



the **KOSMONAUT**

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THE TRADITION CONTINUES

The Kansas Organization for SpaceModeling had its roots planted in 1980 with a small group of rocketeers holding informal launches in rural Sedgwick County. As 1981 rolled around founding members Mark and Bonnie Johnson were building a home in the country with a good sized yard surrounded by mostly open country. It was decided in June of 1981 a formal NAR sanctioned competition would be held at their home (still mostly under construction) and the name KRAMO was chosen, standing for Kansas Rocket AeroModeler Open. Through the years that contest has continued, moving to the open area of Lake Afton after the housing around Mark and Bonnie's home started to become crowded and then moved to our current location, the large parking lot of the Kansas State Fair in Hutchinson. This years contest, the 42nd was a bit short on contestants but the flavor was still there and enhanced by the presence of the Wichita Area TARC team fresh off their 49th place finish in DC.

Proceeding the event the weather forecast looked most favorable for Sunday with Saturday a question mark. In reality Saturday turned out to be a pretty good day, hot and a bit breezy. Sunday on the other-hand was a complete surprise with the weather quite unsettled resulting in just a few contest and sport flights. That's Kansas for you.

We will cover briefly the contest results. KRAMO traditionally has an open spot landing and egg event. The Open Spot saw the largest number of contestants and first place went to Luke Thompson, second to Jack Thompson, and third to Duane Lanterman. It is such a simple contest on the surface but hitting the spot most times proves more difficult that first thought. Contestants waited for Sunday to do "B" Eggloft duration and as the winds were not favorable no fights were attempted. Jeremy Lepel put up several flights on Saturday in "B" Eggloft Altitude participating in this NSL official event with plans to attend NARAM in Springfield in July.

¼ A Streamer had a number of contestants with Duane Lanterman snagging first place, Jeremy Lepel locked in second place, and Steve Saner placed third. "A" Helicopter was a disappointment with only one contestant and Duane Lanterman had two nice boosts but couldn't manage one rotation on either flight. The most interesting event was "1/2A" Rocket Glider. All three contestants used the same model, the Apogee Cirrus Breeze rocket glider. The totals were quite close with Duane Lanterman taking the top spot followed by Steve Saner, and Bill Lindsay a close third. The final event covered here was "A" Parachute Duration. Duane Lanterman launched his contest model with an ASP "Hang Time" chute and the timing was perfect with thermals over and near the field. The model took full advantage, at times rising and getting further and further from the field. The model was visually lost at about 3 minutes and 13 seconds never to be seen again. Duane's 2nd flight was an Alpha with a standard chute and easily collected first place. Steve Saner again took second and Jack Thompson was third. Overall points revealed Duane Lanterman the champion with Steve Saner slotting into second place and Jack Thompson finishing up third in his first attempt at competition flying .

The sport flying portion of KRAMO was well attended with 19 individuals putting up flights along with flights by the Wichita Area TARC team. The most prolific flier was Jeremy Lepel with 8 flights, most of them various sport scale models including a nice Mercury Redstone and Super Falcon. Young fliers Jack Thompson and DJ Wyant each had 6 flights of various Estes kits for successful fights. Zac Twigg flew his Cool Spool and Bumblebee each twice on G motors for some nice noisy flights. Bill Lindsay put up his two-stage spool, his Mean Machine first on a standard D and then more dramatically on an F30 and then brought out his freshly

painted Deuce's Wild for a nice flight. Fred Smith had 3 flights of his self-designed models out of his tower. Keith Ravenstein brought out an Alpha Maxi 3 belonging to the late Ron Snow for two flights. A number of modelers had 2 sport flights to their credit including Wichita Area TARC Board of Director Luke Thompson, Jacob Norris from the TARC team, and Duane Lanterman. Nebraskan Bob Flagle also had two flights including a special one about mid-afternoon. A memorial service for long time NAR member Ric Gaff, who passed in Oct of '21, was being held in Ft. Wayne Indiana as we were launching in Hutchinson. We took the time out to read a short bio on Ric, had a moment of silence and Bob launched his Star Snoop goonie in his memory. Ric was know for his unusual rockets and always had a 'one liner' for any situation of the flying field. TARC member Gabe Shankar and KOSMO members Steve Saner and Jayla and Kiera Wyant provided sport launches to the total. There were 4 fly it/take it fights during Saturday afternoon by some very enthusiastic first timers and the Wichita Area TARC team flew four of their TARC rockets on F motors as a way of celebration their success in DC.

