 10 - Spot Landing Competition

Launch Coordinator ----- Candy Davis (402) 346-7566
Description of event -- This contest consist of flying any A-D engine rocket and have it land closest to a pre-determined Spot, the closest rocket to the spot wins.

September 29,30 & Oct. 1 - BALLS 010 Exp. Launch

Description of event -- BALLS 010 yearly high powered event that takes place in the Black Rock Desert, NV. Experimental motor only! For details call (402) 691-8420.

October 7 - Pickrell Experimental Launch

Launch Coordinator ----- Larry Drake (402) 895-1583
Description of event -- This is a chance to fly your own rockets using experimental motors only.

October 21 - Pickrell High/Low Power Launch

Launch Coordinator ----- Larry Drake (402) 895-1583
Description of event -- This is a chance to fly your own low & high powered rockets, and see others fly their rockets.

October 29 - Helicopter Duration

Launch Coordinator ----- Larry Drake (402) 895-1583
Description of event -- Have your rocket stay aloft the longest using an autorotation rocket as the recovery device.

November 11 - Breda High/Low Power Launch

Launch Coordinator ---- Mark Uhlenkamp (712) 663-4521
Description of event -- This is a chance to fly your own low & high powered rockets, and see others fly their rockets

November 26 - Sport Launch

Launch Coordinator ----- Lyle Woodrum (402) 334-8040
Description of event -- A low powered day of fun and flying. All rocketeers welcome to come and join in on the fun.

December 1 - Fifth Annual Christmas Party

Description of event -- Our Christmas party is open to all THOR members, plenty of food and videos to enjoy, more details will be announced in December

*FUN FLYING AT ALL LISTED LAUNCHES!!

* Email: bruce.lee@tripoli.org

* For Launch time and location call T.H.O.R info line (402) 896-2069, Bruce Lee at (402) 691-8420 or the launch coordinator listed.

* For information on contest call THOR or the Launch Coordinator.

* **Prizes for events are to be announced before each event, valued at no less than \$10.00.**

* **Cost to enter contest is \$1 for members and \$2 for non-members.**

THOR Monthly meetings, starting at 7 PM, are at LaVista Community Center - 8116 Parkview St. LaVista, NE. Dates are: March 21, April 11, May 2, June 6, July 11, August 1, September 5, October 3, November 7 and December 5. Call our voice mail box at 402-896-2069 for more info and launch information, or leave a message.

CLUB OFFICERS

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VICE PRESIDENT

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Email: arleydavis@uswest.net

The Heartland Organization of Rocketry ("THOR") is an officially sanctioned section, #562, of the National Association of Rocketry (NAR).

Tripoli Nebraska #46 is an official Prefecture of the Tripoli Rocketry Association, Inc.

If you are interested in joining The Heartland Organization of Rocketry (T.H.O.R.) simply fill out an application and mail it to:

T.H.O.R.
6211 South 141 St.
Omaha, NE 68137

Meetings are held the first Tuesday of each month, 7:00PM at the LaVista Community Center at 8116 Parkview St, La Vista NE (turn east at the Sinclair Gas Station on 84th St.). Visitors are welcome to attend. For club launch time, launch location or general information call The Heartland Organization of Rocketry at 402-896-2069. THOR strictly follows the safety guidelines set for by the National Association of Rocketry and Tripoli Rocketry Association, Inc.

For more information call The Heartland Organization of Rocketry at **402-896-2069** and leave a voice mail that will be returned in a few days.

T.H.O.R Membership Application

Personal information

Name: _____

Address: _____

City: _____

State: _____ Zip Code: _____

Phone Number: _____

Email Address: _____

Hobby information

How long have you been involved in Rocketry? _____

Are you a member of a national Rocketry Organization:
NAR# _____ TRA# _____ NERO# _____

Rates (1/2 year memberships divide by 2 and add \$1)

Family membership - \$36

Senior (18 and up) - \$24

Junior (under 18) - \$12

Correspondence - \$10

(people over 50 miles from Omaha)

Newsletter only - \$6

(6 issues per year)

**Membership in The Heartland
Organization of Rocketry is open to
all interested parties.**

I agree to comply with the THOR policies as pertains to the safety guidelines set forth by the NAR and Tripoli. Failure to do so is grounds for expulsion.

Signature _____

Dated: _____