



# *the* **KOSMONAUT**

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## ***SPRINGFEST BEGINS '22 SEASON***

*by duane lanterman*

After two aborted tries, the Kansas weather gave us a beautiful break and for the first time in several years our March scheduled launch took place at our high power field outside of Ellinwood, Ks. We had 14 registered fliers along with some support team and family. This years event leaned a little more on the high power side as we had 2 H, 3 I, 2 J, and one L powered flight. That was balanced out with numerous A-G flights as well.

Not very often is Duane Lanterman the most prolific flier but this year his 8 flights were the most by a single person. Duane had fun with numerous flights on the new Quest D and E 24mm composites. He was joined by his grandson's Cody and Parker(making his first rocket launch) who made several flights.

Fred Smith had his tower working well and put up some very nice high altitude flights on C and D motors. Fred didn't let his 80 plus years slow him down in recovering some models quite a distance from the pad. You'r only as old as you feel!

We had some visitors from the local community join us, the Zooks from Ellinwood. The two boys Josh and Caleb each flew their two stage Bertha and Mongoose twice for very nice flights and their dad joined in with a flight of his own.

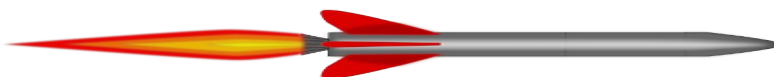
The Wyant family Dustin, DJ, and Jayla racked up 9 flights total including loading the pads ith a standard HighFlyer, the HighFlyer XL, and a HighFlyer XXL.

Steve Saner was checking out some new electronics and launched his self-designed Vega II with 2 GPS trackers on board. The first flight was on a H135, the second a H195, and the final flight on a J270. To the best of my knowledge, the electronics proved themselves out.

Eric Myers of Wichita saw on the net about our launch and he and his son Eric Jr. joined us for the day. Eric does some amazing work 3D printing his high power rockets, e-bays, etc. His 4" printed rocket jumped off the pad with a Aerotech I280 Dark Matter motor. Later his son launched dad's slightly smaller rocket NOVA on a G80 and then Eric dropped in a I205 that topped out around 5600' to the best of my memory. The Myers joined our club at the end of the day and we look forward to seeing them at some additional launches this year.

KOSMO member Zac Twigg was king of the newtons with an L1030 flight of his slightly pink 7.5" Gargamel and two flights of his Bumble Bee on a I345 and then a J270.

All in all it was a comfortable pace of launches, all of which were recovered. We left taking about the next launch which is slated for the State Fair grounds (our low to mid-power field). Many thanks to KOSMO president Keith Ravenstein for running and setting up the launch system and for Zac for bringing out the Bose sound system which worked great!







## Springfest 2022





## **Wichita Area TARC Team / Air Capital STEM Club On its way to Virginia**

The Wichita Area TARC Team/ Air Capital STEM Club section 842 has had a very busy past 5 months. With the team made of all new students except for our two senior members we had our work cut out.

This year's challenge is 2 raw hen eggs 55-61 grams horizontally, 835' 41-44 seconds. The rocket must be constructed out of two different size tubes. Rocket cannot be any shorter than 650 mm (26.5") and cannot weigh more than 650 grams. This is just to qualify.

This year's team was part of 842 teams competing for the 100 spots for nationals in Manassas, VA. Our team qualified with a score of 8 between 2 flights. The cutoff for this year's challenge was 47.58. At the Finals the altitudes will be 810' 40-43 seconds & 860' 42-45 seconds.

The TARC program was part of USD 259's after school program until the 2019-2020 school year. Steve Hamous, Cal Ammons were the original instructors for the program in the Wichita area. I took the program over 5 years ago as the lead instructor.

After the school district defunded the program, I made up my mind that I was not going to let the program die. During the summer of 2020 I decided that I would look into starting a 501©3 nonprofit and in November 2020 Wichita Area TARC Team Inc. was born.

I have to say that our Board Of Directors and myself are proud of what last years team and this year's team have accomplished. Last years team made nationals and this year's team has also made the nationals. Many thanks to these folks that made up our BOD, Brad Smith VP, Mark Logan Treasure, Jeremy Lepel Secretary, Jeff Schellenger, and Dr. Jonathan Scrafford.

Thanks also to these NAR Mentors & Advisors: Steve Hamous, Steve Saner, John Palmer, Robin Smith, Tina Lindsay, Luke Thompson. Additionally I want to THANK the parents and our friends at KOSMO NAR Section #427.

