

VOLUME 53 NUMBER 24

JUNE 16, 2012

THE KWAJALEIN HOURGLASS



Four new ferries
arrive on island
Wednesday. For
more, see page 6.

Photo by Catherine Layton

INTERMARINE



*Lieutenant General Richard P. Formica
Commanding General
United States Army Space and Missile Defense Command/
Army Forces Strategic Command*

*requests the honor of your presence
at the United States Army Kwajalein Atoll
Change of Command Ceremony*

*from Colonel Joseph N. Gaines
to Colonel Shannon L. Boehm*

*Wednesday, the twenty-seventh of June
at ten o'clock in the morning*

Fixed wing hanger

*Military: Duty Uniform
Civilian: Business Casual*

Reception Immediately Following

MANIT MINUTE

Like many other cultures, Marshallese use proverbs as a way of instructing or imparting knowledge on society based on their experiences, values, and beliefs. In doing so, Marshallese use what is termed as "Jabonkonnaan" which literally means "edge of talking." Here is a Marshallese jabonkonnaan: "Eo ellu eluuj" which translates to "He who loses his temper loses."



THE RUMOR MILL

Col. Joseph Gaines addresses circulating rumors head-on. Rumors can earn from one to five ears. One ear is an unfounded rumor, while a rumor earning five ears is the truth.

Rumor: The new ferries will not support passengers carrying luggage to Ebeye when arriving on United or AMI flights.. False, USAKA is currently reviewing the possibility of transporting luggage for passengers headed to Ebeye. The new ferries have a maximum weight limit, which is based on the amount of passengers the vessel can safely handle during transit services. In order to stay within this weight limit, we will have to adjust the number of passengers when adding additional luggage. More information will be provided when we have completed our review on this matter.



Thumbs Up!

... to the Orbital Sciences team and NASA for hosting the open house on the L-1011 launch vehicle.
... to the Marine Department for coordinating access onboard the Patriot vessel, and to the captain, Tracy Hampson and crew members Nate Rabideau and Jeff Hensley for their efforts.

Thumbs Down!

... to the families who left water balloon pieces all over Emon Beach and the big pavilion. Not only is the litter ugly, it is bad for the environment and the sea life we all enjoy. Clean up after yourselves!

THE KWAJALEIN HOURGLASS

The Kwajalein Hourglass is named for the insignia of the U.S. Army 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 Kwajalein Atoll. Contents of the Hourglass are not necessarily official views of, or endorsed by, the U.S. Govern-

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NuSTAR brings things into focus

Article by Catherine Layton
Associate editor

There is no better time in a technophile's life than when a gadget comes out to replace an obsolete item in their cache of electronics. Imagine the delight, then, to those involved with the Nuclear Spectroscopic Telescope Array program. NuSTAR is a spacecraft that consists of two co-aligned grazing incidence telescopes with specially coated optics and newly developed detectors that will deploy the first focusing telescopes to image the sky in the high energy X-ray region of the electromagnetic spectrum. Previously, the view of the universe in this field was limited, since previous telescopes used coded apertures that have high backgrounds and limited sensitivity. The Orbital Sciences L-1011 carrier aircraft and their Pegasus XL rocket arrived on Kwajalein June 6 with the NuSTAR spacecraft onboard.

Garrett Skrobot is the NuSTAR mission manager for the launch services program at NASA. "We are here to launch NuSTAR for the science mission directorate. NuSTAR will be looking at black holes and trying to determine the origin of the universe," he explains. Kwajalein is an ideal launch site according to Skrobot, since "We have a full launch team here. Our idea is that we have all the key decision makers here on the island, so we have all the communications,

all the telemetry, everything is right here to make a decision, go or no go, without having to go back to where the other folks are located."

The mission operations center at Berkeley will be in constant communication as well, ensuring they are up and running before NuSTAR is dropped from the Orbital plane because they are the ones that will be receiving the data. "The first seven days are the most crucial part of the mission," said Skrobot. During that critical time, initial data is gathered and solar panels are deployed that will keep gathering power, keeping the craft operational. There is no extra propellant onboard.

"After the seven days, a ten meter mast will separate and come out from the back bus. That is the optical center. That's where the collection of the hard x-ray will come in and it's focused out to the detectors on the observatory base. That's when you have a mission and then there is two years to start collecting and doing observations on certain areas. Two to three years is the expected life cycle of the mission to collect data. That's what is budgeted; after that it gets decommissioned," said Skrobot. The vehicle will come back down and burn up in the atmosphere.

