

THE KWAJALEIN HOURGLASS



The U.S. Army vessel KMRSS *Worthy* at its berth at Kwajalein. The *Worthy* is an invaluable asset to the mission at Reagan Test Site, Pacific Missile Range in Hawaii and more. The vessel is deployed more than six months out of the year supporting various missions. It has been in service at Kwajalein since 1996.

For more, see Page 4.

Photo by Dan Adler.

To submit a letter to the editor: Keep letters to less than 300 words, and keep comments to the issues. No personal attacks will be printed. Letters must be signed. However, names will be withheld if requested. We will edit for Associated Press style, grammar and punctuation and if you exceed the word limit, it will be edited for space. Limit one letter every 30 days. Send your letter to: *The Hourglass*, P.O. Box 23, APO AP 96555; or hourglass@smdck.smdc.army.mil.

What's the news?

Do you have news you would like to share about your club, private organization or work department? Do you have an interesting story and photos of a vacation trip? How about a scuba dive with great photos you took? Have you got a good fish story? The Hourglass welcomes submissions of news articles written by members of the community. You can submit articles to the USAKA Public Affairs Officer, Vanessa Peeden, at vanessa.peeden@smdck.smdc.army.mil

THUMBS UP

To Kim Scruton-Yarnes for all of her creativity and hard work to make island life more exciting and fun. You rock Kim!

To Jason Kettenhofen, CYS Sports and Fitness Director. He was able to recruit enough coaches so all participants could play. His compassion and leadership skills were evident during every game, as he trained his players without making them angry or frustrated. His demeanor and deliver of games rules is to be commended. Thank you for having such a dedicated and committed individual here for the families on Kwaj.

For the volunteers who helped make *Star Wars* Night a galactic success!

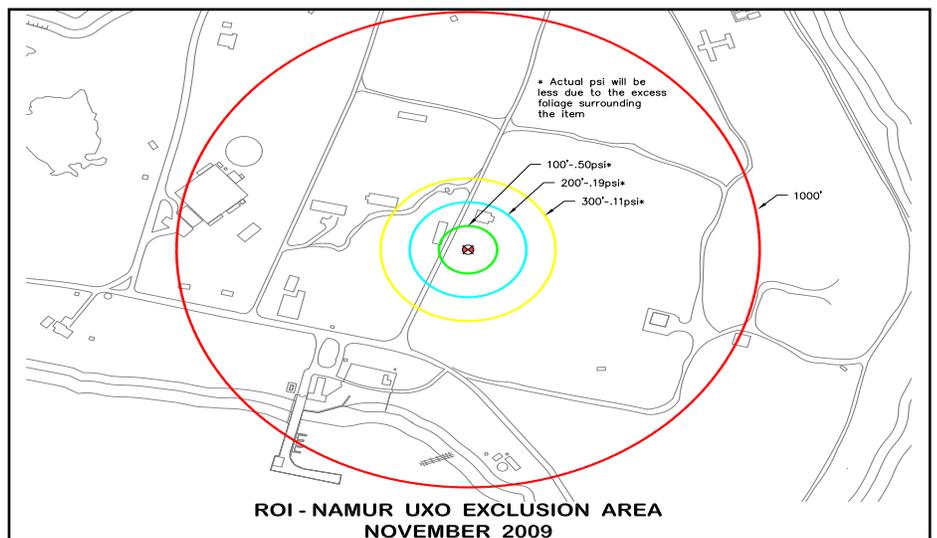


THUMBS DOWN

To the person(s) responsible for breaking a young artist's beautiful sculptures at the Hobby Shop before being fired and then at the Craft Fair. It was rude and mean. Accidents happen, but you should own up to your mistake and not just walk away.

EOD / Bomb Disposal personnel will be conducting a special disposal operation 8:30-11 a.m., Nov. 19, on Roi-Namur. EOD / bomb disposal personnel will be destroying hazardous UXO recently found on the Island.

A safety exclusion area will be manned by KPD and will be off limits to all unauthorized personnel throughout the operation, until completion. Alternate dates and times will be published if required. Questions regarding this operation should be directed to the EOD / Bomb Disposal office, attention: Brian Bussey at 51433.



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

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U.S. Ambassador to Republic of Marshall Islands visits Kwajalein

By Dan Adler
Media Services Manager

Kwajalein was graced by a visit this past week from the Honorable Martha Campbell, U.S. Ambassador to the Republic of the Marshall Islands.

The ambassador's visit was two-fold. She met with Kwajalein Atoll Senators and was the guest speaker at the Veterans Day observance on Wednesday.

Campbell has been a career diplomat with the Department of State's Foreign Service for 29 years. She has served at U.S. Embassies in The Hague, Stockholm, Budapest and Rotterdam among others. Her husband, Arnold, is also a career diplomat with the Foreign Service.

The ambassador is no stranger to the Marshall Islands. She opened the first office of the U.S. Representative on Majuro in 1987 shortly after the signing of the Compact of Free Association between the U.S. and the RMI. Her husband was the Deputy Chief of Mission among the many other duties he performed.

"It was an exciting time to be here because the Compact of Free Association was a new way of doing things and solving many problems," said Campbell.

In answer to a question concerning her impressions of the Marshall Islands on this second tour, she said, "It's fascinating. I'm trying to remember Majuro 20 years ago. I lived there for two years. I was on Kwajalein four or five times back then and I'm trying to figure out where everything was because it looks so different. There were a lot more Americans on this island then. But many things about it are the same of course."

The ambassador visited Ebeye on Thursday and toured various facilities including the hospital, schools and housing. She said the modern infrastructure of the hospital impressed her.

"The RMI has obviously put a lot of emphasis on the health of the people of Ebeye," she said. "The progress and commitment to the

people are incredible."

Campbell said that since her tour in 1987, the RMI has made progress in many of their needs such as education and health and that she expects the improvements to continue.

Concerning the U.S. and the RMI, the ambassador said, "It's a very strong relationship. We have some very important things in common. They share many of the same goals we do and have a vision of where they want to go."

Campbell said that even though the U.S. and RMI disagree on some issues, she believes there is a great amount of trust and she expects the two nations will continue to work well together.

Concerning the recent change in RMI Presidents by the Nitijela, the ambassador said, "It was constitutional and it was peaceful. I was there for two of the meetings in the Nitijela, including the one in which they elected the president, and it was friendly with congratulations all around. It was a good exercise in their constitutional government. It was a very close vote, 17-15. And it was a very festive occasion at the inauguration."

The RMI has a parliamentary form of government much like Great Britain. Members of Parliament, or in this case the Nitijela, can hold a vote of 'no confidence' if they feel the current President or in Britain's case, Prime Minister, is not doing a good job in the post. The former RMI President is still a Senator and a member of the RMI government.

"One of my priorities is prosperity in areas such as tax reform, business incentives and tourism," Campbell said. "They have land use rules and customs that make it difficult to attract and help entrepreneurs and they also keep foreign investors from feeling



Martha Campbell, U.S. Ambassador to the Republic of the Marshall Islands

confident about investment in the Marshall Islands. There are a lot of opportunities for tourism here, but many things make it difficult to bring a tourism industry and to make it something that would really attract people."

