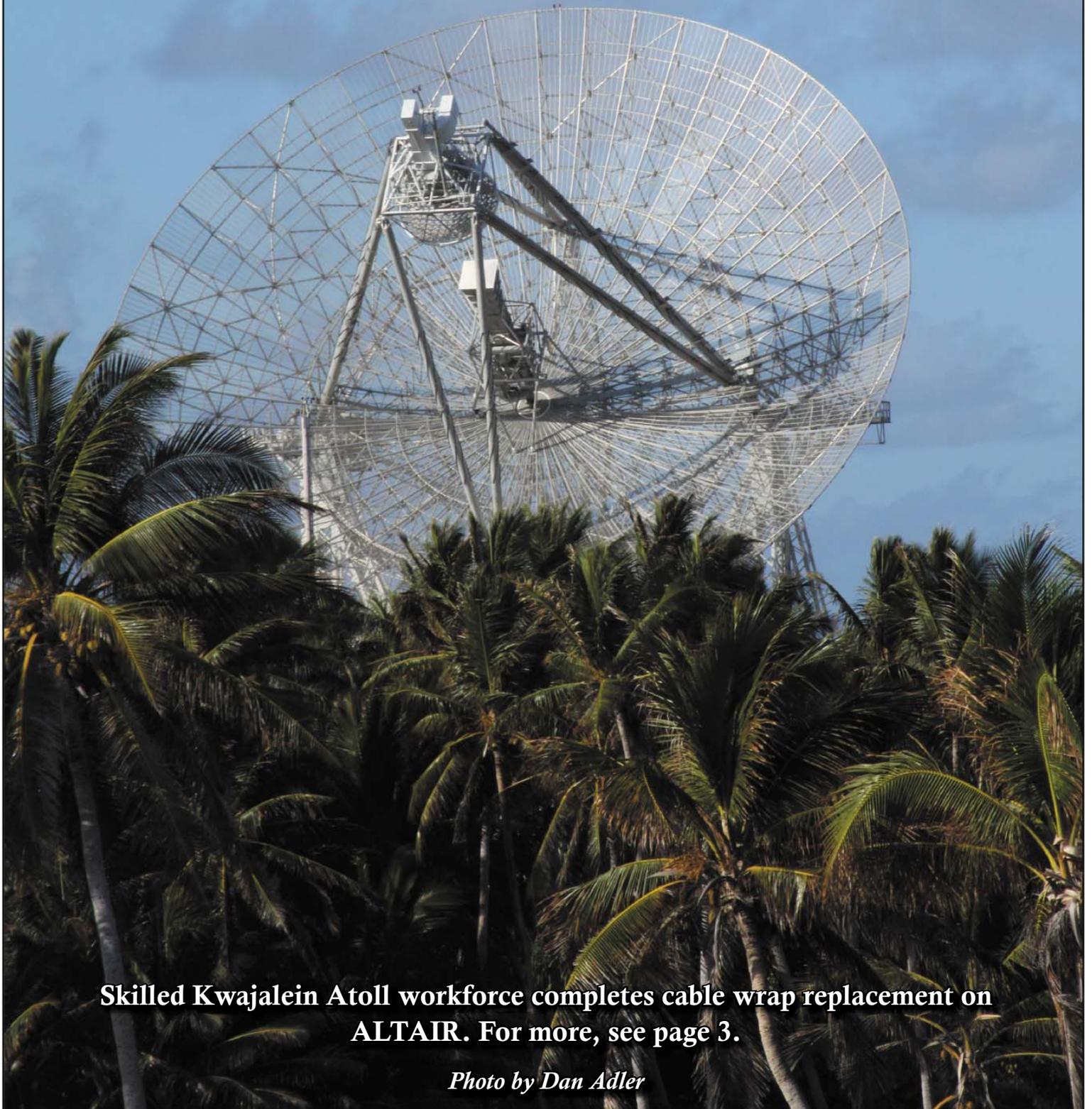


VOLUME 52 NUMBER 4

JANUARY 29, 2011

THE KWAJALEIN HOURGLASS



**Skilled Kwajalein Atoll workforce completes cable wrap replacement on
ALTAIR. For more, see page 3.**

Photo by Dan Adler

THANK YOU

I want to send out a personal thank you to everyone who helped make the 2010 indoor volleyball season so great.

Thank you to Kaya Landers who volunteered to lead the officials' clinic. I also would like to express my appreciation to all of our volunteer officials. They worked really hard to ensure that the season was not only safe, but fun. Their efforts were so important and im-

mensely appreciated.

Finally, our season would not have been complete without all of our volunteer coaches and managers. Thank you for your interest and your efforts. I feel very fortunate to live in a community where people are willing to help out when it's needed.

The success of this year's season was all due to the efforts of all of our

volunteers. So again, thank you so much! We could not have done it without you. Congratulations to 'I'm on a Boat' and the '9th grade boys,' who were this year's champions.

I look forward to the 2011 season and hope it will be just as great, and also just as much fun.

– Mandie Morris, Community Activities Recreation and Programs Manager

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.

Norman Rockwell

Norman Rockwell

There were no rumors brought to USAKA's attention this week. Want to know the real scoop? Send your rumor to Ruth Miskovsky, in Global, or call the Commander's Hotline, 51098, and ask your question anonymously.





THUMBS UP!

To the Marine Department for promptly replacing the broken and missing buoys at Search and Rescue (SAR) Pass. These markers ensure that the passage continues to be visible, making it as safe as possible.

– USAKA Operations

To Anthony's Pizza customers. Your purchase of pizzas the day before Thanksgiving helped us become top in the Pacific for small stores.

– AAFES and Anthony's Pizza management and staff

The deadline to submit all For Sale, Community Notices and other advertisements is Wednesday at noon. E-mail all announcements to hourglass@smdck.smdc.army.mil. Questions, call 52114.

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,

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Skilled Kwajalein Atoll workforce completes cable wrap replacement

By Sheila Bigelow
Managing Editor

Anyone having lived on Kwajalein or Roi-Namur knows the effect the harsh Pacific environment can have on equipment; you see your bicycle deteriorate and rust daily. Frequent replacement of equipment in our part of the world is an aspect of life you get used to here. But what if your rusted equipment is a 450-ton radar? That kind of replacement takes careful planning and execution and can only be done by the best and brightest crew.

The Advanced Research Projects Agency (ARPA) Long Range Tracking and Instrumentation Radar began operation in 1970. The cable wrap replacement project done on ALTAIR recently was no easy feat. The cable wraps had not been replaced since 1994 and the last major project on ALTAIR was the wheels and rails replacement in 2004.

The planning for this project began more than two years ago when stress cracks in the spring were noticed. In 2006, Kenny Leines, ALTAIR antenna manager, and



Photos courtesy of Kenny Leines

One of the new cable wraps with the cables already installed, ready to be placed back into the tower on ALTAIR.

his crew started seeing fatigue cracks. "Obviously when you start seeing cracking you've got to do something about it," Leines said. To mitigate the problem, they did some welding and spot drilling to slow down the need for an entire overhaul. "We knew it was going to have to be replaced; it was just a matter of time," Leines said. With the interim repairs, enough time was bought to get prepared for the large-scale replacement. The ALTAIR antenna group devised a plan that would require more than 40 workers, working in unison and extended shifts to meet the timeframe; once everything fell into place, they decided to pursue the task.