According to the NuSTAR website, during the two year primary mission phase, NuSTAR will map selected regions of the sky in order to take a census of collapsed stars and black holes of different sizes,



Photo by Wendy Peacock

Flight engineer Bob Taylor gives a brief overview of the L-1011 Orbital Sciences aircraft, the launch vehicle that carries the NuSTAR to residents on Tuesday.

map recently synthesized material in young supernova remnants to understand how stars explode and how elements are created; and understand what powers relativistic jets of particles from the most extreme active galaxies hosting black holes. Additionally, it will offer opportunities for a broad range of science investigations, ranging from probing cosmic ray origins to studying the extreme physics around collapsed stars to mapping microflares on the surface of the sun.

The NuSTAR project is led by the California Institute of Technology and is managed by NASA's Jet Propulsion Laboratory for NASA's Science Mission Directorate. NuSTAR's one way trip began Thursday, with the successful launch Thursday morning from the launch vehicle Orbital.



Photo by Kenny Davis

237TH ARMY BIRTHDAY



America's Army: the Strength of the Nation

By Catherine Layton
Associate editor

U.S. Army Kwajalein Atoll and Reagan test site joined other Space and Missile Defense Command/Army Forces Strategic Command installations worldwide via teleconference to celebrate the U.S. Army's 237th birthday.

Lieutenant General Richard P. Formica, Commanding General of SMDC/ARSTRAT, addressed the worldwide audience, saying, "We thank every Soldier, civilian and Family member who's served, for your dedication to duty and the selfless service that have made us all Army Strong."

Army civilians then received SMDC/ARSTRAT lapel pins, to illustrate their affiliation and support of their command. USAKA/RTS Commander Col. Joseph Gaines pinned USAKA's senior civilian and Deputy Commander, Joseph Moscone, who then pinned Acting PAO officer Mike Sakaio and Stephanie Los of RTS, who represented the USAKA workforce.

With formalities completed, the cake cutting began. Traditionally, the birthday cake is cut by the oldest and youngest Soldiers on the installation. Although both disputed their positions in the tradition, the cake was cut, by sabre, by Gaines and Sgt. Jeffrey Satterwhite.

Photos by Eva Seelye



Top: Deputy Mission Commander Joseph Moscone accepts his SMDC/ARSTRAT lapel pin from USAKA/RTS Commander Joseph Gaines. **Center:** Soldiers, civilians and Family members attended the Army's 237th birthday Wednesday. **Inset:** The Protocol officer, Charlie Harjo, provided the impressive birthday cake for Wednesday's celebration.

School's Out Pool's In Party



School age children celebrated the end of the school year under the watchful eye of the lifeguards at a "School's Out, Pool's In" party. Swanby Snow provided snowcones for purchase while Mark Houseman rocked the pool with his disc jockey skills.

Photos by Mandie Morris
Graphic design by Wendy Peacock

BOY SCOUT AWARDS



Photos by Eva Seelye
Graphic design by Wendy Peacock

Boy Scouts gathered at the Corlett Recreation Center, room 6, to award Scouts with merit badges, and to promote those Scouts moving on to the next level of Scouting.

Ferries arrive for smoother tr

Story and photos by Catherine Layton
Associate editor

There are a few new rides in the waters of Kwajalein lagoon, and they have come a long way. Four brand new ferries arrived Wednesday. The boats will replace the current ferries that make multiple daily runs back and forth from Kwajalein to Ebeye and from Roi-Namur to Enniburr.

The new vessels will provide for a safer and more comfortable ride. The old LCMs were built to be robust military platforms, and although they have served the islands well for many years, they were not engineered for civilian use. "The new boats have a fire extinguishing system, and they're built with collision bulkheads up forward so that if you hit something all the way forward, there's a bulkhead where you can receive damage," explained Rob Chadwell, Port Captain. "Also, the new boats meet very stringent seating and space requirements; so many inches are designated per person and distances between the front and the back seats; so it's a lot of little things like that."

The boats have a capacity to carry

150 people, compared to the 130 the LCMs could transit. Additionally, "They were designed to meet the same schedule at the same speed," said Chadwell. "The bench seats should be more comfortable and there should be a little bit more protection. You won't have to worry about the rain leaking through the tarps any longer," he said.

Natural ventilation was a priority in the design of the vessels. Not only was it a huge cost savings over having air conditioning, it will improve the upkeep of the boats as well. "We would have had to add generators to be able to power the air conditioning from the inside, and we wanted the inside to be very open. That number of people riding, many who work outside, we wanted a lot of fresh air to be flowing through," said Chadwell.

