



**CELEBRATING 35 YEARS OF CONTINUOUS PUBLICATION**

**Annual Meeting Sets Stage for Busy Year**

reported by Duane Lanterman, Secretary

Nine people were in attendance at the Palmer home in Hutchinson as the New Year had just gotten underway. Each January our N.A.R. Section meets to plan out the launch calendar for the year, elect officers, and hash out ideas.

The first order of business was eating some delicious pizza and conversation in the Palmer kitchen. We then retreated to the comfort of their basement.

After Duane Lanterman read the minutes from last year, Treasurer Sharon Lanterman handed out the financial statement. The club looks to be in good shape, the club ending the year with \$138.14 more than when started. There is \$693.95 in checking and \$50.00 in petty cash.

Next was the election of officers or should be say re-election of officers with everyone continuing in their positions. The Historian slot had remained vacant the past year after the passing of long time member Ron Shipley. Evan Beckman was elected to this office. The officers are -

- President – Keith Ravenstein
- Vice President – John Palmer
- Secretary – Duane Lanterman
- Treasurer – Sharon Lanterman
- Sr. Adviser/Contest Director – Steve Saner
- Webmaster – Steve Saner
- Historian – Evan Beckman

The old business of possible prepaid membership cards (which include launch fees) was defeated and put to rest for the time being.

The launch calendar took up quite a bit of time to set up this year but an interesting calendar is in the offering for 2016. Please refer to the back page of this newsletter for the schedule. Next year's meeting will be held in Sterling Ks at the home of one of our newer members, Luke Dyson, on Jan. 7, 2017. One of Luke's other hobbies is restoring old video and pinball games, so the entertainment after the meeting should be real interesting.

A motion was made to accept Tristan Dean as our Jr. NAR sponsor candidate. Tristan comes out of the 4H camp headed by KOSMO member Dennis Elder.

The KOSMO Traveling Trophy hasn't been awarded the past several years, but for accomplishments in 2015 Traci Ross was this years recipient. Her efforts in 4H resulted in a number of prestigious awards and deserves to have her name added to the KOSMO Traveling Trophy.

The club will undoubtedly be applying for one of the NAR safety grants in the near future. Keith Ravenstein is building a number of new launch pads that should be eligible for this grant. Look for these new racks at our launches sometime this year.

We will again be partnering with the Rush Co. 4H group and holding a launch with them at the Rush County Airport. This launch is scheduled for Saturday June 4.

It doesn't appear that our schedule will allow us to do any static displays in the new year. Perhaps next year we may be able to participate in the Maker Fair in Wichita if scheduling allows. Steve Saner intends to join this group and it seems like a good match for the kind of things our club does.

A number of members plan on at least making part of NARAM 58 . Where our club fits in to the mix of clubs helping with this is still a little unclear, but those who can volunteer will make themselves available.

The events for our annual Regional contest pretty well mirror the ones we had for last year. Because of the field size the helicopter event will be downsized to 1/2A. There is a page in this newsletter devoted to the events of KRAMO 36.

Glenn Duran of the Kansas Cosmosphere told us of their Xtreme Camp in July. Among other things, the attendees will be building Level One rockets and the plans are to launch them at our Ellinwood launch site. Our support will be needed mainly the day of the launch but several members expressed interest in providing assistance with the build days if needed.

We ended the meeting with a short "show and tell" on our winter projects and got to enjoy the craftsmanship of John Palmer's scale or near scale models adoring his walls in several rooms in the basement.

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**CHECK OUT OUR WEBSITE : [kramo427.org](http://kramo427.org)**

**The latest updates on launches (including weather related issues), NAR links for each competitive event featured at KRAMO 36, current issue of the KOSMONaut as well as past issues for the last 9 years. Maps of launch sites. Links to other websites of interest.**



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**PHOTOS FROM ANNUAL MEETING-**



*Illustration 3: Traci Ross receives the Traveling Trophy for her outstanding work in 4H*



*Illustration 2: Steve Saner with a classic Estes kit he recently purchased and the beginnings of his new rocket and altitude challenge, 15,000 feet*



*Illustration 1: Winter Projects: L, John Palmer's Mercury Atlas, R, Duane Lanterman's Air Commander*



