

# On The Horizon

## February 2016



FEBRUARY 2016

### Ninth planet may have been discovered, researchers say

(from CNN 21 January 2016)

(CNN)You might have a replacement, Pluto. There could be another planet in our solar system.

Researchers at the California Institute of Technology have found evidence in the outer solar system of an object that could be a real ninth planet.

Nicknamed Planet Nine, it "has a mass about 10 times that of Earth and orbits about 20 times farther from the sun" than Neptune. That means "it would take this new planet between 10,000 and 20,000 years to make just one full orbit around the sun," according to Caltech.

Researchers Konstantin Batygin and Mike Brown haven't actually seen the planet, but other research helped lead them to conclude that there is one. Basically, they found that certain objects in the Kuiper Belt -- the field of icy objects and debris beyond Neptune -- had orbits that peculiarly pointed in the same direction.

Over time, mathematical modeling and computer simulation led them to the conclusion that a planet was exerting the gravity necessary to shape these orbits.

Brown says "there have only been two true planets discovered since ancient times, and this would be a third. It's a pretty substantial chunk of our solar system that's still out there to be found, which is pretty exciting."

Already, Caltech is pretty confident Planet Nine is large enough to rule out any debate about whether it's a true planet -- unlike Pluto, which got the boot in 2006.

Brown, who played a role in Pluto's demotion to a dwarf planet, says "all those people who are mad that Pluto is no longer a planet can be thrilled to know that there is a real planet out there still to be found. Now we can go and find this planet and make the solar system have nine planets once again."

Depending on where Planet Nine is in its "bizarre, highly elongated orbit," many telescopes have a shot at finding it. Brown would love to find a planet he helped discover, "but I'd also be perfectly happy if someone else found it. That is why we're publishing this paper. We hope that other people are going to get inspired and start searching."

Continued on page 19

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# Captain's Log

Vice Admiral Eddie Allen III

201601.22 (22 January 2016)

## SHIP'S COMPUTER UPDATE

For the month of January, the project has been completing annual reports. They finally went in after the end of the month. The project consumed over 110 man hours over the month. We have had a lot of overtime at work that has also consumed hours in my month. I thought the project would never end. In 2014 we had 78 functions but last year the number went to almost 300. It takes a long time to tally everything when you have that much stuff.

So now I am becoming an Excel expert. I have learned more about formulas in the last month than I ever wanted to know. It has been suggested that I use Pivot Tables. What is a pivot table?? I tried but they are a little involved. I may look into those a little later but for now I have a monthly system set up to total everything.

Another suggestion is to use Access. I have also never used access. Somewhere in there is a way to get this done and we will find it. IF any of you all know how to use these functions to assist in this project please step forward. And, to those who have assisted so far, thanks for all that you have done. I specially want to thank Rhonda for doing so much to help me have the time to get this done.

## SHIP'S CALENDAR

I have been working a lot of overtime due to several large pieces of equipment breaking down at the same time. I am no longer a friend of working lots of hours past the normal time to go home. I'm getting too old for all the hours.

This month was highlighted by its beginning. We had a wonderful New Year's celebration and New Year's day party. The





**(Captain's Log cont.)**

entire weekend was one big party since Rhonda took the whole thing off. She has not had 5 days off in a row that was not a vacation in a very long time. Khane, Rick, Linda and Tony were hanging out for portions of it and it was a blast. We had brunches, dinners and movies for days. In the future here is hoping that she gets 5 days off in a row much more often.

There was a game night at Dave and Busters in Maryland Hts. early in the month as well. I would like to schedule on of these every month since we had a great time but it is so far to drive for everyone that it will be impossible. There was a special dinner and gaming that night and I used up all of my gaming points. On the other hand Rhonda had all of hers left and I can use them at a later date. What does everyone think?

Right after the gaming night in St. Louis, things went Star Trek dark, as I had to work. I have also spent a lot of time on the annual reports and on the monthly reports. It is amazing the work it takes to run a chapter. If anyone wants to take over some of this fun, please simply let me know. I would be very happy to pass along part or all of this part of the job. Oh yeah!

I ended up my month seeing the Fifth Wave twice. It was an interesting movie but probably not for everyone. The movie is more for the younger crowd. I had an opportunity to see it a second time and of course I took it. I so enjoy going to movies.

