

VOLUME 60 NUMBER 35

AUGUST 31, 2019

THE KWAJALEIN HOURGLASS



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SHONKWILER VISITS THE OCEANSIDE
REVTMENT PROJECT AT THE FORMER
U.S. NAVY DUMP AUG. 21.

◉ JESSICA DAMBRUCH



A CLEAN SWEEP

The former U.S. Navy Dump Removal initiative and shoreline revetment is nearly complete on U.S. Army Garrison-Kwajalein Atoll.

BY JESSICA DAMBRUCH

Work is nearly complete at the former U.S. Navy Dump Removal for U.S. Army Garrison-Kwajalein Atoll. An initiative of USAG-KA Directorate of Public Works with funding by U.S. Army Environmental Command, the multi-year project will culminate in the removal of more than 37,000 tons of dump debris and 15 million pounds of scrap metal and military equipment discarded during and after World War II at the site of the former U.S. Navy dump. The area operated as the island's only landfill during the Navy's operation of Kwajalein from 1944 to 1964, prior to turning operations over to the Army.

The metals will be hauled back to the United States to be recycled. A new rock revetment designed to shield the runway and shoreline from erosion was installed in place of the removed debris.

The removal project is a success story for the garrison and the Republic of the Marshall Islands. It is also the culmination of team efforts by the Army and supporting contractors, said Glen Shonkwiler, environmental engineer for U.S. Army Space and Missile Defense Command and environmental cleanup manager on Kwajalein for the past 15 years.

The project began in 2011 with investigations of the active landfill. Studies confirmed the presence of metals and poly-

chlorinated biphenyls that have leached into the marine environment and accumulated in local reef fish. During the past year, 2,000 feet of the shoreline has been cleared of dump debris, all the way from Glass Beach, through the Shark Pit area and around Telemetry Hill. The removal of contaminated materials from the surf minimizes the release of contaminants to marine life. It protects not only ecological consumers of the marine life, but also humans who regularly consume reef fish and other marine life.

"It's very fulfilling to see this project come from its initial stages all the way to completion," said Shonkwiler. "It's a proud moment for us. We're in the final weeks of the project and have begun some demobilizing. Each rock barge that came in was loaded with accumulated scrap metal. We will recycle more than 15 million pounds of scrap metal."

At any given moment during the project, a workforce of an average of 20 personnel from multiple supporting companies were on the job.

"The main workforce on island has included various subcontractors, such as KFS, LLC; HDR, Northwest Demolition and Dismantling; Nan, Inc.; USA Environmental; Waste Management; and Boyer Towing," said Shonkwiler. "We put together a good team, and it's been a successful project throughout."

One of those teammates is Jevon Stone,

heavy equipment operator for Northwest Demolition and Dismantling.

"It's been quite the experience," said Stone. "I've worked with a lot of amazing crews. I'd love to come back out here again."

Any excavation project on Kwajalein may turn up UXO or WWII artifacts. Despite the number of such findings, the project has not suffered a serious work-related safety incident.

"We had Kwajalein Explosive Ordnance Disposal out on a pretty regular basis," said Shonkwiler. "We also found a lot of WWII artifacts: Japanese shore guns, a Sherman tank turret, and a number of other interesting finds that the Kwajalein Archaeology office now has. It was a project that was always finding something. Whether it was UXO or an artifact, it made the safety for the project a priority."

The shoreline is still off limits to Kwajalein residents. In the coming weeks, protective safety fences will come down, and the garrison may move forward with more plans for the cleared site to be a new enjoyable place for the community.

"The primary purpose of the project was to minimize the release of contaminants to the marine environment," said Shonkwiler. "This area is also now a lot more usable and aesthetically pleasing for the garrison."

U.S. Army photo by Jessica Dambruch

THE KWAJALEIN HOURGLASS

The *Kwajalein Hourglass* is named for the insignia of the U.S. Army's 7th Infantry Division, which liberated the island from the forces of Imperial Japan on Feb. 4, 1944.

The *Kwajalein Hourglass* is an authorized publication for military personnel, federal employees, contractor workers and their families assigned to U.S. Army Garrison-Kwajalein Atoll.

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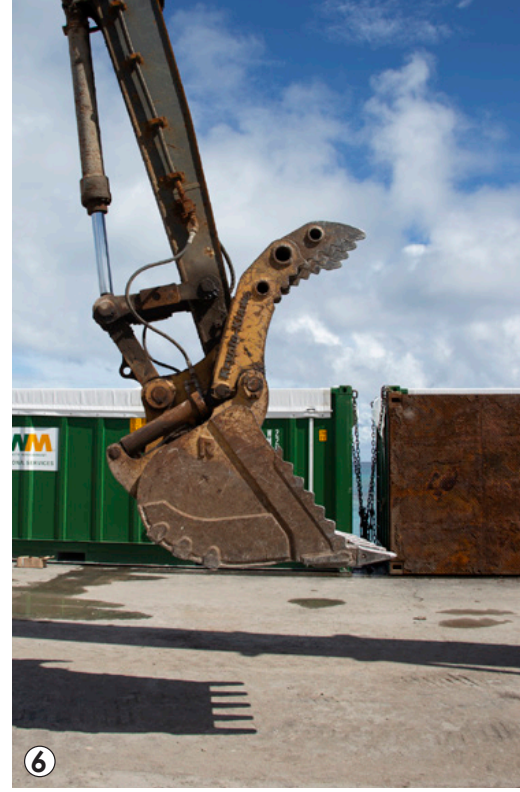
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2



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6



4



7



5

1) A pile of scrap metal rests on the barge. 2) Jevon Stone, heavy equipment operator for Northwestern Demolition and Dismantling, checks the view from his excavator. 3) Heavy metal action: A member of the cleanup team keeps watch as an excavator loads scrap metal on the barge. 4) The new revetment makes for a beautiful view of oceanside Kwajalein. 5) A construction vehicle travels to the dump site. 6) The excavator gets ready to move metal. 7) The open road: Glen Shonkwiler takes Jordan Vinson on a tour of the revetment.



U.S. Army photo by Jessica Dambruch

RMI Massachusetts Institute of Technology Lincoln Laboratory Instructor Ranny Ranis, left, and 2019 interns Naomi Mae Napa and Abraham Mea are this year's MIT LL RMI IT Information Technology Internship Program team.



MIT LL RMI INTERNS PREPARE FOR FUTURE

NEWS/JESSICA DAMBRUCH

The Massachusetts Institute of Technology Lincoln Laboratory recognized graduates of the 2019 RMI Information Technology Internship program in a culminating event Aug. 23 at the Ronald Reagan Ballistic Missile Test Site headquarters on U.S. Army Garrison-Kwajalein Atoll.