Saturday evening we were treated to a BBQ by the TARC team which included hamburger, hot dogs, baked beans, potato salad, chips, cookies and drinks. No one went away hungry. Sunday at noon at the conclusion of our launching a number of members ate at Qb0ba before returning to their respective homes.

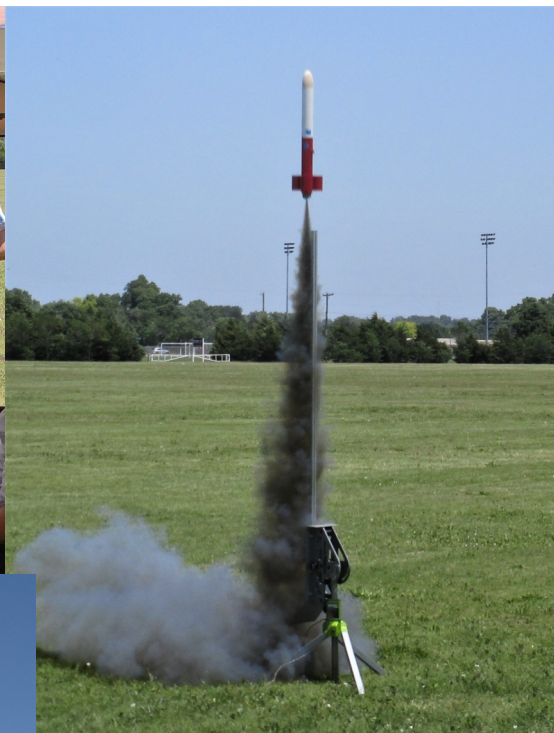


Left: Part of the KRAMO crew on a hot June afternoon. Middle row: Bill Lindsay helps some youngsters with their fly it take it rockets. Bottom: It's chow time out on the field.





Beating the Kansas heat.



TARC rocket takes off!



Bill's Mean Machine being really mean on an F30

Launch Saturday afternoon in memory of NAR member Ric Gaf



More KRAMO photos -

Left: A rocket slowly desends to the recovery zone Sunday morning. The weather was so unsettled that very few flights took place. We were visited by some folks who were on a cross county trip and were waiting for the Kansas Cosmophere to open and enjoyed sharing our hobby.



WICHITA AREA TARC TEAM / AIR CAPITAL STEM CLUB

WASHINGTON DC TRIP TO NATIONALS

The Wichita Area TARC Team / Air Capital STEM Club made its 2nd trip to nationals May 7-18 2022 after being established in 2020 after USD 259 defunded the program in 2019. This is TARC's 20th Anniversary and the 14th year Wichita has been represented in the nationals.

Day one started around 4:30 AM on Saturday May 7th ending in Richmond, IN. after 13 hours on the road. On Sunday we started the day with a continental breakfast and then finished the trip to our home for the next week in Sterling, VA after an additional 10 hours of driving.

After getting checked into our Airbnb we ate a late dinner then headed to Washington, DC to check out the National Mall at night. Most of the team decided they wanted to run a few laps around the US Capital before heading towards the Washington Monument, White House, and Lincoln Memorial.

After getting everyone's passes for the Metro, we spent most of the day Monday visiting the Ford Theater. Petersen House, South Lawn of the White House, Washington Monument, and a few other sites on the National Mall. Tuesday we visited Arlington National Cemetery, then headed out to The Plains, VA. to get some data flights on a few of our rockets. Bill and Jeremy even had the opportunity to introduce a few new young folks to rocketry with KOSMO's Fly It / Take It rockets. The young folks where the grandchildren of the people that own the horse ranch where we do practice flights. Practice flights are not allowed at TARC field, The Great Meadow.