Finally, some of us found a great restaurant in Vera B's. We need to schedule a movie and dinner night at the Mills mall so that everyone can enjoy their cuisine. Looking forward to scheduling it at some point in the future.

**End Log**



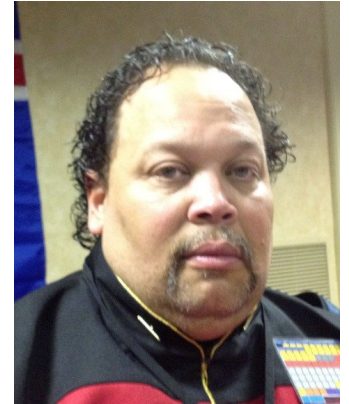


# Engineer's Log

Vice Admiral Eddie Allen III

201601.22

22 January 2016



Borg Backpack: <http://www.trektoday.com/content/2016/01/borg-backpack/>



Trek Themed Clothes: <http://www.thetrekcollective.com/2016/01/trek-wear-amazing-prints-cosy-jumpers.html#more>





Café Press has some interesting merchandise: <http://www.cafepress.com/+startrektv+gifts>



SuperHeroStuff has a variety of items for SW: <https://www.superherostuff.com/characters/star-wars-t-shirts/star-wars-merchandise.html>





More from Super Hero Stuff



Top Thumbs has a Star Wars Card Game: <https://www.toptrumps.us/Star-Wars-Episodes-4-6-Top-trumps-card-game-p/000483.htm>



Star Trek Ice Cube Trays: <http://shop.startrek.com/detail.php?p=574071&pa=PRF-STRK-000050&ecid=PRF-STRK-000050>



Star Wars Deco Lights: <http://www.thinkgeek.com/star-wars/electronics-and-gadgets/>





# Flight Log

Commander Rhonda Allen

201601.22 (22 Jan 2016)

## Log

Revenant.. A person who has returned, especially supposedly from the dead.

I hope that every movie that I see this year is as good as The Revenant. This movie had me moving around in my seat. It is a must see for those of you who can handle life in the wilderness and all that it comes with. Sorry Connie, this is not a movie for you.

I decided that I would read 17 books this year, this is 2 more than last years Reading Challenge. I have just about finished my second book. I try to read a few self help books. Smile for No Good Reason, is a book to help you find happiness, and not judge others. Basically let go of your negative thoughts. Remember I made reference to being the best you, that you can be this year.

Well, it seems that winter is trying to show up. Why are we all surprised by this event every year? And, why is it that the first 3 things to sell out in the grocery store are milk, bread, and eggs? I like French toast as much as the next person, but I don't want it for breakfast, lunch and dinner. Also, are snow days the only day that people grocery shop. What do they eat for all of the other days? On my way home from work that snow day, I did a slow motion slide into the parking lot, and picked up Chinese to go for our dinner that night. There's nothing wrong with French Toast, I just like my options.

By now you all have heard about the loss of our beloved Rams. Word is, that they didn't get that big of a turn out at their welcome home party in California. Hehehe

I've noticed that the days are getting a little longer, this means that "Spring Training" is not far away. Spring Training means Baseball. Baseball means sunny days and warm weather. Sunny days and warm weather will mean bye bye French Toast, hello Ball Park bacon wrapped hot dogs!!

End Log





USS HORIZON NCC 1000-B

LCARS 40274

02-654598

2385	8578232	9	5789	3882	5893	9885	3489	3465	0846	9798	9629	29
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4766	8967248	7	9798	8969	476	9847	8476	9749	0982	8969	0247	89
685	3478	8	867	346	34	48	49	8	89	897	38	
757	898990	8	200	285	923	9	387	238	578	875	87	9
484	947588	7	569	88	678	893	56	584	678	476	458	4

LCARS ACCESS 441

9886-234

0128-069

1014-819

7232-938

03-975683

04-785466

05-224353

06-576565

Trek News – January 2016

DATA NODE 188



Red Shirt Diaries: Operation Annihilate (Jan 18): <http://www.visionarytrek.com/out-now-the-red-shirt-diaries-episode-29-operation-annihilate/>

The COPD film for by the Nimoy family for Leonard Nimoy is being fund raised: <http://www.startrek.com/article/nimoys-daughter-son-in-law-talk-copd-documentary>