According to the specifications, the monohull boats are 75 feet in length, constructed of welded Corten steel with aluminum superstructure. They are powered by twin Detroit Series 60 diesel engines, rated at 475 horsepower at 1,800 rpm. The fire and bilge pumps will be Power Take-Off driven off

both mains, and the steering will be operated by a cable-type steering system. Both systems reduced the need for generators, and will require minimum maintenance. Another feature incorporated in the design was 1,000 gallon internal water tanks, so water can be pumped on the ferries.

Two of the old LCMs will eventually be disposed from USAKA inventory. Two will be kept for recurring cargo runs. They have working ramps that make for more convenient off-loading.

A large cargo ship, the *Ocean Freedom*, shipped the vessels from Blount Boats, Inc., located in Warren, R.I. Once that ship was at anchor in the lagoon, work began to get the vessels safely in the water. The marine department's weld shop, stevedores, the tug *Mystic* and the vessel *Patriot*, along with KRS safety personnel all supported the effort. Each ferry was lifted by cranes, and gingerly placed in the water. The *Mystic* pulled them in, one at a time, and towed them into the harbor. Crews will undergo training on the boats before they will be put in service.



Photo by Lt. Col. Christopher Mills

USAKA/RTS Commander Col. Joseph Gaines ascends the Jacob's ladder to go aboard the cargo ship *Ocean Freedom*.



Patriot crewmembers Jeff Hensley, left, and Nate Rabideau retrieve some remnant materials left floating after the first ferry was launched.

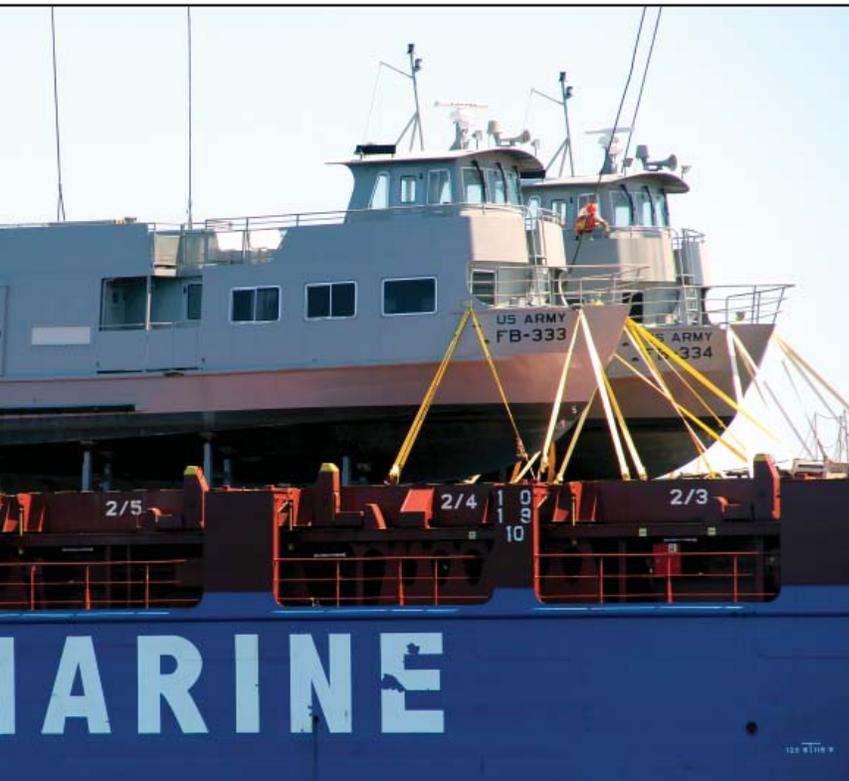


Two of the four ferries sit atop the

Transit to Ebeye and Ennubirr



Splashdown! The first of the four ferries was delicately placed in the water, where it was met by the tug *Mystic* for the escort into the harbor.

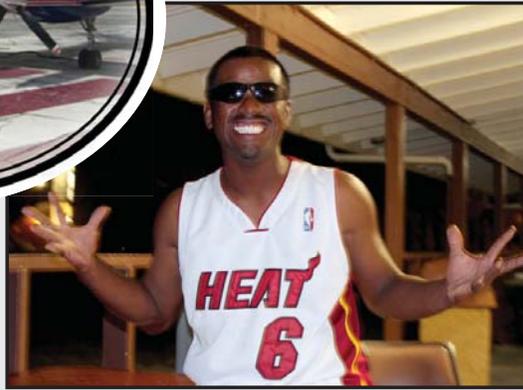


Deck of the cargo ship *Ocean Freedom*, awaiting delivery to Kwajalein.