There are two cable wraps on ALTAIR, top and bottom. Each rotates around the center tower section where the cables run through. As the cable wrap rotates, the spring inside flexes to pick up the slack so the stress of rotation isn't transferred to the cables. These cables are critical

to the operation of the ALTAIR antenna and span hundreds of feet into an underground tunnel and up onto the antenna. Below the cable wraps lies an eight-foot bearing around which the whole antenna rotates; this repair opportunity also allowed the replacement of this bearing. Every piece of the cable wraps, inside and out, was replaced. New cable trays were designed by Rene Prenoveau, ALTAIR field engineer, and installed to protect the cabling on the antenna. Thousands of terminations needed to be removed and re-connected with the new cabling. Scaffolding had to be built inside the tunnel and on the antenna to support the repairs. Each cable wrap weighs about 10,000 pounds. Heavy equipment was essential in support of this repair. They needed two 150-foot man lifts,



Every piece of the cable wraps are replaced, inside and out.

See CABLE WRAP Page 4

CABLE WRAP from Page 3

a 90-ton crane, a 15K forklift to transport the cable wraps and two 6K forklifts. The heavy equipment operators, Tony Farias and his crew, Randell Taidrik, Bilet Damon and Romeo Phillip, brought critical skills in getting the job done.

The job of manufacturing the new cable wraps was contracted to Gilchrist Manufacturing in New Hampshire and built according to schematic drawings provided by the ALTAIR antenna team. Leines; Brent Peterson, mechanical engineer lead; and Jacob Olson, electrical engineer lead, oversaw the acceptance and qualification testing of the new cable wraps. They performed the testing without the cables first so as to not endanger the cables themselves if the cable wraps weren't performing correctly. "We wanted to be sure we weren't damaging any of the hardware we were having built," Leines said. They then installed the cables and did the testing again. They witnessed the final qualification testing of the cable wraps and made sure the dimensioning was right and the performance was correct. By the time the cable wraps were delivered to ALTAIR, the cabling was already inside, complete and ready for installation.

The cable wrap replacement was not the only ongoing project during that time. While ALTAIR was shut down, workers took the opportunity to replace the mesh in the dish and refurbish the concrete in the tunnel.



Contracted welders from WHECO replaced 48 pie sections of mesh around the entire radar dish.

The mesh replacement consisted of welding 48 pie sections of mesh around the entire radar dish, with welds every six inches. The work was done by three contracted welders from WHECO, supported by the KREMS work center and overseen by the ALTAIR antenna group. There was an abundance of rain throughout the replacement period that made work much more difficult. The welders that worked on the mesh replacement were especially affected; they couldn't weld when it was raining. Along with rain came wind, so the welders were especially careful to tie off and follow every safety precaution necessary. A new safety fall protection system was designed and approved with the help of KRS Safety, and installed specifically for this job.

Inside the tunnel was where the concrete spalling repair was done. It included the removal of all cabling, waveguides, coax, junction boxes, lighting and brackets. Leines' team didn't fully understand the extent of the problem with the concrete until they began the project. "We got really into it," he said. The masons from Kwajalein responsible for the repairs in the tunnel were Ricardo Clemente, Tiny Bobo and Solomon Salvan. They chipped away all the defective material, which extended behind the rebar. They coated the area with corrosion inhibitors before pouring new concrete. They then replaced all the vertical sections in the tunnel that led up to the antenna. The vertical hole that ends in the tunnel is actually the exact center of where ALTAIR rotates, affectionately known as "the center of the universe." It serves as the reference



The cables were removed from the old cable wraps before they were taken down to be replaced by new ones.



Jimis Langidrik assists with the cable wrap replacement on ALTAIR.

point of where the radar is aligned following the replacement of the cable wraps and re-installation of the rotary joints.

Leines expanded his usual ALTAIR antenna team for the cable wrap replacement project. He brought in numerous RMI workers from the work center and Roi Ops, run by Robbie Amador. "They are all very much a part of this and were necessary for all the planning," Leines said. "They provided a majority of the labor on the job; they were critical to its completion." The ALTAIR transmitter group supported the replacement as well; Jon Nelson, receiver engineer, helped with the termination of some of the cabling. John McKissick and Gordon Salmela are alignment specialists and mechanical engineers who have worked on ALTAIR in the past and were brought in to help with the alignment of the antenna. They worked until the completion of this project. "They were key assets to get this project completed correctly," Leines commented. "It was nice to be able to find somebody that was on the previous project." Other than these two engineers and the Wheco welders, almost the entire project was done with on-island personnel, which is a testament to the skilled workforce here on Kwajalein Atoll.

It has been almost two decades since the cable wraps were last replaced. "We're hoping that this won't have to be done again," Leines said. "We've done some changes both from an operational standpoint and also a materials standpoint and design that hopefully will extend this so we won't have to do it again for quite some time."

Col. Joseph Gaines, USAKA commander, visited Roi on Jan. 21 to participate in a luncheon to thank the hard-working and dedicated workforce that helped complete the cable wrap replacement. Each employee was given a certificate of recognition for their contributions.

The ALTAIR antenna group dedicated this project to Robert White, in recognition of his many years of service to ALTAIR and his specific lead role in the 1994 cable wrap replacement.



Ricardo Clemente works on the concrete spalling repair done down in the tunnel, underneath ALTAIR.



After both cable wraps were taken out to be replaced, members of the ALTAIR antenna team worked to replace all other parts surrounding them.



Heavy equipment was essential in the cable wrap replacement project on ALTAIR.

Faces behind ALTAIR, TRADEX *RMI employees vital asset to antennas*

Article and photos by Sheila Bigelow
Managing Editor

The 450-ton ALTAIR radar and the 214-ton TRADEX radar may seem intimidating or daunting to some, but for Republic of the Marshall Islands residents that grew up on Enniburr, those looming beasts have been a part of their skyline since the 1960s and 70s. So it is only fitting that almost 40 years after becoming operational on Roi-Namur, RMI residents eventually work to support them. Historically, RMI employees have been hired as part of the logistics workforce, which is essential to Reagan Test Site; but as of December 2008, four RMI employees were the first to be hired at TRADEX and ALTAIR as radar technicians. This was done to increase their professional growth opportunities so they may become an integral part of radar operation and improvement; they would be able to work alongside engineers to learn some of the theory of operation and to be a part of the team that operates, designs and improves the radar systems.

Jobenan Hermon was the first RMI citizen hired at TRADEX in December 2008. Valun Anuntak started his career working for building and grounds, then moved to the FOM paint shop, transferred to KREMS and then began work at TRADEX as a radar technician in January 2009. Joe Rubon was hired from the plumbing shop on Roi and began working for ALTAIR in November 2009. Jerry Samuel was employed at the KREMS work center and came to TRADEX as a full-time radar technician in 2009. Samuel has impressed Kenny Leines, ALTAIR antenna manager, with his welding skills. "Jerry is already probably one of the best welders around on this atoll hands down," Leines said.