ST Beyond set photo:



ON THE HORIZON  
FEBRUARY 2016





Star Trek Beyond has a new weapons uniform: <http://www.trektoday.com/content/2016/01/star-trek-beyond-set-visit/>  
 Star Trek Emojis: <http://www.startrek.com/article/beam-up-download-free-tos-emojis-in-app-store>  
 ST Timelines is now available. (Game): <https://www.disruptorbeam.com/games/star-trek-timelines>  
 Trek 50<sup>th</sup> Anniversary tour contest, free to enter: <http://mt.votigo.com/fbsweeps/sweeps/Star-Trek-Ultimate-Voyage-Sweepstakes>  
 Wrath of Khan soundtrack to be released in vinyl: <http://mondotees.com/products/star-trek-ii-the-wrath-of-khan-ost-2xlp>  
 Behind the Scenes set look:



1980 People's Choice Awards:



They found over 200 lost 2.5 inch floppy Discs from Gene Roddenberry's library with 3 MB of data: <http://trekmovie.com/2016/01/04/gene-roddenberrys-lost-data-recovered-from-200-floppy-disks/>  
 What were the 10 most popular stories of 2015: <http://trekmovie.com/2016/01/01/a-look-back-at-the-10-most-popular-star-trek-stories-of-2015/>  
 Axanar lawsuit critique: <http://www.thewrap.com/why-star-trek-fan-film-producers-should-have-seen-cbsparamount-lawsuit-coming/>  
 STNG Soundtrack Collection from La La Land: <http://lalalandrecords.com/Site/StarTrekTNGVol1.html>  
 Shatner in ST Beyond: <http://www.cinemablend.com/new/William-Shatner-Star-Trek-Beyond-Here-What-He-Said-103977.html>





## Trek News Continued

New Trek Comics out: <http://www.idwpublishing.com/star-trek/>



The Red Shirt Diaries # 27: <http://www.visionarytrek.com/out-now-the-red-shirt-diaries-episode-27-the-alternative-factor/>

Blowing up the set for ST Beyond video: <http://www.cinemablend.com/new/Watch-Star-Trek-Beyond-Blow-Up-Part-Its-Set-Latest-Video-75487.html>

ST Beyond spoilers: <http://www.cinemablend.com/new/Star-Trek-Beyond-Won-t-Traditional-Kirk-Spock-Adventure-79337.html>

ST Beyond spoilers: <http://www.cinemablend.com/new/Ildris-Elba-Reveals-Star-Trek-Beyond-Details-72439.html>

### Trek Conventions and Appearances:

- Jan 8-10 New Orleans Wizard World Comic Con New Orleans has William Shatner
- Feb 12-14 Los Angeles Gallifrey One: Station 27 with Chase Masterson and David Gerrold
- Feb 13-14 Baltimore Plaza Hotel with David Gerrold
- Feb 13-14 Dallas Comic Con Fan Days with Bruce Greenwood
- Feb 19-21 Wizard World Comic Con Portland with Jennifer Morrison and William Shatner.
- Feb 19-21 Pensacon in Pensacola, FL with Michael Dorn and Sid Haig
- Feb 26-28 Cleveland Wizard World Comic Con with Brent Spiner





18 Dec 2015

## Star Wars News – January 2016

SW Battlefront is close to having its first update: <http://www.express.co.uk/entertainment/gaming/636939/Star-Wars-Battlefront-DLC-PS4-update-Xbox-One-EA>

Daisy Ridley to be honored at Oscar Wilde Awards: <http://www.hollywoodreporter.com/news/oscar-wilde-awards-daisy-ridley-857704>

Inside the incredible effects of SW: The Force Awakens: <https://www.youtube.com/watch?v=OM58kkZpTNw&feature=youtu.be>

SW 8 is pushed back to December 15, 2017: <http://variety.com/2016/film/news/star-wars-episode-viii-release-date-1201684136/>

Christopher McQuarrie has been brought in for Repairs to the Rogue One Script: <http://birthmoviesdeath.com/2016/01/18/sources-christopher-mcquarrie-came-in-to-fix-star-wars-rogue-one>

SWNN's Resistance Episode 20 (Jan 20):



<http://www.starwarsnewsnet.com/2016/01/swnns-the-resistance-broadcast-episode-20.html>