The annual internship program is a competitive opportunity to gain vocational training in computer science and information technology. The program includes observations and field trips to departments around the garrison. Interns receive a weekly stipend, in addition to an educational scholarship award. Upon program completion, the interns pursue higher education, volunteer their skills and prepare for career opportunities in the IT field. Candidates must be proficient in English and reside in the Marshall Islands.

Ebeye residents Naomi Mae Napa and Abraham Mea gave presentations and an overview of the intensive, 10-week program to local leaders. Those leaders were: Dr. Justin Stambaugh, MIT LL site manager; Rachel Hickman, RTS Range deputy director; Col. Jeremy Bartel, USAG-KA commander; John O'Rourke, systems ad-

ministrators; Dr. Tommy Sebastian, technical program advisor; Stephanie Finley, MIT LL group administrative assistant, as well as MIT LL staff and personnel from the RMI government.

The program's training objectives included exercises in troubleshooting, as well as studying and building computers and networks that run on different operating systems. The interns also built a backup server for Ebeye's Lerioj Kitlang Memorial Health Center.

"In previous years we had file servers, racks and consoles put there," said Napa.

"A backup server allows you to recover files that can be lost in a power outage."

Napa and Mea worked to make their technical presentation fun and easy to understand.

"In the computer world, machines like to talk to each other using numbers," said Mea, in his discussion of network mechanics and computer security. "By numbers I mean IP addresses. So, let's look at a model that shows what happens behind a client computer."

"The LAN is a trusted network, while the WAN is bigger and not as secure," said Napa, as she launched into a discussion of USB connections and RJ45 cables. "If we're building networks, we need to know the hardware,"

Napa holds a Bachelor of Science in Computer Science from the University of St. La Salle. She plans to earn professional certificates in Network+ and CompTia Security Plus to pursue a career as a business analyst, solutions architect or information consultant for the RMI.

Mea, who studied at the University of San Carlos, plans to take Cisco courses on Majuro.

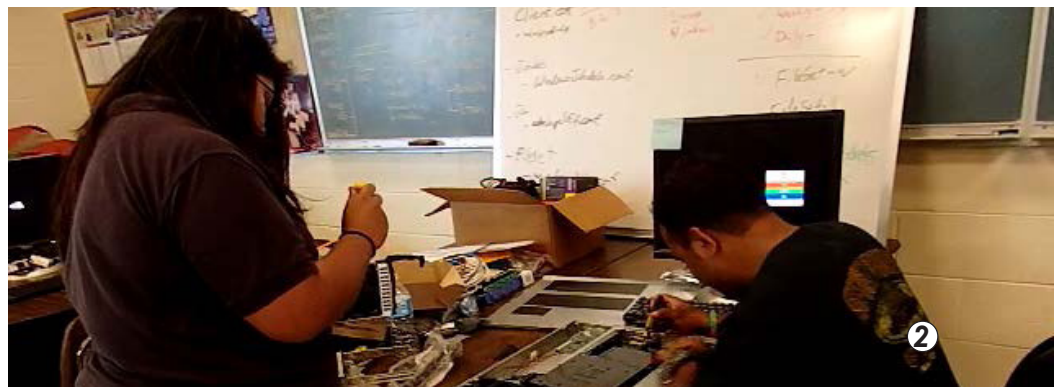
"In the meantime, I plan to help my community and especially the high schools," he said. "I want to see if I can volunteer and use my repair knowledge."

Technical Advisor Tommy Sebastian and the interns thanked MIT LL and USAG-KA for their support.

"This program would not be what it is without our administrative staff and John O'Rourke," he said.

The interns expressed their gratitude, both for what they had learned and for the relationships they were able to make while learning.

"We thank the garrison and MIT LL for sponsoring the program," said Mea, in closing. "We've learned so much as your candidates this year. It's been a very fruitful journey for us, and we will be forever grateful."



Napa and Mea work on a logic board during their summer IT internship with MIT LL.

Photo courtesy of MIT LL



1) Ronald Reagan Ballistic Missile Defense Test Site headquarters hosted two RMI MIT LL intern presentations Aug. 23. FROM LEFT: John O'Rourke, MIT LL system administrator; Ranny Ranis, intern program instructor; Dr. Tommy Sebastian, technical program advisor; Dr. Justin Stambaugh, MIT LL site manager; Naomi Mae Napa, RMI IT intern; Col. Jeremy Bartel, USAG-KA commander; Abraham Mea, RMI IT intern; Lanny Kabua, RMI liaison officer to USAG-KA; Rachel Hickman, RTS Range deputy director. 2-3) Stambaugh awards IT internship certificates to Mea and Napa, respectively. 4) Napa presents networking and computer-building tips.

Childhood Immunizations

Did you know that when you get vaccinated, you are protecting yourself and your community? How does community immunity work? Germs can travel quickly through a community and make a lot of people sick. If enough people get sick, it can lead to an outbreak. But **when enough people are vaccinated against a certain disease**, the germs can't travel as easily from person to person — and the entire community is less likely to get the disease. Community immunity (also known as herd immunity) protects everyone. It is important for you and your family to get vaccinated, so you can help keep yourselves and your community healthy.



What's up with immunizations?

On-time vaccinations throughout childhood are essential because they help provide immunity before children are exposed to potentially life-threatening diseases. Over the years, vaccines have prevented countless cases of disease and saved millions of lives. Infants, children, adolescents, teens and adults need different vaccinations, depending on their age, location, job, lifestyle, travel schedule, health conditions or previous vaccinations. Because of vaccines, some diseases like polio and diphtheria are rare in the U.S. Immunity is the body's way of preventing disease.

Statistically, the chances of your child getting diseases such as measles, pertussis, or another vaccine-preventable disease might be low. However, you don't want them without the protection that vaccines provide. **Think of it this way:** You always make sure to buckle your child in his or her car seat even though you don't expect to be in an accident.

What about side effects?

Any vaccine can cause side effects. For the most part, these are minor. For example, a sore arm or low-grade fever go away within a few days. A decision not to immunize a child also involves risk and could put the child and others who come into contact with him or her at risk of contracting a potentially deadly disease.

What about the flu vaccine?

An annual flu vaccine is the best way to reduce your chances of getting the seasonal flu and spreading it to others. The Centers for Disease Control and Prevention recommends that everyone six months of age and older receive an annual flu vaccine. For more than 50 years, hundreds of millions of Americans have safely received seasonal flu vaccines.

CYS requires your child to have up-to-date vaccinations in order to register for programs.

Contact your local public health agency or health care provider if you have concerns.

Reference

- <https://www.cdc.gov/vaccines/parents/why-vaccinate/index.html>
- <https://www.vaccines.gov/basics/work/protection>



Barnacles grown on silicone substrate used at the U.S. Naval Research Laboratory for scientific experiments at Washington, D.C. August 2, 2019. The barnacles use a proteinaceous glue to tenaciously attach to numerous surfaces, including ship hulls, making them a nuisance to the Navy.

