



THE ENGINEERING LINK

"ANVIL OF ASGARD"

ISSUE: #031
SD: 202405

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



“” Engineering Team
of the USS Heimdal NCC-1793 – Region 01



Welcome to the May 2024 edition of T.E.L. “ ”

If you have not taken the opportunity to read the Heimdal's April/May issue of The Rainbow Connection, please do... wow how Linda, Willy and Carl squeezed in so much can only be Gallifreyan. Add to that CMDR Bud Walker's talented work on the cosmic time traveling video (total MIC DROP), please if you have not seen the RainCon heres the link ussheimdal.com - 40th Anniversary Party in a totally grand dimension.

Heimdal Engineering was incredibly represented by all of its U.S.A. based members (Gary you were missed / but represented) and anyone that knows me knows.... Photo ops will ensue. From buffet, to music, and paint ball an amazing time was had by all. Barbara and I were so very proud to be able to attend - Millner Out



Heimdal Engineers Splatted Pink

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STARFLEET BY THE NUMBERS

As of SD:202404.29



STARFLEET

- 5373 Members, 210 Chapters

REGION 01

- 992 Members, 42 Chapters

USS HEIMDAL - 57

HEIMDAL ENGINEERING - 6*

Online Resources

Heimdal's Home Page

ussheimdal.com

The Engineering Link

trek.millnernet.com/eng-link/

Region One / SFI Corp of ENG

R1.SFI.org coe.sfi.org/

STARFLEET International

SFI.org

STARFLEET Academy

es.sfi.org/academy/login/index.php



"Heimdal's Time Traveling Grand Masters and Guides"

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

SD: 202405 - MAY

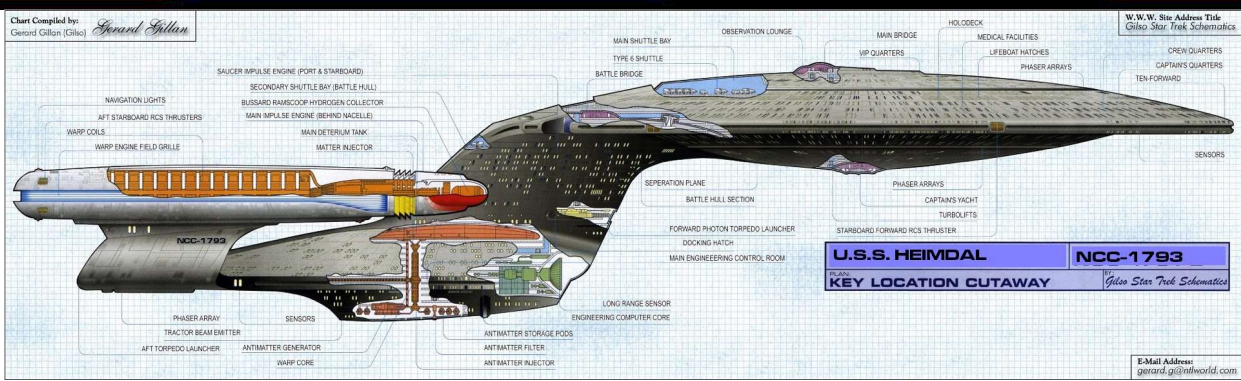
- 09 MAY- ROLE PLAY MEETING -
- 18 MAY- HEIMDAL MONTHLY MEETING
- 20 MAY- **ENGINEERING DEPARTMENTAL ZOOM**
- 25 MAY- SUBMISSIONS FOR THE ENGINEERING LINK
- 01 JUNE- HEIMDAL NEWSLETTER SUBMISSIONS JUNE

02-85214

03-85412

04-85413

05-74125





SD: 202404.26 - Monthly Engineering Report - CEO/FCAPT Darrell Millner

/Computer begin recording /

I set an ambitious **personal** goal for **myself** for the month of April 2024, a minimum of 40 courses to celebrate the Heimdal's 40th anniversary. It was a stellar goal, and I completed more courses than previous months in 2024. But a lass, reset the goal and move forward Chief, no crying over... and NEXT.