Numerous KRS marine department employees, along with some crewmembers from the cargo ship, prepared the ferry for the lift.

DISPATCH FROM ROI



From Casey Kibin



From Lavinda Tyson



From Keith Peacock



From Keith Peacock



From Wendy Peacock



From Wendy Peacock



View from Kwaj

Submit your own photo! E-mail it to hourglass@smdck.smdc.army.mil.



From Eva Seelye



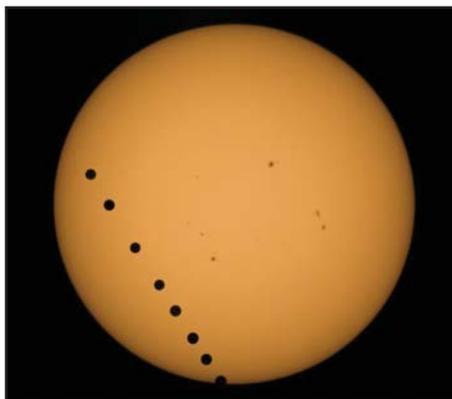
From Eva Seelye



From Bob Carter



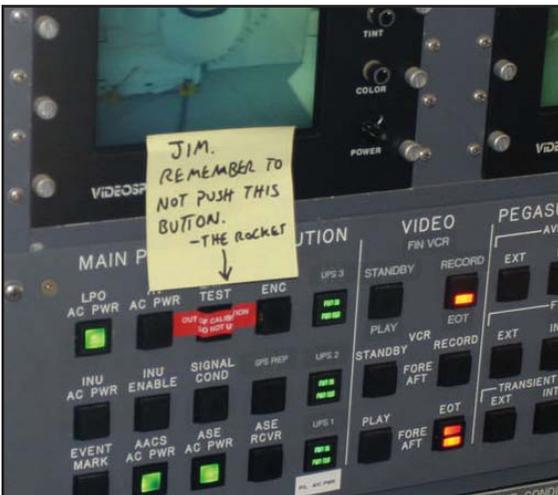
From Linn Ezell



From Joshua Griffin



From Wendy Peacock



From Wendy Peacock



From Eva Seelye

KRS AND CMSI job listings for on-island positions will be available at the Kwajalein, Roi-Namur and Ebeye Dock Security Check Point bulletin boards, the bulletin board by the Continental Travel Office, the Roi-Namur Terminal/Post Office bulletin board and at Human Resources in Building 700. Job listings for contract positions will be available at www.krsjv.com, on the bulletin board by the Continental Travel Office and on the Roi-Namur Terminal/Post Office bulletin board. Full job descriptions and requirements for contract openings are located online at www.krsjv.com.

KRS employment applications are continually accepted for casual positions in the community services departments, medical department and the HR temp pool. Some of the casual positions are recreation aid, medical office, substitute teacher and HR temp pool office support. Questions, call 54916.

TELLER AT COMMUNITY BANK. Part time, 30 hours. Job description: Process transactions accurately and efficiently, provide basic teller services. To apply, go to website <http://careers.dodcommunitybank.com>.

LOST

Oakley Sunglasses, black with yellow strip.

Religious Services

Catholic

5:30 p.m., Saturday, Small Chapel
9:15 a.m., Sunday, Island Memorial Chapel

Protestant

8 a.m., Sunday, Traditional Service, Island Memorial Chapel
9:30 a.m., Sunday School, all ages welcome
11 a.m., Sunday, Contemporary Service, Island Memorial Chapel
Roi-Namur service at 7 p.m., Friday

Latter-day Saints

10 a.m., Sunday, CRC Room 3

Jewish

Second Friday of the month in the REB. Times will vary. Contact the chaplain's office at 53505 for more information.

Lost on May 31, from the boat shacks to north point along the western side of the island. Call 51314.

WANTED

ONE USED bike. Call Dennis at 50907.

TWO USED bikes for purchase. Call 51455.

ONE SMALL trailer capable of transporting a nine foot dinghy. Call 52547.

ONE WIDE beginner windsurfer board to share or buy. Contact 52547.

FOR SALE

LA-Z-BOY RECLINER, light brown color, great condition for \$100. Call Christie at 50741 or 59283.

COSTA DEL MAR Yellowtail sunglasses, polarized, tortoise/grey, 400-P, brand new just not the right fit, \$90. Contact Cheryle at 51314.

EPSON PRINTER CARTRIDGES T078 series six pack, 5 color, 1 black, brand new, still in packaging. Purchased wrong product. \$65. 59154.