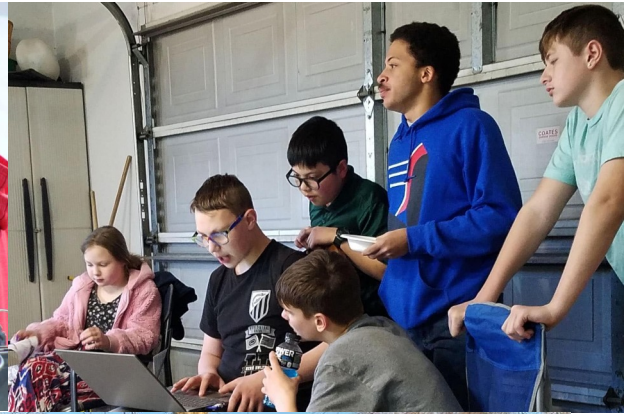
This year's team consists of: Warren Schellenger (Capt.), Jack Thompson (Asst. Capt.), Gabriel Shankar, Jacob Norris, Maddie Leiker-Walter, Kalon Kirk, Wyatt Shain, Natalya Shain, Joseph Strattord.

We are always looking for sponsors to help with the program and to help with the trip to Nationals.

Wichita Area TARC Team/ Air Capital STEM Club  
Bill Lindsay President/Coach  
KOSMO 427 VP.



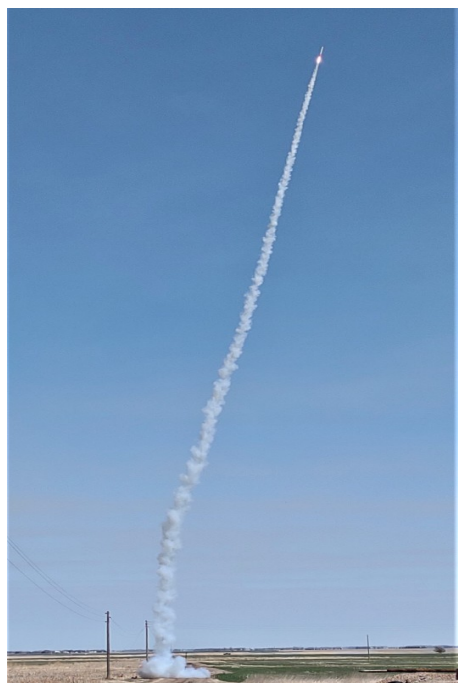
**IT'S BEEN QUITE A YEAR – WICHITA AREA TARC TEAM/AIR CAPITAL STEM CLUB -  
AND IT AIN'T OVER YET! NATIONAL HERE WE COME!**





**PHOTOS OPPOSITE PAGE – TOP PHOTO – Most of the Springfest Crew. MIDDLE ROW -**  
**Left:** New members Eric Myers and his son with their 3D printed rocket. **Middle:** DJ and Jayla Wyant with their High Flyers. **Right:** Zach Twigg and his 7.5” diameter Gargamel. **BOTTOM ROW – Left:** Local guest Josh and Caleb Zook with their successful two stage models. **Middle:** Fred Smith and his tower launcher. **Right:** Parker and Cody Lanterman and their Estes Spectra’s.

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**Steve Saner's Vega II exceeds 6000' on a J270**



**Myers I280 Dark Matter punches skyward.**



**Fred Smith's rocket heads straight up out of the tower.**

### SPRINGFEST LAUNCH PHOTOS

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#### NEW MEMBER CERTIFIES LEVEL ONE

The week after Springfest we had an NAR member, **Austin Streit**, from Salina Ks email us hoping that he might certify at our Ellinwood high power field. Other commitments prevented him from making our club launch. Keith Ravenstein sent a couple of texts and in no time the wheels were set in motion. Austin made the hour twenty minute drive and arrived early at the field . After a thorough check of his rocket and suggestions on future builds the rocket was on the pad shortly after 9am.. The winds were forecast to pick up soon. With a roar his LOC 4 powered by an Aerotech I140 took flight. The upper winds around 3000 feet carried it to the far reaches of our field. The flight was deemed a success, Austin joined our club and we look forward to seeing him at future launches. Thanks to KOSMO members Keith Ravenstein, Duane Lanterman, and Dustin and DJ Wyant for their assistance.



## **\$\$ ROCKETRY ON THE CHEAP! \$\$**

JOE PEKLICZ

That M powered flight of your friends certainly looks impressive as does the highly detailed Saturn V of that skilled craftsman in your group. Sometimes though it's just fun to put together a "rat rod" of a rocket, throw in a thundering A10, and head out with a neighbor or grand-kid and do a little old school rocketry. So here is a general outline of a plan with some ideas on its construction. It lacks dimensions so use your previous experience building kits or do a quick check up with Open Rocket or RocSim. Thanks to long time rocketeer Joe Peklicz of Ohio, a dedicated subscriber to *The KOSMONaut*, for this article and photo.