RESEARCHERS DEVELOP GROUNDBREAKING PROCESS TO STUDY BARNACLE GLUE, COULD SAVE U.S. NAVY MILLIONS

EXTERNAL REPORT

By Cassandra Eichner
U.S. Naval Research Laboratory
Public Affairs

WASHINGTON—Researchers at the U.S. Naval Research Laboratory developed a new method for identifying the glue proteins that barnacles produce to adhere to ship hulls and other surfaces.

The new method, featured on the cover of the May issue of *Integrative Biology*, is faster, safer, improves efficiency of samples and yields more effective results than traditional methods. Researchers hope the discovery will lead to new solutions for dealing with the accumulation of barnacles on ship hulls, which hinders Navy operations by creating drag and increasing fuel costs.

"We are developing a new way to actually study the adhesive to see what it is composed of," said Janna Schultzhause, research biologist and National Research Council Postdoctoral Associate at NRL. "Before we can develop something that will work against it, we have to know what it is."

These small but mighty crustaceans create a cement-like adhesive layer that is difficult to remove once applied. The adhesive layer, called barnacle glue, is made of proteins that have remained mysterious to researchers. Researchers believe identifying the proteins is the first step

toward understanding the glue, and ultimately developing materials to effectively combat the glue's adhesive qualities.

"If we can figure out how to make them not attach as well, they will be easier to remove or [ensure] they just won't attach," Schultzhause said. "That would save the Navy a lot of money."

Researchers have used solutions like toxic hexafluoroisopropanol to dissolve the glue and identify proteins. The problem with that method is that not all of the

glue fully dissolves. That means that while researchers are able to identify some of the glue's proteins, they have no way to identify the proteins in the remaining undissolved glue.

"Imagine if you have a lot of salt and you put it in the water," said Dasha Leary, NRL research biologist "Not all the salt will dissolve. But if you want to study all the

— See "NAVY," p. 8



U.S. Navy photos by Jonathan Steffen

Barnacle samples in pressure cycling technology tubes and bullet with barnacle samples in the background are used for proteomics analysis at U.S. Naval Research Laboratory, Washington, D.C. August 2, 2019. The barnacle base plate covers the glue, illustrating how difficult sample collection is; the tubes and bullet are specially designed to handle high pressure conditions. (Navy photo by Jonathan Steffen)



U.S. Navy photo by Jonathan Steffen

Janna Schultzhause, postdoctoral research scientist, prepares barnacle glue samples for proteomics analysis using pressure cycling technology at U.S. Naval Research Laboratory, Washington, D.C. August 2, 2019. The use of pressure has enhanced the ability to break down the intractable glue.

— “NAVY,” cont. from p. 7

salt you need to either add more water or come up with a different way of dissolving it. That’s kind of how these guys are. We have chunks of the proteins, but we need them all broken down in the solution to be able to study them.”

Schultzhause and her fellow researchers designed a study to test how well their barocycler machine, a laboratory instrument used to subject specimens to cycles of pressure, could break down the proteins with three separate test solvents. The machine worked by continuously applying and releasing high pressure on the samples.

In the study, researchers identified more than 80 proteins, about double the number identified in previous studies. After they characterized the proteins, they discovered several enzymes, which Schultzhause believes may play a role in the production of glue, the transport of proteins, or in the support of the barnacle molting process. She hopes future studies will reveal the purpose of each.

The pressure cycling technology also allowed the researchers to use smaller samples and get results in a shorter time compared to traditional sol-

vent-soaking approaches.

“We can do 16 samples at a time while before we could do only one sample and we had to pull several barnacles together to get enough material to study it,” Leary said. “Here we can look at material from a single barnacle and tell the individual differences better. It could take several days to get the results with the old process because there were extra steps.”

NRL’s barnacle team believes developing novel ways to extract proteins will be critical to understanding how barnacles interact with the environment and, ultimately, how to keep them from attaching effectively.

“We now have a controlled way to break the glue down and see what’s there and what’s changing,” Schultzhause said.

Their findings also have implications for the medical community. According to Schultzhause, medical researchers can use this technique to study similar substances, like plaques formed during disease.

Complete details of the collaborative research by NRL’s Center for Bio/Molecular Science and Engineering Division and Chemistry Division can be found in the June 28, edition of Integrative Biology (doi.org/10.1093/intbio/zyz020).

AFTER SCHOOL COOL WITH NAMO WETO YOUTH CENTER

HOURLASS REPORT

The Namo Weto Youth Center is gearing up for its fall after-school program with help from USAG-KA Child and Youth Services Program Assistant Lead AJ Rawls. Part of Rawls’ tasking is to create engaging programming tailored to the needs of island teens in grades seven through 12 while meeting the U.S. Army’s standards for its accredited child and youth program offerings.

That may sound like a tall order, but for anyone who participated or volunteered in the center’s summer enrichment courses, it’s clear that big things are in store for the fall.

“We do a variety of programming that hits the Army core frameworks,” said Rawls. “Whether the classes are in the arts; character and leadership; health, wellness and sports; or fitness and recreation, there are tons of different activities going on.”

On any given day one can find teens visiting in beanbag chairs, using computers to do homework or making use of crafts and game stations. Volunteer and honors organizations like the Torch and Key Clubs use the space as a regular area to meet. Summer classes gave teens a chance to have fun while learning at the center’s two-room recreation and relaxation facility.

“One of the things I like most about being here is that I can elevate my expectations and the students always rise to meet them,” said Rawls. “In everything I do, I challenge the students to push a little further.”

Among the course offerings were cooking, swing dancing, and opportunities to learn the basic skills in a variety of areas, including creative writing and Italian language skills. One course in American Sign Language proved so popular that it will be available as a club for teens this fall.

A popular cooking class had students learning how to make three-course meals.

“They’ve been learning how to do appetizers, entrees and desserts,” said Rawls of the class. I can say, as a taste tester, the students have done a great job.”

A new set of enrichment courses will be available this fall, with offerings focused on money management, photography and health and wellness skills. Of course, no teen center is complete without chances to have fun. Movie nights and trivia nights are scheduled for each week. Teens and parents interested in learning more about the youth center’s free programming should call 5-3796 for details and speak with Rawls or CYS Specialist Linda Webb.

Rawls hopes more teens will join youth center activities this fall.

“There are tons of different activities going on,” said Rawls. “The teen center is a place to give the kids on island a safe space to come with a little bit of adult supervision where they can be themselves, be who they are and have a good time.”

BACK-TO-SCHOOL SEASON REMINDERS

BY THE KWAJALEIN SCHOOL SYSTEM

On behalf of all of the staff of the Kwajalein School System, we'd like to welcome everyone back to school!

School began for students on Thursday, August 23. We look forward to a fantastic year full of new learning experiences. We hope the information that follows will be helpful to all families of school age children.