WILSON JR. PROSTAFF GOLF CLUBS for elementary age children, one right hand set with six clubs, \$50; one left hand set with four clubs, includes head covers and carry bag, almost new condition, \$40. Call Jon at 54309.

BATHROOM SCALE with large rotating dial, brand new, still in box, unopened, ordered two by mistake, \$20. Call 52319.

BRAND NEW ROLL OF SUNBRELLA FABRIC, 60" X 25 yards, great for sail covers, awnings, etc., burgundy, \$350. Contact Tim at 54228.

PCS SALE, DIVING FINN, \$100; boots, never worn, \$30; grill with two tanks, works great, \$50. Call 51394.

TUBE TV, 29 inch, \$50; George Foreman grill, \$10 and Oreck vacuum cleaner, \$10. Call 52308.

COMMUNITY NOTICES

BINGO will be played Thursday at the Pacific Club. Card sales begin at 5:30 p.m.; Bingo begins at 6:30 p.m. Blackout completion at 55 numbers: \$1,500 payout; Windfall completion at 28 numbers: \$1,800 payout,

Must be 21 to enter and play, bring your ID. Come out and have some fun with us. Questions, contact Darren Moore at 55599 or Ted Glynn at 53338.

THE OPTOMETRIST, Dr. Chris Yamamoto, will be on Kwajalein until Thursday. Call the hospital for an appointment at 52223 or 52224 for eye exams, or ES&H at 58855 for prescription safety glasses.

KAISC is sponsoring the "Aloha-Fun" Fishing Derby, June 24. Information and registration forms available at Kwajalein Small Boat Marina or by request. Contact Trudy at 55987 for more information.

POTTERY TEAR-BOWL CLASS, June 27, 6-8 p.m., at the hobby shop. The cost is \$25. You must come to the hobby shop to sign up and pay to reserve your place in the class.

OCEAN VIEW CLUB Birthday Bash will be at 8 p.m., June 30. Sign up at the KRS Retail Sales office by June 28. You must be 21 years old; bring your K-badge. Complimentary drinks and cake for registered June birthdays. Contact Ted Glynn at 53338 with questions.

IT'S COCONUT RACE TIME! Join us for the annual Coconut Race on Roi-Namur. Bring your engineering skills and your imagination to transform a coconut into a sailboat. The race will take place on July 8 at the Surf Shack. All proceeds will benefit En-nubirr Children's Christmas Fund. For rules and regulations, contact Laura Pasquarella-Swain at 56580.

DUE TO MISSION REQUIREMENTS, all available billeting space (Kwaj Lodge and Jabro) have been committed to support the expected influx of TDY personnel. The Housing Office is unable to accept any lodging requests from July 1 until Oct. 31.

REMINDER: EMERGENCY MEDICAL SERVICES are available even when the clinic is closed on payday Fridays.

THE MARSHALLESE Cultural Center is in need of people to open the center for visitors and helpers to keep our plant nursery in good health. If you have a couple of hours a month to spare and would like to help, call Karen at 54259.

THE YOKWE YUK Woman's club needs your help! We would like your creative style

Café Pacific

Lunch

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	June 23
Carved London Broil	Herb Chicken Breast	BBQ Pork Butt	Beef Stew	Sliced Roast Beef	Chicken Nuggets	Meat Lasagna
Crab Benedict	Quiche Lorraine	Tuna Casserole	Chef's Choice Entree	Buffalo Wings	Fish Du Jour	Spinach Mushroom
Ham Marco Polo	White Rice	Steamed Potato	Assorted Breads	Mashed Potatoes	Chef's Choice Vegetables	Alfredo Lasagna

Dinner

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	June 23
Spaghetti	Salad Dujour	Roast Turkey	Roast Top Round	Kwaj Fried Chicken	Grilled Pork Chop	Meatloaf
Eggplant Parmesan	Swedish Meatballs	Chef's Choice Entree	Roast Chicken	Beef Broccoli	Turkey Cordon Bleu	Macaroni and Cheese
White Rice	Parsley Noodles	Mashed Potatoes	Baked Potato	Stir-fry	Lyonnais Potatoes	Peas and Carrots

CAUTION

Roi-Namur Fuel Pier construction and ciguatera

- Construction operations necessary to replace the Roi-Namur Fuel/Supply Pier are scheduled to begin on Tuesday and continue for several months.
- All residents should avoid fishing and fish consumption in the areas affected by work (especially the lagoon around Roi-Namur).
- The dinoflagellate, *Gambierdiscus toxicus*, is known to exist in sediment material in subtropical and tropical waters, and the disturbance of bottom sediments could intensify the potential for ciguatera contamination.
- The public will be notified when construction commences and fishing restrictions are lifted.
- Questions or concerns, call Anne Robinson with San Juan Construction at 56678.