Anuntak, Samuel and Hermon perform various duties at TRADEX. They paint, weld and help with plumbing. Samuel is a certified welder and does a lot of welding for both TRADEX and ALTAIR. But they are not just laborers, they are radar technicians. According to Dexter Beals, ALTAIR/TRADEX sensor lead, "Since the time they were hired, all three employees [Anuntak, Samuel, Hermon] have shown exceptional performance and have become valuable contributors to the TRADEX team. All three have worked on antenna modifications and design to improve instrumentation for remote operations, including schematic interpretation, layout of controls and wiring, fabrication of process control instrumentation and installation of sensors, and testing and troubleshooting of the installed



Joe Rubon, radar technician at ALTAIR, works on new equipment being installed on ALTAIR for the cable wrap replacement project.

systems." All three employees have learned to operate the TRADEX L-Band transmitter, prepare and assemble high power microwave components, take and log daily measurements on the TRADEX antenna system, and troubleshoot and repair antenna systems.

Rubon has become a key contributor at ALTAIR, most recently contributing to the antenna cable wrap replacement project. Beals said, "Rubon has shown an exceptional aptitude for understanding complex engineering systems. In a very short time, he has become a valuable contributor to engineering brainstorming sessions, often contributing ideas that lead to the final solution. He has been part of the alignment team that measured the critical alignment of the ALTAIR antenna before the cable wrap, and was part of the team that performed the final alignment at the end of the shutdown. With his good attitude and strong engineering aptitude, Mr. Rubon has quickly become an important part of the ALTAIR organization." Rubon has mentioned to Leines an interest to learn new things and increase his capabilities at the radars; he wants to get technical, certified welding experience. "These guys want to continue to add skill sets," Leines said. "They have the motivation and the desire to do it. You can't ask for much more." Every day, Leines becomes more and more impressed with their work. "He's [Rubon] been great," said Leines. "He's been working, learning about everything on the antenna. He's really been an integral part of this team."



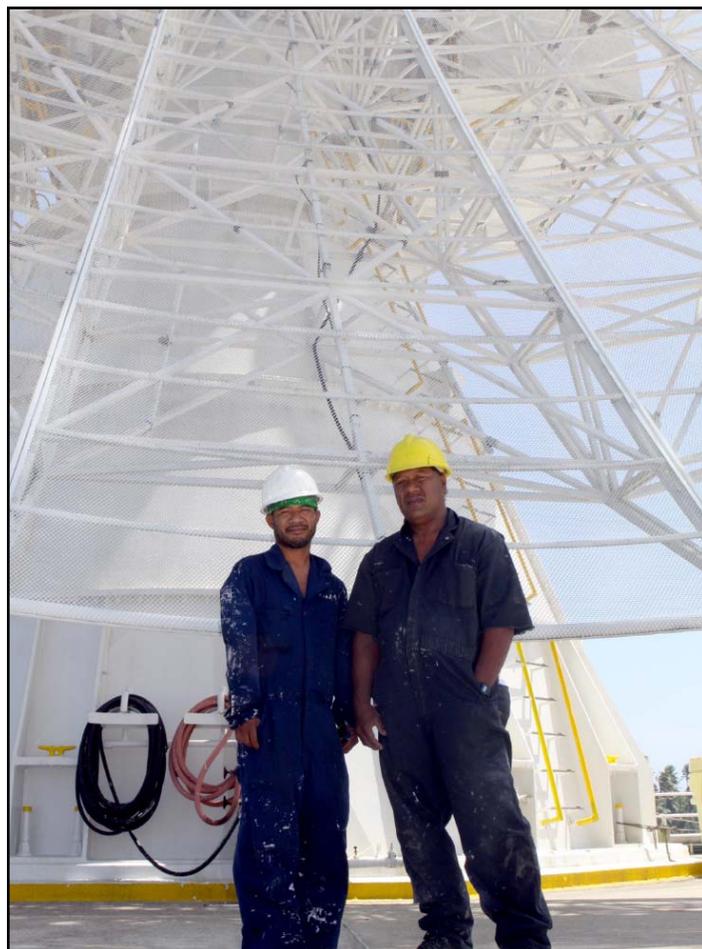
Photo courtesy of Conrad Nakasone

Jobenan Herman, left, receives an award for parts removal and salvage from Lt. Col. Anne Daugherty, former RTS commander, at TRADEX.

While the four RMI employees have only been working on the radars for two years, there are managers on Roi that have been trying to get them hired on for many years before that. When additional funding for TRADEX was approved, it was decided that the funding would be best spent if it were split into the three RMI positions. “We need to give credit pretty much to Dexter Beals, Keith Peacock [radars manager] and also Doug Peters [deputy program manager of mission operations], because they made it all happen,” said Conrad Nakasone, TRADEX antenna leader. “I’ve been here 20-some-odd years and have tried for many years and it never pulled through. But with all three of them involved, they all made it happen.”

Nakasone thinks hiring RMI employees at the radars was a win-win proposition. “I think we’re on the right path in getting RMI citizens hired on.” Nakasone said that RMI employees bring a lot to the table; they have a lot of inherent knowledge having grown up in the Marshall Islands. They understand how weather and the harsh Pacific environment can corrode equipment. He said they are not shy about speaking up and giving suggestions during brainstorming sessions.

Leines said Rubon reminds him a lot of Brian Masumoto, ALTAIR field engineer, who has been on Roi for 25 years, and has been with ALTAIR for 16 years. “[Masumoto] is my lead at the mechanical side,” Leines said. “He runs the show in the yard and on normal days I really rely on him to keep things moving out there. He’s definitely someone I would consider being one of those people that have some unique knowledge and experience on the antenna that you can’t really replace. Since we brought Joe [Rubon] in, Brian has been mentoring him.” The field engineer position at ALTAIR is important, according to Leines. Having someone in that position who has inherent knowledge about the radar is essential. “Some of the knowledge Brian has keeps this antenna running. Joe is absorbing and putting his own twist on things, but Joe’s very gung-ho and very knowledgeable. He can pick up concepts very fast and he’s learning from Brian. It’s important to get some of that knowledge passed down to the people that are going to be here for a while. To have Joe’s experience will be valuable to ALTAIR for years to come.”



Jerry Samuel and Valun Anuntak are two of the RMI employees recently hired to work as radar technicians at TRADEX.

When looking toward the future, it looks optimistic for Rubon and his fellow RMI co-workers. “At some point, I can see myself or whoever takes over my position passing the reigns on to Joe, and looking to him for support on the radar,” Leines said. He can see Rubon as the ‘go-to guy’ for ALTAIR; when people have problems, they’re going to seek Rubon out to help fix those problems. “[That] is precedence for the radars that I don’t think has ever happened out here,” Leines continued, “so we’re excited about it and I think Joe is up for it.” Leines thinks the same thing can happen over at TRADEX. “I know the three guys that work at TRADEX pretty well as they were part of the [KREMS] work center before; they used to support ALTAIR.” Anuntak and Hermon have been working for Chugach and Kwajalein Range Services for a long time, according to Leines. “Those kinds of guys have knowledge about the antenna specifics, about certain things that really you can’t replace.”

