

ON THE HORIZON



SEPT 2014



If only your name could collect frequent flyer miles. NASA is inviting the public to send their names on a microchip to destinations beyond low-Earth orbit, including Mars.

Your name will begin its journey on a dime-sized microchip when the agency's Orion spacecraft launches Dec. 4 on its first flight, designated Exploration Flight Test-1. After a 4.5 hour, two-orbit mission around Earth to test Orion's systems, the spacecraft will travel back through the atmosphere at speeds approaching 20,000 mph and temperatures near 4,000 degrees Fahrenheit, before splashing down in the Pacific Ocean.

But the journey for your name doesn't end there. After returning to Earth, the names will fly on future NASA exploration flights and missions to Mars. With each flight, selected individuals will accrue more miles as members of a global space-faring society.

"NASA is pushing the boundaries of exploration and working hard to send people to Mars in the future," said Mark Geyer, Orion Program manager. "When we set foot on the Red Planet, we'll be exploring for all of humanity. Flying these names will enable people to be part of our journey."

The deadline for receiving a personal

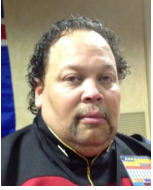
"boarding pass" on Orion's test flight closes Friday Oct. 31. The public will have an opportunity to keep submitting names beyond Oct. 31 to be included on future test flights and future NASA missions to Mars.

To submit your name to fly on Orion's flight test, visit:

<http://go.usa.gov/vcpz>

Inside this issue:

Captains Log	2
Engineering Log	3
Flight Control Log	4
XO Log	5
Engineers Log	6
Trek News	7
Boeings "Space Taxi"	8
Trek News (Cont.)	9
Star Wars News	10
Horizon Calendar	11
NASA Antarctic Ice Study	12



Captains log: Vice Admiral Eddie Allen III

I notice that my article is becoming a unit diary of sorts for the chapter. Our activities is what interests me so much more than a meeting so I write about them. I wish everyone could join us for all of them. I hope you enjoy my recounting our events for those who cannot make them.

This was a busy month. We got out and about a lot. I've tried to include a bunch of photos as well as the written text.

We started the month coming off of a busy Labor Day weekend but our first actual activity was the Columbia Star Dinner Train. Boy was that a lot of fun! I'll admit that the food was not as great as I'd hoped but that does not mean it was bad. It was pretty good for a train. They had their chef take a bow.

There was a train robbery. It was the re-enactment of a Civil War robbery. Well kind of with a lot of humor and fun. But, I did not enjoy the robbery or the food nearly as much as I did the company I had and the beautiful scenery.

Most of the actors were a lot of fun. Now I really want to go to Bissel Mansion for their dinner theater.



Captains Log (cont.)

Our next activity was the MIZZOU football game. Sadly only two were able to get together for that but we had a great time and got a win to boot. We had seats on the 40 yard line or so and were not as high up as last year. Only a few rows from the entrance. Consider trying to join us next year for this as it's always a great time and a truly memorable experience. For quite a while it looked as though Central Florida was going to make it a bad day or at least close. The Tigers came through in wonderful fashion in the end.

We had a dinner out at Cheddars again. We always seem to end up there or Culvers. It was a nice night out and a great meal.



We caught up with Tony Favron for the Mexican Independence Festival on Cherokee. We spent hours enjoying the music and the food. I also walked away with about \$30 worth of baked goods from a wonderful little bakery in the neighborhood. Tony plans to join us at the meeting this month as well.

On that same day we also went to the 100 year celebration of Frontier Park in St. Charles. Our group hit up spice and hot sauce stores. We went to the Bike Café and the wine shop. We also had ice cream, of course. We could never go without our treats.

I hope everyone bought their ticket for "Drunk or Treat!" Rhonda and I are going. We are not getting drunk and plan to stay sober and enjoy the event. Tony and Randy will be on that ride with us.

End Log



Flight Log Commander Rhonda Allen

For the first time in a long time I was able to make it to more than one outing in a month! Yeah, Rhonda!

Eddie and I drove up to Columbia to ride on the Columbia Dinner Train. Our train ride was a lot of fun. I didn't care so much for the acting and the show was so short but the ride was great. I enjoyed hanging out with Connie, well and our guys, too. Lol.

I think the mystery was the photographer that showed up at every crossing for about half of our trip. He'd take a bunch of pictures and jump in his car and he'd be at the next crossing. And then, suddenly, he wasn't there anymore. Someone said he might work for a newspaper. On the way back to Columbia he did it again.