I must say for the record, I am on a personal journey to get my [real life] Amateur Radio Tech/General certification in the next few months, and the STARFLEET Officers Radio School courses I have been taking have added to the inspiration. Updates will follow.



As noted on the cover page the Heimdal's 40th Anniversary weekend was wonderful (for full details see the RainCon). But there was a special highlight when a signed - numbered print from our very own renowned artist and SF Engineer Gary Burley was auctioned off at the closing of the evening. Details about this amazing, stunning, and sought after print and its history were covered in a previous issue of The Engineering Link. And I will just say with as much humility as possible.....

*"I look forward to having it properly framed and displayed"
It's an honor Gary.*

Also, let's take a moment to say Thank You to Carl and Bonnie Davis. They hosted an exceptional Phaser Sim (paint ball session) on that Sunday afternoon. Bud Walkers First*time behind a Tippmann 98 Custom and he showed true skill, it was great to kick back and enjoy competition and camaraderie. On a personal note, as we were leaving Bonnie honored us with homemade loafs of bread, 'Oh My' (as George would say). Barbara, my Mom Linda, and myself enjoyed every bite from grilled cheese to breakfast - every bite was a joy.

The weekend was followed up with our normal monthly 3rd Monday Heimdal Engineering Zoom session. CMDR Jonathan Hatter even stopped in (must have been the virtual scones) and the team laughed and shared for some time, sketched out ideas for the upcoming months, and inspired each other. BTW, expect some interesting SFA updates by our Engineering team by the end of May..... 'Right Doc?'



Time to wrap up once again,

It is NEVER lost on me the difference this team of Engineers can make - not only as a department, but as part of the USS Heimdal NCC-1793, and one of the most active Engineering Teams in Region One. This CEO is honored and blessed to play a role.

*"Guy, Guy, maybe you're the plucky comic relief. You ever think about that?"
- Tech Sergeant Chen - Galaxy Quest*

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

**SD: 202404.25 – Monthly Engineering Report – CMDR. Zak Lyon**

/begin/ As you know, Admiral Smith was tasked with creating a PSA around the importance of not interfering with the time stream. Temporal directives are extremely important. Everyone knows the drill. Who would be foolish enough to mess with time travel? But orders are orders and of course the Admiral assigned our own Cmdr. Walker the responsibility of putting the presentation together. I was excited to be able to help him and it was great fun. I hear the higher ups approved the final product, saying it would definitely do the job.

I've been waiting for an update on the reason why I have been asked to plot some, shall we say, unique courses and maneuvers. I assume it has something to do with the current fleet exercises and is above my rank to know. All I want is to remind people that we are getting near to the Tzenkethi border...Let's be cautious. Our patrol with the USS Kishida and the USS Adad, two ships with great conn officers, Lt. Commander Myers and Lt. Ardon, has been somewhat mysterious as well. However, I have gotten to know these two officers. I met Ardon in San Fransisco some time ago. She doesn't seem to remember me, so I haven't brought it up. I told them about the *Erica Trials* holodeck program. They are eager to try it out. We'll have to test them out on it when we can.

In the way of keeping my hand in communications, I've been trying to figure out a way to boost subspace signals through the Briar Patch. When I was on Lovelace Communications Relay Station for my first cadet rotation, I dabbled in communications while maintaining my engineering assignment of keeping the systems calibrated. Anyway, I received a challenge from two Klingon scientists that I met on shore leave and keep in touch with. One is quite the engineer as well. We are each coming up with ideas. They've become what old earth used to call "pen pals." I am going to consult with Chief Communications Officer Blanks on this one and see if she will loan me Lt. Cmdr. Whately. She has so much experience.

I don't need to tell you that as everything ramps up for the play on 25 May, Old Earth Calendar, things are getting chaotic around here. For some reason I've been delegated to tell everyone to be "off book" by next week. (You guessed it, I got roped in again.) "Off book" means everything has to be memorized. I don't know why our director expects such antiquated terms to be understood by everyone. But Prof. Sakai is exacting in wanting to direct "the classical way." I just want to let you know how much I appreciate members of the Engineering Department jumping in to take on a couple of unfilled roles at the last minute. Again, it would be great if everyone had their scripts memorized by next week. Hope I am not crossing a line, sir.