Wednesday, we spent a majority of the day at the US Capital Building visiting with Kansas Congressman Estes and Senators Marshall and Moran. Afterwards we visited the Library of Congress. Mother nature wasn't cooperating so we headed back to the Airbnb so the kids that had school work could get it done, laundry for those that needed it and a team meeting that evening.

Thursday Luke Thompson's aunt and uncle invited us to visit Annapolis for a tour of the US Naval Academy. Luke's uncle is retired from the Academy. After our visit to the Academy, we went to their home on Chesapeake Bay for a cookout, the kids swam and we had a couple of boat rides on the bay. The fascinating part of the tour was seeing where the National Anthem was written.

Friday the day was mainly spent getting school work done and preparing to fly on Saturday. Friday evening the team attended the safety meeting and received our credentials for Saturday.

Saturday morning, we woke up to 400' ceilings and rain. After a 45-minute drive to The Great Meadow and a short delay the 2022 TARC Nationals were underway with on and off rain showers. Thanks to Jeff Schellenger for the use of his 7'x14' trailer as it proved perfect for the team to prepare their rockets in and give us shelter for most of the morning. The team finished 49th out of 740 schools.

Sunday, we visited the Smithsonian's Udvar-Hazy annex. The team also visited with one of our sponsors Scott Francis. Scott's dad was the chief test pilot at Beechcraft and was also instrumental in getting the Beech Starship certificated. Scott flies a solo aerobatic routine at airshows and is also a captain for United Airlines.

Monday, we headed to Dayton, OH. visiting Erockets. Randy and his team kept everyone entertained and busy purchasing items for over 3 hours.

Tuesday was a short visit to the US Air Force Museum before undertaking an 8-hour drive to Columbia, MO. Mark & Bonnie Johnson hosted the team for the evening, with pizza for dinner, a few hours of visiting, and breakfast Wednesday morning. Mark even gave each team member a rocket kit.

A team picture was taken and it was off to Kansas City for lunch at Arthur Bryant's BBQ, then the short trip back home.

The team would like to "THANK " our sponsors, mentors, vendors, parents, and the teams Board of Directors. Our sponsors: KOSMO 427, AIA, Dondlinger Construction, The Association of Engineers, Scott Francis, Steve Hamous, Steve Saner, Dr. Jonathan Scrafford, Mark & Bonnie Johnson, Duane & Sharon Lanterman. Our BOD: Brad Smith, Mark Logan, Jeremy Lepel, Jeff Schellenger, Luke Thompson, Dr. Jonathan Scrafford. Our mentors, John Palmer, Steve Hamous, Steve Saner. I want to apologize if I missed anyone as I'm working on getting this year wrapped up and getting ready for the 2022-2023 season.

Submitted by, Bill Lindsay KOSMO 427 VP, Wichita Area TARC Team President

THERE IS NO WAY WE CAN PROPERLY SHOW PICTURES OF THE GROUP BUT HERE ARE A FEW WE'D LIKE TO SHARE.



On the field at The Great Meadow



Visiting the Washington Monument



The team at the Capital with another great Kansan. We still like "IKE"

More Wichita Area TARC Team/ Air Capital Stem Club photos



The team stayed at the home of founding KOSMONaut's Mark and Bonnie Johnson on the trip home.



Lots of good eats on the trip.

Bill never misses an opportunity to hand out FlyIt/TakeIt rockets.



Looking mighty sharp!



Where it all started.



KOSMO 2022 LAUNCH CALENDAR

AUGUST 13 – Hutchinson, Ks.- Ks. State Fair Grounds Parking Lot – 9am-1pm Class 1 Rockets *It's been a bit since we've got together, let's have fun early before the sun heats things up!*

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

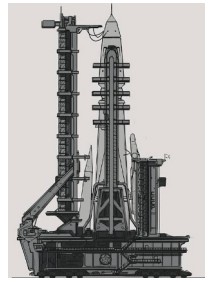
NOVEMBER 12 – Hutchinson, Ks. - Ks. State Fair Grounds Parking Lot – 2pm with illuminated rockets after sunset

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.

"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 Bend, Ks. 67530



MORE KRAMO PHOTOS

**Zach's Bumble Bee, Jeremy's
Mercury Redstone, DJ's Star Orbiter.**

MORE KRAMO PHOTOS