

# THE ENGINEERING LINK

"ANVIL OF ASGARD"

ISSUE: #028  
SD: 202402.02

SFI \* REGION 01 USS HEIMDAL NCC-1793 \* ENGINEERING NEWSLETTER



## "Engineering Team of the USS Heimdal NCC-1793 – Region 01"

Welcome to the February 2024 edition of T.E.L. " "



Heimdal Engineering Warps into 2024 supporting the Heimdal's Interdepartmental Role Play Group, Hosting the Chapters monthly zoom session, leading the way in STARFLEET Academy Course Completion, and we have the coolest coffee mugs on the ship, and we all know how the CEO (Chief Engineering Officer) feels about coffee.....



### INDEX

- 2 Roster & Calendar
- 3 / 6 Engineering Reports
- 6 / 7 Crew Articles
- 8 Engineering Spotlight
- 9 STARFLEET Academy
- 10 Zoom, Tony Amendola

### STARFLEET BY THE NUMBERS

As of SD 202401.25

#### STARFLEET

- 5,429 Members, 210 Chapters

#### REGION 01

- 940 Members, 42 Chapters

**USS HEIMDAL** - 58

**HEIMDAL ENGINEERING** - 6\*

#### Online Resources

Heimdal's Home Page

[ussheimdal.com](http://ussheimdal.com)

The Engineering Link

[trek.millnet.com/eng-link/](http://trek.millnet.com/eng-link/)

Region One / SFI Corp of ENG

[R1.SFI.org](http://R1.SFI.org) [coe.sfi.org/](http://coe.sfi.org/)

STARFLEET International

[SFI.org](http://SFI.org)

STARFLEET Academy

[es.sfi.org/academy/login/index.php](http://es.sfi.org/academy/login/index.php)

JOIN THE ENGINEERING TEAM - STARSHIP USS HEIMDAL

WWW.USSHEIMDAL.COM/ENLIST

Awarded 2022 & 2023 USS Heimdal "Department of the Year"  
Region 01 "Communications Excellence" Best Departmental Newsletter 2021 & 2022



FCAPT Darrell Millner  
CHIEF ENGINEER



ENS Larry Whately  
Duty Engineer  
Quartermaster (Sr)



CMDR Zak Lyon  
Helm Officer  
Technology Specialist



CMDR Bud Walker  
Operations Officer  
Quartermaster 2



LT Jody Lyon  
Dilithium Maintenance  
Chief Recreation Officer



PO3 Gary Burley  
Maintenance Engineer  
Ship Fitter

202309.19

## 2024 - FEBRUARY

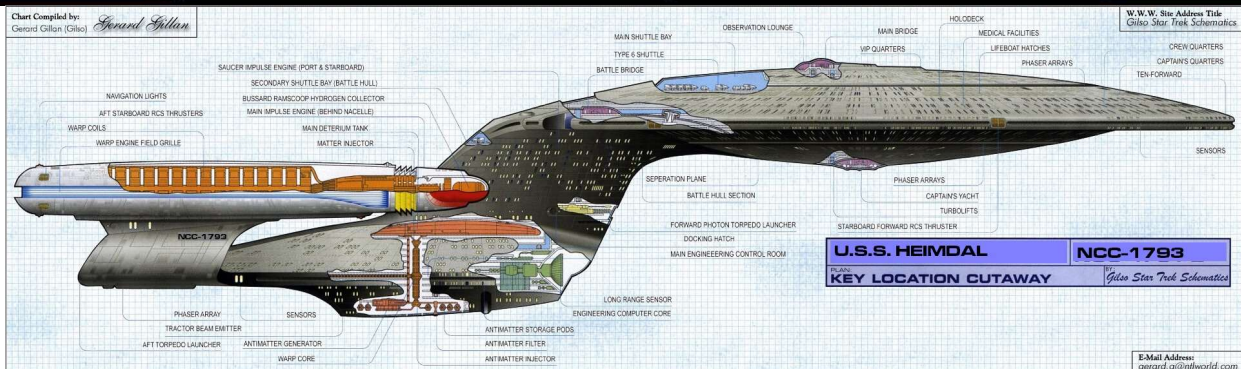
- 01 FEB - RAINCON SUBMISSIONS DUE - Noon
- 08 FEB - ROLE PLAY MEETING -
- 17 FEB - HEIMDAL MEETING AND ZOOM
- 19 FEB - **ENGINEERING DEPARTMENTAL ZOOM**
- 25 FEB - SUBMISSIONS FOR THE ENGINEERING LINK

