



the KOSMONAUT

THE OFFICIAL JOURNAL OF THE KANSAS ORGANIZATION FOR SPACEMODELING
CELEBRATING 40 YEARS OF CONTINUOUS PUBLICATION

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KOSMONAUTS GATHER FOR LUNCH IN MAY



Thirteen members of KOSMO met in May in downtown Hutchinson to visit and eat some good food at the renowned Anchor Inn. We had planned a launch that day but the winds were a bit over acceptable limits. Bob Flagle who resides in Nebraska took the opportunity to finally head south to Kansas after pandemic restrictions were finally relaxed. Rockets were the main topic of course with 5 members planning on making the trip out to Colorado for NSL that next weekend. Our

competition event KRAMO was discussed and we checked out the new Estes starters, the new Antar kit from Estes was admired and several members showed off their new creations and projects.

KOSMONaut's Certify Level 1



ZACH TWIGG EARNED HIS LEVEL 1 AT THE NSL LAUNCH IN ALAMOSA, CO.



KA'LON KIRK EARNED HIS JR. LEVEL 1 IN PUEBLO, CO. AT THE TARC FINALS.

KOSMONaut's ATTEND NSL IN COLORADO

5 KOSMONauts spent the Memorial Day weekend in the open spaces of Colorado. Those in attendance included KOSMO president Keith Ravenstein, club webmaster and contest director Steve Saner, DJ Wyant and his dad Dustin and new member Zac Twigg. Keith showed off his cooking skills by preparing breakfast each morning on the field for the guys. During their time there Keith was able to establish a personal altitude record of just a bit over 7000' with his Mach One Black Hole powered by a I205 and dual deployment. Steve achieved success with his self designed Sky Hogg. This was his third attempt at a launch to air start 2 motors and this time things went very well. The model left the pad on a K695 and shortly afterwards was joined by two J270's. This big model just edged over the one mile line to a graceful landing not far from the launch pad. Zac had a successful Level 1 flight, see photos on the cover of this issue. Zac also seemed to clean house at the raffle taking home some very nice hardware. Dustin flew his Mach One Black Hole at the launch and took some photos to keep the KOSMONaut editor happy. All in all the guys had a great time at NSL.



SKY HOG LAUNCH !

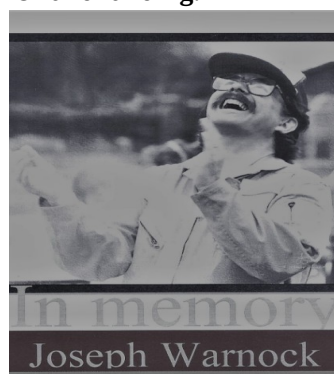


BLACK HOLE TO 7000'

Joe Warnock's Life Celebrated



Joe Warnock's life was celebrated on Saturday June 5 at the Independence Municipal Airport. Joe passed November 2020. He was a founding member of KOSMO in 1980. Pictured at the top left are a number of KOSMONaut's who came to honor and reflect on someone who truly was their friend. Included in the picture is his wife of 51 years and several other founding members. All pictured were friends of Joe for 35-40 years. The local EAA Chapter, which Joe helped found, flew over the field in his memory. A model rocket was launched in the afternoon for this former teacher who was best remembered for his third grade rocketry program. Pictured top right is long time friend Mark Johnson from Columbia, Mo as he prepares the rocket for launch and on the bottom left is one of Joe's third graders (now a bit older) launching the rocket. Many family members, former students, and friends were in attendance for this celebration of a life well lived. A week later at KOSMO's launch in Hutchinson, Ks. Duane Lanterman launched one of Joe's rockets in his memory (bottom middle and right) for a picture perfect launch and landing.



KRAMO 4 I TAKES PLACE UNDER NEAR IDEAL CONDITIONS

Our long running NAR competition event, KRAMO, took place this year with temps in the low 90's, the humidity took a break, and the winds remained under 10 mph for the two days. We had 6 individuals and 2 teams competing in 6 events, including members from Nebraska and Missouri. The top three places are listed below in each event. Winners received their choice of Subway gift cards or an Estes kit. Saturday evening a number of members broke bread together in downtown Hutch and the awards ceremony Sunday was conducted at the field instead of our traditional pizza place. Special thanks go to our contest director Steve Saner for his preparation and computer scoring. This year he tried individual event cards for each competition flight and these worked very well. Besides the competition flights the two days saw 57 sport flights with a special shout out to new member Jeremy Lepel who was the most prolific sport flier. There were some very interesting and fun flights to watch. Thanks to everyone for supporting this event.