- Enaj jejet kitien operation in jermal eo aikuuj koman ilo Supply/Fuel Pier jino jen June 5, 2012 im maanlok.
- Aolep armij elaptata ro im rej jokwe Roi ren wor aer ekkol ikijen enod ijin enaj jelet operation in ie.
- Dinoflagellate, *Gambierdiscu toxicus* rej jet ian men kauwatata ko im rej walok jen kobej ak lim in lojet in jej bed ie im ejjab emon mona jen e.
- Jenaj bar kojellaik public (aolep) kin juon bunton eo im jenaj koman "MO" in enod itok wot jen operation in mae ien eo alikar jabrewot.
- Kajitok im melele ko rellaplok, kiir Anne Robinson ilo San Juan Construction 56678.

Military Casualties

Master Chief Petty Officer Richard J. Kessler Jr., 47, of Gulfport, Fla., was found deceased in his berthing compartment June 8 on board USS Enterprise (CVN 65). He was assigned to Enterprise as a logistics specialist. Enterprise is currently deployed to the Fifth Fleet area of responsibility conducting operations in support of Operation Enduring Freedom.

Pfc. Brandon D. Goodine, 20, of Luthersville, Ga., died June 7 in Maiwand, Afghanistan, of wounds sustained when enemy forces attacked his unit with an improvised explosive device. He was assigned to the 4th Squadron, 73rd Cavalry Regiment, 4th Brigade Combat Team, 82nd Airborne Division, Fort Bragg, N.C.

Cpl. Anthony R. Servin, 22, of Moreno Valley, Calif., died June 8 while conducting combat operations in Helmand province, Afghanistan. He was assigned to 2nd Battalion,

5th Marine Regiment, 1st Marine Division, I Marine Expeditionary Force, Camp Pendleton, Calif.

Capt. Scott P. Pace, 33, of Brawley, Calif., and **1st Lt. Mathew G. Fazzari**, 25, of Walla Walla, Wash., died June 6, in Qarah Bagh, Afghanistan, of wounds suffered when their helicopter crashed. They were assigned to the 1st Squadron, 17th Cavalry Regiment, 82nd Combat Aviation Brigade, 82nd Airborne Division, Fort Bragg, N.C.

Pfc. Vincent J. Ellis, 22, of Tokyo, Japan, died June 4, in Landstuhl, Germany, from wounds suffered June 1, on Forward Operating Base Salerno, Afghanistan, when enemy forces attacked his unit with improvised explosive devices and small arms fire. He was assigned to the 1st Squadron, 40th Cavalry Regiment, 4th Airborne Brigade Combat Team, 25th Infantry Division, Joint Base Elmendorf-Richardson, Alaska.



Hold ON!

Don't forget to notify the **post office** when you leave island by filling out a **vacation slip, form PS3801**. Mail will only be held for **30 days** without notification. You can find the forms in the **post office lobby**.

to inspire and raise money for the Marshallese community. We need baskets filled with assorted gifts for a basket auction to be held in October. While you are off island, it would be great if you could look for a basket to be auctioned.