02-85214

03-85412

04-85413

05-74125





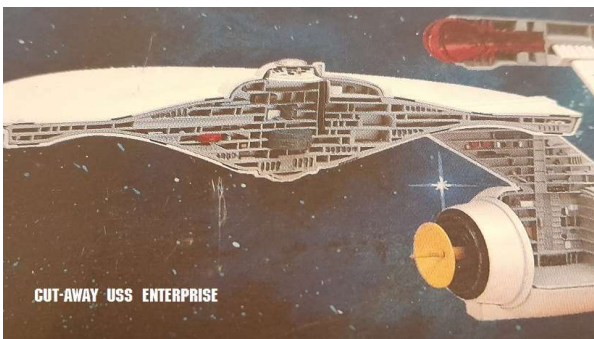
**SD: 202402.02 - Monthly Engineering Report - CEO/FCAPT Darrell Millner**

/Computer begin recording /

January started 2024 with a bang from Role Play to Engineering Zooms, from STARFLEET Academy to Chili night, it is never boring here. I want to give a shout out to my department and team, Well Done.....

At this months departmental zoom we had some of the most spirited conversations we have had in some time, from Engineering manual, to the Engineering Link, excellent feedback and attendance. Remember Engineers these meetings are for you... please log in.

Please check out the article on page 10, plus the corresponding article in the Rainbow Connection. While at Central Georgia Comic Convention earlier this month I had a most enjoyable encounter. Plus they had an impressive dealer room.



I did find this amazing model that I had on my wish list for years. Its the USS Enterprise 1701 Constitution class from TAS. What makes it really special is that its a "Cut-A-Way" allowing me to see the inside of the warp nacelles and deck plan. I only hope my limited skills will be up to the task. Very excited at the possibilities.

This is when most people can tell he is grasping for what to write, well next month my goal is to write from a 1<sup>st</sup> person perspective as a "Day in the life of a Starfleet Engineer"

2:00 am again and thats a wrap, thank you for being her and thank you for reading our spectacular and informative newsletter. Remember, "Put a little TREK in your Day"

**Fleet Captain D. Millner, CEO  
USS Heimdal Chief Engineer  
R1 RDC of Engineering  
STARFLEET Marine Corps Reserves  
SFA Red Squad**





## SD: 202401.27 – Monthly Engineering Report – CDR. Zak Lyon

/begin/ Captain, First thing on my docket today – adjusting the ship’s attitude so that the Stellar Cartography and Astrophysics departments each had hull lateral sensors available for their secondary missions. Keeping the ship at an angle where each operation had the needed alignment was easy as pie once Walker did the math. Enjoy the view everybody!

Frankly, my years on the helm have given me a confidence and skill level that this task was so instinctual as to be almost meditative. Gave me space to ponder what else is coming up on my duty roster and my off-duty tasks.

First, somehow the little adaptations that I made to my mobile device and transport have spread around the ship. Some think I souped them up a little. I like it. So, I am hoping one of the ensigns I met recently works out just what adjustments can be made to his equipment and for his circumstances. We intend to work on his wheelchair this weekend. Should be fun. That guy has a great sense of humor. He cracks me up. Everybody knows him. Ensign McGraw. He goes by the nickname “Quickie.” There are many options for the origin of that nickname, the source of which he has not yet confirmed. For the historically minded among us, you might think about the retro mobility equipment company, Quickie. For animation fans, could be the cartoon character Hanna Barbera’s Quickdraw McGraw. You know the cowboy horse. For an animation fan like I am, this is the one I’m hoping for. There is another option which I will not dignify here.