*Illustration 4: Steve Saner, Evan Beckman, Traci Ross study meeting agenda*



*Illustration 5: John Palmer, Luke Dyson, and Glenn Duran @ meeting*



*Illustration 6: Just a few of the beautiful rockets in the Palmer home*



# KOSMO and THE NARAM 58 CONNECTION

BY STEVE SANER

The National Association of Rocketry's 58<sup>th</sup> Annual Meet (NARAM 58) will be held next July 23-29 near Walnut Grove, MO. John Buckley of the St. Louis Rocketry Association (SLRA) is going to be the Contest Manager for this event and is in charge of organizing the event. The event is sponsored by a consortium of organizations, St. Louis Rocketry Association, Kansas City Association of Rocketry, Kansas Organization for SpaceModeling, Launch Crue, and the Teeniemunde Rocket Club.

The primary need for KOSMO participation will be helping to run the sport launch range during the week of NARAM. Other things may come up as time goes on. If you are interested in helping or just following the discussion an E-Mail list has been set up for this event. You may subscribe to this mailing list by going to the following web site:

<http://lists.kosmo427.org/mailman/listinfo/naram58>

Please note that subscription to this list is a two-step process. You will need to enter your E-mail address and a password and click the "Subscribe" button. This will cause a confirmation E-mail message to be sent to you. There will be a link in that E-mail message that you will need to click to confirm your subscription. When you have finished that, you will receive another E-mail message with information about how to post a message and how to remove yourself from the list if you wish. Once subscribed, you may also go to the above website address and view the list archives to catch up with what has already been discussed.

A web site for NARAM 58 is being built. KOSMO member Steve Saner has agreed to help in that effort. You can get to the web site by going to the following address <http://www.naram.org/> There is some very basic information there now and more will be coming soon.

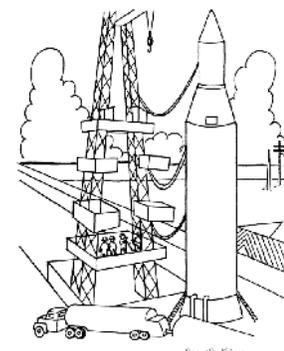
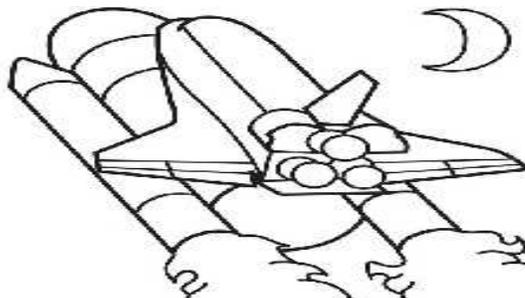
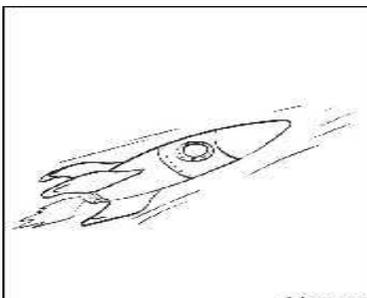
So please put this event on your calendar and consider joining the E-mail list and helping. At this point you do not need to make any particular commitment. This is, however, an opportunity to participate in a national NAR event.

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## OPPORTUNITY TO CHECK OUT NARAM 58 SITE/EQUIPMENT

Blake Goddard of KCAR has informed us that the Teeniemunde group in Walnut Grove, Mo. is having a launch the weekend of May 21-22 and would like members of KCAR and KOSMO to join them. This would give members a chance to get to know each others equipment and the field prior to NARAM the end of July. If you would like to participate you can respond to the announcement on KOSMO's list and indicate your interest. Car pooling would be the way to go as it is a long drive for all of us. We can discuss this at our Springfest launch also.