Another of the ambassador's concerns is mitigating the effects of climate change. According to the ambassador, it is a high priority for the Obama Administration.

"The Marshall Islands is one of the lowest [sea level] countries and one of the most vulnerable in the world to rising seas, drought, temperature change, flooding and storms. There is a whole range of things that have the potential to affect the Marshall Islands," Campbell said. "There are different ways we can help the Marshall Islands address some of those issues and help them prepare for emergencies such as tsunamis, typhoons, or the wave action we saw last year."

Ambassador Campbell returned to the Embassy on Majuro Friday evening.



Photo courtesy of Missile Defense Agency

The *Worthy* at sea on a return to Kwajalein from Hawaii in 2007 after supporting a mission at the Pacific Missile Range.

Valuable asset

KMRSS *Worthy* provides vital safety, telemetry, communications for missions



Photo by Dan Adler

A view from the stern of the vessel gives a good view of the telemetry antenna dishes.

By Dan Adler
Media Services Manager

Among the many missile testing and space surveillance assets available at Reagan Test Site, the U.S. Army vessel KMRSS *Worthy* ranks at the very top in importance. KMRSS stands for Kwajalein Mobile Range Safety System. The KMRSS is a self-contained, ship-based range safety system designed to support launch operations at remote sites.

The vessel started life as USNS *Worthy* (T-AGOS-14), a Stalwart class Modified Tactical Auxiliary General Ocean Surveillance Ship of the United States Navy.

Stalwart class ships were originally designed to collect underwater acoustical data in support of Cold War anti-submarine warfare operations in the 1980s.



U.S. Navy photo

The *USNS Worthy* (T-AGOS-14) at Washington Navy Yard in 1989. Before she came to Kwajalein, the vessel was used in anti-submarine warfare during the Cold War.

USNS Worthy was removed from the Navy rolls in 1993 and in 1995 was acquired by the Army for the purpose of supporting the mission at RTS.

The vessel underwent extensive re-modification in California during which instrumentation capable of tracking missiles was installed.

One of the requirements in the configuration was that the ship could stay 'on station' for months without requiring re-supply of food and water. The ship began supporting missions at Kwajalein in 1996. Since that time, it has successfully supported dozens of missions including THAAD operations at Pacific Missile Range in Hawaii.

The ship is equipped with multiple stabilized tracking antenna systems that can receive telemetry signals and process them in real time. The telemetry antennas pull the signals into a receiver such as a radio allows you to tune into a certain station. Then the signal is processed and recorded for later analysis.

The vessel also serves as a voice communications relay hub for ships and aircraft in the area of a mission as well as to uprange and downrange control centers. To provide communication capabilities, the *Worthy* has several satellite communication terminals on board.

The basic mission of the *Worthy* is to provide vehicle flight safety, telemetry data collection, and communication services at remote locations. According to Kwajalein Range



Photo by Dan Adler

Satellite communication terminals are located above the ship's bridge.



Photo by Dan Adler

A view of the *Worthy's* bridge.

See WORTHY, Page 8



Alex Schotts plays *Taps* as the American Legion Rifle Squad stands at attention in the background.

Kwajalein observes Veterans Day



Dave Norwood lays one of three wreaths at the monument at the flag poles.

Article and photos by Dan Adler
Media Services Manager

Dozens of Kwajalein residents and dignitaries gathered at the flag poles on Wednesday to observe Veterans Day and to honor and thank those who have served and defended America. The observance was opened by Master of Ceremonies, Cpt. Kevin Coyne, who gave a brief history of Veterans Day.

The national anthems of the United States and the Republic of the Marshall Islands were then played by the Kwajalein Senior High School Band.

Pastor Rick Funk, Protestant Chaplain, gave the invocation. "As living veterans honor those who have gone before us, we congratulate their service. We pray this day for every mother and father, wife and husband, sister and brother, son and daughter and for all loved ones who have received the bitter and tragic news of the death of their



Dozens of residents gather at the flag poles to honor America's veterans during the Veterans Day ceremony on Wednesday.

companion.”

With the recent shooting tragedy fresh in everyone's mind, Funk said, “We especially pray for friends and families in Ft. Hood, Texas. Our human words never seem adequately up to the task. Lord, fill this gap with your unfailing love. May our gathering this day add some measure of hope in their time of grief.”

Funk prayed for all servicemembers who stand in harm's way. “May their fear be conquered by faith, may their anxiety be calmed by courage and may their doubts be diminished by hope. After they have done what they were called to do, may they return swiftly and safely home. May their selfless service inspire our love for one another.”

After Funk's remarks, Col. Frederick Clarke addressed the audience and welcomed the new U.S. Ambassador to the Republic of the Marshall Islands, Martha Campbell and thanked her for coming to join in the Veterans Day observance. He also welcomed RMI Senators and Kwajalein Atoll Local Government officials and all who came to thank and honor America's veterans.

The colonel said, “As we prepare to honor the service of all veterans, be they Army, Air Force, Marines, Navy or Coast Guard, it is with heavy heart that I ask you to take a moment to honor the Soldiers and civilians who were killed and wounded this past week at Ft. Hood.”

The gathering observed several seconds of silence in remembrance Saturday, Nov. 14, 2009

of the fallen and wounded at Ft. Hood.

Clarke then introduced guest speaker Ambassador Campbell to the audience.

The ambassador said she was honored to be able to thank the members of the U.S. military, “U.S. and Marshallese citizens alike.”

Campbell asked that all veterans in the audience stand so they could be recognized. Applause greeted the veterans who stood up to be honored. She stressed that the gathering and the day was to recognize the many sacrifices made by military members and veterans. The Ambassador pointed out that many American servicemembers gave their lives in battle on the very ground Kwajalein and Roi-Namur residents work and play on every day. The battles fought resulted in a moral and strategic victory for the U.S. She said that all these many years later, Kwajalein and Roi still continue to be of vast importance to America and its allies.

“It is my great honor to be here today to celebrate the friendship between two nations — the United States and the Republic of the Marshall Islands,” she said. “To my colleagues in uniform and to those who have worn the uniform, thank you for your service.”

Wreaths were laid by Dave Norwood, Jim Burk and Amy LaCost. A 21-gun salute was fired by American Legion Post 44 Rifle Squad and *Taps* was played by student Alex Schotts.



Col. Frederick Clarke addresses the gathering on Wednesday.



U.S. Ambassador to the Republic of the Marshall Islands, Martha Campbell, is the keynote speaker at the Veterans Day observance.

WORTHY from page 5

Services Test Director and *Worthy* Systems Lead, T.C. Cardillo, “We support two different types of missions — safety and telemetry. In a telemetry mission we track a vehicle and collect the data being transmitted. Depending on the requirements we can process the data and provide downstream mission participants with directing information telling them where to find the vehicle at their horizon break. The ship can also collect data such as video from other airborne assets. We receive the video, process and compress it, and relay it off-ship in real-time to make it available for distribution and viewing at various ranges and sites.”