Poe Dameron gets his own comic book due out in April: <http://www.usatoday.com/story/life/movies/2016/01/14/exclusive-star-wars-poe-dameron-comic-book/78800804/>

MTV News with more Easter Eggs: <http://www.mtv.com/news/2728359/star-wars-special-effects-team-easter-eggs/>

Collider Jedi Council (Jan 14) [https://www.youtube.com/watch?v=tz1B\\_fSzATY](https://www.youtube.com/watch?v=tz1B_fSzATY)

Star Wars Rebels Season 2 Trailer: <https://www.youtube.com/watch?v=LJyxPDEvo9U>



### More Star Wars News

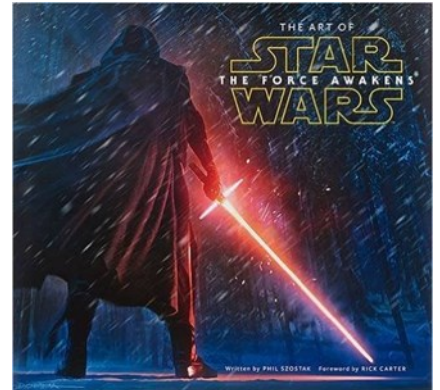
The Force Awakens deleted scenes may make it into the BluRay: <http://collider.com/star-wars-the-force-awakens-deleted-scenes-maz-snowspeerder-rathtar/>

The Force Awakens gets 5 Oscar nods: <http://www.starwars.com/news/star-wars-the-force-awakens-receives-5-oscar-nominations> (Film Editing, Original Score, Visual Effects, Sound Editing and Sound Mixing)

Who are Rey's parents? <http://www.starwarsnewsnet.com/2016/01/j-j-abrams-and-colin-trevorrow-talk-about-the-mystery-of-reys-parentage.html>

The Force Awakens and the CAS awards: <http://www.hollywoodreporter.com/behind-screen/star-wars-mad-max-cas-854795>

The Art of Star Wars: The Force Awakens: <http://www.amazon.com/The-Art-Star-Wars-Awakens/dp/1419717804>



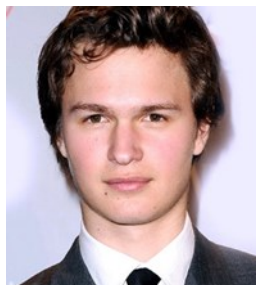
There is a petition for George Lucas to direct SW 9:



<http://screenrant.com/star-wars-fan-petition-george-lucas-episode-9/>

Who will be the young Hans Solo for the spin-off? <http://www.theguardian.com/film/2015/dec/03/casting-young-han-solo-spin-off-movie-star-wars-2500-auditions>

The list of 2500 includes the following actors. Which one can pull it off??? See the full list of big name actors...





More Star Wars News

On January 20<sup>th</sup>, Princess Leia will appear on SW Rebels.  
 SW 8 information: <http://bgr.com/2016/01/12/star-wars-episode-viii-finn-spoilers/>  
 SW 7 hits 32.1M in China on opening day



Legos has 5 new SW sets along with a host of others: <http://www.techinsider.io/new-star-wars-force-friday-lego-sets-2015-9>



The Force Awakens Blu-Ray date: <http://www.moviefone.com/2016/01/14/star-wars-the-force-awakens-blu-ray-early-details-on-deleted-scenes/>

Felicity Jones and Mads Mikkelsen's Rogue One character details:



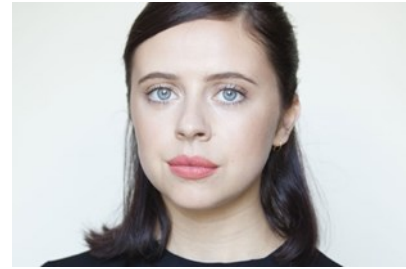
<http://www.starwarsnewsnet.com/2016/01/rumor-details-on-felicity-jones-and-mads-mikkelsens-star-wars-rogue-one-characters.html>

JJ Abrams interview: <http://www.hollywoodreporter.com/race/awards-chatter-podcast-jj-abrams-853171>