Next, I am looking forward to the assignment you gave me liaising with Jupiter Station re: some equipment modifications while the Heimdal has its duty at the station. I appreciate the opportunity to collaborate with engineers on the station. My long-standing friendship with Captain Baynham the of the refitted Miranda Class Patrol Ship assigned to the Station makes me more excited as I will have a chance to tour her ship, USS Limón. In addition to the role of protection of the station, the Limón is conducting a number of experiments.

I have been researching and preparing for my assignment. There is some disagreement between the station engineers and the ship engineers I might have to help smooth out. I don’t know if I was asked to be involved to address the technical nuts and bolts of the modifications or engineering disputes or whether they just wanted some good old reliable “listening.” I am prepared to do it all.

I am hoping that I will, however, have some time to book a little ski action at the Europa resort. Been a long time. I hear the resort caters to residents and tourists alike. The residents I understand are mostly scientists and makers. Especially those who like to get away from society. I know they have some brilliant minds stationed there, but they can be a little eccentric, even reclusive. On the station, there is even one of these unconventional scientists that I am aware of by reputation. Some say he is extremely temperamental, exacting, and anti-social. Some people call him Dr. Z. I am not sure what he’s working on, but Captain Baynham insinuated something about a holographic iguana? I hear this guy is so cantankerous – always asking for time and resources from the support staff. Maybe I’ll stay away from him. On the other hand, it might not be so easy

As for other shipboard matters - all is going great.

I am telling you all this other stuff, Captain, because frankly I had to tell someone. And all this stuff just tends to come to my mind when I am aligning the ship’s lateral hull sensors /end/





SD: 202401.29 – Monthly Engineering Report – CMDR Bud Walker

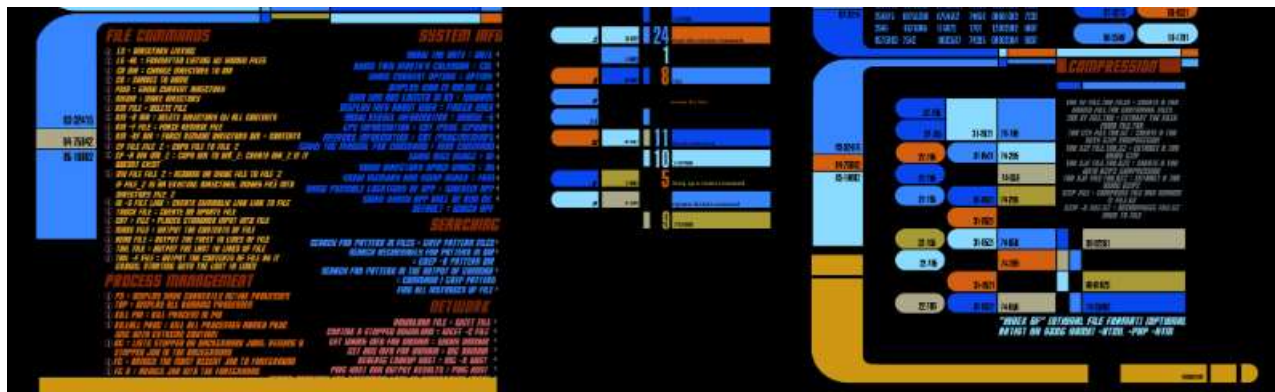
/begin/ Captain, I can report that Operations is running smoothly though it appears that Astro-metrics had some type of friendly competition within their division. I was sitting quietly at my bridge console, enjoying the quiet hum of the ship, when the computer notified me of multiple competing resources requests that required my intervention. When I pulled up the request list, I noticed they were all from that single division. I smiled as I figured their section chief had probably challenged her team with a wager on who could complete their calculations first. Not wishing to play favorites, I shunted some other resources requests so I could approve all the Astro-metric requests at the same time and give them all a level playing field.