He added, “The people who created the vehicle want to know the characteristics and get information on its performance. The primary way to get that is to listen in and hear what the vehicle is telling you through telemetry data. If an issue happens, if it didn’t end up where it was expected — why? Telemetry gives them details and allows them to design things better or make modifications.”

Cardillo explained that a telemetry-only mission is when the launch facility has its own flight termination capability, but needs additional telemetry coverage due to “blind spots”, redundancy, or other mission requirements.

“It’s a great advantage to be mo-

bile,” he said. “We can relocate to wherever Lt. Col. John Eggert and Henry McElreath, *Worthy* Program Manager, require the ship to support a mission. We’re not confined.”

Cardillo added, “During a safety mission, the *Worthy’s* role is to evaluate the powered portion of flight to mitigate risk to people, property, and mission objectives. While performing this safety function we are also performing a telemetry mission at the same time. The safety mission just adds a level of complexity to a telemetry-only mission.”

Cardillo explained that the systems are like a pyramid. “At the base are infrastructure items such as communications and network systems handled primarily by Chuck Markusich and Danny Barthle. Then we rely on the telemetry systems to pull in and process the vehicle’s transmitted RF [radio frequency]. Rich Erekson, John McDonald, and John Bohrer make up the core of this team. The safety system in turn receives and processes this data for the safety system functions. This configuration, programming, and processing is primarily done by Bob Dejoie and Bruce Pippitt with Chuck Kuzy preparing the safety hardware.”

He continued that there are guiding parameters as to how far off course a vehicle can go before it will or will not present a problem.

“Our role for a safety mission is to make sure the sensor’s systems



Photo by Dan Adler

A security door guards the control room. Cameras are not allowed in the control room.

such as communications, telemetry, safety, networks, weather-balloons, and others are all functioning and configured for the mission, and to provide support operators government safety officers responsible for the safety mission,” he said.

He added that the on board range safety officers are always familiar with the target vehicles, how they function and what to expect from them. That, along with the *Worthy’s* instrumentation, helps them make a decision about terminating the flight.

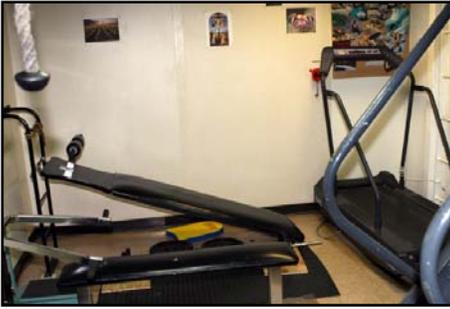
Cardillo clarified the term destruct. “Destruct is an interesting term. Most people envision it as blowing up the missile. But usually, it’s more along the lines of disabling the thrust.”

He continued, “However much velocity it had at that point [of stopping thrust] would determine where it will end up. All of that is pre-calculated. If we’re looking at a screen with a map it has all the populated areas identified on the map with ‘keep-out’ safety areas. Even when the vehicle is initially launched we can predict where it’s going to end up based on current velocity, acceleration and all the different parameters. The display



Photo by Dan Adler

The sick bay is staffed by a nurse when the vessel is at sea.



The ship is equipped with a small exercise room for the crew.

is programmed to show the area where the vehicle will end up if thrust is stopped at any point.”

Cardillo said that knowing where a vehicle will come down if thrust is stopped at any given time lets the safety officer(s) terminate the flight when it is certain the vehicle will not impact in a populated area.

He added, “We know what the flight path should be and if it looks like it’s not going to stay ‘between the lines,’ that’s when they [safety officers] are sitting there making a decision what to do. It’s all pre-determined and our guys program in the destruct boundaries, vehicle characteristics, etc. It all goes into advance planning.”

Cardillo stressed that all aspects of a mission are carefully calculated. “Our primary role on a safety mission is protecting people and property.”

He said the *Worthy’s* safety system is used where there are no land-based destruct or flight



Photo by Dan Adler

John Marshall is captain of the *Worthy*.



Photo by Dan Adler

First Mate Gabe Lebeau shows some of the navigational equipment on the bridge.

termination assets available. For instance, the *Worthy* does not support SpaceX missions because RTS has a land-based safety system.

“Additionally, the ship could support sea-based launches [where no land-based safety system was available],” Cardillo said. “Another example of a mission we might support would be an air-drop such as the Pegasus mission. If our land-based systems couldn’t provide safety for the complete duration of a powered flight, that’s where the ship would come in.”

He continued, “We’re mobile and the nice thing is that the ship is a little range. It’s like you take a lot of the land-based systems and put them into a little 50 by 50 room and we perform a similar function.”

During the past two years or so, the tempo of activity for the *Worthy* has increased dramatically. The ship has spent an average of six months out the year away from Kwajalein. Some of that time is spent being repaired, refitted or having modifications made, but mostly supporting missions directly or indirectly.

Cardillo stated that before a mission, a lot of planning, preparation, and practice takes place and Mike Lundberg and the other safety officers become knowledgeable about the vehicle being launched.

“By the time we have the mission, the team has practiced so that if something does happen, we know how to handle it,” he said. “To support a mission, a safety mission in particular, requires an extensive

build up and coordination time period. It can take months. The team has to coordinate and prepare all the systems for the support. The mission team’s actual deployments are approximately a month. Capt. [John] Marshall, Alex [Rodriguez], Gabe [Lebeau], Harold Lakabung, Junior Nasher, Drew Van Voorhees and the Patriot team stay with the vessel the entire time the ship is away from RTS.”

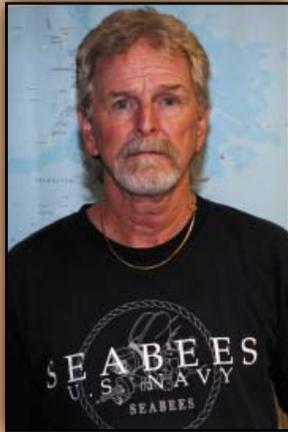
During mission support at sea, the vessel has living accommodations for up to 33 persons, including crew and mission personnel.

The *Worthy’s* captain is John Marshall who has 40 years of experience in the Merchant Marine with everything from tugs to ocean going freighters, mostly in the oil business. The First Mate is Gabe Lebeau and the Chief Engineer is Alex Rodriguez.

Being on an isolated platform, the mission and marine teams often perform extra duties. “People end up having to wear different hats and being willing to do things that are outside our normal scope. Bert Ferreras is a good example as he takes on telemetry and communications work among other responsibilities,” said Cardillo. “That’s part of the fun, but it’s also part of the challenge for some people. It takes a fairly unique type to work on a boat. It’s a nice fit for certain personalities.”

Editor’s note: Hourglass personnel would like to thank First Mate Gabe Lebeau for the tour he gave to us.