In a certain way, I'm looking forward to next month so we can all have the excitement of the show behind us and then things will get back to normal. /end/

**SD: 202404.25 – Monthly Engineering Report – CMDR Bud Walker**

/begin/ Captain, I am happy and relieved to report that my command project for Admiral Linda Smith went well. The crew appeared to receive the presentation positively and the Admiral was satisfied. Having put this project behind me, I have been returning to my normal duties for the rest of the month.

One of the tasks awaiting me was the reinitializing of Life Support systems to better calibrate their functions. This will be a long-term project. I have been coordinating with Lieutenant Geoff Branson, as Life Support division chief, so that we can accomplish this as efficiently as possible without interfering with the ship's normal functions. LT Branson is a competent officer and I have no complaints about his work. However, I will admit that on occasion I have had difficulty understanding him with his heavy accent.

>>> Continued.....

**SD: 202404.25 – Monthly Engineering Report – CMDR Bud Walker**

/continued/ ... He grew up in a fairly isolated community in Oceania, specifically New Zealand, and unlike most people on Earth, his regional accent was not moderated by contact with others across the globe. For example, it took me a while to figure out that when he said “tick” that he meant “tech,” or that “trektah” was really “tractor,” etc. I was tempted to engage my universal translator on my comm badge, but I felt he might be insulted.

I have about a month’s worth of sensor data logs to catch up on. Captain, I know that you have offered to assign an assistant to me to take care of some these fairly mindless tasks. But I feel like I am still learning how this ship really operates on the inside, and so I would rather continue doing these tasks myself. Obviously, I will defer to your judgement on this matter.

I am looking at formalizing reporting from the entire Operations Division. My goal would be to give you, as Department Head, a quick overview of what you need to know without extraneous information. This would not replace the monthly personal report that we all submit to you but rather would add to the communication you need to manage Engineering. I would think that such a report would include the following items: 1) System Status, 2) Mission Activities, 3) Crew Status, 4) Maintenance and Repairs, and 5) Special Notes. If you agree with this, I will expand on each category in future reports.

On the personal front, I have informed LT T’Ploth that I am able to continue with the Keethera Exercises. /end/

**SD: 202404.27 – Monthly Engineering Report – LT Lyon Jody**

/begin/ My idea to set up regular “get-togethers” with crew who work in different areas of the Heimdal has continued now for over a year. What I thought would be just a way for me to introduce myself and get to know like-minded people has turned into much more than I imagined. Certainly, I found those with similar interests. Through this group, a garden club had grown up with those who like to experiment with developing hybrids, those who like to get their hands in soil to feel the earth, and those who just like to watch plants grow. And I have found new interests. I have learned so much about holophotography – a hobby that I hope to sink my teeth into on my next shore leave. I have more understanding of the workings of the ship on a lower decks level and have shared the day to day in Engineering as well. On each of our “get-togethers” we eat! My appreciation for the food and drink of many worlds has skyrocketed. I have gained a few pounds, however. I guess I’ll have to try some of those new exercise routines suggested by my gardening buddy who works in Medical. My original idea to do something to force me to interact with new people, something difficult for an introvert like me, has flourished and changed into something I never expected. I know I have said this before, but Heimdal has become my home in a way that I could not have anticipated.

I continue with my ongoing education after setting a goal for the upcoming year. I have kept with the plan and each success gives me motivation to keep going. I am glad that I chose astronomy as current coursework. I have always delighted in the night sky. It represents hope to me. The stars in the Bajoran sky could take me away whenever I needed them. Certainly, since joining Star Fleet it is a different experience. I have even found myself contemplating the dark space as an aid to meditation. With my SFA endeavors I am now learning the science behind the aspirational beauty I have been appreciating my entire life.