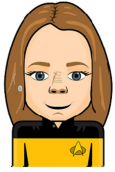
A few weeks ago, I was summoned by Executive Officer Smith regarding a computer issue that was affecting internal ship communications. I reported immediately to Computer Services and was surprised to find Admiral W. Smith managing the problem personally, flanked by two computer specialists. Once I entered the room, he told me to adjust resources management and to create multiple buffers for the computer. I must admit that I was a bit intimidated working directly for the Executive Officer! But I jumped to an available console and was able to do my tasks quickly without any issues. I had to create one work-around to restore internal connectivity. Within an hour we had resolved the issue and internal communications was restored. Normally this would not be anything I would feel that needed to be reported to you, Captain, other than the unexpected involvement of Admiral W. Smith!

I am continuing my studies with StarFleet Academy. I have a few more certifications to go in the Bridge Officer Certification Program, but I am also starting to give attention to the degree programs. I plan to pursue a degree in Intelligence Operations Studies and a degree in Federation Studies. I had previously indicated to you that I would be doing Federation Studies, to better acclimate to my new home. My reason for adding Intelligence Operations to my study program is driven from my involvement in the "Garmr" incident. Obviously, I do not need to review with you how that whole affair was resolved. But given that whether I like it or not, a certain amount of intelligence gathering and/or espionage is going to be a constant side assignment of mine, I figure I need to learn the tradecraft.

On the personal front, I continue to read my copy of "Draw Me Into Your Logic, the Keethera Exercises." I have been mediating on the quotes of Surak that Lieutenant T'Polth had given me. This month she has tasked me with doing a daily "Examination of Conscious." I do this twice a day, first at the noon hour and then at the end of the day. During each, I review the day so far and question if there is anything I could have done better. I look for more logical ways I could have acted or more logical responses in my interactions with others. Hopefully this will help me develop good logical habits and break bad illogical habits. T'Polth challenged me to constantly ask myself, "Am I being a good and logical steward of this day?"

Stok and I have not attempted another Keethera, which is just fine with me. I have been busy with my ship duties, and I welcomed the opportunity to focus exclusively on the "Examination of Conscious." /end/





## SD: 202401.30 – Monthly Engineering Report – LT Lyon Jody

/begin/ Sir, I am happy to report that I have been able to keep the commitment to continuing education. Last month, I challenged myself to dedicate time on a regular basis to study and completion of at least one course per month at Starfleet Academy. Not only have I met the challenge, but I have completed four courses. I have not yet received my grades but am confident that I passed all four of the exams. I struggled to decide where to start as the Academy has so many avenues for study. Like a child offered a table full of sweets, I first was overwhelmed and couldn't decide. I had tried before to do long distance study and did not complete the class I chose. I pondered over the catalog and narrowed down to several schools. Space Studies and Engineering. I found that I was attracted to learning more about the cosmos – the galaxies, solar systems, planets, and phenomena that surround them. I completed two courses in this area and am anxious to continue. And since most of my crewmates are from Earth, I hope to move on the Spaceflight Studies. Of course, Engineering is my first love. I chose to learn about the history of Engineering on Earth. Again, this gives me a common frame of reference with many of my co-workers. So, four courses completed, not one! This accomplishment did not take the time I thought it would and I am set to continue next month. We never know what the future may hold, but I can finally see how this can fit into my daily routine.

I couldn't have done it without your encouragement and the example of my crewmates.

I will copy you when I receive communication from Starfleet Academy regarding my grades and updated transcript.

I am choosing the next coursework now. Watch this space! /end/

---

## Engineering Articles

### IN PRAISE OF HISTORY – CMDR Zak Lyon

Sometimes the simplest things strike our ears in new ways. After doing some space exploration research for continuing education with Star Fleet Academy, I ran across this poem written over 300 years ago on Earth to commemorate the Europa Clipper Mission. It reminded me of something. Didn't I recite this poem for my poetry class Frontier Day Celebration when I was only 8? I dug deeper and found the recording of the event. Seeing my younger self pronounce the words slowly and carefully reminded me of their profound meaning. And since I am sure all spacefarers have fond memories of it, I give you perhaps the most well-known words of one of the greatest poets of Earth's history, Ada Limón.