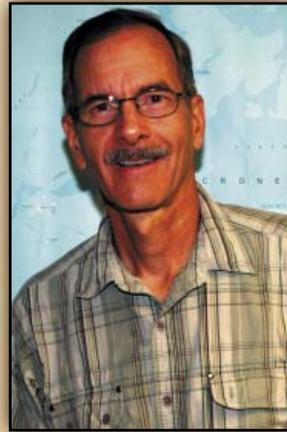
HONORING KWAJALEIN VETE



Billy Abston
U.S. Navy 1968-1991
Vietnam



Arsenio Nabas
U.S. Navy Seabees
Sept. 1963-Sept. 1989



Bob Prosch
U.S. Army July 1967-July 1970
Vietnam



Chuck Corway
U.S. Air Force
1985-86



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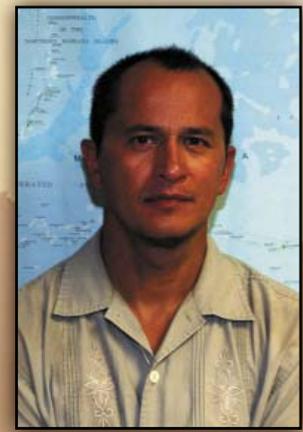
David Stewart
U.S. Army
Dec. 1975-Jan. 2005



Col. Kevin Skinner
U.S. Army
1985-present



Sgt. Joshua Gravett
U.S. Army
2003-present



Jeff Beavers
U.S. Air Force
Feb. 1988-Dec. 1991



G



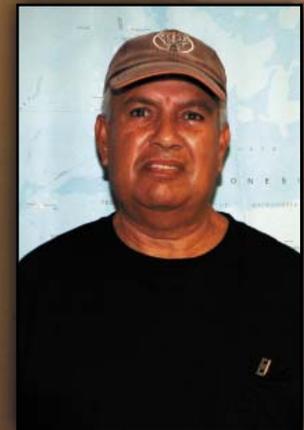
Mike Herrington
U.S. Army 1966-1976
101st Airborne - Vietnam



Pamela Beavers
U.S. Air Force
Feb. 1990-Dec. 1994



Peggy Basset
U.S. Air Force
1977-82



Feliciano Achica
U.S. Navy 1968-74
Vietnam



Jerry Co
U.S. Na
23 years of

VETERANS WHO SERVED AMERICA



David Darden
U.S. Air Force
1980-1994



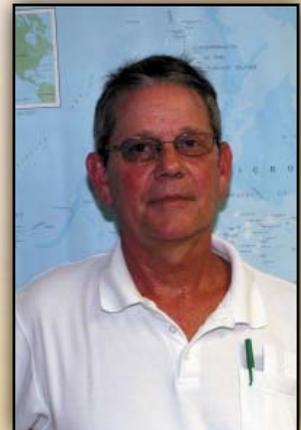
Kathy Ann Funk
U.S. Army Active and
Reserves 1980-96



**Rick Funk U.S. Army Active
and Reserves 1980-96**



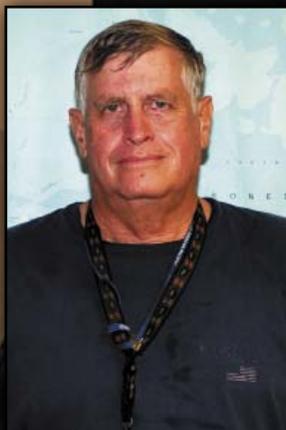
Nail Ammons
U.S. Army
1979-2003



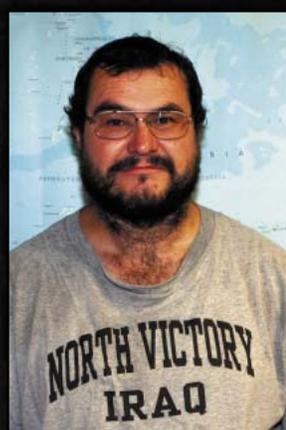
Kennan Buechter
U.S. Army
1972-75



Collins
Navy
service



Robert Fore
U.S. Army
1968-71 Vietnam



Robin Smith
U.S. Army 1984-98
Desert Shield - Desert Storm



John Pennington
U.S. Army Reserves
1990-Present

*Background: U.S. Army photo of a Forward
Operating Base in Helmund Province, Afghanistan.*

Getting Crafty

Annual Holiday Craft Fair showcases Kwajalein residents' creative creations

Article and photos by Sheila Bigelow
Associate Editor

Bicycles filled the lawn and bike racks on both sides of the street outside the Corlett Recreation Center gym Monday morning. Kwajalein residents gathered to share their creative wares and spend some money during the annual Holiday Craft Fair.

The craft fair was a perfect opportunity for the creative vendors of Kwajalein to showcase their talents and artistic abilities to the other residents on-island. Residents gladly packed into the CRC gym to shop for holiday trinkets and treasures for family and friends.

The well-known photographers of Kwajalein displayed their most beautiful sunrises and sunsets, beach shots and underwater captions for others to enjoy and purchase. John Breen showcased some amazing half underwater and above water shots in all sizes. Rob Clayton had his always mesmerizing photos on display, most interests captured by his incredibly bright and diverse underwater photos of manta rays, turtles, jellyfish and more. Melissa Dethlefsen had photos in all sizes, including beautiful post cards and holiday cards, perfect to send to your family or friends.

The Yokwe Yuk Women's Club doesn't think November is too early to put up a Christmas tree. They displayed theirs proudly at their booth. It held numerous donated and handmade ornaments that were mostly supplied by their own members, some who had spent hours in the Hobby Shop making the holiday decorations. All their proceeds went towards the YYWC Outer Island Christmas Drop scheduled for December. Lisa Ansley, V Clarke, Karen Kutac and Tonya Thompson took turns accepting cash donations in exchange for the ornaments on the tree.

Some vendors used materials



Lauren Traweck shops for homemade holiday decorations off the YYWC's Christmas tree. All proceeds from their booth will go towards the YYWC Outer Islands Christmas Drop in December.

found right here on Kwajalein to design their creations, like Sandy Lummer, who gathered supplies like shells and sea glass to make handmade snowmen and angels. Also using supplies gathered from Kwajalein's natural resources were Laura and Steve Alves who made their 'Snowcoconuts' and 'Snow Babies' made from coconuts collected around island. They also painted coconuts to look like pumpkins. Buyers could pick their own pumpkin from their patch or take a 'Snowcoconut' dressed in a festive fleece hat and scarf home. Alves said this is the fourth year her and her husband have been making and selling the 'Snowcoconuts' and pumpkins at the craft fair.

The Kwajalein Art Guild showcased artwork done by many of their talented members. Laurie Roccatani was selling multiple oil on canvas paintings. Other artists included Carolyn Kettles, Cheryl Kelly, Sherry Olsen and Brad Pinnell. The KAG was also selling art supplies and kits for anyone who may have been inspired to create their own artwork.