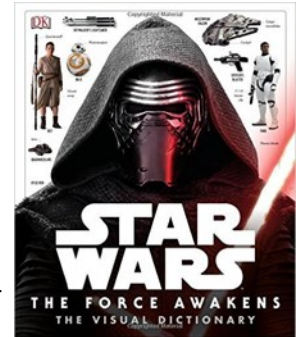
Bel Powley may be up for a role in SW8: <http://screenrant.com/star-wars-episode-8-casting-bel-powley/>



SWNN's Resistance Episode 19 (Jan 8) <http://www.starwarsnewsnet.com/2016/01/swnns-the-resistance-broadcast-episode-19.html>

Collider Jedi Council (Jan 7) <https://www.youtube.com/watch?v=avjeFoWLboA>  
Who is FN-2199 (TR-8R) <http://www.starwars.com/news/meet-fn-2199-a-k-a-tr-8r-the-stormtrooper-behind-the-meme>

The Force Awakens Visual Dictionary: <http://www.amazon.com/Star-Wars-Awakens-Visual-Dictionary/dp/1465438165>



Dekka129 Review: <http://www.starwarsnewsnet.com/2016/01/the-force-awakens-dekka129s-review.html>

Joonas Suotamo (Chewbacca) interview: The new Chewbacca: <http://www.businessinsider.com/joonas-suotamo-chewbaccas-double-in-the-force-awakens-2016-1>



The Force Awakens is the fastest film to 1 Billion, 12 Days: [http://www.dailystarjournal.com/business/article\\_821d70a0-9875-578e-8d3d-c5300b700b24.html](http://www.dailystarjournal.com/business/article_821d70a0-9875-578e-8d3d-c5300b700b24.html)

SWNN's Can(on)tina Chatter Podcast: Episode 1: <http://www.starwarsnewsnet.com/2016/01/swnns-canontina-chatter-podcast-episode-1.html>

Jason Wingreen dead at 95, the voice of Boba Fett: <http://variety.com/2016/film/news/jason-wingreen-dead-boba-fett-star-wars-1201672561/>

R2D2's sudden awakening... : <http://www.starwarsnewsnet.com/2016/01/the-droid-awakens-r2-d2s-sudden-awakening-explained.html>

The Force Awakens nominated for Eddie Awards: <http://www.hollywoodreporter.com/behind-screen/2016-ace-eddie-award-nominations-851748>

The Force Awakens images library: <http://www.stitchkingdom.com/disney-star-wars-the-force-awakens-20-new-stills-in-ultra-hi-res-featuring-snokes-maz-kanata-and-more-watermark-free-82945/>

25 Ways that The Force Awakens seems like the original trilogy: <http://www.starwarsnewsnet.com/2015/12/galactic-deja-vu-25-themes-and-ideas-that-the-force-awakens-seems-to-have-borrowed-from-the-original-star-wars-trilogy.html>

The Force Awakens Blu-ray date may be April 5<sup>th</sup>, 2016 but don't count on it.





## Meeting Minutes – January 2016

The two spots on the CQ committee are filled.

A super thanks to Linda for the following link: <http://www.glutenfreepearls.com/gluten-free-directory/gluten-free-restaurants-missouri/>

Summit has been canceled because there were only 13 registered spending \$700 but the hotel commitment was for \$5800. To make \$5800 we would have needed 110 people in the end. We signed an agreement for pay them \$1000 and not to have any functions in KC until after April of 2017. The region covered \$470 but is short. Your CO is offering \$100 and thinks the chapter should match any funds that the open membership donates. I have been here with no help. I would not wish it on anyone.

Justin Donovan is the R-12 Quartermaster and has merchandise until sold out. It was purchased for Summit. [Msg237th@yahoo.com](mailto:Msg237th@yahoo.com)

They are starting a committee to do a separate printed CQ as they will start all electronic memberships “when” it passes the vote.

They need 2 more at large members for the committee 1-888-SFI-TREK (888-734-8735) Ext: 704 [comms@sfi.org](mailto:comms@sfi.org)

IC Fees will increase on February 2 to \$35 each (currently \$30).

<http://www.eventbrite.com/e/starfleet-international-conference-2016-tickets-18046918820>

The CQ is trying to update its programming. Ideas include: Chapter Highlights, and a shopping forum. If you have ideas forward them to the CQ through [www.sfi.org](http://www.sfi.org)

Any members with packet problems should get me their problem ASAP as Chris is looking for a list of those still waiting.