I will keep you apprised of any new courses I complete. I would like your recommendations for coursework that might be directly related to my duties and responsibilities here in Engineering that I might pursue in the future. /end/

Heimdal Engineers at Starfleet Academy

LT Lyon Jody [2 Courses, Award]

IOSS - School of Planetary Identification & Discovery

DISTINCTION for SPID 105 - A Planet pt. 3 on Apr 10, 2024

HONORS for SPID 106 - A Planet Pt 4 on Apr 10, 2024

CMDR Zachary Lyon [4 Courses, Award]

IOTK - College of Plasma Technology

DISTINCTION for CPT 102 - States of Plasma on Apr 19, 2024

IOAE - College of Humour

DISTINCTION for SOC 1980C - Whoopie Goldberg on Mar 19, 2024

DISTINCTION for SOC 1950M - Lucille Ball on Mar 18, 2024

IOAE - College of Communications

HONORS for COM 101 - Interspecies Interaction on Apr 11, 2024

FCPT Darrell Millner [16 Courses, Award]

IOTK - College of Aerodynamics

HONORS for AERO 112 Helicopter aerodynamics part 2 on Apr 4, 2024

DISTINCTION for AERO 113 Helicopter Aerodynamics part 3 on Apr 4, 2024

DISTINCTION for AERO 114 Helicopter Aerodynamics part 4 on Apr 4, 2024

DISTINCTION for AERO 115 Helicopter Aerodynamics part 5 on Apr 4, 2024

DISTINCTION for AERO 116 Helicopter Aerodynamics part 6 on Apr 4, 2024

IOSS - School of Planetary Identification & Discovery

DISTINCTION for SPID 116 - Coreless, Desert, Double Planets Part 2 on Apr 04, 2024

DISTINCTION for SPID 117 - Gas Giants part 1 on Apr 04, 2024

DISTINCTION for SPID 118 - Gas Giants part 2 on Apr 04, 2024

DISTINCTION for SPID 119 - Helium, Hot and Puffy Planets part 1 on Apr 04, 2024

DISTINCTION for SPID 120 - Helium, Hot and Puffy Planets part 2 on Apr 04, 2024

IOIS - College of US Historical Sites

DISTINCTION for MOHS 101 - Gateway Arch on Apr 8, 2024

DISTINCTION for MAHS 101 - Plymouth on Apr 8, 2024

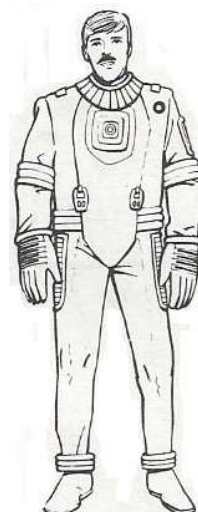
DISTINCTION for MEHS 101 - Acadia National Park on Apr 8, 2024

IOTK - STARFLEET Officers Radio School (IOST:SORS)

HONORS for SORS 202 - Broadcast Radio from Early Times to Today on Apr 8, 2024

HONORS for SORS 203 - From Radio to Television on Apr 09, 2024

PASS for SORS 204 - Shortwave Radio on Apr 26, 2024





Exercises in Tactics and Thought – CMDR Zak Lyon

Conflicts. Do we glorify them? That was a question my teacher, who I now know as Je'ica would often pose.

At my position on the helm, the last few days I have done a lot of thinking. These fleet exercises patrolling near the Tzenkethi Border and their unexplained nature cause me to remember and reflect upon an afternoon of an early summer day when we were discussing our ancient Greek lessons. On that day, Je'ica asked her young students if they ever "played war" with their friends. We all responded with our examples – The Klingon War was the number one answer. Some spoke of ancient wars. Some made up conflicts. She asked "why?" Some said it was fun, others said they liked to win. For others it was the good guy against the bad guy. Je'ica responded "Oh, yes, I know that many species have attained undreamed of levels of peace. And unlike what many critics predicted beforehand, when the Federation finally achieved a society where needs are met and peace rather than war is the goal, we *still* tell stories driven by want – want, when few have known it for centuries. And we *still* tell stories driven by misunderstanding and conflict when peace is abundant." She challenged us to think about the question she posed – "why?" I never forgot that day.