Not all booths were homemade crafts or Kwaj inspired. Carolyn Eggers brought a little piece of Bali to Kwajalein with her silk wraps, purses, bags, jewelry and more. There were also a few tables filled with beautiful and unique items from the Philippines including clocks, wall hangings, jewelry, hair accessories, purses and t-shirts.

Some vendors, like Jim Bishop and Mike Malone, geared their booths towards underwater lovers, selling dive gear like flippers, masks, snorkels, rash guards, gear bags, books on diving and more.

The Kwajalein Running Club and Kwajalein Scuba Club were selling their respective club t-shirts, most selling like wildfire.

It was obvious that the Hobby Shop has been busy the past few months after visiting a few different booths and seeing their exquisite and talented handmade crafts. Denise Nast showcased her specialty for detail and design with her 'Life on Kwaj' and 'Beach' signs. Sherry Olsen was selling her beautiful pottery; she had plates, cups, bowls and more.

Other unique items for sale were Crocs sandals accessories, cigar box purses, balloon flip flops and



Laura and Steve Alves sell their 'Snowcoconuts' and 'Snow Babies' at the Holiday Craft Fair Monday.



Gail Ammons, left, with her daughter Alyssa, center, and Nelda Reynolds, right, shop at Anne Dowell's booth.

embroidered Kwaj bags and aprons by Callie Chavana. Leonisa was selling her beautiful and ornate jewelry, along with original and handmade holiday ornaments.

'Tiny Island Creations' intrigued you with their unique items like drawstring tooth bags for when your little ones start losing their teeth. They also had baby slings for your children's dolls.

Members of Cub Scout Pack 135 roamed around the gym selling baked goods while their moms manned their booth selling holiday wreaths.

There may not be a shopping mall here on Kwaj, but events like the Holiday Craft Fair make it a little easier to shop for family and friends during the holiday season.



Homemade signs by Kathy Skinner were a big hit at the Holiday Craft Fair.

Mother and Son

STAR WARS



AND **Alien** NIGHT



It looks like Darth Vader comes in all sizes

Mothers and sons enjoy ‘spacing out’ on Monday

Article and photos by Dan Adler
Media Services Manager

If you are a *Star Wars* fanatic, the place you should have been this past Monday was in the multi-purpose room. Of course, you had to be a young man in grades K through six to get in. Oh, and you had to have your mom with you. The occasion was the Mother and Son *Star Wars* night.

Mothers and their sons in grades K through six entered a ‘spacey’ world as they walked into the multi-purpose room Monday evening. Scenes from the *Star Wars* movies were projected onto a wall, a bar was set up (courtesy of Tammie and Rick Wommack) that sold ‘out-of-this-world’ drink concoctions, a Jedi (Kendall Westhoff) stood ready to train the boys and their moms in using the ‘Force.’ Darth Vader (Talbot Westhoff) lurked and skulked, a jousting area was available and there was an alien ‘lounge act band’ (Dan Valles, Jake Jahnke, Jarem Ereckson and Colby McGlinn).

The event was the brainchild of Heidi Rowell and Jennifer Harmon. Why did they pick a *Star Wars* theme? “My kids love *Star Wars*, so we went for it,” said Rowell. “Jennifer’s kids love it too. Jennifer has really been working hard, especially on the music. She’s done an awesome job with that.”

Many hours and lots of volunteerism went into making the afternoon a reality. Rowell spent three weeks doing paintings of *Star Wars* characters that adorned one of the walls. And according to Harmon, it took three days to transform the multi-purpose room into an alien world. Furniture from Furniture Warehouse was used to set up the room. Harmon said the Furniture Warehouse, “really came through when we needed them.”

Rowell acknowledged the high school students who came in and put up the lights and decorations.



Jedi Master Kendall Westhoff shows a young man how to use the Force.

“I put out the word I needed volunteers and kids came out of the woodwork to help,” she said. “They really deserve credit for what they did.”

In addition to the other volunteers, Massina McCollum was slated to do a special *Star Wars* dance from a scene in one of the movies, John Breen was serving as photographer and Terry Gimple was Master of Ceremonies.

SpaceX donated \$25 and a bag full of goodies to give away as a grand prize for the costume contest. Many of the parents also supplied books for prizes and lots of food to eat.

The first half of the event was spent in the Jedi training and then a dance party was held.

The evening was meant to do for boys what the Father/Daughter Dance does for the little ladies of the island. “We are going all out for the boys tonight,” Rowell said.



The boys check out the food and refreshments.



Paintings of *Star Wars* characters by Heidi Rowell adorn the wall of the multi-purpose room Monday afternoon for the mother and son *Star Wars* night.

Right, A Yoda pumpkin greets visitors to the festivities.



Left, Avonlee Westhoff tries to stump guests with *Star Wars* trivia.



Mothers and sons enter the alien world of the multi-purpose room on Monday.

Obama's pledge: America will fulfill its obligation and promises to veterans

By Jim Garamone

American Forces Press Service

America will fulfill its obligation to take care of and value those who have sacrificed for the country, President Barack Obama said Wednesday.

A day after attending a memorial service at Fort Hood, Texas, the president presided over a Veterans Day ceremony at Arlington National Cemetery. The Memorial Amphitheater was cold, rainy and wet, yet still packed as people from around the United States gathered to pay respects to veterans for their contributions and sacrifices.

Obama referenced his visit to Fort Hood, where Soldiers and their families are coming to terms with a horrific attack that killed 13 and wounded many others.

"Yesterday I visited troops at Fort Hood," the commander-in-chief said. "We gathered in remembrance of those we recently lost. We paid tribute to the lives they led. There was something that I saw in them, something that I see in the eyes of every Soldier and Sailor, Airman, Marine and Coast Guardsman that I have had the privilege to meet in this country and around the world. And that thing is determination."

Obama said today's servicemembers already deserve a place alongside previous generations' for their courage and the sacrifices that they have made.

"In an era where so many acted only in pursuit of narrow self-interest, they've chosen the opposite," he said. "They chose to serve the cause that is greater than self, many even after they knew they'd be sent into harm's way."

Soldiers, Sailors, Airmen, Marines and Coast Guardsmen have deployed to serve in distant and difficult places, Obama said.



White House photo by Pete Souza

President Barack Obama addresses the audience during a ceremony at Arlington National Cemetery in Virginia to mark Veterans Day Nov. 11.

"They have protected us from danger and they have given others the opportunity for a better life," he said. "So to all of them, to our veterans, to the fallen and to their families, there's no tribute, no commemoration, no praise that can truly match the magnitude of your service and your sacrifice."

The president vowed the country would recognize their services and said that America is going to do right by them. He noted the words of President George Washington who said, "When we assumed the Soldier, we did not lay aside the citizen."

American servicemembers continue to contribute to the United States once they are through with service. "Just as the contributions that our servicemen and women make to this nation don't end when they take off their uniform, neither do our obligations to them," Obama said. "When we fulfill those obligations, we aren't just keeping faith with our veterans; we are keeping faith with the ideals of service and sacrifice upon which this republic was founded."