Both Leines and Nakasone are looking to hire more RMI employees to work on the radars in the future. “If there are openings, yes, we definitely will hire more technicians,” Nakasone commented. They will be looking for RMI employees with a background in mechanics, painting, plumbing and someone with electrical experience. The future is bright for RMI employees at the Roi radars, said Nakasone. “In the future, I think yes, we will hire more. That’s good for us and it’s a positive for them as well.”

Achievements & Recognitions

Jim Willman, KRS deputy program manager of business services, celebrated his 25th year with Bechtel in a ceremony held Sunday at the country club. Willman was welcomed into the 'Quarter Century Club' with a Rolex watch, clock, certificate and kind words from KRS president Dave Norwood. Norwood regaled the audience with tales from Willman's 25 years with Bechtel. He began his career working as a gas plant operator at the Naval Petroleum Reserves in Bakersfield, Calif. He then became a material planner and moved into procurement in 1989. He then transferred to the Atlantic Liquid Natural Gas project in Trinidad for international and commercial procurement. His next move was to Aberdeen where he started as a subcontractor and quickly moved up to field procurement manager in 2000, and then to acquisition services manager, and finally business manager in 2003. In April 2007, Willman arrived on Kwajalein as the KRS acquisitions services manager and by October was assigned to his current role. Willman celebrated Sunday with fellow Bechtel employees, his wife Sheryl, daughter Karen, and visiting in-laws, Ann and Glenn Holmes.

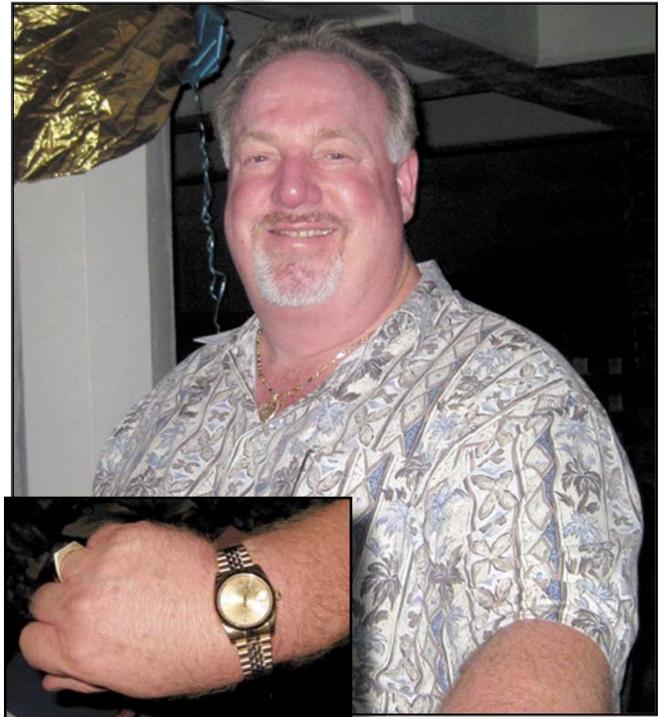


Photo courtesy of Karen Willman



Photo by Ruth Miskovsky

Capt. Dirk Crawford accepts a gift of appreciation from Lt. Col. John Eggert on Jan. 22, as son Alex Crawford looks on. Crawford was awarded an Army Commendation Medal for his achievements while working as a space officer for Reagan Test Site. Crawford and his family left Kwajalein Thursday and are headed to Huntsville, Ala.



Photo courtesy of Gloria Cassidy

Pat Dowell is recognized as the KRS Mission Employee of the Month on Jan. 22. Doug Peters, deputy program manager of mission operations, praised Dowell for being an outstanding employee who is dedicated to his job and is truly known as a working manager. He said he leads by example with his work ethic, team approach, knowledge of telemetry systems and the Range, and has the respect of his team and mission customers. Dowell is committed to making sure the customer's requirements are met for each mission. Dowell has worked in the Telemetry Department for Mission Operations for 19 years.

Life on the Rock

Pinewood Derby Race Day!

Photos and graphic design by
Catherine Layton



WINNER'S CIRCLE

Scout Race: 1st: Ayden deVille
2nd: Zach Jones
3rd: Nathan Jones

Sibling Race: 1st: Jenna Gray
2nd: Jenna Lundberg
3rd: Abbie Warren

Celebrity Race: 1st: Jeff Jones
2nd: Corey Wiley
3rd: Bryan Herrington

Best Name: Andrew Lundberg (Black Magic)

Best Design: Brady Mathieson

Judge's Choice: Dawson Wiley



Submit your best photos for the community photo page – send us photos of your day at the beach, BBQ, water sports, birthday parties, hobbies, arts and crafts, holidays and just every day fun. E-mail all submissions to hourglass@smcck.smdc.army.mil. Candid (not posed) photos are preferred. Questions, call 52114.

Top: Isaiah Parrish can't hide his enthusiasm. Right: Nathan Jones and Gabe Parrish take note of the finish to their race. Bottom left: Sean Hepler, Andrew Lundberg and Dominic Leines react to a close finish.

Water conservation begins with reclamation

Article and photos by Catherine Layton
Associate Editor

When anyone talks of a recycling program, aluminum cans, plastics and glass tend to come to mind. One of the most widely recycled products is surprisingly, water. Recycled or reclaimed water is one of the simplest forms of water conservation. On Kwajalein, it is a necessity to reclaim the wastewater so our limited drinking water isn't squandered. Additionally, the ocean and lagoon is protected from large amounts of wastewater discharge due to the diligence of our wastewater treatment plant staff.

Approximately 400,000 gallons of raw sewage, or grey water, comes into the wastewater treatment plant daily on Kwajalein. Anything that goes down a drain, whether it is from your shower or from the Café Pacific, comes to the treatment plant. After extensive treatment and settling, 75 percent of the initial amount goes back into the reclaimed, or non-potable water system, while only 25 percent is discharged back into the lagoon. Tom Clouser, wastewater treatment plant supervisor, explains, "Once it goes through our treatment system, it's pretty clean water when it goes in the lagoon. It has gone through quite a bit of biological work and settling

out. We chlorinate before it goes to the lagoon. Once it passes through the sewer plant, turbidity is between .85 and 1 Nephelometric Turbidity Units. To put that in perspective, .5 NTU in most water systems is safe to send to homes for drinking water."

Clouser continued, "This sewage plant has a 30/30 permit, which means we are allowed to put in the lagoon 30 parts per million of biological oxygen demand (a measure of the oxygen used by microorganisms to decompose waste), and 30 ppm suspended solids. It is a very common permit around the country. So we are allowed to put 112 pounds of treated solids into the lagoon, which would go in with 450,000 gallons of water. We average only about 10 pounds of solid waste per day. Even though this plant is 30 years old, it is incredibly efficient."

When the grey water arrives at the plant, it goes into the aeration basin. Initially, this untreated sewage contains 150 ppm. If left in the tank without aeration, the bacteria would take from 30 to 40 days to break down the solid matter. In the aeration basin, air is added by agitation to inspire rapid reproduction of the bacteria, much like yeast. As the bacteria multiply, the water's BOD is then 3,000 ppm, almost 30 times the amount that initially came to the plant.