OPEN SPOT LANDING

1ST STEVE SANER
2ND KEITH RAVENSTEIN
3RD JOHN PALMER

1/2A SUPER-ROC

1ST DUANE LANTERMAN
2ND BOB WINGATE

1/2A HELICOPTER

1ST BOB WINGATE
2ND JOHN PALMER

B EGGLOFT

1ST JOHN PALMER
2ND DUANE LANTERMAN
3RD BOB WINGATE

1/2A BOOST GLIDE

1ST STEVE SANER
2ND KEITH RAVENSTEIN
3RD DUANE LANTERMAN

1/2A STREAMER

1ST JEREMY LEPEL
2ND DUANE LANTERMAN
3RD BOB WINGATE

OVERALL WINNER 1ST DUANE LANTERMAN 2ND JOHN PALMER 3RD BOB WINGATE



Mom and Dad Wyant supervised two teams made up of their kids Jayla and DJ and Aimee and Kiera.



Contest Director Steve Saner enters data and guards the eggs !



Perhaps we should have used John Palmer's pad for SPOT LANDING !



Jeremy Lepel had a lot of fun launching a wide variety of sport rockets.

SEE BACK PAGE FOR GROUP PHOTOS FROM DAY ONE AND DAY TWO.

BILL LINDSAY REFLECTS ON TARC TEAM TRIP TO NATIONAL ROCKETRY COMPETITION

Editors Note: The American Rocketry Challenge National Finals are usually held in Washington DC each year. Organizers decided it would be safer given the covid challenges of 2020 to spread it out across the country this year deciding on 11 regional sites, The Wichita Area TARC team who qualified as one of the top 100 teams picked the site in Pueblo Colorado as their destination. Team President and Coach Bill Lindsay reflects on the trip to Colorful Colorado.

The Wichita Area TARC Team departed Wichita on Tuesday June 15, 2021 arriving in Parker, Co around 4:30 MDT at our Airbnb. We spent the rest of the evening settling in, grocery shopping and getting dinner.

Wednesday morning we drove down to Colorado Springs and visited Pikes Peak. After about an hour at the summit we decided it was time to head back down. The temps at the base were 94 degrees while the summit was low 50's, upper 40's. About halfway down the mountain is the brake check point where we visited the gift shop. (Colorado has a lot of gift shops!) Once down the mountain we found something for lunch and headed over to Apogee Components where Tim Van Milligan welcomed us and gave us "the tour." We couldn't leave without purchasing some motors and other goodies that we needed. It was then back to Parker Co for relaxation and dinner.

Thursday morning we went down to Florence Co and did some practice flights at the same field that Estes Rockets does their test flights from. It was neat seeing the kids work on the issues such as flying in the mountains and figuring out the winds. The kids made some great progress after a couple of flights. We then had a short team meeting to figure out what we needed to do to have successful flights. About mid-afternoon the temperatures had soared to about 102 degrees so we packed up and headed to Penrose to visit Estes Rockets and visit with Bill Stine who sent the team home with some great Estes swag ! On the way back to Parker we stopped in Colorado Springs at Rudy's BBQ which had reasonable prices and good food. Once back to the Airbnb the kids played on the trampoline, played corn hole and just goofed off until they decided they needed some ice cream.

Friday morning KOSMONaut's Brad and Robin Smith of Leavenworth Ks arrived. In the afternoon we visited the Downtown Aquarium in Denver. Since the Mile High Stadium was just across the highway the kids knowing I am a huge Bronco's fan, let me visit ! The evening was spent making sure the TARC rockets and some high power models were ready for Pueblo.

Saturday morning we were up at 5 am and arrived at the Hudson Rocket Ranch around 8:30. The trailer was unpacked and I went to find our contact from SCORE. We held a short team meeting after getting set up and the kids took their rocket to the RSO for a preflight inspection and then prepared it for the first round of competition.