You would think my month stopped there since I can normally only get off for one of our social events. Well this time I made two more.

I went to the Cherokee Street Festival and they had so much good food available that my brain went into overload. Thanks to my loving husband, I had several great drinks as well. Rick was the designated driver for us. Thanks Rick!

I had so much fun and, of course, there were churros. I love churros. I've enclosed a picture so you will know what they are. Eddie brought a large box of them home for me.



I was disappointed that the music was by a DJ and not a live band. Bands draw crowds. We were too early for the live music. I wanted to put Eddie on the spot since we had salsa training when we were in Mexico. Connie might have been able to get a funny video.

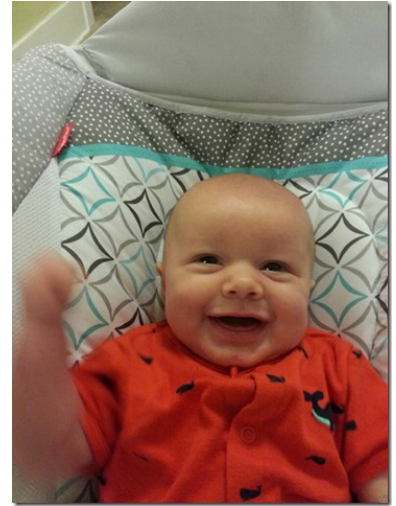
My third event for September was to go to the Frontier Park Centennial. That was too short. We didn't spend enough time there because we started too late in the day. I love walking up and down old Main Street shopping. Eddie and I went back a week later and had dinner at Trailhead Brewing. I have been trying to get him to go there for months and finally, we got to go.



Flight Control (Cont.)

I'm looking forward to the October meeting and I'm still trying to get the Hermann for Oktoberfest. Anyone interested?

End Log



I'm Ready Grandma Rhonda
Let me know when and I'll be there

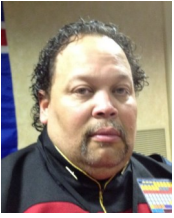
XO Log Commodore Khane Williams

As you have read by now, September was a busy month for the Horizon. I get tired just thinking about all the places we went and all the fun we had. The train ride was fantastic. Now I can say I've ridden on a train. Check one off my bucket list.

I love Fall. The trees turning colors and there are so many fun festivals to attend. Although not a real festival I look forward to going to the Peach Tree Farm just across the bridge from Rocheport. On the weekends they turn the place into a pumpkin festival of sorts. I have never seen so many different kinds of pumpkins. There is a maze for kids and face painting, a tractor hay ride and at the end of the day you purchase your pumpkin to take home and carve for Halloween.



I am really looking forward to Drunk or Treat. It should be a very fun event and it will be good to see Toni and Randy again. I am still working on my costume (a must for the event I am told.) I can't decide if I want to go as the creature from under the bed, the creature from the bathroom lagoon or a bit more refined as a Civil War period lady. Oh well I have a couple of weeks to decide.



Engineering log: Vice Admiral Eddie Allen III

Surprises from the world of Trek

Transparent Aluminum

Alon is transparent aluminum armor. It starts as a powder before heat and pressure make it crystalline. It is strong enough to withstand bullets and is stronger than bullet proof glass is polished.

Hypospray

Otherwise known as jet injectors they have been around as long as Star Trek. They hold a large canister and are used in mass injections. They are similar to an automotive paint gun.

Universal Translator

Maybe not like Star Trek but there are multi translators for the popular languages. Yes, and I have one on my phone. They work pretty well. They use voice recognition and a lot of programming to get it done.

Geordi's Visor

Yes, they have finally created one. They implanted a chip behind the eyes of rats and used a glass to video what was happening. They believe that a person with 20/400 sight will be able to get to 20/80. Not good enough to pass a driving test but good enough to survive a normal day.

Telepresence

AT&T and Cisco have teamed up to use audio, video and ambient lighting to mirror surroundings and mimic sound.

Engineers Log (Cont.)