Upcoming Dates

- **September 5, 6:30-7:30 pm:** Kwajalein Jr.-Sr. High School Back to School Night in the high school MP Room
- **September 6, 6-7 p.m.:** George Seitz Elementary School "Back to School" Night in the Coconut Room

Elementary School Hours of Operation

- Office hours are 7:30 a.m.-4:30 p.m. Tuesday – Saturday
- All GSES students line up on the playground with the 8:30 a.m. bell
- Kindergarten and 1st grade students are dismissed for lunch at 11:25 a.m.
- Second-6th grade students are dismissed for lunch at 11:30 a.m.
- All GSES students line up on the

- playground with the 12:30 p.m. bell.
 - Kindergarten and 1st grade students are dismissed for the day at 3:25 p.m.
 - Second-6th grade students are dismissed for the day at 3:30 p.m.
- *Please note that supervision for students begins at 8:20 a.m. and at 12:20 p.m. Students may not be on the playground before these times due to lack of supervision.

Jr.-Sr. High School Hours of Operation

- Office hours are 7:30 a.m.-4:30 p.m. Tuesday – Saturday
- All KJSHS students should be in their first class at the first bell that rings at 8 a.m.
- All KJSHS students will be dismissed for lunch at 11:25 a.m. and return for the 12:25 p.m. afternoon bell
- All KJSHS students are dismissed at the 3 p.m. bell.

Kwajalein School System Plus Portal

The Kwajalein School System Plus Portal is a valuable resource for parents and community members. Anyone can access the official school calendar, parent-student handbooks, school policies, school supply lists and links to the school website and a parent tutorial for the portal on the Kwajalein School System Portal log-in page. This does not require a password to access. Contact the school for assistance with creating an account to

view your students' grades.

- **Kwajalein School System Plus Portal:** <https://www.plusportals.com/KwajaleinSchool>
- **School Website:** <https://kwajaleinschools.org/>
- **Parent Tutorial:** <https://docs.re-diker.com/interactive/plusportals/progress.htm>

Early-Release Wednesdays

Wednesdays are early release days. KJSHS and GSES students are all released at 2:15 p.m. each Wednesday so that teachers can participate in professional development activities.

Kwajalein Child Youth Services

Child Youth Services has school-age programs for students before and after school. Call 5-2158 for information on programs available.

School Advisory Committee

The School Advisory Committee has monthly public meetings held on the third Wednesday of each month at 7 p.m. in the Coconut Room. The community is welcome to attend and participate in these meetings. The first meeting of the year will be held September 18. Questions and concerns may always be referred to SAC representatives. Watch the AFN roller channel for a list of representatives and their contact information.



It's That Time.

School starts this week and all children attending Kwajalein School System programs need to be up-to-date with the 2019 CDC immunization schedule. Notifications are being sent out to remind parents which specific vaccines their children need.

Please make an appointment at the Kwajalein Hospital for the vaccines needed.

SATURDAY, AUGUST 31, 2019 / VOLUME 60 NUMBER 35

Why get vaccinated?



Protect yourself and your family: When you and your family get vaccinated, your health is protected.



Protect your community: When most members of a community are vaccinated, it greatly reduces the chance that a disease outbreak will occur.



Protect your world: Strategic vaccination campaigns can significantly reduce the number of people who get sick from infectious disease.

Vaccines are safe, effective and the best way to prevent disease!

THE KWAJALEIN HOURGLASS

WEATHER WATCH

BY RTS WEATHER STATION

WEATHER DISCUSSION: Thanks to several rounds of late night and early morning heavy showers over the last week, the August rainfall total for Kwajalein Island is near normal as we approach the end of the month. Pleasant weather is expected across Kwajalein Atoll this weekend as the Intertropical Convergence Zone continues to weaken and become more disorganized across the RMI. Light southeasterly winds will produce weak, low-level convergence and isolated showers across the atoll through most of the weekend, especially during the overnight and early morning hours. Cloud cover and showers are expected to increase toward the end of the holiday weekend.

SATURDAY: Partly sunny with isolated morning showers decreasing by afternoon (10 percent coverage across the atoll). Winds light from the SE-SSE.

SUNDAY: Mostly sunny with stray to isolated showers (10 percent coverage across the atoll). Winds ESE-SE at 4-9 knots.

MONDAY: Partly sunny with isolated showers (10 percent coverage across the atoll). Winds E-ESE at 5-10 knots.

NEXT WEEK: After a slight increase in shower activity Tuesday, light and variable winds will prevail the remainder of the week. Expect an increase in showers Thursday as another wave moves through the atoll.

KWAJ
CAPPI
TV_Z_010_150
Task: GWV0L5
PRF: 960Hz
Height: 1.0 km
Max Range: 150 km
21:42:44
10 APR 2019 U



SUN-MOON-TIDES

	SUNRISE SUNSET	MOONRISE MOONSET	HIGH TIDE	LOW TIDE
SUNDAY	6:41 a.m. 6:58 p.m.	8:09 a.m. 8:39 p.m.	5:19 a.m. 5.2' 5:42 p.m. 4.6'	11:36 a.m. -1.2' 11:44 p.m. -0.9'
MONDAY	6:41 a.m. 6:57 p.m.	9:06 a.m. 9:28 p.m.	5:57 a.m. 5.0' 6:19 p.m. 4.5'	12:11 p.m. -0.9' -----
TUESDAY	6:41 a.m. 6:57 p.m.	10:02 a.m. 10:16 p.m.	6:34 a.m. 4.5' 6:57 p.m. 4.2'	12:24 a.m. -0.7' 12:46 p.m. -0.6'
WEDNESDAY	6:40 a.m. 6:56 p.m.	10:57 a.m. 11:05 p.m.	7:11 a.m. 3.9' 7:37 p.m. 3.9'	1:05 a.m. -0.2' 1:20 p.m. -0.1'
THURSDAY	6:40 a.m. 6:56 p.m.	11:52 a.m. 11:54 p.m.	7:50 a.m. 3.2' 8:22 p.m. 3.4'	1:50 a.m. 0.3' 1:56 p.m. 0.4'
FRIDAY	6:40 a.m. 6:55 p.m.	12:46 p.m. -----	8:37 a.m. 2.6' 9:27 p.m. 3.0'	2:46 a.m. 0.8' 2:39 p.m. 0.9'
SEPTEMBER 7	6:40 a.m. 6:54 p.m.	1:40 p.m. 12:45 a.m.	10:07 a.m. 2.0' 11:24 p.m. 2.8'	4:22 a.m. 1.2' 3:58 p.m. 1.3'

Celebrate Labor Day with Sun Smarts!

When you head to the beach September 3 be sure to celebrate the holiday safely. Don't forget to pack your sunscreen. Break out your best sunhat and put on your shades to stay cool.