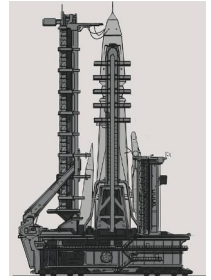
The Alien Probe is my latest "Rat-rocket" made from throw away garbage. It consists of a super thick 1 1/4" tube, a medicine bottle, small Easter egg and scrap balsa. It's powered by an inexpensive A10\_3T so the launch cost is low also. Recovery is from a make it yourself 12" chute or grab one of those many Estes chutes stacked in a drawer in your shop. The shock cord is several rubber bands tied together or find some elastic left over from a family member who made covid masks last year. Centering rings are corrugated cardboard (pizza boxes are great for this) The launch lugs began life as a 1/8" plastic straw wrapped with an address label so it will stick. The standoff is just scrap balsa. The payload bay is the medicine bottle topped by half of a plastic Easter egg. Personally, I think rockets should have a purpose and the medicine bottle makes a fine capsule for an unsuspecting insect who has crawled onto your work bench. Have fun, be creative, be cheap ! Perhaps next launch you might want to invite your friends to show up with their own rat-rockets and see what ideas their garbage has given them.

"The KOSMONaut" is published bi-monthly by the *Kansas Organization for SpaceModeling* NAR Section #427. Hard copy subscriptions are \$8 for 6 issues. Membership in KOSMO is \$15 a year and includes the "The KOSMONaut" (please specify hard copy or digital) and all club launch fees except for our annual contest KRAMO. Newsletter editor is the current KOSMO secretary Duane Lanterman. Submissions are always welcome! Membership and subscription checks should be made out to KOSMO and mailed to KOSMO 642 N. Homestead Rd. Great Ks.67530

# KOSMO 2022 LAUNCH CALENDAR

**MAY 21 – Hutchinson, Ks. - Ks. State Fair Grounds Parking Lot 10am-4pm Class 1 Rockets**

**JUNE 11-12 – Hutchinson, Ks. - Ks. State Fair Grounds Parking Lot – KRAMO 42 NAR Contest and Fun Fly (see events bottom of this page)  
Saturday 10am-5pm Sunday 9am-3pm**



**JULY – no local launch – NARAM in Missouri**

**AUGUST 13 – Hutchinson, Ks.- Ks. State Fair Grounds Parking Lot – 9am-2pm  
Class 1 Rockets**

**SEPTEMBER 10- Ellinwood, Ks. - Lanterman Family Farm – Final Frontier Fun  
Fly – 10am-5pm -10,000' FAA Waiver  
*Alternate date September 24***

**OCTOBER 8 – Ellinwood, Ks.- Lanterman Family Farm- Rocket'tober – 10am-5pm – 10,000' FAA Waiver  
*Alternate date October 22***

**NOVEMBER 12 – Hutchinson, Ks. - Ks. State Fair Grounds Parking Lot – 2pm  
with illuminated rockets after sunset**

The parking lot at the State Fair grounds in Hutchinson is our low/mid power field. We do limit flights to Class 1 rockets (which generally means up to a G impulse motor max) *that can reasonably be expected to stay within the bounds of the field. (this is at the discretion of the range safety officer)*

At Ellinwood we will file an FAA waiver good to 10,000 ft above ground-level. Generally speaking, this will allow up to a K impulse motor. Note that you must be properly certified, or be getting your certification, to fly high power rockets. If you would like to get Level 1 or Level 2 NAR certification, we have members that can help you with that. Please contact us if you have any questions. While high power rockets are allowed at this launch, most flights tend to be of low and mid power rockets. So do not hesitate to join us even if you are not flying high power.

WITH KANSAS WEATHER THESE DATES ARE CERTAINLY SUBJECT TO CHANGE. UPDATES CAN BE FOUND AS THE DATES APPROACH ON OUR CLUBS FACEBOOK PAGE, OUR CLUB EMAIL LIST, AND OUR CLUB'S WEBSITE.

## **UPCOMING KRAMO 42 EVENTS NAR Sanctioned Contest June 11-12**

**“1/4A” Streamer Duration (NRC event)**

**“1/2A” Rocket Glider (NRC event)**

**“A” Parachute Duration (NRC event)**

**“A” Helicopter Duration (NRC event)**

**“B” Eggloft Duration**

**Open Spot Landing**

**½ A 3-2T and 1/2A 3-4T engines available on site for \$1 each**

**COMPETITION ENTRY FEE \$7 (TEAMS \$14) SPORT FLIERS FREE**