#### In Praise of Mystery: A Poem for Europa Written by Ada Limón, US Poet Laureate

Arching under the night sky inky  
with black expansiveness, we point  
to the planets we know, we

pin quick wishes on stars. From earth,  
we read the sky as if it is an unerring book  
of the universe, expert and evident.

Still, there are mysteries below our sky:  
the whale song, the songbird singing  
its call in the bough of a wind-shaken tree.

We are creatures of constant awe,  
curious at beauty, at leaf and blossom,  
at grief and pleasure, sun and shadow.

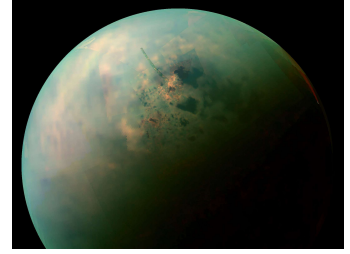
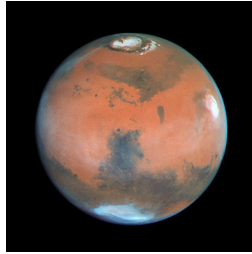
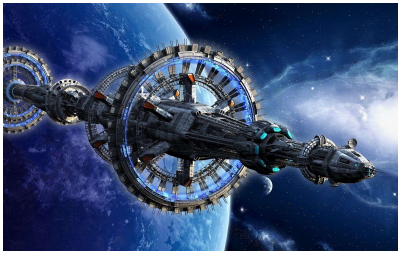
And it is not darkness that unites us,  
not the cold distance of space, but  
the offering of water, each drop of rain,

each rivulet, each pulse, each vein.  
O second moon, we, too, are made  
of water, of vast and beckoning seas.

We, too, are made of wonders, of great  
and ordinary loves, of small invisible worlds,  
of a need to call out through the dark



What Do We Need To Do As Engineers?



In response to the DECEMBER Question: What are your thoughts Engineers? "Are we putting too much focus on MARS, vs Moon, Titan, or other options? Where should establish our presence in space? email trek1793@millnernet.com with subject matter ENGINEERS Whats Next?

CMDR. Zak Lyon

I think we should put our focus where the potential for life is the greatest. The moon really doesn't have this, although it could eventually be a good base. Yes, Mars is closer and it's more similar to earth than other destinations in our solar system. But right now we think the potential for life is greatest on the moon Europa. And I now have an investment in the Europa mission. You can learn more about my Europa bias by reading my Rainbow Connection Article in the next issue.

LT Lyon Jody

I feel we should be placing our emphasis on missions where we stand to learn the most. From exploration we learn how to best understand new environments, how to engineer the most efficient technologies to gather information and support manned missions, and how to react and adapt to unforeseen events. There will be many challenges for our programs/personnel as we journey further away from earth. We can learn from any mission, any destination.

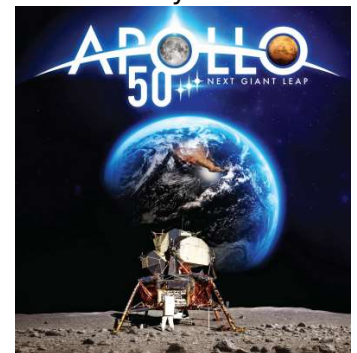
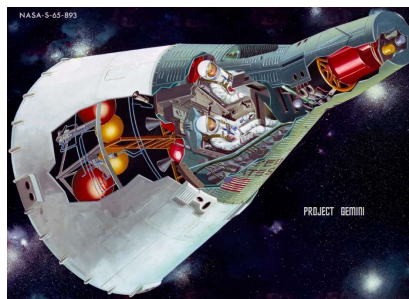
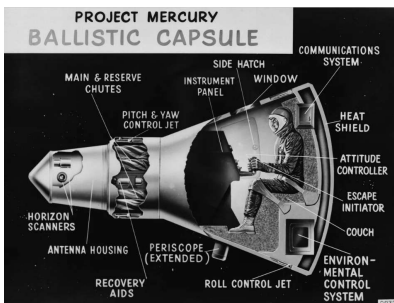
FCAPT Darrell Millner

My feeling is less "feel good" and more practical and scientific. Mind you we need a STRONG presence in space, and to me that starts with two basics: 1 - in addition to the ISS we need, for lack of a better word, a fueling station/platform in space. If as the old numbers go 90% of fuel expenditures is getting the vessel to orbit, imagine what we can do if we can refuel while in space..... 2 - The Moon. Honestly I do not believe we are resolved enough to deal with the loss of life what will occur during planetary missions. We need to walk before we run and part of that is a moon base, being close enough to resupply, expand and yes rescue.