**GO GREEN FOR
GROCERIES!
REMEMBER TO
BRING YOUR
REUSABLE BAGS
TO SURFWAY.**



Sexual Harassment/Assault
Response and Prevention
(SHARP) Contact Information

CW2 Jarell Smith
SHARP Victim Advocate
Work: 805 355 2139
Home: 805 355 2036

USAG-KA SHARP Pager:
805 355 3243/3242/3241/0100
USAG-KA SHARP VA

Local Help Line:
805 355 2758
DOD SAFE Helpline:
877 995 5247

**NOTICE OF AVAILABILITY
Navy Flight Experiment-2 (FE-2)
Draft Environmental Assessment/Overseas
Environmental Assessment and Draft
Document of Environmental Protection**

The Office of the Under Secretary of Defense for Research and Engineering, Department of the Navy (U.S. Navy) Strategic Systems Programs (SSP), with assistance from the U.S. Army Space and Missile Defense Command/Army Forces Strategic Command (USASMD/ARSTRAT), has completed a Draft Environmental Assessment / Overseas Environmental Assessment (EA/OEA), prepared in accordance with the National Environmental Policy Act (NEPA) and a Draft Document of Environmental Protection (DEP) prepared in accordance with U.S. Army Kwajalein Atoll (USAKA) Environmental Standards and Procedures (UES), Section (§) 2-17.31(j).

The Draft EA/OEA analyzes the impacts of the continuing collection of data on a developmental payload by testing one such flight experiment concept. Specifically, the FE-2 would continue to develop, integrate, and flight test a payload system to demonstrate the maturity of key technologies.

The U.S. Navy considered eight alternate launch and impact locations and determined that the launch from Pacific Missile Range Facility (PMRF) at the Sandia National Laboratories/Kauai Test Facility (SNL/KTF) with impact near the Ronald Reagan Ballistic Missile Defense

Test Site (RTS) and the launch from NASA Wallops Flight Facility (WFF) with impact in the Atlantic Broad Ocean Area (BOA) both meet the test requirements for vehicle performance and data collection.

Alternative 1, the Preferred Alternative, includes PMRF, Barking Sands, Kauai, Hawaii; the U.S. Army Kwajalein Atoll (USAKA); RTS, Republic of the Marshall Islands (RMI); and the Pacific BOA. Alternative 2 includes WFF, Virginia; and the Atlantic BOA. The U.S. Navy's preferred alternative is a launch from PMRF with an impact at Illeginni Islet because it best meets the screening criteria / evaluation factors and the requirements of the Purpose of and Need for the Proposed Action.

The U.S. Navy is also considering the No Action Alternative, as required by the CEQ regulations. Based on the analysis, the SSP has determined in the Draft EA/OEA that the activities associated with the Proposed Action are not expected to result in significant impacts to the environment.

All missile demonstration programs proposed to occur at USAKA and within the RMI territorial waters must comply with the UES. The Draft DEP outlines the activities proposed to occur at USAKA and within the RMI. The proposed activity is located on Illeginni Islet and in the BOA of the Pacific Ocean. As fully analyzed in the Draft EA/OEA, the Navy proposes one experimental flight test.

The Draft EA/OEA, Draft Finding of No Significant Impact/Finding of No Significant Harm (FONSI/FONSH) and the Draft DEP are avail-

able at www.FE-2-EAOEA.com and in the following locations:

(1) Office lobby of the Republic of the Marshall Islands Protection Authority, Majuro, Marshall Islands

(2) Office lobby of the Republic of the Marshall Islands Environmental Protection Authority, Ebeye, Marshall Islands

(3) Grace Sherwood Library
P.O. Box 23
Kwajalein, Marshall Islands
APO, A.P. 96555

(4) Roi-Namur Library
P.O. Box 23
Roi-Namur, Marshall Islands
APO, AP 96555

Public comments on the Draft EA/OEA, Draft FONSI/FONSH, and Draft DEP will be accepted from August 26, 2019 to September 26, 2019 and can be provided in either of the following ways:

(1) E-mail comments by September 26, 2019 to Comments@FE-2-EAOEA.com

(2) Mail comments, postmarked no later than September 26, 2019, to:
USASMD/ARSTRAT
ATTN: SMDC-EN (M. Hubbs)
P.O. Box 1500
Huntsville, AL 35807

**Kojjelā Ke Ewōr Ekatak
Edredrelok Ikiheen Kein Kettelok-2 an Navy
(FE-2) Ekatak eo imaan tata kin etale pelaak
ko naetan EA/Ekatak eo kin pelaak ko itulik
naetan OEA im Ekatak eo imaan tata ikiheen
kejebarok pelaak ko**

Office eo an Under Secretary eo an Defense ikiheen Research im Engineering, Department eo an Navy (U.S. Navy) Strategic Systems Program ko (SSP), im kin jiban ko jen U.S. Army Space im Missile Defense Command eo/Army Forces Strategic Command eo (USASMD/ARSTRAT), emoj an kadredreik lok Ekatak eo imaan tata kin etale pelaak ko/Ekatak eo kin pelaak ko itulik naetan ekatak kein (EA/OEA), ko im raar kebooji ekkar fian kakien im karok ko rej kemlet ilo National Environmental Policy Act (NEPA) ekoba ekatak eo imaan tata kin wāwein kejebarok pelaak ko naetan (DEP) ko im raar kebooji ekkar fian jakiek im repeltan jeral ko an U.S. Army Kwajalein Atoll (USAKA) Environmental Standard ko im Procedure ko (UES), iumin Section (§) 2-17.31(j).

Ekatak kein naetaer EA/OEA rej etale jekjek ko renaaj walok im jelet wāwein aer aini melele ko ilo aer ekatak kin joñan kajur eo an kein jeral eo ilo aer naaj kōm̄malmele juōn katten ketelloke kein jeral eo ekkar fian jekjek ko elmakwōti ikiheen. Nan kalikare, kein jeral eo naetan FE-2 renaaj kōkmanmanlok, kakobabaki jeral ko an im ketteloke im lale joñan kajur in im marofi eo an fian etale im kwalok joñan emman in kein jeral im kapeel ko ej kejebari an raan kein.

U.S. Navy eo ear lem̄nake rualitok jikin ketellok ko im jikin ko kein jeral inenaaj jeleti im loe bwe jikin eo ilo woden Pacific in naetan Pacific Missile Range Facility (PMRF) ilo Sandia National Laboratories/Kauai Test Facility eo (SNL/KTF) ilo an marofi jelet jikin ko iturin Ronald Reagan Ballistic Missile Defense Test Site eo (RTS) ekoba jeral in ketellok eo jen NASA Wallops

Flight Facility eo (WFF) ilo an marofi jelet jikin ko ilo Atlantic Broad Ocean Area eo (BOA) bwe jikin kein jimar raar marofi in tōbrare joñak ko aikuij ikiheen joñan emman in an kein jeral in jeral im aini melele ko. Jikin ko rebed ilo.