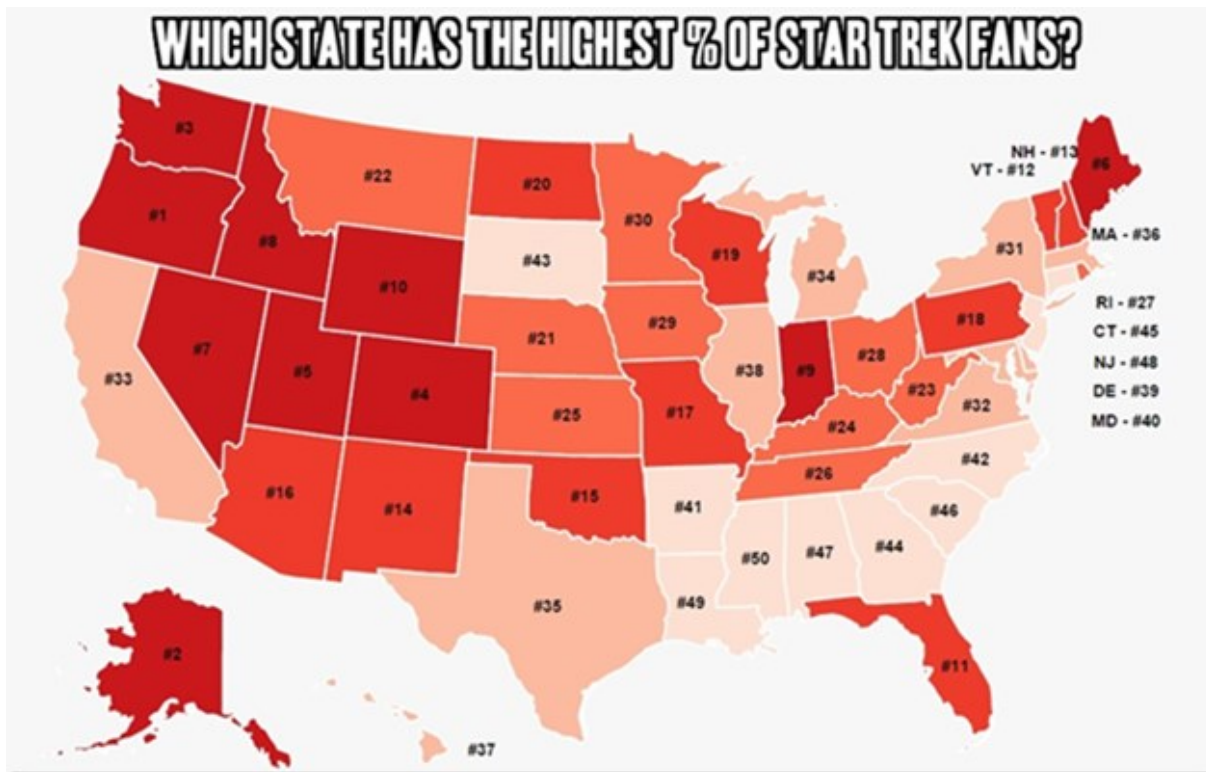
Tricorders

There is an “X” prize contest to create this item and many teams are working on it. They will monitor biological functions and record them. This contest will complete soon with a winner who can provide this product.

End Log

Trek News – Sept 2014

Where does our state rank in Star Trek popularity? Missouri is # 17.



George Takei lends his voice to Star Trek/Taken: <http://trekmovie.com/2014/09/26/watch-george-takei-voices-animated-star-trektakenlittle-mermaid-mashup/>

Alex Salmond and the Wrath of Khan Voters: <http://trekmovie.com/2014/09/24/watch-scottish-leader-alex-salmond-warns-of-wrath-of-khan-voters/>

Shatner & Nimoy teaming up for a VW commercial: <http://trekmovie.com/2014/09/23/vw-germany-teases-star-trek-themed-campaign-featuring-shatner-nimoy/>

Continued on page 9

Boeing's 'space taxi' includes seat for a tourist

By Irene Klotz

CAPE CANAVERAL Fla. (Reuters) - Boeing Co's proposal to develop a so-called space taxi for NASA astronauts includes a seat for paying tourists to fly to the International Space Station, the company's program manager said on Wednesday, a first for a U.S. space program.

The \$4.2 billion, five-year contract allows Boeing to sell rides to tourists, Boeing Commercial Crew Program Manager John Mulholland told Reuters, adding that the price would be competitive with what the Russian space agency now charges to fly tourists to the orbital outpost.

"Part of our proposal into NASA would be flying a Space Adventures spaceflight participant up to the ISS," Mulholland said, referring to a Virginia-based space tourism company that brokers travel aboard Russian Soyuz capsules.

Now that Boeing has won a share of NASA's space taxi contract, "we hope ... to start working with the ISS program to make it happen," he said. "We think it would be important to help spur this industry."