Obama said the nation has not always acted that way. Vietnam veterans served with great honor, he said, but were met with condemnation and neglect when they returned from war.

"That's something that will never happen again," the president said. "To them and to all who have served in every battle, in every war, we say that it's never too late to say thank you. We honor your service. We are forever grateful. And just as you have not forgotten your missing comrades, neither, ever, will we."

The president said the nation also has an obligation to the families of those who serve, and vowed the country "will not let you down. We will take care of our own."

Obama had a special message to Americans serving around the world. "When your tour ends, when you see our flag, when you touch our soil, you will be home in an America that is forever here for you, just as you've been there for us," he said. "That is my promise — our nation's promise — to you."

HELP WANTED

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/Post Office bulletin board. Full job descriptions and requirements for Contract openings are located online at www.krsjv.com.

NEED EXTRA MONEY? 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 Aides, Medical Office, Media Services Specialist, Substitute Teacher, and HR Temp Pool Office Support. Questions? Call 54916.

IT'S OFFICIAL, WE NEED YOU! Community Activities is hiring paid officials, scorekeepers and locker room attendants for the 2009 volleyball season, Tuesday-Saturday evenings from Nov. 12-Dec. If you are interested, please contact Jen Yezeck at 53331 or Jennifer.yezek@smdck.smdc.army.mil, or go directly to HR and fill out a part-time/casual employment form. No experience necessary.

WANTED

ADULT BIKE NEEDED to buy or rent for visitor from Dec. 10-Jan 25. Please call 54586.

FOUND

GROCERY RECYCLE BAGS, found downtown between 4th St. and Lagoon Rd. Please call Maria Elena Curtiss at 53925 after 5:30 p.m.

PATIO SALE

MONDAY, 8-11 a.m., quarters 137-D. PCS sale, everything must go.

FOR SALE

HDTV, 42", \$800; Weber gas grill, \$250; giant pot and propane burner, great for deep frying a turkey, \$150; computer cart, \$15; two lap trays, \$5; bar stool with back; two dehumidifiers; outside plastic storage unit, \$50; Honeywell air purifier and New Kids Line Lilac Garden crib set, includes bumper, quilt, valance, fitted sheet, diaper stacker, skirt and wall hanging, \$50. Call 55006 before 8 p.m.

FORMAL DRESSES for teens, two size medium spaghetti-strap dresses, one never worn, red with beads on bodice, \$20 and one worn once, pink with beads on bodice, \$15, both in excellent condition; entertainment center, light-colored wood, excellent condition, two shelves with glass door for stereo equipment, space for a 32 inch tv, CD rack, DVD shelves and four cupboards with doors below tv space; aquarium, 29 gallon, with a Flu-val filter system, new light and accessories, \$75. Call 53759.

LIFE JACKET for 20-30 pound dog, \$10; cordless phone with extra handset, \$20; Black and Decker one cup coffee maker, new, \$20; set of hand-painted dishes from

Pier1 Imports, \$25; bamboo blinds, three sets, new, \$50 and QVC food processor, \$40. Call Tammy at 51229

GIRLS' CLOTHES, new and used, dresses, shorts, tops, sizes four, five and six; shoes, sizes 11, 12 and 13; leotards; ballet and tap shoes, sizes 10, 11, 12 and 13; toys, movies; twin doubler, like new, \$20; EZ swimsuit, new, ages one-six, \$10; princess canopy, \$10 and classic Winnie the Pooh bedding, comforter, bumper, diaper bag, lamp and table. Call 52692.

POWER BOAT, 27 feet, ready to fish, twin 3.0L I/O engines, 130 gallon fuel tank, spacious cabin, aluminum trailer, \$30,000. View at boat lot #8 or call 53698.

COLUMBIA SAILBOAT, 26 feet, in the water on new mooring, very clean, dinghy and 5HP motor, boat shack, trailer, five sails in excellent condition, new head sail, CD, radio, Ipod, stereo, new '09 10HP Honda, toilet, sink, VHF radio, life sling, all new lines, new cabin zip off cushion covers, 406 EPIRB, BQ grill, new tiller, sleeps four, everything works and is a great boat, selling for a bigger boat, \$16,000. Call Ryan Vahle at 52222, 52590.

DANBY HOME COMFORT dehumidifier, slightly used, 1300 square foot coverage, remote and owner's manual, excellent condition, paid \$230, asking \$150. Please call 51265 after 4 p.m.

TV, 27 INCH, \$40; AM/FM/SW radio with digital readout, \$30; Bearcat 30 channel scanner, \$20; Hamilton Beach four-cup coffee maker, \$20; Craftsman multi-function tool kit, \$30 and HP flatbed scanner, \$10. Call 53124.

TWO-DRAWER FILE cabinet, \$20; scanner, \$20; Peavy drum set, \$700 or best offer; beach chairs, \$10 each; cooler, \$5; spear gun and extra large flippers, \$20; men's inline skates with all pads, size 13, \$50; toys; dress-up clothes; plants and outside chairs. Call 54125.

ARM'S REACH the Mini Co-Sleeper, aqua blue, \$50 and Disney baby sling, new, paid \$40, selling for \$20. Call 52864.

MAYTAG DISHWASHER with butcher block top, \$100 and Sharp convection microwave oven, \$30. Call 55613.

POWERCAT BOAT, 25 feet, twin 115 Yamahas, GPS, depth finder, all around great boat, \$40,000. Call 51595.

PLANTS, wide selection both indoor and out, great prices. Call 53336 after 4 p.m.

SONY REAR PROJECTION TV, 52 inch, \$400; Panasonic five-disc DVD/CD play \$75; two floor speaker stands, \$20; three black "Classic" seven-pod AeroGardens (indoor hydroponic gardens) with corner three-shelf wall unit, lots of accessories, paid \$700, asking \$200 and Kwaj condition boogie boards, \$5 each. Please call 54784.

BOSTON WHALER, 22 feet, two Yamaha 60s, 2006, low hours, fuel injected, low fuel consumption, clean, well maintained, low maintenance, large bimini top, 58 gallons fuel capacity, huge fish box, outriggers, at boat lot 312, Kwajalein. Call Steve at 52823.

BOAT HOUSE, lot 312, 8x20 feet, air conditioned, fully equipped with electrical outlets, freezer, refrigerator, storage shelves and cabinets, covered 26x16 feet lighted boat shed, many tools, air compressor, file table and extras. Call Steve at 52823.

Religious Services

Catholic

Saturday Mass, 5:30 p.m., in the small chapel.

Protestant

Sunday

8 and 10:45 a.m., on Kwaj and Roi-Namur service at 4 p.m.

Baptist

9:40 a.m., Sunday, in elementary school music room.

Latter-day Saints

10 a.m., Sunday, in

Corlett Recreation Center, Room 3.

Jewish services

Last Friday of the month in the Religious Education Building. Times will vary. Contact the Chaplain's office, 53505, for more information.

POSTUREPEDIC ELITE plush mattress and box spring, queen size, great condition, \$125. Call 54200.