Alan Rickman, 69, died on January 14th: Die Hard, Quigley Down Under, Harry Potter.

From the RC:

It is time once again for Annual Awards Submission. Submissions will open up on January 15<sup>th</sup> and close on March 1<sup>st</sup>. of this year for the year of 2015. When sending in your annual awards submission, please send them to [awards@region12.org](mailto:awards@region12.org)

The command staff will review the MSRS and vote on the Chapter of the year, Support chapter of the year, and Shake-down chapter of the year.





Commanding officer of the year, I would like for members of a chapter to get together with the XO and send in a write up on why you feel your CO should win.

Flag officer of the year, Officer of the year, Enlisted member of the year, and Junior member of the year. We will accept nominations and recommendations for these three awards.

After careful evaluation, by the Command staff we will chose the candidates that stand out and narrow them down to one. If the decision is too close to call we will submit the write up to the chapters, without names on them to help break the tie. This all depends on time.

I have attached a document that is the guidelines for the Fleet Awards. If we follow this we stand a good chance to win it all.

The annual awards have to be received by fleet for consideration by May 15<sup>th</sup>, Linda is good and keeping this a secret and I am not sure when we will announce the R12 winners, I am planning on a May/June time frame.

**Flag Officer of the Year Award** This award is reserved for officers who hold the rank of Fleet Captain or higher. This award is given to the individual who best embodies the ideals, visions, and philosophy of Star Trek, as illustrated in the various series, as well as demonstrating consistent support for and contribution to STARFLEET. The Flag Officer of the year takes an active role in chapter, region and STARFLEET functions and demonstrates commitment to the organization through both word and action. The Flag Officer of the year also demonstrates consistent conduct in accordance with the philosophy of Star Trek, and supports the series' vision of a positive future through community service and scholastic accomplishment (where appropriate), in addition to participation in STARFLEET and chapter functions. This individual serves as a role model for all personnel.

**Officer of the Year Award** This award is reserved for officers who hold the rank of Ensign to Captain (inclusive). This award is given to the individual who best demonstrates outstanding direction, a consistent level of guidance for fellow members, and leadership in STARFLEET through both word and action. The officer of the year also demonstrates consistent conduct in accordance with the philosophy of Star Trek, and supports the series' vision of a positive future through community service and scholastic accomplishment (where appropriate), in addition to participation in STARFLEET, region, and chapter functions.

**Enlisted Member of the Year Award** This award is reserved for members who hold the rank of PO3 through CPO. This award is given to the individual who best displays, through his/her individual contributions, consistent support for and contribution to STARFLEET, as well as a consistent level of direction, as appropriate. The enlisted member of the year also demonstrates consistent conduct in accordance with the philosophy of Star Trek, and supports the series' vision of a positive future through community service and scholastic accomplishment (where appropriate), in addition to participation in STARFLEET and chapter functions. This individual is







willing to do what it takes to get a quality job done quickly and efficiently.

**Junior Member of the Year Award** This award is reserved for members 18 years old or younger. The junior member of the year, to the best of his or her abilities, takes an active role in chapter and STARFLEET functions and demonstrates commitment to the organization through both word and action. The junior member of the year also demonstrates the potential for leadership, consistent conduct in accordance with the philosophy of Star Trek, and support for the series' vision of a positive future through community service and scholastic accomplishment (where appropriate), in addition to participation in STARFLEET and chapter functions.

**Commanding Officer of the Year Award** This award is reserved for the Commanding Officer of a STARFLEET Chapter. This award is given to an individual who has shown exemplary leadership and motivational skills, and helps set the direction and vision for his/her chapter. The commanding officer of the year encourages crewmembers to work hard for their chapter, and to take interest in Regional and STARFLEET activities. The commanding officer of the year demonstrates conduct consistent with the philosophies of Star Trek and promotes the vision of the various series. To be eligible for this award, the member must have been a commanding officer for at least six months of the calendar year for which he or she is nominated.

In the future the person that hosts any Regional event will be responsible for said event financially. Whether a Summit or any other event, you bear the PROFIT or the loss.

Aron Eisenberg had a fan donate a kidney and had the surgery after Christmas. He is doing well. There is a GoFundMe account for him at: <https://www.gofundme.com/reeztg4s>

SFA is modernizing. They may be using Moodle or an equivalent program. They were having problems with the site earlier in the month but it should be working fine now. If you want to help contact the Academy.