Alternative 1, Jikin ko remman, ekoba PMRF, Barking Sands, Kauai, Hawaii; U.S. Army Kwajalein Atoll (USAKA); RTS, Republic eo an Marshall Islands (RMI); im kab Pacific BOA eo. Jikin ko jet rebed ilo Alternative 2 ekoba WFF, Virginia; im kab Atlantic BOA eo. Jikin eo U.S. Navy ej wotoki emman ej jikin ketellok eo jen PMRF ilo an marofi jelet ene eo naetan Illeginni kinke ej make wōt emman ilo joñak ko rejelet jeral in etale / menin ekatok ko ekoba wāwein im jekjek ko ikiheen Unin an kōm̄man im Aikuij eo bwe en wōr Makitkit ko elmakwōte ikiheen wāwein kōm̄mane kōm̄malmel eo.

U.S. Navy ej bareinwōt lem̄nake jekjek eo elafie ren Jab Kōm̄man Jabdrewōt Makitkit, enwōt an kemlet ilo karok im kakien ko an CEQ eo. Bedbed ion ekatak eo, SSP eo emoj an kalikare ilo Ekatak ko Imaan tata Kin Pelaak ko/Pelaak ko ilikin naetaer Draft EA/OEA ko bwe makitkit ko rej uwaan lok Elmakwōt in Makitkit ko Kōtmeni jen kōm̄malmel in rej antooni bwe emarofi jab wōr jekjek im wāwein ko remarofi jelet pelaak in jikin eo/ko. Aolep pirokraam ko rejelet kōm̄malmele kein ketellok ak missile kein rej elmakwōt in kōm̄mani ilo USAKA im iloan malo im meto ko an RMI kin menin rej aikuij loore kakien ko an UES eo. Ekatak eo imaan tata naetan Draft DEP eo ej kelaajrake makitkit ko lem̄nake in kōm̄mani ilo USAKA im iloan malo in RMI.

Kōm̄malmel eo elmakwōte enaaj ilo enen in Illeginni im jelet pelaak eo kenono kake ilo BOA eo ilo mōttan ko iloan malo in Pacific in. Enwōt an lukkuun in wōr ekatak kake ilo Draft EA/OEA ko jimar, innem Navy ej elmakwōt in kōm̄mane wōt juōn kōm̄malmel fian kein ketellok eo aer.

Draft EA/OEA, Ekatak ko jet rej kalikare ke ejjelok wāwein enaaj jelet pelaak ko naetan Draft

Finding of No Significant Impact/Finding of No Significant Harm (FONSI/FONSH) ekoba ekatok eo naetan Draft DEP eo aolepaer rej bellok fian etali ilo www.FE-2-EAOEA.com ekoba ilo jikin kein jet:

(1) Office lobby eo an Republic eo an Marshall Islands Protection Authority eo, Majuro, Marshall Islands

(2) Office lobby eo an Republic eo an Marshall Islands Environmental Protection Authority eo, Ebeye, Marshall Islands

(3) Grace Sherwood Library
P.O. Box 23
Kwajalein, Marshall Islands
APO, A.P. 96555

(4) Roi-Namur Library
P.O. Box 23
Roi-Namur, Marshall Islands
APO, AP 96555

Aolep melele ko jen Public ikiheen Draft EA/OEA eo, Draft FONSI/FONSH eo, im kab Draft DEP eo rej aikuij in drelon tok jino jen August 11, 2019 mae September 12, 2019 im melele kein remarofi in itok ilo jekjek im wāwein kein:

(1) Melele ko litok ilo E-mail ren tōbrak eliktata ilo September 12, 2019 fian Comments@FE-2-EAOEA.com

(2) Melele ko ilo Mail, ren kōkalle ak postmarked enjab rumwij lok jen September 12, 2019, fian jikin in:
USASMD/ARSTRAT
ATTN: SMDC-EN (M. Hubbs)
P.O. Box 1500
Huntsville, AL 35807

EVERYBODY'S WORKING FOR THE WEEKEND

HOURLASS REPORT

Join the community this Labor Day Weekend at Emon Beach for a day of fun in the sun. Enjoy the a la carte beachside menu or race for the shore in a snazzy paper boat in the Cardboard Boat Regatta. For more details and updates, please contact Family and Morale, Welfare and Recreation at 5-3331.

Fun for Everyone!!

Happy
Labor Day
Weekend

Join us for some
Grill'in & Chill'in
at Emon Beach!

Tuesday, September 3rd
1500 - 2000



Labor Day
Tuesday, September 3rd
Emon Lagoon
1600-1800

Register to enter your
cardboard creation
by August 23rd



Event Rules & Registration / MWR 5-3331



Check out the tasty beachside a la
carte menu for Labor Day Weekend!

BBQ Grilled Wings (6)	\$4.00
Beef Hotdogs	\$2.50
Nachos with Cheese	\$3.00
Loaded Nachos	\$5.00
W/Chili, Cheese, Ground Beef, Lettuce, Fresh Salsa, Sour cream, Bacon	
Grilled Sloppy Joe Burger	\$4.00
W/Caramelized Onion and Cheese (Optional)	
Veggie Burgers	\$3.50
Fried Mac N' Cheese Ball	\$2.50
French Fries	\$2.50
Add chili or cheese, \$1 extra	

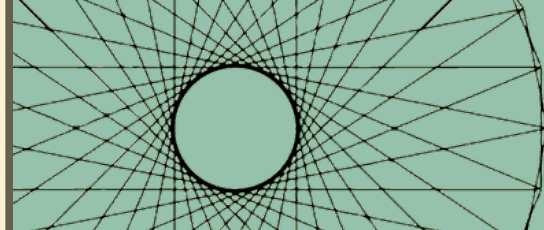
Sweet Corn Slaw	\$2.50
Roasted Corn, Red and Green Bell Peppers, Green Beans Tomatoes and Onions	
Popcorn	\$1.25
Fried Caramel Apple Funnel Cake	\$3.00
w/Caramel Cinnamon Sauce (Made to Order, five-minute wait)	
Pretzel w/ Cheese Sauce	\$2.50
Sodas and Water	\$1.50

LABOR DAY * Emon Beach
Tuesday, September 3
at 3:30 p.m.



Hand on Cart Challenge!!
Last person remaining wins.
Sign up at the library by
Aug. 31.

POC: MWR Library 5-3331



THE RULES OF THE ROAD

BY MIKE BRANTLEY / USAG-KA PUBLIC AFFAIRS

This is Part 3 of a seven-part series. Last week, we discussed everything you need to know about operating a vehicle safely on Kwajalein. This week the focus is on skateboards, roller skates and blades, and wheeled shoes and scooters.

SKATEBOARDS, ROLLER SKATES/BLADES, WHEELED SHOES AND SCOOTERS GENERAL

Individuals using skateboards, roller skates, Roller Blades, wheeled shoes and scooters shall operate these items with due caution so as not to jeopardize the safety of others or themselves.