When the bacteria have done their job and have digested as much sewage as is available, that material is moved into another tank, called the digester tank, where there is nothing left for the bacteria to eat. They are not being "fed," so the bacteria become essentially cannibalistic and begin feeding on themselves. The waste byproducts of that stage are hydrogen, oxygen and ammonia. The ammonia bleeds off into the atmosphere and the hydrogen and oxygen become H₂O, or water.

The water goes to the clarifier, at a rate 300 to 400 gallons per minute, where it hits a settling wall. The water drops straight down into the tank. The flow in that tank is very slow, everything settles – all solids go to the bottom. The clear water goes over the top. "This water is then sent through pressure filters of gravel, sand and anthracite coal. By the time it leaves the pressure filters, the reclaimed water is coming out at the lowest turbidity of .5 NTU. Then we send out to storage tanks, chlorinate it, and it is fed to the reclaimed



Tom Clouser, KRS waste water treatment plant supervisor, stands over the aeration basin, where air is added to the sewage by agitation to inspire bacterial activity.

water system on island,” said Clouser. The entire process takes about 19 hours.

When no more clear water comes from the sewage, it is pumped down to the drying beds, a covered area of troughs that contain recycled glass ground down to sand. This solid material turns out to be 1 percent of the total volume taken in at the plant. Sewage is 99 percent water, 1 percent solid. When all the solids are dried out, it’s taken down to the end of the island and added to all the organic debris collected on island such as palm fronds and coconuts. It’s mixed and settled and produces a compost, then used as fertilizer on island.

While the wastewater treatment plant does a thorough job of keeping the island’s non-potable water in good condition, it does fall to the residents and workforce to be mindful of everything that is introduced to the sewer system. “Sometimes things get dumped into the sewer system, say, for instance, various amounts of oil

or beer or old milk. It really upsets the plant; it sends a shock to the sewer system. People don’t like to think about the sewer system, where the waste goes, but if sizable amounts of products are being put in the system that is killing our bugs (bacteria), it can take four or five days for it to come back,” said Clouser. For a relatively small plant like Kwajalein’s, it doesn’t take much to throw off the fragile balance.

There is no commonality between Kwajalein’s fresh water system and the reclaimed water system, and with good reason. Although the non-potable water on Kwaj has been treated, disinfected and is safe for incidental human contact, it is not “drinking water” and is not approved for human consumption or contact. Non-potable water is in all toilets, and most outdoor faucets. The reclaimed water is great for lawns and plants, or even washing off bikes or patio furniture, but should not be used for drinking by humans or pets.



Most outdoor faucets are non-potable and are marked accordingly.



When no more clear water comes from the sewage, it is pumped down to these drying beds. When all the solids are dried out, it’s taken to the end of the island and added to organic debris collected on island, and eventually becomes fertilizer.

Pest management team surveys for pests, rodents

Article and photo by Sheila Bigelow
Managing Editor

Shoo fly! That's exactly what members of the Army Public Health Command Region-Pacific team visiting Kwajalein and Roi-Namur are hoping to do. The team, in collaboration with the Air Force school of Aerospace Medicine, provided U.S. Army Kwajalein Atoll medical entomology support to reduce rodent and insect pests via Integrated Pest Management, which is an implementation of biological, mechanical and sanitation practices to reduce pests without utilizing chemicals.

Members of the team were Maj. Peter Nunn, medical entomologist, Public Health Command Region-Pacific Korea, whose specialty is mosquitoes and rodents; Capt. Jaree Johnson, chief medical entomologist, Public Health Command Region-Pacific out of Camp Zama, Japan, whose specialty is mosquitoes and ticks; and Capt. Wes Walker, command entomologist from Pacific Air Forces in Kadena Air Base, Japan. Walker serves as the public health consultant in the Pacific and his specialty is epidemiology and pathogenicology.

The team was requested to USAKA by Col. Joseph Gaines. "The colonel is interested in public health and safety. That's one of his top priorities," said Anthony Hoover, USAKA environmental engineer. They arrived on Kwajalein Jan. 17 and 19 and spent the week evaluating the concerns and issues associated with rodents and pests on both Kwajalein and Roi. As part of their objectives, they surveyed island facilities and family housing to identify the specific concerns associated with each in order to determine both short and long term solutions.

"The top issues are flies and rodents," said Nunn. "The flies are a major concern because of their numbers and they carry bacteria, diseases... Any time you have a large population of flies, there is a possibility [of health risks]." Walker is working with the Kwajalein community health nurse to identify health trends associated with pests and rodents.

The Kwajalein Range Services pest control team, supervised by Billy Abston, is working hard to control the pest and rodent population with what they have available. "They're doing active mechanical trapping for rodents," Johnson said. "They're going to start focusing a lot of their emphasis on the wooden houses because that's where [they're] finding a lot of the rodent issues." They will do a lot of trapping in the unoccupied wooden houses. They are also setting up 'snap traps' and mosquito traps around the island. "They're going to draw the flies out of the restaurant areas," Nunn mentioned. They will accomplish that by giving the flies a more 'attractive' place to go away from where residents dine. Another tactic is to move the trash cans farther away from entrances and dining facilities. Pest control will also team up with public works to get the compost area under control; Johnson noticed that area is a breeding ground for flies. "All of the staff are fully certified," Johnson said, referring to the DoD Pest Management Course members of the pest control team received certification for in January. They are now certified to apply pesticides, even though that is the last resort, Johnson said.



Capt. Wes Walker, left, and Capt. Jaree Johnson inspect an ant issue at the optics building on Kwajalein.

The main cause for the pest problem on Kwajalein is simply sanitation. "It's not like it's one area... Sanitation is a broad umbrella issue here," Walker commented. Everything from food being placed in open trash cans that aren't sealed to even washing out a pan and dumping the water on the ground add to the fly population. "As a community, if everybody adopts similar practices within the community, as a whole you get the benefit of having reduced the fly populations." If everyone works together to exhibit better sanitation habits, the entire community will benefit from it. "We're also emphasizing getting vegetation away from your house by six to eight feet," Nunn said. Vegetation invites pests and rodents in. Tall trees allow rats to climb and get on your roof; Nunn suggests requesting public works to place silver metal bands on the bottom of the trees to restrict rodents from climbing them.

So what should residents expect over the next couple months and even years? Nunn claims that the rodent issue will most likely be "like a low hum in the background." They will still be here, but they won't be running around inside the houses, unless you bring them in. Walker explains, "Nature provides [rats] a nice habitat, but if you provide them a nicer one and lure them away from nature, they'll take it." They expect the fly and mosquito problem to decrease, but it will never be completely quelled.

What can you do to decrease pests?

- Keep vegetation outside home to a minimum
- Empty any standing water in yard and rain gutters
- Place all food in a tightly sealed bag before placing in trash can
- Make sure the trash can is sealed tightly
- Keep home neat so as to not invite pests inside
- Clean up after outdoor picnics; do not leave any food scraps or garbage behind
- Call the Help Desk at 53550 for any ongoing issues with pests
- Visit your Self Help store for free supplies to help get rid of pests

KRC alternates biking and running in Monday race

By Bob Sholar
Kwajalein Running Club

Some Kwajalein Running Club events are novelties. Some are grueling. Ride-and-Park is both. Two person teams alternate running and biking simultaneously around the airfield loop three times, sharing a single bike. How is this done? There are bike handoff zones at either end of the runway, each zone being approximately 300 yards long. All participants start at the same place and time. All proceed on a clockwise path, half of the team on foot, the other on bikes. Bikers travel roughly half a loop, leave bikes in handoff zones and start running. Runners find the bikes and ride to the next hand off zone, and on and on for three laps. The final finisher of each team determines the team time. It's a little tricky – strategy? Some say there is none. Some say it's balanced ability. Some use the length of the handoff zones to balance team member abilities.