APOLLO - NASA - NOW

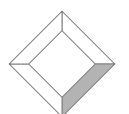
As we take our next steps to the heavens I invite you to look back at our powerful strides and MERCURY, GEMINI AND APOLLO program that made programs like SKYLAB and the ISS a reality.

https://www.nasa.gov/specials/apollo50th/index.html



"As I explore with internet via websites, FB, Youtube, NASA, and more 'ENGINEERING' takes on such a prominent role in the feeds. Its my hope that current Engineering will also inspire us from a STARFLEET Engineering perspective"

- Millner, Darrell





We are part of this great International STAR TREK fan organization and today we are celebrating one of our own Ship Fitter, Maintenance Engineer, PO3 Gary Burley.

A renowned artist with work displayed at the Edinburgh's Nation Museum Sir Walter Scott 250th anniversary memorial exhibition 2022.



Shown on the left \* is Gary's father, son, Gary, and his daughter.

Lassie, "The Snow Lion" resting below. It just goes to show that you may not know the Engineer working right beside you.

So next time in the galley buy this artist a drink and bend his ear for a bit.

\* Shown with written permission\*

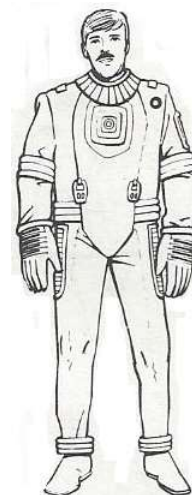




**Heimdal Engineers at Starfleet Academy : January 2024**

**CMDR William Walker, JR.** [ 26 Courses, Award ]

<b>IOIE - College of Intel in Movies (CIM)</b>		
PASS	for CIM-103 - The Bourne Identity	on Jan 2, 2024
HONORS	for CIM-117 - Hunt For Red October	on Jan 2, 2024
<b>IOIE - College of Bond, James Bond (CJB)</b>		
PASS	for BJB 114 - Never Say Never Again	on Jan 2, 2024
HONORS	for BJB 115 - A View To Kill	on Jan 2, 2024
<b>IOMA - College of Emergency Medical Services</b>		
HONORS	for IOMA CEMS 103a - First Responder part 1	on Jan 4, 2024
DISTINCTION	for IOMA CEMS 103b - First Responder part 2	on Jan 4, 2024
DISTINCTION	for IOMA CEMS 103c - First Responder part 3	on Jan 4, 2024
HONORS	for IOMA CEMS 103d - First Responder part 4	on Jan 4, 2024
DISTINCTION	for IOMA CEMS 103e - First Responder part 5	on Jan 4, 2024
<b>IOAS - Vulcan Orientation College</b>		
DISTINCTION	for VOC-101a - Geography	on Jan 9, 2024
HONORS	for VOC-101b - Physiology	on Jan 5, 2024
HONORS	for VOC-101c - Philosophy	on Jan 5, 2024
<b>IOMA - College of Psychology</b>		
DISTINCTION	for DRM 101 Dream Interpretation Part 1	on Jan 9, 2024
HONORS	for SCM 101 - Stress and Coping Mechanisms	on Jan 9, 2024
HONORS	for SCM 102 - Stress and Coping Mechanism	on Jan 9, 2024
<b>IOSTS - College of Security in Trek</b>		
HONORS	for CST 011 General Alerts part 2	on Jan 11, 2024
HONORS	for CST 012 General Alerts part 3	on Jan 11, 2024
HONORS	for CST 013 General Alerts part 4	on Jan 14, 2024
HONORS	for CST 014 General Alerts part 5	on Jan 14, 2024
DISTINCTION	for CST 015 General Alerts part 6	on Jan 14, 2024
<b>IOSTS - College of Parallel Studies</b>		
PASS	for CoPS 102 - The Mirror Universe ST:DS9	on Jan 14, 2024
<b>IOIE - School of Intel Gathering (SIG)</b>		
HONORS	for SIG 213 US Intel Community	on Jan 1, 2024
HONORS	for SIG 214 the FBIS	on Jan 2, 2024
HONORS	for SIG 304 - Interrogation Planning	on Jan 3, 2024.
DISTINCTION	for SIG 305 - Interrogation Methods	on Jan 4, 2024
HONORS	for SIG 306 the US -CERT	on Jan 5, 2024