DISPOSE OF ALL GARBAGE IN the proper

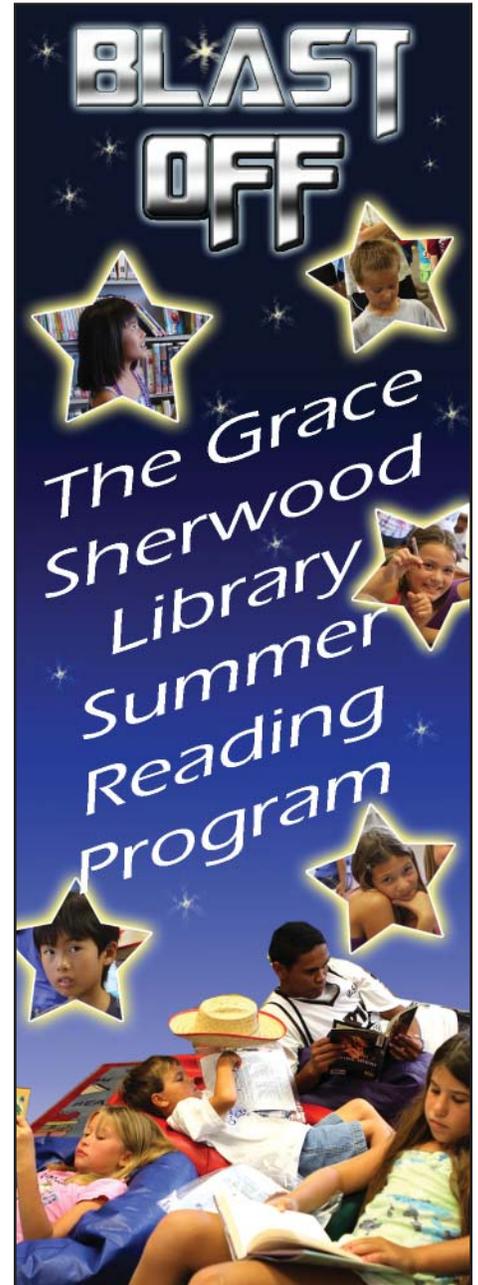
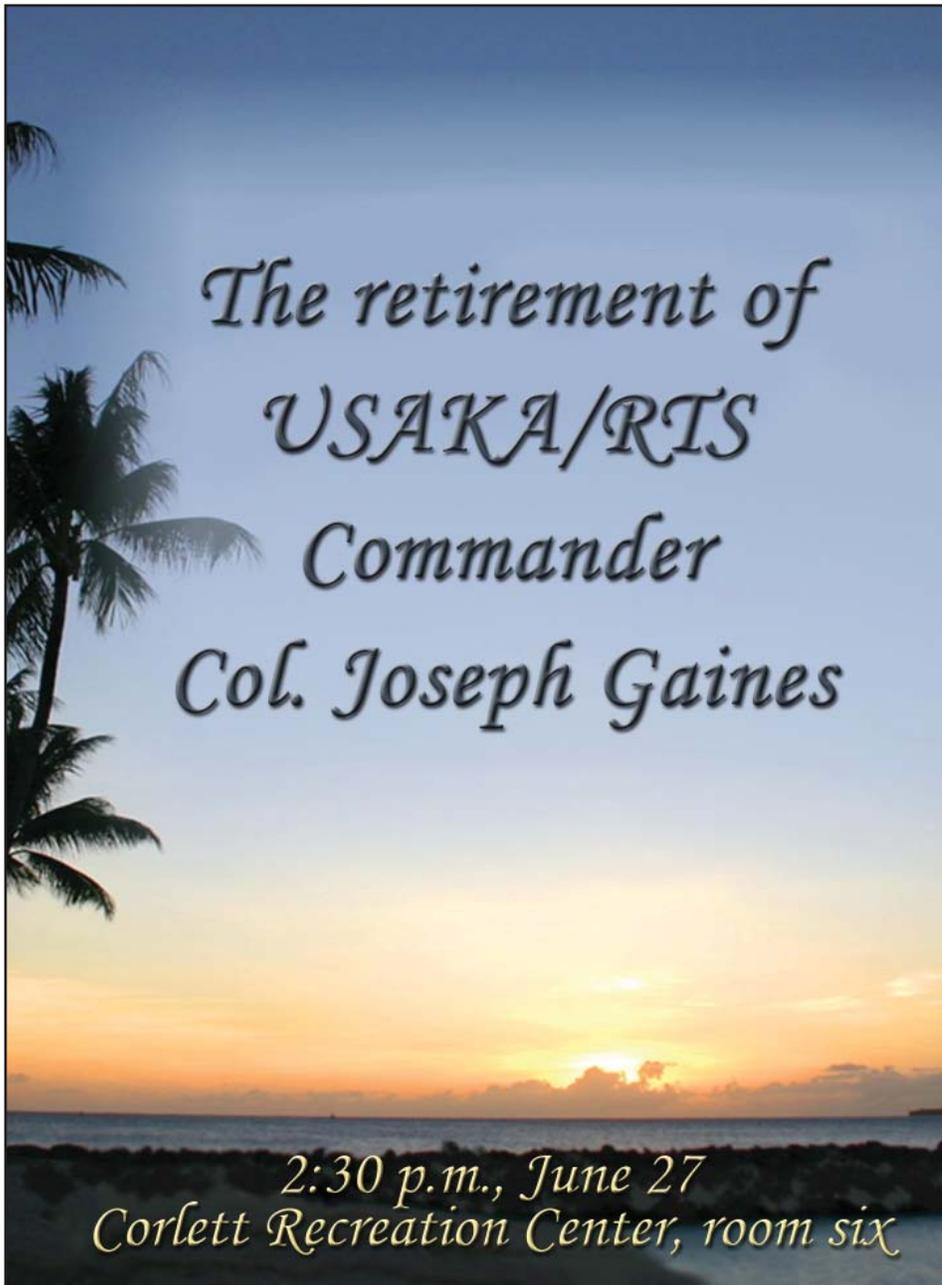
receptacles. Placing rubbish outside of the containers attracts pests and is a safety hazard.