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# **PREVIEW OF *KRAMO 36*- ANNUAL REGIONAL CONTEST**

**BY STEVE SANER, KOSMO CONTEST DIRECTOR**

**KRAMO 36 will be a NAR sanctioned regional meet. The competition is open to anyone who wishes to participate. We will be following official NAR rules for each competitive class. Ribbons and Subway gift cards will be presented for each class as well as an overall trophy. Sport flying of Class 1 rockets that can be reasonably be recovered in the launch area will also be allowed each day.**

## **OFFICIAL NAR COMPETITIVE EVENTS -**

- OPEN SPOT LANDING**
- PREDICTED DURATION**
- "B" EGGLOFT DURATION**
- "1/2A" SUPER-ROC DURATION**
- "1/2A" HELICOPTER DURATION**
- "A" BOOST GLIDE DURATON**

### **EVENT DETAILS:**

**For Predicted Duration, the predicted duration must be between 30 and 50 seconds.**

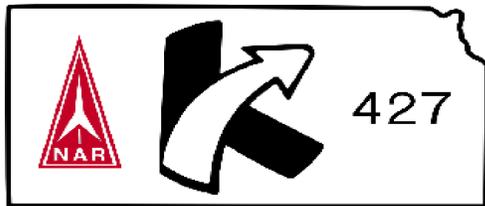
**Due to safety concerns, a tower-style launch pad will be allowed for eggloft duration only if the body tube of the rocket has a uniform diameter(not tapered) or if tapered also uses a piston launcher in the tower.**

**While KRAMO 36 is being organized as a NAR sanctioned regional meet, if we do not have enough participants we will have to re-organize as on open meet. In that case, we will drop 1/2A Helicopter from the official results. We will still fly 1/2A Helicopter and prizes will be awarded. However, those results will not be included in determining the overall contest winner and they will not be submitted to the NAR.**

**DATES FOR KRAMO 36 ARE SATURDAY JUNE 11, 10AM-5 PM  
SUNDAY JUNE 12, 10AM-4PM**

**LOCATION: KANSAS STATE FAIR GROUNDS PARKING LOT- HUTCHINSON KS**

**ENTRANCE FEES: SPORT FLYERS \$1  
COMPETATIVE ADULT \$7  
COMPETATIVE YOUTH \$5  
FAMILY PASS \$15  
SPECTATORS FREE**



**KOSMO - NAR #427**

## **KOSMO 2016 LAUNCH CALENDAR**



**SAT. MARCH 19 SPRINGFEST- AIRPORT ELLINWOOD,  
KS. 10AM-5PM 10,000' FAA WAIVER  
(BACKUP DATE IS APRIL 2ND)**

**SAT. APRIL 16 SPORT LAUNCH- STATE FAIRGROUNDS  
PARKING LOT HUTCHINSON, KS. 10AM-5PM**

**SAT. MAY 14 SPORT LAUNCH- STATE FAIRGROUNDS PARKING LOT  
HUTCHINSON KS 10AM-5PM**

**SAT. JUNE 4 RUSH CO. 4H LAUNCH-RUSH CO. AIRPORT LACROSSE  
KS. 8AM-2PM CLASS ONE ROCKETS**

**SAT.-SUN. JUNE 11-12 KRAMO 36 STATE FAIRGROUNDS PARKING  
LOT HUTCHINSON KS. REGIONAL NAR LAUNCH (SEE SEPERATE  
PAGE FOR DETAILED INFO)**

**SAT. AUG. 20 SPORT LAUNCH/FAMILY BBQ-STATE FAIR GROUNDS  
PARKING LOT 9PM-1PM BBQ TO FOLLOW**

**SAT. SEPT. 3 FINAL FRONTIER FUN FLY- ELLINWOOD AIRPORT OR  
LANTERMAN FAMILY FARM 10AM-5PM 10,000' FAA WAIVER  
(BACKUP DATE SEPT. 17)**

**SAT. OCT. 15 ROCKET-TOBER- ELLINWOOD AIRPORT OR  
LANTERMAN FAMILY FARM 10AM-5PM 10,000' WAIVER**

**SAT. NOV. 12 NIGHTFLIGHT- STATE FAIR GROUNDS PARKING LOT  
HUTCHINSON KS 3PM-7PM NIGHT PORTION BEGINS AT SUNSET**

**ALL LAUNCHES AT ELLINWOOD OR HUTCHINSON HAVE A LAUNCH  
FEE OF \$3 FOR MEMBERS, \$4 NON-MEMBERS. (EXCEPTION BEING  
REGIONAL CONTEST IN HUTCH) LAUNCHES IN HUTCHINSON ARE  
FOR CLASS ONE ROCKETS THAT CAN BE REASONABLY RECOVERED  
IN THE FIELD. LEVEL ONE OR TWO HIGH POWER CERTS ARE  
AVAILABLE AT ELLINWOOD.**