It is highly encouraged to wear protective pads on your knees and elbows, canvas or leather shoes covering the entire foot, and safety helmets with chinstraps.

PROHIBITED AREAS

Do not bring these forms of transportation inside any retail businesses, schools or clubs.

GOOD TO KNOW

Yield the right-of-way to pedestrians at all times. Operate only in the same direction designated for motor vehicle traffic flow.

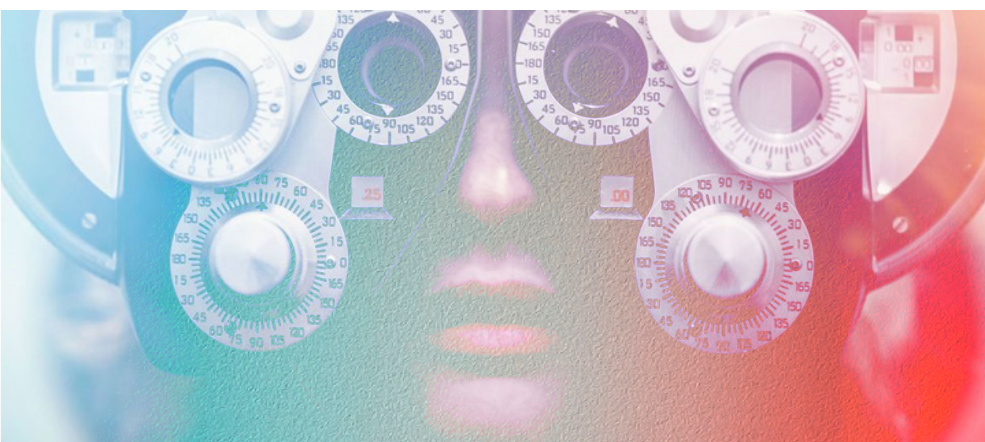
Obey all traffic regulations, including proper lane usage, stop signs, yield signs and one-way signs.

Do not operate these devices on roadways during the period between sunset and sunrise without carrying an operational flashlight or head light.

LABOR DAY FUN
 Join us Sept. 3 for a
 musical chairs style
 scavenger hunt
 at 6 p.m.

30 seats available
 Sign up at the Grace
 Sherwood Library!

POC: MWR Library 5-3331



The Optometrist, Chris Yamamoto, OD
 will be on Kwajalein to see patients
October 11- October 20.

Please call the Kwajalein Hospital
 to schedule the eye exam at 5-2223.
 Payment is required at time of service.

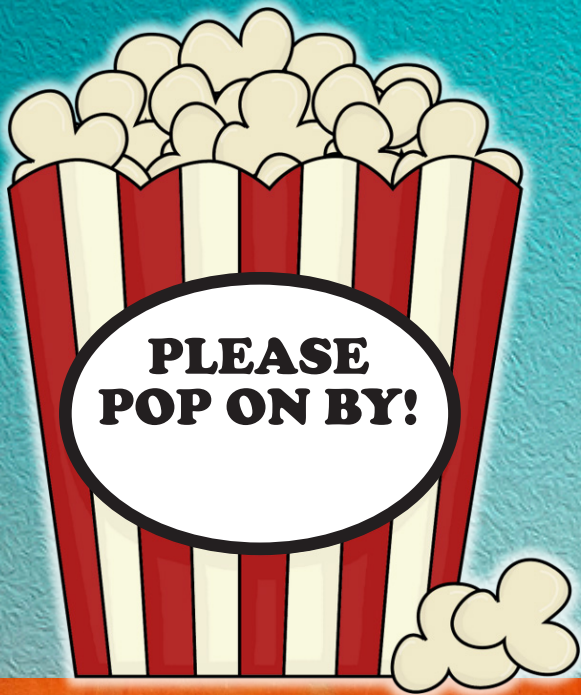


Kwajalein Jr.-Sr. High School Back-To-School Night for Parents and Guardians

**Thursday, September 5
6 - 7:30 p.m.**

We will meet in the MP Room promptly at 6 p.m. Parents will be dismissed from there to visit each of your child's classrooms.

Community organizations and representatives will also be there to provide more information about student opportunities.



Need Housing Repairs?

Call the Service Desk at 5-3550.

After going through the service desk process, if you continue to experience issues, contact us.

Daniel Forsgren, 5-2465
daniel.r.forsgren.ctr@mail.mil

Scott Hill, 5-0133
michael.s.hill86.civ@mail.mil

Derek Miller, 5-2283
derek.d.miller14.civ@mail.mil

We will work with you to resolve your issue.



GET CURRENT.
CLICK THE LOGO TO CATCH THE LATEST
EPISODE OF THE KWAJ CURRENT ON
CHANNEL 29-1.



COMMUNITY NOTICES

HELP WANTED

To research and apply for government employment opportunities on U.S. Army Garrison-Kwajalein Atoll and worldwide, visit usajobs.gov.

RGNext, LLC seeks qualified candidates to fill several open positions on Kwaj and Roi in engineering, technical and other areas. For more information and to apply, go to: www.rgnext.com.

DynCorp International (DI) is looking for qualified candidates to fill various positions. Current DI open positions on USAG-KA include education services, aviation and airfield operations, marine operations and public works among others. For more information and to apply, go to: www.dilogcap.com or contact your local HR representative.

OFFICIAL NOTICES

AA meets weekly on Tuesdays from 6:30-7:30 p.m. upstairs in the REB (Rm. 213).

Ongoing Smoking and Tobacco Cessation offered. Please call EAP at 5-5362 or make an appointment with a physician.

The USAG-KA Notary will be off-island from August 29-September 7.

Housing Preventative Maintenance. Public Works is providing a team from our Operations and Maintenance Department to conduct preventative maintenance for all of the homes on Kwajalein. The residents will have a flyer attached to their door at least 72 hours in advance so

you can coordinate to be at home if you would like to be there. The team will consist of a representative from the electrical, HVAC, plumbing, and construction shops. The homes are also being pressured washed on your scheduled day as well.

Payments for monthly telephone fees are accepted in Bldg. 702 on Kwajalein (Tue. - Sat., 1-5 p.m.), and the Finance Office at the Air Terminal on Roi-Namur during normal business hours. Payments are due the first of every month. For billing questions, please call 5-0843.

Reminder that internet customers can access their account and pay online! Simply visit KwajNetBilling.dyn-intl.com to log in and pay via our secure, online payment gateway using the payment method of your choice. You may also pay online for future months in advance! For support, contact us via phone @ 805-355-0843 (5-0843) or email KwajNet.Billing@dyn-intl.com.

Facility Manager Evacuation Coordinator Training meets on the first and third Wednesday of each month at 10 a.m. in Bldg. 904 in the Fire Station Training Room. Call 5-3364 to sign up. There is a 15-person cap on classes.