Space Adventures is scheduled in January to begin training British singer Sarah Brightman for a 10-day visit to the station, a trip costing \$52 million, according to Tom Shelley, president of Space Adventures.



NASA astronaut Randy Bresnik prepares to enter Boeing's CST-100 spacecraft for a fit check evaluation at the company's Houston Product Support Center in this undated image. NASA will partner with Boeing and SpaceX to build commercially owned and operated "space taxis" to fly astronauts to the International Space Station, ending U.S. dependence on Russia for rides, officials said on Tuesday. (REUTERS/NASA/Handout via Reuters)

NASA selected the company's crew transportation system and spacecraft for a contract in the final phase of certification for privately built and operated integrated systems to carry astronauts from American soil to the orbiting laboratory.



There us a rumor that both Shatner and Nimoy will be in the next Star Trek movie.

Brazil has a Spock Candidate: <http://trekmovie.com/2014/09/22/spock-candidate-wants-brazil-to-vida-longa-e-prospera/>

Roberto Orci has dropped out of the Power Rangers movie to key in on the next ST movie. It is scheduled to begin filming in Feb 2015.

ST Delta Rising is set to release on October 14th.

Rumor has it that JJ Abrams voice will be all over the next movie even if not directing it: <http://trekmovie.com/2014/09/16/simon-pegg-jj-abrams-voice-will-be-all-over-next-star-trek-movie/>

FYI: Did you know that TOS model is in the Smithsonian:



Chris Pine is in "Stretch."



Creation Con Panel of the Next Generation cast: http://www.youtube.com/watch?v=CofeNGmZBFq&list=UUde64xbEYgvfM_gKXglRqA

Leonard Nimoy beams into the Salt Lake City convention: <http://trekmovie.com/2014/09/11/watch-leonard-nimoy-sings-way-to-eden-song-talks-up-and-down-roddenberry-relationship-more/>

Shatner And Burton talk wine: <http://www.startrek.com/article/burton-and-shatner-talk-life-over-wine>

Into Darkness accents and Pranks and more: <http://trekmovie.com/2014/09/05/stlv2014-video-simon-pegg-talks-accents-karl-urban-talks-pranks-more/>

Upcoming Star Trek Costume Auction: <http://www.trektoday.com/content/2014/09/trek-costumes-to-be-auctioned/#more-36743>

Nimoy explains Spock casting: <http://trekmovie.com/2014/09/08/startrek48-watch-leonard-nimoy-talk-about-how-roddenberrys-lieutenant-led-to-spock-casting/>

Star Trek The Compendium, BluRay set release is Sept 9th: <http://trekmovie.com/2014/09/07/review-star-trek-the-compendium-blu-ray/>

Star Wars News – Sept 2014



Filming is wrapping up for SW episode VII.

The Clone Wars Legacy: <http://www.starwars.com/video/the-clone-wars-legacy>

New Star Wars Game coming soon: <http://www.starwarsgalacticdefense.com/>

Star Wars Rebels: Spark of Rebellion, Oct 3 at 8 pm: <http://www.starwars.com/news/star-wars-rebels-spark-of-rebellion-to-debut-early-on-watch-disney-xd>



Carrie Fisher talks SW7: <http://www.starwars7news.com/2014/09/carrie-fisher-talks-star-wars-episode-7-2.html>

Set photos from SW7: <http://www.starwars7news.com/2014/09/even-more-photos-and-video-from-the-episode-vii-set-at-greenham-common.html>

SW8 Writer/Director talks about the experience and the filming schedule in 2015: <http://www.starwars7news.com/2014/09/rian-johnson-talks-about-writing-star-wars-episode-8-and-the-filming-schedule-full-interview-part-12.html>

Legos and SW: <http://makingstarwars.net/2014/09/new-2015-lego-sets-images-leak-including-star-wars-rebels-clone-wars/>



Millenium Falcon Close Up: http://www.youtube.com/watch?feature=player_embedded&v=3C7IUfVIOa4



Storm Trooper helmet may render him invisible:



Star Wars spin off movie for Obi-Wan? Is there a full schedule of SW movies coming? Lots of rumors out there...

2014: Rebels

2015: Episode VII

2016: Boba Fett

2017: Episode VIII

2018: Solo

2019: Episode IX

2020: Red Five

<http://www.starwars7news.com/2014/09/is-obi-wan-kenobi-getting-a-spinoff.html>

There is a rumor of Hasbro toys for SW7.