The first flight our score was 27.76 . This was not what we wanted but it was a good flight for only having made a handful of flights from this elevation and in this kind of weather conditions. The second flight looked good until we hit a thermal on the way up and then we caught a couple under chute. The kids were happy with the way both flights had gone and they learned a lot. Our score on the second flight was 136.36.

After the TARC flights were over, team captain Ka'lon Kirk was ready for his Jr. Level 1 Cert flight. Ka'lon and myself reviewed a few things and then proceeded to prepare the KOSMO Gen 2 rocket for flight. The flight was successful and after recovering his rocket and receiving congratulations Tim Van Milligan and John Boren signed his rocket.

Brad Smith made a few high power flights with a couple of his favorite rockets and I was able to launch my Composite Warehouse Lotus 3 on it's maiden flight. Arriving back at our Airbnb we made the trailer ready for the trip back home and spent the evening relaxing and grilling hamburger and brats.

Sunday morning after final packing we headed to the Garden of the Gods in Colorado Springs and a couple of local museums. After a stop at Rudy's BBQ again we headed east to Kansas around 5 pm MDT. After battling several thunderstorms we arrived in Russell Ks for the night and Monday morning made

the final leg towards Wichita, unpacking the trailer, returning the U-Haul , dropping the kids off and then getting some well deserved rest !!

A special shout out to all the team members;

Members making the Colorado trip, **Ka'lon Kirk (captain), Maddie Lieker-Walter, Keedon Kirk**

Members not on the trip, **Austin Leiker-Walter, William Carmichael, Kaden Eskins, Jaden Billings**

Wichita Area TARC Board of Directors, **Bill Lindsay-President/Coach, Bradley Smith VP, Mark Logan Treasurer**

Technical Advisors **Steve Hamous, John Palmer, Steve Saner**

Snacks, **Tina Lindsay**

Addendum : Reflecting back over the past 18 months I am so proud of these kids having to deal with the principal pulling the plug on the program in January 2020, the kids dealing with Covid-19 and remote learning, to the challenges of organizing a nonprofit so the program could continue. We started with nothing last Fall, then raising the money to purchase materials before the end of 2020. In 2021 we had a couple of kids and their families come down with Covid-19. Not knowing what the future held for us and battling all the nay sayers that said we wouldn't be successful we concluded with a very successful year. Thank you to everyone ! A complete list of sponsors and vendors will be in the next issue of 'the KOSMONaut.'



Pike's Peak - Kansas to the East



Estes Industries - with Bill



Working in the shop - Wichita

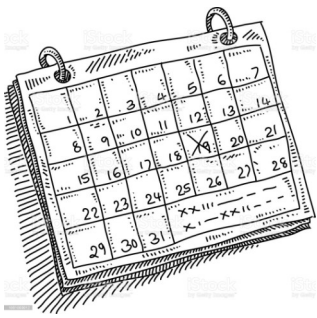


Apogee Components and Tim

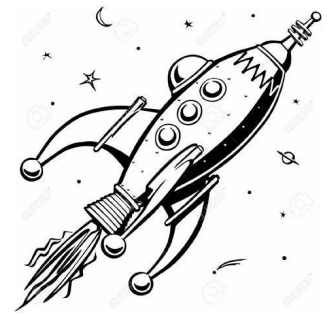


Launch Day - Pueblo





2021 KOSMO LAUNCH CALENDAR



**SPORT LAUNCH – AUGUST 14 – HUTCHINSON – STATE FAIR PARKING LOT
9AM – 2PM**

**FINAL FRONTIER FUN FLY – SEPTEMBER 11- ELLINWOOD - LANTERMAN
FAMILY FARM – 10,000' WAIVER – BBQ @ NOON.
10AM-5PM. Alternate weather dates SEPT. 18 AND 25.**

**ROCKET'TOBER – OCTOBER 9- ELLINWOOD - LANTERMAN FAMILY FARM-
WAIVER TO 10,000' -10AM-5PM Alternate weather date is Oct. 23**

**NIGHTFLIGHT – NOVEMBER 13 – HUTCHINSON- STATE FAIR PARKING LOT
2PM WITH NIGHT LAUNCH AT SUNSET.**

Launches are always subject to change. Latest info can be found at our clubs website, facebook page, and email list.



**LEFT: KRAMO 41 DAY ONE
CREW**

**BELOW: KRAMO 41 DAY
TWO CREW**



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