R-12 Captain Dennis Bain, CO, USS Valiant passed away on January 4<sup>th</sup>.

I did some research and CBS All Access in certain markets will also air all live shows and all website stuff along with its own programming. I think it is the beginning of App based TV. I have predicted it for years. They plan to air the new ST show starting in January of 2017.

They are considering a contest for a 50<sup>th</sup> anniversary logo for SFI. NO other word yet.





Regions	# New Members
3	196
7	162
1	154
2	146
4	141
12	134

Axanar has been sued by CBS about their movie since they have raised over \$1M

Fleet Account end of Dec 2015: \$37,331.61

The new Deputy Chief Chaplain is Larry D. French Sr.

Did everyone get CQ-182? I emailed it on Dec 30<sup>th</sup>.

SFA is purging its catalog of all the courses that are no longer viable. They are also merging colleges and purging directors.

Please check the catalog online for the current offerings: <http://acad.sfi.org/courses/index.php>

Marine OIC reports are due by the 5<sup>th</sup> of the next month. This report should exactly mirror the one that the CO sends to Fleet. No differences.

The SFI FAQ is with the Ops documents at the SFI website.

George Clayton writer of the first ST episode has died: <http://www.nbcnewyork.com/news/national-international/George-Clayton-Johnson-Writer-of-First-Star-Trek-Episode-Dies-at-86-363541391.html>

## Member News

## January 2016

January has brought us some lovely weather, both warm and cold. It makes me look forward to spring.

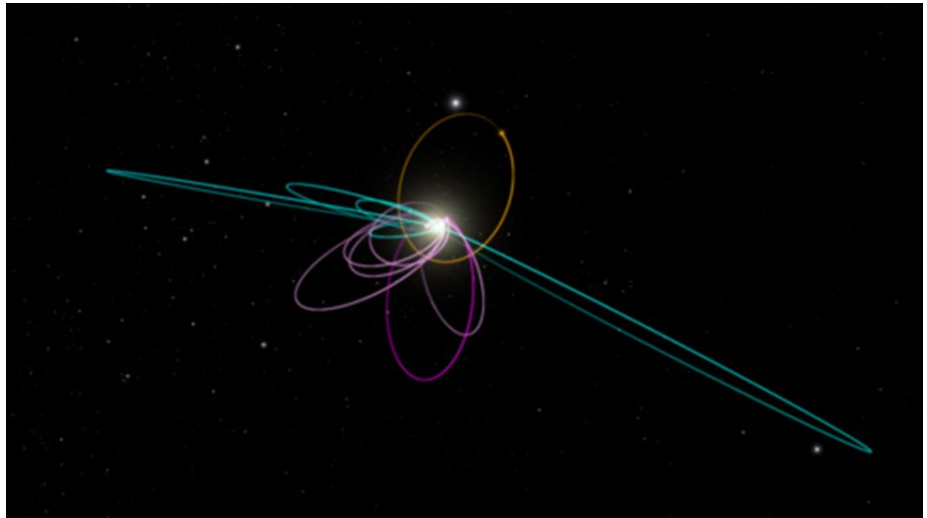
David has returned to work. The doctor finally decided that his hand was healed enough that he could return to typing and using it normally. He is anxious to get out on the range and test his trigger finger by trying out his new pistol.

Raz Wickam, one of our new Marines, held a book signing and sale at the Captial Mall. There were a lot of people stopping by the booth to talk to him and Joe as they signed and sold the book. David and I stopped by and had a nice visit. Of course I bought the book and a T-shirt.





Ninth Planet Continued



Possible orbit of a perturbing "ninth planet"

The six most distant known objects in the solar system with orbits exclusively beyond Neptune (magenta), including Sedna (dark magenta), all mysteriously line up in a single direction. Also, when viewed in three dimensions, they tilt nearly identically away from the plane of the solar system. Another population of Kuiper belt objects (cyan) are forced into orbits that are perpendicular to the plane of the solar system and clustered in orientation. Batygin and Brown show that a planet with 10 times the mass of the earth in a distant eccentric orbit (orange) anti-aligned with the magenta orbits and perpendicular to the cyan orbits is required to maintain this configuration.