KRC's annual Ride-and-Park began at 5 p.m., Monday, starting at the atoll air terminal on 9th Street. Each participant had to be prepared to run six miles and bike six miles.

Jon Jahnke has been on the winning men's team for five years in a row! Although, this year, Jahnke's son Jake and high school buddy Dane Bishop came within half a minute of winning.



Jake Jahnke, left, and Dane Bishop switch roles at the handoff zone.



Sarah Stepchew keeps focused for the running leg of her race.

Place	Time	Team Members
1	1:04:08	Jon Jahnke & Brent Peterson
2	1:04:41	Jake Jahnke & Dane Bishop
3	1:10:38	Krystal Peterson & Lisa Ansley
4	1:11:51	John Eggert & Mike Turner
5	1:13:36	John Theologidy & Kevin Skinner
6	1:14:48	Chad McGlinn & Matt Groen
7	1:15:55	Josh Gravett & Randall Sliva
8	1:18:13	Alex McGlinn & Christi Cardillo
9	1:30:27	Allison Villarreal & Sarah Stepchew
10	1:41:48	Ray Drefus & Bill White
11	1:56:47	Victoria Flournoy & Paige Singleton



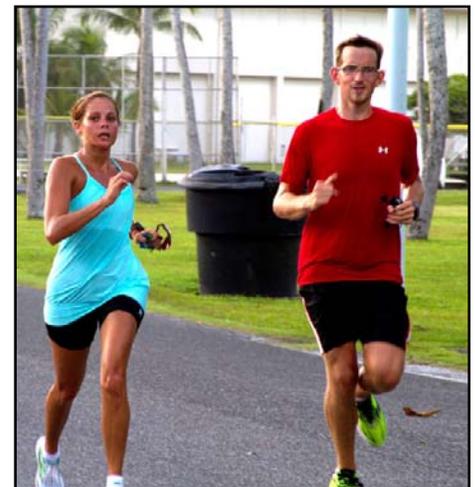
Competitors prepare to start the KRC's annual Ride-and-Park event on Jan. 24.



Christi Cardillo, left, and Lisa Ansley manage smiles during their bike segment of the race.



Photos by Linn Ezell



Alex McGlinn and Phil Lindert kept pace while running.

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

COMMUNITY BANK service manager, full-time. Duties are to manage service and operations, operate teller windows and report to banking center manager. Anyone interested please visit <http://careers.dodcommunitybank.com>.

WANTED

HOUSE for visiting mother. Approximate dates are Feb. 11-28. Loves animals and is a great caretaker. Please call Kristin at 54579.

Religious Services

Catholic

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

Protestant

8 and 11 a.m., Sunday, on Kwaj.
Roi-Namur service at 7 p.m. on Friday

Baptist

9:40 a.m., Sunday, in elementary school Music Room.

Latter-day Saints

10 a.m., Sunday, in CRC, Room 3.

Jewish services

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

ACOUSTIC guitar. Call 51666.

BIKE TRAILER, the more 'kwajical' the better and used office chair. E-mail Brendan Pope in global or call 53275.

LOST

SILVER BRIGHTON woman's ring, black heart, sentimental value. Please call 51829.

FOUND

RACQUETBALL racket cover on Jan. 16. Call 51339 if it's yours.

FOR SALE

REINELL Cuddy 1988 inboard powerboat, 19 feet, red and tan, needs fiberglass work, with boat shack lot 52, \$5,000 or best offer; Lamborghini female bike, \$15; Puma soccer shoes, women's size 7, used twice, \$15; coffee maker, \$15; burley, \$15; fish tank and stand with everything to run it, 50 gallons, \$350 and camping utensils set, new, \$20. Call BJ at 52279 or 52222.

INSTANT pop-up and fold-down tent, \$50; blue Zoot suit with shoes and Fedora, perfect for prom, \$150; Xbox 360 package with lots of extras, \$325; alto saxophone, \$250; wireless media computer keyboard, \$20 and various DVD movies and TV box sets, \$2-\$5. Call 52525 and leave a message.

LARGE indoor fake plant, \$15; child-size life jackets, \$10 each; Heeleys shoes, great condition, \$20; Goosebumps books, like new, \$3 each; Captain Underpants book set, like new, \$15; Gap girls pants, new, \$10; bike parts and lubricants and DVDs. Call 52544.

COLUMBIA mark II sailboat, 26 feet, in the water on one-year mooring, dinghy and 5HP motor, boat shack, trailer, five sails in excellent condition, CD/iPod/radio/stereo, 2009 10HP Honda kicker, toilet, sink, VHF radio, life sling, barbeque grill, 406 EPIRB, swim platform, sleeps four, everything works and is a great boat, sailed to many places here at Kwaj and to Namu Atoll, bought a bigger boat, \$9,000. Call Ryan Vahle at 52222 or 52590.

HP OFFICE Jet 7100 series all-in-one printer, \$50 or best offer and love seat, good condition, \$100 or best offer. Call Sherry at 53718 or 52137.

NORITAKE colorwave stoneware dishes, still in box, \$55 per setting, paid \$70 and Henckles international fine edge professional knife set, seven piece, still in box, worth \$100, asking \$65. Call Rose at 53731.

UPRIGHT piano, sounds great, \$300; men's dive gear, complete set, will sell separately; rocker recliner, \$100 or with massage/heat pad, \$150. Call

**Get in the Mix
6-8 p.m., Feb. 2,
in the CRC Gym**

Learn about the hobby shop, Yacht Club, Outrigger Canoeing, Wellness Program, Running Club, KGA, YYWC, Baptist Congregation and the sport fishing club. Shop and mingle with vendors and learn about departments working on Kwaj! Door prizes include a sunset sail, a marina half day rental and more!

54173 after 6 p.m.

AVT275 Marshall Amp with six-way footswitch, \$650 and Schecter electric guitar with case, \$175. Call 52773 or 51760.

TROLLING lures, rigged and ready to fish, good for all species, many sizes and types to choose from, with both wire and monofilament leader, \$10 and under for most. Contact Steve at 52823.

FULL SET of men's golf clubs, bag, balls and tees included, \$95. Call 53746.

PENN 30 international reel with rod, \$110; men's large BC, regulator, octopus, standard gauges, \$150; Gorham crystal vase, 14 inches, \$20 and 80-quart cooler, \$25. Call 51889.

CROWN LINE boat, 27 feet, all fiberglass, V-hull fishing cruiser, 350 mercruiser, 15HP, covered boat lot 309 and trailer. Call to inquire at 59662 or e-mail hammerheadherb@hotmail.com.