CORDUROY THROW or floor pillows, four, large, 24x24 inches, grey/blue and grey/green in color, excellent condition, \$10 each or four for \$35. Call 53759.

CANON EOS Digital Rebel SLR camera, 6.3mp, 1gb memory card and 28-55mm lens, \$400. Call 52296.

LITTLE TYKES two story tree fort with slide and new vinyl roof, \$200; bedding set with comforter, sheets, pillow cases, bed skirt, king size, great shape, \$50; light duty aluminum bike trailer with stainless steel axle, \$80 and Sun bike frames, female, \$10 each. Call 52642.

GRADY WHITE Offshore, 24 foot, powered by new Yamaha 4-stroke 115 hp engines, range of almost 300 miles on inboard tanks, aluminum trailer, Lee outriggers, GPS, VHS radio, stereo, depth finder, \$45,000 and Sun EZ Rider Recumbent trike, 20 inch, 27 speed, front and rear disk brake, canted rear wheels, like new, paid \$1200, will sell for \$800 or best offer. Call Dennis at 54489 or 51850.

CHALLENGER JET boat, boat house lot 311 and wetsuit, two-piece, 3mm, women's, size small. Call Mike or Sandy, 54152 or 58990.

COMMUNITY NOTICES

LIVE CHRISTMAS trees are being pre-sold at the high school office starting Nov. 3. The shipment is limited, trees will be sold on a first-come basis until sold out. High-quality and long lasting. Delivery by students will be free to your home the second week in December. Please call the high school office at 52011 with questions. Cost is \$60, checks to Kwajalein High School (KHS).

PEST CONTROL DEPARTMENT will be conducting night spraying operations on Kwajalein from Nov. 2-Nov. 14 and on Roi from Nov. 20-Dec. 4. Please take this time to clean up clutter around your residence and work place and seal all trash before placing in outside trash containers. After the spraying operation the Pest Control department will be closely monitoring all facilities and residences for

Café Pacific

Lunch

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Nov. 21
Kwaj fried chicken	Breaded pork cutlet	Herb baked chicken	Spaghetti	Meatloaf	Pan fried chicken	Louisiana Cajun gumbo
Salisbury steak	Chicken/peapod stir-fry	Sesame tofu	Whole wheat pasta	Breaded chicken strips	Three meat pizza	Beef/Cheese turnovers
Vegetarian pasta	Eggs Benedict	Beef tips in burgundy	Bolognese, marinara, alfredo	Vegetarian stir-fry	Vegetarian pizza	Cajun grilled salmon
Grill: Brunch station open	Grill: Brunch station open	Grill: Grilled reuben	Grill: Pasta Bar	Grill: Grilled cheese	Grill: N/A	Grill: Teriyaki burger

Dinner

Tonight	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
Korean beef ribs	Swedish meatballs	Mini taco bar	Braises swiss steak	Carved top round of beef	Breaded pork chops	Stir-fry to order
Thai shrimp pasta	Breaded pollock	Oxtail stew	Baked Tuscan chicken	Malibu chicken	Chicken stew	Korean beef steak
General Tso's chicken	Parslied noodles	Chef's choice entree	Rice/Barley casserole	Baked pot/condiments	Beans in broth	Chicken sukuyaki

Own a Star on the Community Christmas Tree or Around Town

\$4 per Kit

Kit includes:
Wood star(s)
Paint
Paint brush



- Kits available in the Community Activities Office (Bldg. 805) While Supplies Last.
- All Stars must be returned by November 25, 400pm.
- Paintings must be family friendly.
- All ages are welcome.
- Call 9-1332 with questions.

proper waste disposal and overall sanitation; notices will be placed at sites that are contributing to the fly and mosquitoes populations. For questions, please call the Pest Control office at 54738.

GREGG GRUNDON'S first ever Kanekapila (Open Mic) Jam Session will be held at 6:30 p.m., Nov. 15, at the Vet's Hall patio. Bring your axe, sing, tell jokes, it's up to you - let's jam! Questions, call Gregg at 54239.

YOKWE YUK WOMEN'S Club cordially invites all residents to its annual Silent Auction at 7 p.m., Nov. 15, in the high school MP room. Enjoy wine and cheese as you bid on unique baskets with all proceeds benefitting the outer islands. Tickets cost \$15 will be available during normal Mic Shop business hours, at the Craft Fair on Nov. 9 or by calling Lauren Traweek at 55558.

KWAJALEIN DRUM CIRCLE will "Drum Down the Sun" at 6:30 p.m., Nov. 15, at Emon Beach. Bring your drum, cowbell, tambourine or water bucket to join in on a fun filled night of percussion. You don't have to be a drummer to join the fun, just bring something to beat on. Beach chairs recommended, dancers welcome. For more information contact Bill Williamson at 53068. Rain out date is Nov. 16.

KWAJALEIN JR/SR HIGH School 8th grade class will be having a Monster Sale (patio/bake sale) from 8 a.m.-1 p.m., on Nov. 16, in the MP room. Questions, call 52011.

KWAJALEIN RUNNING CLUB is having its annual Turkey Trot Prediction Run/Walk at 5:30 p.m., on Nov. 16, at Emon Beach. Come close to your predicted time and you might win a turkey! No timing devices allowed so leave your watches and IPODs at home.

KPD WILL BE CONDUCTING a Pistol Range from 8 a.m.-2 p.m., on Nov. 17. Please observe the red flag hazard area. If you have any questions, contact KPD Training at 54448.

OPEN ENROLLMENT deadline for KRS/Chugach/Berry Aviation, Inc. is Nov. 17. Full-time contract employees are required to go on-line at www.fcebenefits.com to make a selection if you would like your benefits to remain the same as your 2009 elections and if you are making a change to your health benefits. No changes will be accepted after this date unless you have a qualifying event. If you do not make a selection, employees will be defaulted to the HRA plan, employee only coverage with no optional benefits effective Jan. 1, 2010. Questions, contact Health Benefits at 50939 or 51888. This information is also available on the USAKA Intranet (HR webpage).

SCHOOL ADVISORY COUNCIL meeting at 7 p.m., Nov.

Taste of the Orient

November 21st, 2009
6:30-10:00 pm

Asian Themed Dinner Featuring:

- Lumpia
- Oriental Salad
- Fried Rice
- Vegetable Chow Mein
- Sweet and Sour Chicken
- Mongolian Beef
- Pineapple Upsidedown Cake

Bus will run from the Ocean View Club to the Country Club 6:00-11:00pm.

\$27.50 per person
Tickets are limited and can be purchased at KRS Retail Services
Co-sponsored by Community Activities and KRS Retail Services



18, in the Elementary School Coconut Room. The public is welcome to attend. ITBS Scores will be presented.

STUDENT MUSIC RECITAL, 7 p.m., Nov. 18, in the Davy Davis Multi-Purpose Room at the high school. Piano teachers who would like students to perform should contact Dick Shields to obtain registration forms.