Greg Grunberg (Heros) made a cameo in SW7.

Where has Luke been leading into the new movie? Dagobah



JJ Abrams has purchased an Apple watch.

Al Pacino on why he turned down the role of Hans Solo: [http://](http://www.starwars7news.com/2014/09/liam-neeson-on-the-possible-return-of-qui-gon-in-episode-7-al-pacino-reveals-why-he-turned-down-han-solo-role-in-anh.html)

www.starwars7news.com/2014/09/liam-neeson-on-the-possible-return-of-qui-gon-in-episode-7-al-pacino-reveals-why-he-turned-down-han-solo-role-in-anh.html

SW Cantina Forum: <http://thecantina.starwars7news.com/index.php>

Yoda game: <http://www.starwars7news.com/2014/09/official-trailer-and-details-about-lego-star-wars-the-new-yoda-chronicles-game.html>

WHAT IS HAPPENING ON THE HORIZON

25-Oct

MONTHLY MEETING at 11:30

Mission CO's LUNCH: G & D's
 2101 W Broadway, 573-445-8336
<http://www.gdpizzasteak.com/>

Mission ACTIVITY: DoDeca Con Drunk or Treat
 Our Home Base will be the Isle of Capri Casino
http://www.iccweventsnetwork.net/?page_id=143
<http://bestevents.us/columbia-dodeca-cons-drunk-or-treat-2014/3914>

Tropical Liq,Corn Maze,Panhead Billy's,Paintball, Lazer Lanes,Tavern

Begins 2:30 pm near IHop \$15 each or \$25 per couple

CO's BREAKFAST: 44 Stone Public House

26 Oct

Mission

3910 Peachtree Dr, 573-443- 2726

<http://44stonepub.com/>

22-Nov

MONTHLY MEETING

Mission CO's LUNCH: Shakespeare's
 3911 Peachtree Dr, 573-443- 4350
<http://shakespeares.com/>

Mission ACTIVITY: Movie: "The Hunger Games,Mockingjay, Part 1"
<http://www.imdb.com/title/tt0455944/>

Mission XO's SNACK: Steak N Shake
 3004 Clark Lane, 573-886-8535
<http://www.steaknshake.com/>

NASA Begins Sixth Year of Airborne Antarctic Ice Change Study October 16, 2014



NASA is carrying out its sixth consecutive year of Operation IceBridge research flights over Antarctica to study changes in the continent's ice sheet, glaciers and sea ice. This year's airborne campaign, which began its first flight Thursday morning, will revisit a section of the Antarctic ice sheet that recently was found to be in irreversible decline.

For the next several weeks, researchers will fly aboard NASA's DC-8 research aircraft out of Punta Arenas, Chile. This year also marks the return to western Antarctica following 2013's campaign based at the National Science Foundation's McMurdo Station.

"We are curious to see how much these glaciers have changed in two years," said Eric Rignot, IceBridge science team co-lead and glaciologist at the University of California, Irvine and NASA's Jet Propulsion Laboratory (JPL) in Pasadena, California.

IceBridge will use a suite of instruments that includes a laser altimeter, radar instruments, cameras, and a gravimeter, which is an instrument that detects small changes in gravity. These small changes reveal how much mass these glaciers have lost. Repeated annual measurements of key glaciers maintains a long-term record of change in the Antarctic that goes back to NASA's Ice, Cloud and Land Elevation Satellite (ICESat) which stopped collecting data in 2009.

IceBridge researchers plan to measure previously unsurveyed regions of Antarctica. One example is a plan to look at the upper portions of Smith Glacier in West Antarctica, which is thinning faster than any other glaciers in the region. The mission also plans to collect data in portions of the Antarctic Peninsula, such as the Larsen C, George VI and Wilkins ice shelves and the glaciers that drain into them. The Antarctic Peninsula has been warming faster than the rest of the continent.

"The Antarctic Peninsula is changing fairly rapidly and we need to be there to capture that change," said Michael Studinger, IceBridge project scientist at NASA's Goddard Space Flight Center in Greenbelt, Maryland.

The mission also will collect data on Antarctic sea ice, which recently reached a record high coverage. This contrasts with declining sea ice in the Arctic and is due do a variety of factors such as changing wind patterns. Antarctic sea ice coverage is slightly above average and the growth varies from one part of Antarctica to another. For example, ice cover in the Bellingshausen Sea has been decreasing while ice in the nearby Ross Sea is growing.