U.S. DIVERS Aqua Lung regulator, used once, 5000 PSI pressure gauge, compass and scuba pro computer in scuba pro console, carrying bag, good condition, \$125; Scuba Pro Air, needs work, \$20; Scuba Pro jet fins, like new, \$20; Oceanic booties, 10-11 foot size, \$15; two dive catch bags, \$10 and golf clubs, good beginner set, metal drivers, irons, sand wedge, putter, taylor made golf bag, Wilson push cart, sun mountain travel bag. Call 52902.

COMMUNITY NOTICES

KRC will be hosting a Fun Run at 5:30 p.m. on Jan.

Café Pacific

Lunch

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Feb. 5
Breaded Pork	Salisbury Steak	Smokey Chicken	Spaghetti	Meatloaf with Gravy	Fried Chicken	Cajun Gumbo
Turkey Peapod	Teriyaki Chicken	Beef Tips in Burgundy	Italian Sausage	Breaded Chicken Strips	Seafood Alfredo	Beef/Cheese Turnovers
Eggs Benedict	Strawberry Crepes	Egg Noodles	Garlic Bread	Veggie Stir-Fry	Taco Pizza	Shrimp-Stuffed Flounder
Brunch Station Open	Brunch Station Open	Grilled Superbird	Pasta Bar	Grilled Cheese	Chef's Choice	Teriyaki Burger

Dinner

Tonight	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
Shanghai Ribs	Swedish Meatballs	Mini Taco Bar	Swiss Steak Jardiniere	Carved Flank Steak	Breaded Pork	Thai Veggie Pasta
Thai Shrimp Pasta	Fish and Chips	Chorizo/Bean Casserole	Tuscan Chicken	Noodles Romanoff	Chicken Scallopini	Mongolian Beef
Fried Rice	Chicken Stir-Fry	Chef's Choice	Rice/Barley Casserole	Blue Cheese Chicken	Boiled Potatoes	Chicken Sukiyaki

31. Distances are half, two and five miles. Meet in front of the library. Runners, joggers and walkers are welcome.

BEGINNING praise and worship guitar lessons for fifth graders to adult classes will begin in February. Lessons will be from 5:30-6:30 p.m. every Thursday. Cost is \$10 per lesson. Contact Cindy at 52370.

BEGINNING Feb. 1, Pest Management personnel will begin inspecting yards in the family housing areas. We will be looking for standing water in any receptacle that will hold water, unkempt yard areas, unbagged food scraps and animal wastes in trash cans, pet droppings in fenced yards, piles of lumber or concrete cylinders and pet food left outdoors. Call 54738 with questions.

KINDERGARTEN registration for the 2011-2012 George Seitz Elementary school year will begin on Feb. 1. If your child will be turning five by Sept. 1, they are eligible to register for Kindergarten. Please contact the Elementary School office at 53601 for additional information and to register your child.

THE KWAJALEIN Amateur Radio Club will be conducting testing for all three classes of amateur radio licenses at 7 p.m., Feb. 3, in the Ham Shack, building 557. For more information please call Jack Carey at 52303 or Chuck Corway at 52819.

BINGO is Feb. 3 at the Pacific Club. Jackpots are windfall \$1500 for 25 numbers or less and blackout \$1600 for 56 numbers or less. Card sales begin at 5:30 p.m. and the game starts at 6:30 p.m. Come for fun, food and cash. Questions, contact Darren Moore at 55599.

THE BARGAIN Bazaar will pick up donations at your quarters the first Monday of each month. The next scheduled pick-up is Feb. 7. Please call 53686 to schedule a pick-up and leave your name and quarters number.

RUN FOR Heart will be from 7-10 a.m., Feb. 7. Runners, walkers and donations are needed. Help raise money to buy school supplies for children on Ebeye. Contact Jared Barrick at 53796 for information.

THE KWAJALEIN Scuba Club will give away a \$50 gift certificate to the diver that wins the best underwater video contest. Bring your video to the Feb. 9 KSC meeting so members can view it and vote on their favorite. The video must have been taken within the last two years and be no longer than five minutes. Contact Marc Rivera or Bill Williamson with questions.

THE 14TH annual NHS sponsored Coffee Shop is at 7 p.m., Feb. 13, in the MP room. Come enjoy your favorite coffee drinks and home-made desserts. All

Valentine's Dinner will be at 6:30 p.m., Feb. 14, at Emon Beach. Tickets are limited and go on sale at 12:30 p.m., Jan. 22, in the Retail Services Office. Tickets cost \$35 and includes an Italian Buffet featuring meatballs, Italian sausage, chicken, a choice of three types of pasta, with marinara, alfredo, or pomodoro sauce, eggplant parmesan, Tuscan pork chop, Caesar salad, garlic bread sticks, cannoli and a complimentary beverage (wine, beer or soda), all served in a lovely beach setting.

Join us for a very special Valentine's Dinner Under the Stars at 7 p.m., Feb. 12, at the Roi-Namur Scuba Shack. Cost is \$45. The menu will feature organic field greens salad, shrimp and scallop scampi, vol-au-vents, lobster tail and petite filet mignon with three-cheese risotto, grilled asparagus, crème caramel with assorted truffles, champagne, beer and wine. Seating is limited so RSVP by Feb. 4.

proceeds benefit education in the outer islands.

THE OPTOMETRIST, Dr. Yamamoto, will be on-island Feb. 13-24. Call the hospital at 52223 or 52224 to make an appointment.

KWAJALEIN Yacht Club's 2011 Commodore's Ball is Feb. 27. Happy hour is at 6 p.m. and dinner will begin at 7 p.m. Enjoy an island formal evening of Pacific Rim cuisine and entertainment by DJ Bill. Tickets are available from 5-7 p.m. on Feb. 3, 10 and 17 at KYC meetings and from 10 a.m.-noon on Feb. 7 and 14, downtown. Everyone is invited to this event. Questions, call Jude at 51293.

THE LAST day of school for Elementary and High School students for the 2010-2011 school year is June 10. If you have children that attend the Elementary and/or High School and your family will be PCSing either before June 10 or during the summer, please notify the school office of your departure date so student records can be prepared. Call the Elementary School office at 53601 and the High School office at 52011.

GIRL TALK needs plants to decorate the Laundromat. Any donations will be graciously accepted. If you would like to donate, please contact Masina McCollum at 51459. Help us beautify our island.

KARAOKE is at 8 p.m., every Sunday, at the Ocean View Club. Join us for singing, music and fun. Contact Darren Moore at 55599 for information.

USAKA WOULD LIKE your opinion on the service AAFES provides to Kwajalein and Roi-Namur. Please take a few minutes to complete a 10-question survey rating the Exchange and the Food Court. A link to the survey is on the intranet home

page and was sent to your e-mail. Or follow <http://www.surveymonkey.com/s/ZDCLCZM> to access the survey. Your opinion is highly valued and will be used as a resource to help facilitate community input to AAFES, and enhance USAKA quality of life. If you have questions about the survey, please contact Ruth Miskovsky in the Public Affairs Office at 54932.

CHARGES are in effect for copies of medical records. The first 15 pages are free. Every additional page costs 30 cents. If records are to be mailed, the cost of postage will be added, and payment will be required prior to mailing.