COMMUNITY

Fall Family Pool Hours. From August 23 to December 18. Tuesday: 10 a.m. to 12:30 p.m. and 3:30-6 p.m. Wednesday: 10 a.m. to 12:30 p.m. and 3:30-5 p.m. Thursday: Closed for cleaning. Friday: 10 a.m. to 12:30 p.m. and 3:30-5 p.m.

Saturday: 10 a.m.-12:30 p.m. and 3:30-6 p.m. Sunday and Monday: 11 a.m.-6 p.m.

Children's Swimming Lessons at the Family Pool. Session Dates: September 17-28; Level 3, 4, 5: 3:45-4:15 p.m.; Level 1 and 2: 4:30-5 p.m. Cost: \$50 per participant. Participants must be at least 4 years old. Registration open September 3-14. Contact Cliff Pryor at 5-2848 with questions or to register.

Surfway will be open 1-6 p.m. Monday, September 3.

The Grace Sherwood Library will be closed for a deep cleaning on Monday, September 2. Cart Rentals will still be accessible through the side stairs across from the Zamperini Cafeteria.

The Kwajalein School System will be closed Tuesday, September 3 in observance of the Labor Day holiday.

AAFES Hours of Operation for Labor Day Weekend

Monday, September 2
Express 10 a.m.-6 p.m.
PXtra 11 a.m.-4 p.m.
Food Court 8 a.m.-6 p.m.
American Eatery Closed
Roi Express 11 a.m.-3 p.m.

Tuesday, September 3
Express Regular hours
PXtra Regular hours
Food Court 10 a.m.-6 p.m.
American Eatery 10 a.m.-6 p.m.
Roi Express 11 a.m.-3 p.m.

Want to get the word out to the community? Send your messages and announcements to the Kwajalein Hourglass (kwajalein-hourglass@dyn-intl.com) and the AFN roller channel (kwajafn-roller@dyn-intl.com).

RELIGIOUS COMMUNITY NEWS

Catholic Services on Kwaj. Sunday- 9:15 a.m., Main Chapel. Saturday- 5:30 p.m., Small Chapel. Daily Mass (T-F) 5:15 p.m. in the chapel office (except for second and fourth Fridays).

Interdenominational Services on Kwaj, Sunday- 8:15 a.m. Traditional Service, Main Chapel Sunday- 11 a.m. Contemporary Service, Main Chapel.

New Roi services schedule, effective Aug. 1. Catholic service takes place at 6:30 p.m. on the second and fourth Fridays of every month. The interdenominational service takes place at 6:30 p.m. on first and third Fridays of every month.

Prayer Group. We are excited to announce that the chapel will begin hosting times of prayer twice a month. If you are in need of prayer

or you would like to join us as we pray for others, please come! Where: Main Chapel. When: first and third Fridays. Time: 6 p.m.

Christian Women's Fellowship. Come join us for a Cowgirl themed luncheon Sept. 8 at 12:30 p.m. in the REB next to the Chapel. The theme this year is "Understanding Your Spiritual Gifts." Bring a friend! If y'all have any questions, contact Sally Bulla (#5-9804) or the Chapel at (#5-3505).

Women's Bible Study of Acts Part 1 (Jesus' Witnesses, Empowered by His Spirit). Come Study with us: (Starting Sept. 10 or 12). Workbook available for purchase - \$14. Leader Sally Bulla (Phone #5-9804). Tuesday morning 9:15 to 11:15 a.m. and Thursday evening 6:30 to 8:30 p.m. at qtrs. 405-B Taro.

HOURLGLASS IS ON FLICKR

Visit the official Kwajalein Hourglass Flickr page for photos.

CLICK THE LOGO BELOW



MOVIE SCHEDULE

KWAJALEIN

7:30 p.m. at the Yuk Theater
Saturday, August 31
Avengers: Endgame (PG-13)
182 min.

Sunday, September 1
Location: Yuk Theater
On the Basis of Sex (PG-13)
120 min.

Monday, September 2
Rocketman (R)
121 min.

ROI-NAMUR

7:30 p.m. at the Tradewinds Theater

Saturday, August 31
Dark Phoenix (PG-13)
103 min.

Sunday, September 1
A Dog's Journey (PG)
108 min.

ROCK OUT TO AFN LEGACY

AFN KWAJALEIN HAS ADDED "AFN LEGACY," THE CLASSIC ROCK STATION, AT THE 99.9 FREQUENCY AND ON THE AFN ROLLER TV CHANNEL. KWAJALEIN'S "THE WAVE" PROGRAMMING REMAINS AT 99.9. "HOT ADULT CONTEMPORARY," ORIGINALLY AT 99.9 NOW LIVES AT 104.1.

102.1 REMAINS THE FREQUENCY FOR NPR, BUT IN THE WEEKDAY AFTERNOONS WE WILL SWITCH FROM NPR TO A DIFFERENT AFN CHANNEL RECEIVED VIA SATELLITE TO ADD MORE VARIETY ON THIS FREQUENCY. QUESTIONS? SEND AN EMAIL TO JORDAN.VINSON@DYN-INTL.COM.



UXO REMINDER

PUBLIC SAFETY ANNOUNCEMENT

Remember the three Rs of UXO: Recognize an item as possible Unexploded Ordnance. Retreat from the area of the UXO. Report suspected UXO immediately by notifying EOD (5-1433) or CPS (5-4445).

Provide the following information: Location (building #, GPS, landmarks, etc); Size (compared to common items - football, scuba cylinder, etc). Treat UXO like you would treat dangerous sea creatures. Look but do not touch. For a detailed refresher, please attend the Island Orientation Briefing on the fourth Wednesday of every month.

Kemejmej R ko 3. Recognize (kile) juon kwopej bajjok emaron Bokutan ak kein kabokkolok (UXO). Retreat (Jenliklik) bed ettolok im jab kepaak UXO eo. Report (Ripoot e) bokitun ak kein kabokklok eo ien eo emokajitata non EOD ilo nomba kein (5-1433) ak CPS (5-4445).

Ken melele kein: Ia eo (nomba in ijo, GPS, kakolle in ijo, etc.); Jonan (jonan e ibben jet kain mweik - football, taan in turan, etc.). Tiljek kon UXO kein einwot am kojparok menin mour in lojet ko rekauwotata. Kalimjek wot jab jibwe. Non bar kakemejmej eok, eokwe jouj im koba lok ilo Island Orientation allon otemjej.

Report Suspicious Activity or Behavior

iWATCH ARMY

iREPORT

i KEEP US SAFE

See Something Say Something

Your Actions Can Save Lives

WHO TO REPORT TO

Local law enforcement and security

* 911

*5-4445/4443

*usarmy.bucholz.311-sgcmd.mbx.usag-pmo@mail

REPORTING SUSPICIOUS ACTIVITY

- Date and time activity occurred
- Where and what type of activity occurred
- Physical description of the people involved
- Description of modes of transportation
- Describe what you saw or heard
- Provide pictures if you took any