E-TALK. Remember: There are specific environmental requirements for controlling asbestos emissions and properly disposing of asbestos-containing waste material. Con-

tact ES&H at 51134 or refer to SPI 1510 for more information.

SUMMER SAFETY. Even though you are taking some time off from work, remember not to take time off from safety. Before leaving for vacation, make sure your home is secured.

<i>Café Roi</i>						
Lunch						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	June 23
Grilled Sirloin Steak	Braised Steak	Beef Pasticcio	Tuna Melt Sandwiches	Huli Huli Chicken	Beef and Fish Tacos	Chicken Sandwiches
Leg of Lamb	Pesto Glazed Chicken	Spinach and Feta Pie	Salisbury Steak	Roasted Potatoes	Refried Beans	Pork Chops
Vegetable Medley	Quiche Florentine	Roast Potatoes	Mashed Potatoes	Vegetable of the Day	Mexican Zucchini	Mashed Potatoes
Dinner						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	June 23
Shoyu Chicken	Chicken Dumplings	Pulled Pork	Roast Steamship	Roi Fried Chicken	Smoked Beef Brisket	Carved Roast
Kailua Pork	Brisket	Cornmeal Catfish	Honey Glazed Chicken	Beef Stroganoff	Herb Chicken	Grilled Pollock
Noodle Sautée	Au Gratin Potatoes	Red Beans and Rice	Baked Potatoes	Parsley Noodles	Mashed Potatoes	Mushroom Risotto



Weather

Courtesy of RTS Weather

Sunday: Partly sunny, 10 percent showers. Winds: ENE-E at 10 – 15 knots
 Monday: Mostly cloudy, 20 percent showers. Winds: ENE-E at 10 – 15 knots
 Tuesday: Mostly cloudy, 20 percent showers. Winds: ENE-E at 11 – 16 knots
 Wednesday: Partly sunny, 10 percent showers. Winds: ENE-E at 10 – 15 knots
 Thursday: Partly sunny, 10 percent showers. Winds: ENE-E at 9 – 14 knots
 Friday: Mostly sunny, <10 percent showers. Winds: ENE-E at 9 – 14 knots
 June 23: Mostly sunny, <10 percent showers. Winds: ENE-E at 9 – 14 knots

Yearly total: 24.64 inches
 Yearly deviation: -2.46 inches

Call 54700 for updates forecasts or visit www.rts-wx.com.

	Sunrise/set	Moonrise/set	High Tide	Low Tide
Sunday	6:31 a.m./7:09 p.m.	4:19 a.m./5:09 a.m.	2:50 a.m., 3.8' 3:11 p.m., 3.0'	9:18 a.m., 0.2' 9:01 p.m., 0.2'
Monday	6:31 a.m./7:09 p.m.	5:06 a.m./5:58 p.m.	3:25 a.m., 4.0' 3:48 p.m., 3.1'	9:53 a.m., -0.1' 9:37 p.m., 0.0'
Tuesday	6:31 a.m./7:09 p.m.	5:55 a.m./6:48 p.m.	3:59 a.m., 4.3' 4:22 p.m., 3.3'	10:26 a.m., -0.3' 10:11 p.m., -0.1'
Wednesday	6:32 a.m./7:10 p.m.	6:45 a.m./7:37 p.m.	4:32 a.m., 4.4' 4:55 p.m., 3.4'	10:58 a.m., -0.4' 10:44 p.m., -0.2'
Thursday	6:32 a.m./7:10 p.m.	7:36 a.m./8:24 p.m.	5:04 a.m., 4.5' 5:28 p.m., 3.4'	11:30 a.m., -0.4' 11:17 p.m., -0.2'
Friday	6:32 a.m./7:10 p.m.	8:27 a.m./9:11 p.m.	5:37 a.m., 4.5' 6:01 p.m., 3.4'	12:02 p.m., -0.4' 11:51 p.m., -0.1'
June 23	6:32 a.m./7:10 p.m.	9:17 a.m./9:56 p.m.	6:10 a.m., 4.4' 6:36 p.m., 3.4'	12:36 a.m., -0.3'