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# *the* **KOSMONAUT**



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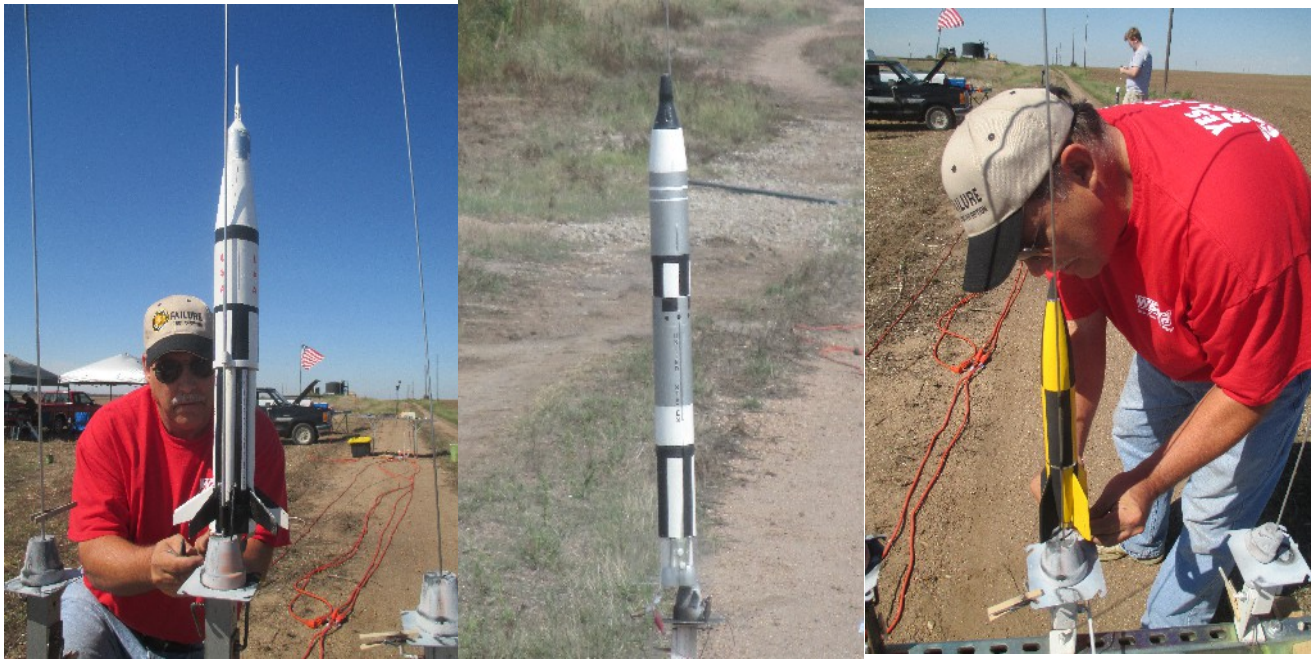
**CELEBRATING 35 YEARS OF CONTINUOUS PUBLICATION**

**“FINAL FRONTIER FUN FLY” EXPERIENCES  
EXCELLENT WEATHER AND LOTS OF NEWTONS !!**



## More Final Frontier Fly Fly Photos

front cover: The FFFF crew, welcome sign, Ron Snow's "Mars Industrial Cargo Hauler"



*Illustration 1: "Mr. Scale"  
John Palmer and his Saturn V,  
Gemini Titan, and V2*



*Illustration 3: Duane Lanterman's fleet  
included cluster, two stage, and high power  
models.*



*Illustration 2: Keith Ravenstein burned  
some H and I motors in his colorful rockets.*



*Illustration 2: Dennis Elder prepares his Trajector for its maiden flight*

*Illustration 1: Steve Saner looks relaxed as he readies his Vega II for a 'J' powered flight.*

## FINAL FRONTIER FUN FLY STATS AND FIGURES

—DUANE LANTERMAN REPORTING

After a two week weather delay, nine kosmonauts gathered at the Lanterman Family Farm outside of Ellinwood greeted by ideal launching conditions.

John Palmer lead the way with ten flights followed by Linton Bayless with eight and son Peter with six. Steve Saner and Duane Lanterman each launched five rockets, followed by Ron Snow with four, Keith Ravenstein three, and Dennis Elder

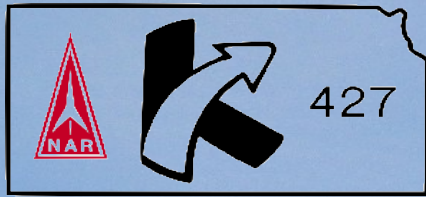
with two. Of the forty three flights seven were “H” powered, two “I” motors, and a “J” flight. Adding to the newtons were six black powder cluster flights, three bp staged flights, and two bp staged and clustered flights. Three flights carried altimeters on board with Steve Saner's “J” powered Vega topping out at 5626', Keith Ravenstein's Stretched Calisto on an “I” to 3712' and Duane Lanterman's “H” powered Eagle 7X reaching 2990'.