ALL ARE WELCOME to our Community Wide Thanksgiving service at 7 p.m., Nov. 26, at Island Memorial Chapel. For more information, contact Rick Funk at 53505.

PLEASE JOIN US AT Café Pacific for our Thanksgiving Buffet on Nov. 27. Our talented chefs will be preparing an array of items including a carving station with slow roasted steamship round of beef and Virginia maple smoked ham, steamed crab legs with drawn butter, succulent roast turkey with all the trimmings, cashew encrusted mahi-mahi, tortellini with garlic cream sauce, chilled seafood bar which features jumbo peel-and-eat shrimp, mussels on the half shell, smoked salmon and Cajun crawfish. In addition, we will be serving an international cheese bar, assorted salads, fresh fruits and a variety of delicious desserts including assorted pastries, pumpkin and pecan pie. Why cook when you can come and enjoy without the cleanup? Bring the whole family. The hours of operation are as follows: Unaccompanied personnel, 11 a.m.-6:30 p.m. All other residents, 1-6:30 p.m. Adults cost \$24.95 and children under 12 cost \$11.95. Take-out meals will not be permitted during the Thanksgiving meal unless an authorized ration request form is submitted in advance. Food Service personnel will prepare take-out meals.

THE CWF IS HOSTING a Thanksgiving dinner at 12:30 p.m., on Nov. 27, at the REB. All residents are invited to come share a delicious turkey dinner. Turkey, gravy and drinks will be prepared. If able, please bring a side dish to share. Don't spend this holiday alone, come enjoy the day with us. Call Amy at 52681 with any questions.

CYSS' BI-ANNUAL BABYSITTER training will take place on Nov. 28 and Nov. 30. Attendees must be 13-years-old by June 1, 2010 to attend. Basic First Aid and Child Development Information will be provided. Space is limited. Call Amy Daniels at 53610 to register.

START THE SEASON with an evening of Christmas music performed by Jon and Deanna Ramsay on at 7 p.m., Nov. 29, at Island Memorial Chapel. For more information, contact Rick Funk at 53505.

AA MEETINGS on Roi-Namur are now being held at 1:30 p.m., every Wednesday, in the KEAMS Training Room at the Terminal Building. Call Bill, 52338 or Marion, 55362.

DUE TO USAKA/RTS mission requirements, all available temporary billeting space (Kwaj Lodge and Jabro) has been committed to support the expected influx of TDY personnel during December. The Housing Office is unable to accept any lodging requests for unofficial guests. Residents sponsoring unofficial guests will need to make alternate housing arrangements. If a mission cancellation occurs which makes rooms available, an announcement to that effect will be issued. The Housing Office will not maintain a waiting list for vacancies. The management of KRS regrets any inconvenience this may cause for the residents of Kwajalein.

Café Roi

Lunch	Monday	Tuesday	Wednesday	Thursday	Friday	Nov. 21
Sunday Carved beef haunch Crispy fried chicken Seared garlic salmon	Grilled carne asada Southwest chicken breast Huevos rancheros	Smokey BBQ beef Buffalo chicken wings Brunch station open	McMahi sandwich Hamburger steak Macaroni and cheese	Tacos & Burritos Beef tamales Refried beans and cheese	Pork stir-fry Hunan style fish Hibachi chicken	Cuban sandwich Ropa vieja beef Cuban pork stew
Dinner	Monday	Tuesday	Wednesday	Thursday	Friday	Nov. 21
Sunday Beef/sausage lasagna Spinach/mush lasagna Pork cutlet Picatta	Herb butter chicken Beef Bourgninone Penne with vegetables	Beef curry Canton orange chicken Spicy ginger cod	Grilled sirloin Feta/herb stuffed chicken Baked potatoes	Lime cilantro pork Asian chicken Curried noodles	Pork chops Roi fried chicken Cheddar cheese grits	Braised beef shoulder Chicken parmesan Pasta ala Fiorentina

KWAJALEIN ATOLL POST OFFICE

- Winter Holiday Stamps have arrived at the Kwajalein Post Office. Get them while supplies last!



Winter Holidays



Madonna with Child

- To be sure that your mail arrives to your loved ones for the Holidays, send your priority mail out no later than the first week of December.
- Effective 29 September 2009, All mail weighing over 1 pound must have PS Form 2976-A (Large Custom Form) attached.

Example of PS Form 2976-A

Weather courtesy of RTS Weather

Sunday: Partly sunny, 20 percent showers. Winds: ENE-ESE at 8-14 knots.
 Monday: Partly sunny, 20 percent showers. Winds: E-ESE at 6-10 knots.
 Tuesday: Partly cloudy, 40 percent showers. Winds: E-ESE at 10-15 knots.
 Wednesday: Partly sunny, 20 percent showers. Winds: ESE-SE at 6-12 knots.
 Thursday: Mostly sunny, 10 percent showers. Winds: ENE-ESE at 10-15 knots.
 Friday: Mostly sunny, 10 percent showers. Winds: ENE-EE at 8-12 knots.
 Nov. 21: Mostly sunny, 10 percent showers. Winds: ENE-ESE at 10-15 knots.

Annual total: 58.02 inches
 Annual deviation: -27.64 inches

Call 54700 for updated forecasts or visit www.rts-ux.com.

Sunrise/set Moonrise/set High Tide Low Tide

	Sunrise/set	Moonrise/set	High Tide	Low Tide
Sunday	6:42 a.m./6:25 p.m.	5:49 a.m./5:47 p.m.	2:56 a.m., 3.7' 3:16 p.m., 4.5'	8:56 a.m., -0.3' 9:36 p.m., -0.4'
Monday	6:42 a.m./6:26 p.m.	6:44 a.m./6:47 p.m.	3:32 a.m., 3.7' 3:48 p.m., 3.7'	9:27 a.m., -0.4' 10:11 p.m., -0.5'
Tuesday	6:43 a.m./6:26 p.m.	7:39 a.m./7:30 p.m.	4:06 a.m., 3.6' 4:20 p.m., 4.7'	9:58 a.m., -0.4' 10:45 p.m., -0.5'
Wednesday	6:43 a.m./6:26 p.m.	8:33 a.m./8:23 p.m.	4:38 a.m., 3.5' 4:50 p.m., 4.6'	10:28 a.m., -0.4' 11:17 p.m., -0.4'
Thursday	6:44 a.m./6:26 p.m.	9:24 a.m./9:15 p.m.	5:10 a.m., 3.3' 5:21 p.m., 4.5'	10:38 a.m., -0.2' 11:49 p.m., -0.3'
Friday	6:44 a.m./6:26 p.m.	10:13 a.m./10:06 p.m.	5:42 a.m., 3.1' 5:53 p.m., 4.2'	11:28 a.m., 0.0'
Nov. 21	6:44 a.m./6:26 p.m.	10:58 a.m./10:54 p.m.	6:14 a.m., 2.9' 6:26 p.m., 3.9'	12:23 a.m., 0.0' 11:58 p.m., 0.2'