How many of you when contemplating the ancient conflict between the Promellians and the Menthars have turned it into a new Troy? Ripe for entertainment or praise for one side or the other. The fog of the past allows the young of many worlds to play out this conflict with too much gusto. Of course, modern scholarship now believes that this war that spanned star systems and ages was fought over the misunderstanding of the meaning of a flower.

"Because, my dears," my Lanthanite teacher said to all of her students, "no matter who began the Promellian/Menthara War - stars burned, homes were turned to dust and all that is remembered of two peoples was their conflict. And today people make warships in a bottle, contain that misunderstanding and in containing it they think they have mastery of it."

I hear people talking about the Tzenkethi as we pass close to their territory as if they are the bad guys. And no one here has ever met a Tzenkethi. (Remember when we thought the Ferengi were cannibals?) Are we not in danger of painting the Tzenkethi with a similar brush. Our skirmishes with this species have been minor – nothing to worry about, but a beautiful flower can turn into an all-consuming fire if you don't pay attention. Take lessons from history. Know it. Cherish the knowledge it garners. For only in doing that, shall we not make the same tragic mistakes over and over again.





Gateway: Forward Progress on Artemis IV

Source: <https://www.nasa.gov/image-article/gateway-forward-progress-on-artemis-iv/>

Dylan Connell / Briana R. Zamora - APR 30, 2024 NASA.GOV

"I am constantly in amazement at what the engineering teams around the globe continue to do" Millner

The Artemis IV mission is taking shape with major hardware for Gateway, humanity's first space station to orbit the Moon, progressing in Turin, Italy.

NASA will launch HALO (Habitation and Logistics Outpost), center of image in background, along with the Power and Propulsion Element (not pictured) to lunar orbit ahead of the Artemis IV mission as the first elements of Gateway, the first space station to be assembled around the Moon. During that mission, astronauts will launch in the Orion spacecraft with the Lunar I-Hab, pieces of which are shown here in the foreground, and deliver it to Gateway. Lunar I-Hab is provided by ESA (European Space Agency) with significant hardware contributions from JAXA (Japan Aerospace Exploration Agency), and is one of four Gateway modules where astronauts will live and work as they orbit the Moon.

Thales Alenia Space completed major welding on HALO and began initial fabrication of Lunar I-Hab last year. The company is a subcontractor to Northrop Grumman for HALO, and prime contractor to ESA for Lunar I-Hab.

Along with HALO, Lunar I-Hab, and the Power and Propulsion Element, two additional Gateway modules provided by ESA and the Mohammad Bin Rashid Space Centre make up the core components of the space station. CSA (Canadian Space Agency) is providing the Canadarm3 advanced external robotic system and fixtures for science instruments.

The international teams of astronauts living, conducting science, and preparing for missions to the lunar South Pole region from Gateway will be the first humans to make their home in deep space.



Gateway's Lunar I-Hab module under construction at a Thales Alenia Space industrial plant in Turin, Italy.

ESA/Stephane Corvaja



"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



SD: 202405 ZOOM COORDINATES

Heimdal Monthly Engineering Zoom

SD: 202405.20 ED: MAY 20TH, 2024 7:00 pm eastern – *Normalish Meeting*
FOR CURRENT HEIMDAL ENGINEERING DEPARTMENT MEMBERS

Mark you calendar - 3rd 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



A note in closing ...

I'd like to take a moment to Thank "RADM Carl Davis, ADM William Smith, and the entire command staff of the USS Heimdal". Carl and Willy took that extra, classy, and professional step to move forward on having the Heimdal plaque created and ready for our CO ADM Linda Smith on this our 40th Anniversary. I hope each of you can appreciate the work that went into this and the attention to detail. If you are a current member of the crew... I hope you will note YOUR name included on this new "historical document" - "And I Have Touched The Sky"



Reminder achieves of the "The Engineering Link" can be found via
<https://trek.millnernet.com/home/eng-link/>
and the current Heimdal's Newsletter "Rainbow Connection" via
<https://www.ussheimdal.com/rainbow-connection-newsletter>
Be sure to look for the artifact