**FCAPT Darrell Millner** [ 2 Courses, Award ]

<b>IOSS - College of Astronomy</b>		
DISTINCTION	for AST 208 - Supernova & Supernova Remnants part 1	on Jan 13, 2024
<b>IOLS - STARFLEET Data Protection Policy</b>		
HONORS	for SFDPP 2024 Re-certification	on Jan 7, 2024

**CMDR Zachary Lyon** [ 3 Courses, Award ]

<b>IOSS - College of Spaceflight</b>		
DISTINCTION	for MERC 101 - Mercury 1	on Jan 22, 2024
DISTINCTION	for MERC 102 - Mercury 2	on Jan 22, 2024
HONORS	for MERC 103 - Mercury 3	on Jan 23, 2024

**SD: 202402 ZOOM COORDINATES****Heimdal Monthly Engineering Zoom**

SD: 202402.19 ED: FEBRUARY 19TH, 2024 7:00 pm eastern – Normal Meeting\*  
FOR CURRENT HEIMDAL ENGINEERING DEPARTMENT MEMBERS

Mark you calendar - 3<sup>rd</sup> Monday each month come join your Engineering team in a lively discussion about anything Heimdal, STAR TREK, and beyond.

Meeting ID: 852 8421 7035 Passcode: antimatter

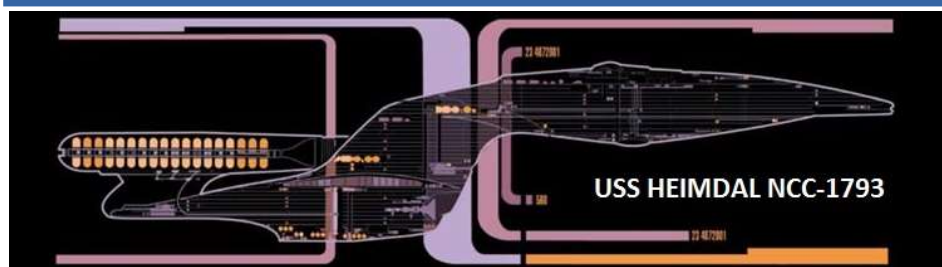
***Tony Amendola***

When one meets a star - you stand in wonder. I had the honor of meeting legendary actor, Tony Amendola. He played in one STAR TREK series, the role of "Chorus #3" in 2000 Season 6 episode 22 of **VOYAGER** "Muse" and STARGATE SG-1.

I remember him best as Don Luiz in the 1998 "Mask of Zorro". I could have spoke with him for hours, friendly and professional. But what I appreciated was his humility. He was a joy to chat with.

Please see the full article in the 2024 FEB edition of the Heimdal's Rainbow Connection newsletter.

- Millner Out



**STAR FLEET**  
POSTAL  
SERVICE

**All Articles are under the Copyright of the writer(s) and shared for publication in The Engineering Link.**

**Disclaimer: No part of this newsletter is intended as an infringement on the Star Trek copyright held by Paramount™/CBS or any other company or entity. This is a not for profit, fan organization, that strives to embrace the ideals of Star Trek, the inspiration of the "Great Bird of the Galaxy" having fun in the process.**

**Contact Info:****MILLNER**

54 Breeze Pt.  
Byron, GA 31008  
Trek1793 @ millnernet.com  
©2024 Trek.Millnernet.com

SD:202402 Issue #28