BE CLEAN and green for a secure energy future. Make wise choices to save energy, money and resources. Simple things are turning off lights and equipment when not in use, using sleep mode feature for CPUs and monitors, changing to fluorescent bulbs and purchasing ENERGY STAR equipment.

HELP US keep Kwajalein and Roi-Namur beautiful by adopting an area. If you are looking for a way to get involved in the community, join the Adopt-An-Area program. For more information please contact KRS Community Activities at 53331 or e-mail Kim.Yarnes@smdck.smdc.army.mil.

THE UNDER Secretary of Defense Guidance issued a memo in response to WikiLeaks and other unauthorized disclosure of classified information. Please understand that not only releasing classified information is an issue but even seeking out the posted information on websites is not acceptable since the information may still be classified. The full memo will be available at the Helpdesk/IA office and e-mailed soon to all USAKA personnel and contractors.

Café Roi

Lunch

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Feb. 5
Glazed Roast Pork	Roast Beef in Dijon	BBQ Spare Ribs	Super Bird	PB/Banana Sandwich	Open-Faced Turkey	Beef Pasticio
Roast Salmon Pastry	Coconut/Basil Chicken	Tempura Mahi Mahi	Salisbury Steak	Baked Rotini	Roast Beef Sandwich	Spinach/Feta Pie
Florentine Quiche	Egg Benedict	Baked Beans	Mashed Potatoes	Huli Huli Chicken	Grilled Pork Chops	Veggie Ratatouille

Dinner

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Feb. 5
Shoyu Chicken	Boiled Brisket	Fried Pork Chops	Roast Steamship	Fried Chicken	Fish and Chips	Carved Roast
Pork Adobo	Au Gratin Potatoes	Cornmeal Catfish	Spring Chicken	Meat Lasagna	Steak/Ale Pie	Marinated Tri-Tip
Noodle Sautée	Corn on the Cob	Red Beans and Rice	Fried Eggplant	Garlic/Cheese Bread	Bangers and Mash	Grilled Salmon

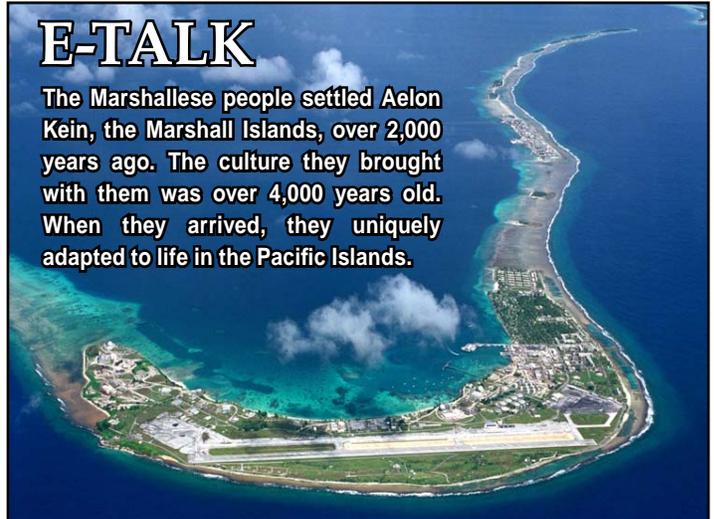
SAFELY SPEAKING



It is everyone's responsibility for a clean and safe work area. If you see it, pick it up, wipe it up, put it away or get help to protect everyone on the job from housekeeping hazards.

E-TALK

The Marshallese people settled Aelon Kein, the Marshall Islands, over 2,000 years ago. The culture they brought with them was over 4,000 years old. When they arrived, they uniquely adapted to life in the Pacific Islands.



Three servicemembers die in Afghanistan

Spc. Joshua T. Lancaster, 22, of Millbrook, Ala., died Jan. 19, in Kandahar, Afghanistan, of wounds suffered when insurgents attacked the Kandahar airfield with indirect fire. He was assigned to the 184th Ordnance Battalion, 52nd Ordnance Group, Fort Campbell, Ky.

Petty Officer Dominique Cruz, 26, of Panama City, Fla.,

was found during search and rescue operations Jan. 19 in the Gulf of Oman after being reported missing Jan. 18. Cruz was assigned as an Operations Specialist to the USS Halsey homeported in San Diego, Calif. Halsey is currently deployed to the Fifth Fleet area of responsibility conducting maritime security operations.

Pfc. Amy R. Sinkler, 23, of Chadbourn, N.C., died Jan. 20 in Baghlan province, Afghanistan, of wounds sustained when insurgents attacked her unit with a rocket propelled grenade. She was assigned to the 17th Combat Sustainment Support Battalion, 3rd Maneuver Enhancement Brigade, Fort Richardson, Alaska.

Weather

Courtesy of RTS Weather

Sunday: Partly sunny, 10 percent showers. Winds: NE-E at 12 - 18 knots
 Monday: Mostly sunny, <10 percent showers. Winds: NE-ENE at 14 - 20 knots
 Tuesday: Mostly sunny, 10 percent showers. Winds: NE-ENE at 14 - 20 knots
 Wednesday: Partly sunny, 10 percent showers. Winds: ENE-E at 12 - 18 knots
 Thursday: Mostly sunny, 10 percent showers. Winds: ENE at 12 - 18 knots
 Friday: Mostly sunny, 10 percent showers. Winds: NE-ENE at 11 - 17 knots

Annual total: 4.42 inches
 Annual deviation: + 0.13 inches

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

Sunrise/set Moonrise/set High Tide Low Tide

	Sunrise/set	Moonrise/set	High Tide	Low Tide
Sunday	7:10 a.m./6:55 p.m.	3:38 a.m./3:32 p.m.	2:12 a.m., 2.3' 2:26 p.m., 3.6'	7:48 a.m., 0.9' 9:09 p.m., 0.3'
Monday	7:10 a.m./6:55 p.m.	4:32 a.m./4:27 p.m.	3:04 a.m., 2.7' 3:10 p.m., 3.9'	8:44 a.m., 0.5' 9:44 p.m., 0.0'
Tuesday	7:10 a.m./6:55 p.m.	5:23 a.m./5:20 p.m.	3:40 a.m., 3.0' 3:46 p.m., 4.3'	9:25 a.m., 0.1' 10:13 p.m., -0.3'
Wednesday	7:10 a.m./6:56 p.m.	6:11 a.m./6:10 p.m.	4:10 a.m., 3.4' 4:17 p.m., 4.5'	9:59 a.m., -0.2' 10:39 p.m., -0.5'
Thursday	7:10 a.m./6:56 p.m.	6:55 a.m./6:59 p.m.	4:37 a.m., 3.7' 4:45 p.m., 4.6'	10:30 a.m., -0.4' 11:04 p.m., -0.6'
Friday	7:10 a.m./6:56 p.m.	7:36 a.m./7:45 p.m.	5:04 a.m., 3.9' 5:12 p.m., 4.7'	10:58 a.m., -0.5' 11:29 a.m., -0.7'
Feb. 5	7:10 a.m./6:56 p.m.	8:15 a.m./8:29 p.m.	5:30 a.m., 4.0' 5:38 p.m., 4.6'	11:26 a.m., -0.5' 11:53 p.m., -0.6'