STAR FLEET

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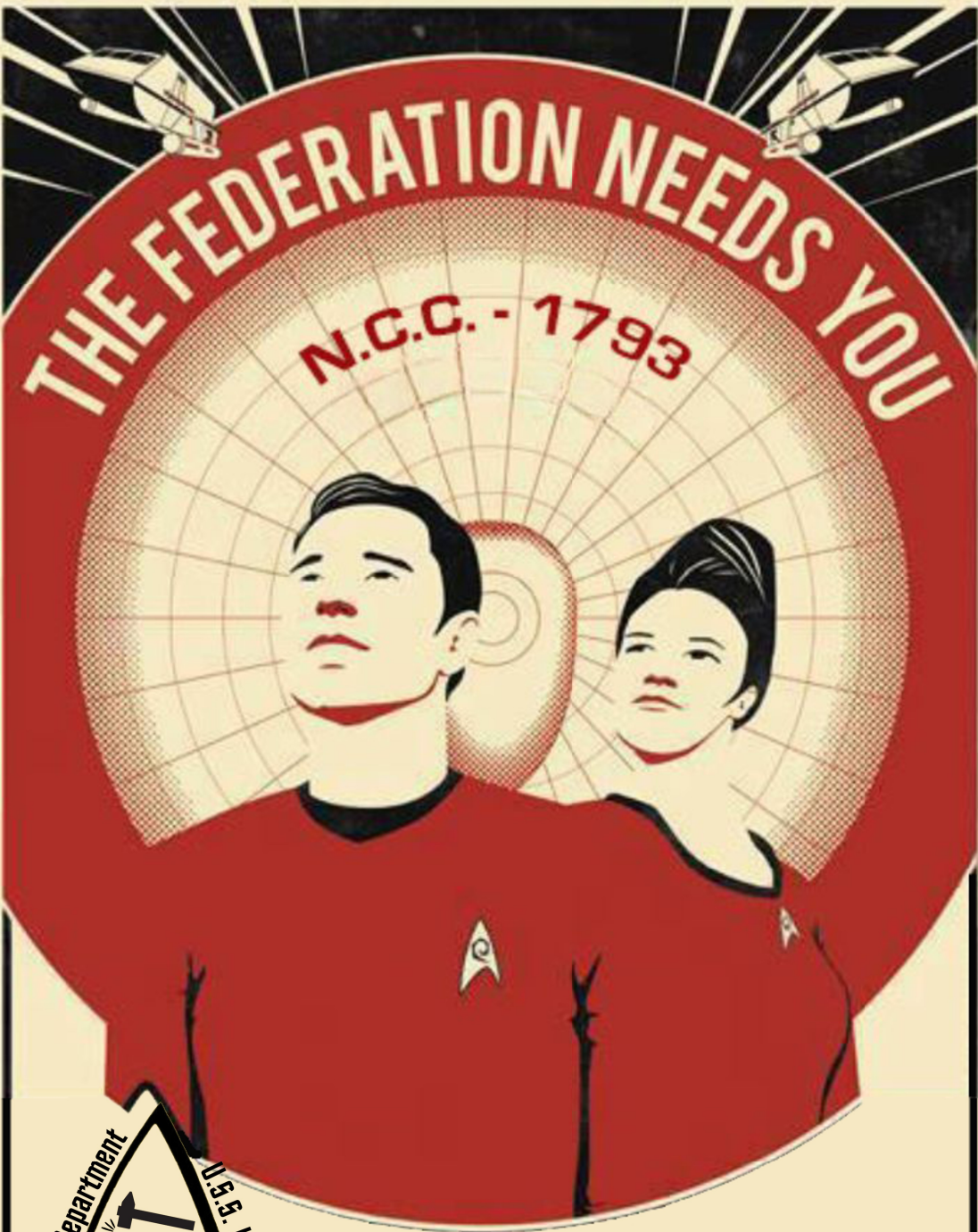
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Contact Info:

MILLNER

54 Breeze Pt.
Byron, GA 31008
Trek1793 @ millnernet.com
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N.C.C. - 1793

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VIRTUAL SCONES AND RAKTAJINO
Email: TREKI793@MILLNERNET.COM

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