Of course John Palmer had his usual stash of sport scale models including a Python, Strong Arm, Saturn 1B, V2, Gemini Titan, Ammram, Mercury Redstone, and an absolutely beautiful flight of a clustered and staged Saturn V to the delight of the on lookers. Dennis Elder brought out his recently finished Estes Trajector which launched on a E16 and then again with an F15 booster. Duane Lanterman had several of his usual models but had also dusted off two old Fliskkit rockets which featured 3 motor clustered ignition. Keith Ravenstein, who by his own admission had suffered from the Level 3 syndrome, launched several of his very nice models on “H” or “I” impulse motors. Linton and Peter Bayless seemed to have a great time launching their mostly Estes fleet of rocket with some bigger kits thrown in on everything from “A's” to “I's”. It was so good to have them joining us on the field. Steve Saner brought a number of his favorite rockets to the field and ended his day with his Vega II on a “J” to over 5600'. It features Telemetry tracking and it is so cool to hear his smart phone reading out location and altitude during recovery. Finally, Ron Snow joined us on the field with several classic kits as well as several of his own creations. We finally got to see his intimidating “Mars Industrial Cargo Hauler” launch on a F32.

All in all we had a great day, great weather with almost NO wind, and all models were recovered within the south side of our launch field. After packing up, most of us headed into Ellinwood to *Annie Mays* to wash up, sit down, enjoy some good food, and discuss the days activities.

### **“The KOSMONaut” Receives Recognition**

**At the last NARAM, the *LAC Newsletter Award* was given to the Garden State SpaceModeling Society (Section #439) for their publication *The Launch Rack*. Honorable Mention went to our very own *KOSMONaut*. Thank you to everyone who contributed in any way to our newsletter and special thanks to all who patiently pose for photos at our launches. Duane Lanterman, editor**



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*Illustration 1: Peter and Linton Bayless prepping their Asp rocket is a common sight at FFFF. This flight was I287 powered.*

# **CLUB ROCKET FOR 2017**

Compiled from emails of Keith Ravenstein and Steve Saner

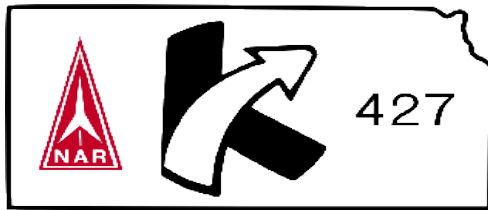
**Looks like 2017 will bring back an old club tradition of members building a “club rocket”. The idea began as Keith Ravenstein and Steve Saner were working on new ideas for a possible kit for the Cosmosphere's Xtreme Camp launch or similar venture. The kit would be 3” in diameter, have 4 fins, be 45” tall, and contain a 29mm mount. Not difficult to build and constructed using wood glue. Components would be mostly LOC with fins and centering rings made by Keith and Steve on a laser cutter. This kit would hopefully eliminate some of the construction problems incurred last year and the larger diameter would bring its altitude down from the 3200' of last years kits.**

**As they were working on this they became inspired by the KloudBuster's club rocket ( a larger kit powered by a K550 mostly). As our club has a little different make up, the kit they were proposing for the Cosmosphere seemed like a good fit for us. It could be painted to one's personal preference and perhaps used for a KOSMO drag race rocket and if nothing else as a proof of concept for the Cosmosphere rocket. It would fly pretty well on a G for those not high powered certified and also be a good Level One cert rocket.**

**Some discussion has surfaced on the internet about making this kit also available with a 38mm motor mount for those who would like this option. This may or may not come about as it entails more issues than at first seems apparent due to the limitations of the 3” tube.**

**Keith has challenged those who purchase the kit to write up a set of instructions. Those instructions will be submitted (probably via internet) and the club will vote on the best one submitted. Ultimately this set of instructions will be included with the kits that are sent to the Cosmosphere.**

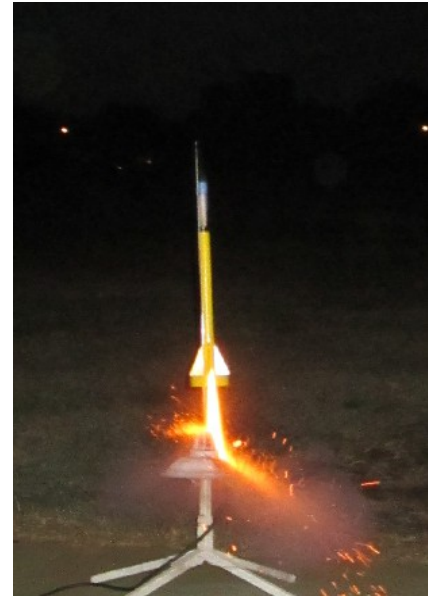
**More info on price and when the kit will be available will be discussed at the upcoming NIGHTflight launch in Hutch on Nov. 12<sup>th</sup> and full details will be forthcoming in the Nov./Dec. Issue of *The KOSMONaut*.**



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## WE'RE JUST ABOUT READY TO WRAPUP THE KOSMO 2016 LAUNCH CALENDAR

**SAT. NOV. 12 -NIGHTFLIGHT- STATE FAIR GROUNDS  
PARKING LOT - HUTCHINSON KS 3PM-7PM - NIGHT  
PORTION BEGINS AT SUNSET – *Come on out for the last  
launch of 2016 . Bring your model rockets and then as the  
sun sets prepare to launch your lighted rockets into the  
dark of outer space. (rockets must be illuminated  
throughout the entire flight) Might bring a jacket too !!  
Launch fee is \$3. Bring your own lunch or there are many  
fast food places nearby the field. IF WEATHER IS NOT  
COOPERATIVE WE WILL STILL MEET AT THE FIELD AND  
THEN EVENTUALLY GATHER AT A LOCAL EATERY AND TALK  
SHOP !***



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