



The Eagle

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Tactical High Energy Laser (THEL) destroys Katyusha rocket in shootdown

June 6, 2000, White Sands Missile Range, N.M. –The Tactical High Energy Laser (THEL) demonstrator successfully tracked and destroyed a single rocket in flight for the first time and during the first attempt at approximately 3:45 p.m. EDT.

The test was the first of a series of shoot-downs before the THEL is handed over to the Government of Israel.

The THEL is a joint Advanced Concept Technology Demonstration (ACTD) program between the United States and Israel de-

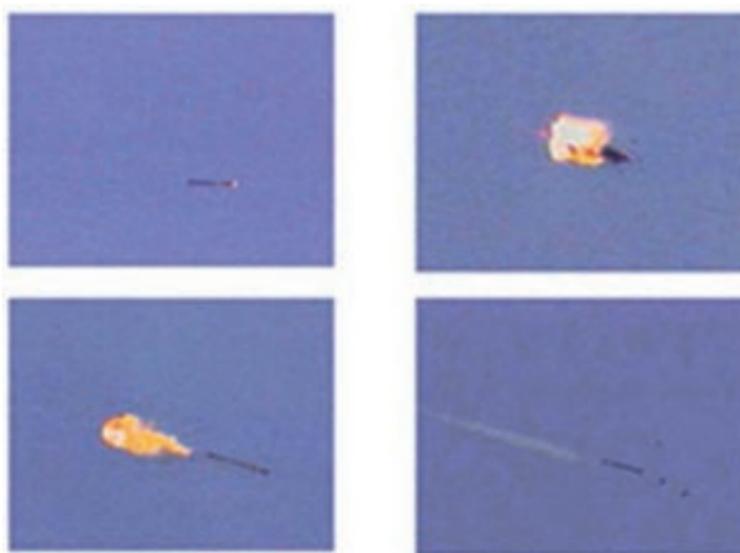
signed to negate the threat posed by Katyusha rockets to populated areas

Costello, Commanding General, U.S. Army Space and Missile De-

ergy weapon systems have the potential to play a significant role in defending U.S. national security interests worldwide. It also gives the Government of Israel an avenue for protecting its citizens actively and effectively against cross-border rocket attacks.”

In July 1996, the U.S. Department of Defense (DoD) and the Israeli Ministry of Defense (IMoD) signed a memorandum of agreement which spelled out the development and functional testing of a THEL demonstrator. The THEL consists of subsystems that include a laser, a pointer-tracker, a command, control, communications, and intelligence (C3I) center, and a fire control radar. TRW, Inc., is the prime contractor.

The U.S. Army Space and Missile Defense Command (SMDC) is the Department of Defense’s executive agent for the joint THEL/ACTD program.



in northern Israel.

“We’ve just turned science fiction into reality,” said Lt. Gen. John

Costello, Commanding General, U.S. Army Space and Missile Defense Command. “This compelling demonstration of THEL’s defensive capabilities proves that directed en-

New target... struts its stuff

by Jeff Compton
Huntsville, Ala.

The command’s newest strategic target showed off in late May and looked good doing it.

On May 28, 2000, the command successfully conducted the demonstration flight of the Orbital/Suborbital Program Target Launch Vehicle, from Vandenberg Air Force Base Calif.

The Ballistic Missile Targets Joint Project Office is the executing agent for all ballistic missile targets acquired for the Ballistic Missile Defense Organization. The Strategic Targets Product Office provides all strategic missile targets for BMDO’s National Missile Defense program.

The new target launch vehicle was developed to meet future integrated flight test requirements for national missile defense. The Target Launch Vehicle, or TLV, system consists of a front section atop a three-stage Minuteman II booster.

The front section is comprised of a clamshell shroud, which houses the target payload, the guidance control assembly module and a separation module. Orbital Sciences Corporation, under contract to the U.S. Air Force Space and Missile Systems Center, builds the front section and provides launch services for the Orbital/Suborbital Program mission.

Sandia National Laboratories builds the target payloads and the deployment rack. The payload for the demonstration mission consisted of a re-entry vehicle mass simulator, and instrumented medium balloon decoy, four canisterized medium balloon decoys, and a canisterized large balloon decoy. This payload was selected to provide traceability to previous national missile defense, or NMD, missions while flight-testing new technologies.

The OSP TLV demonstration flight was also being used as a risk reduction flight by NMD for its radars and battle management system elements. No intercept was attempted. In the demonstration flight, the OSP TLV was launched from Launch Facility 06 at Vandenberg Air Force Base, Calif., to a point in the broad ocean area north of SMDC’s Kwajalein Missile Range.

The re-entry vehicle mass simulator traveled over 4000 miles before burning up in the atmosphere upon re-entry. Some of SMDC’s sensors participating as part of the risk reduction flight were the Airborne Surveillance Testbed and Kwajalein Missile Range.

“Our joint team has worked extremely hard to get to this point and we look forward to NMD intercepting re-entry vehicles from our new launch system in the future,” said Lt. Col. Tom Harvill, product manager in Huntsville, Ala.



photo by Diana Helgesen

The new target launch vehicle blasts from Vandenberg Air Force Base silo #6 on its maiden flight across the Pacific ocean toward Kwajalein Missile Range.

Army birthday message from top leaders



At the dawn of a new century and a new millennium, we can look back with pride at The Army's 225 years of service to the nation. The birth of The Army in 1775 was the prelude to the birth of freedom the following year, when our nation was born. For over two centuries The Army courageously fought our country's wars and served honorably in peace. As we enter a new millennium, we can be proud of our history and of The Army's achievements. Thanks to American soldiers, freedom's light shines as a beacon throughout the world.

The Army has always had a non-negotiable contract with the American people to fight and win the



Louis Caldera
Secretary of the Army



Eric K. Shinseki
General, U.S. Army
Chief of Staff

Nation's wars. General Douglas MacArthur said it best in a 1962 address at the United States Military Academy: "Yours is the profession of arms, the will to win, the sure knowledge that in war there is no substitute for victory-and that if we fail, the Nation will be destroyed."

Today, victory has many faces, and each face reflects the accomplishments of the American Soldier.

Today's victories mean more than destroying an opponent. The face of victory in the 21st century is a child who can safely walk in a Balkan village square or go to school because American soldiers are there. It shines in the face of a victim of a mudslide in South America or a hurricane in Honduras, who can drink safe water because American soldiers are there.

The face of victory is also the face of an American soldier standing guard in Korea, whose presence keeps aggressors at bay.

The key to The Army's success is our flexibility and willingness to change, to meet the world as it is, without altering the core competencies that make The Army the best fighting force in the world. You are the best Army in the world.

As we undergo a dynamic transformation over the next decade, you will continue to be respected by allies, feared by opponents, and honored and esteemed by the American people.

Your courage, dedication to duty and selfless service to the Nation is the hallmark you, the soldiers of the United States Army, carry into the 21st century.

Louis Caldera
Secretary of the Army

Eric K. Shinseki
General, United States Army
Chief of Staff

Tilley chosen as 12th Army sergeant major



photo by Staff Sgt. Don Sparks

New Sergeant Major of the Army, Jack L. Tilley, served as SMDC's senior enlisted advisor during its transition to a Major Army Command in 1997.

Command Sgt. Maj. Jack L. Tilley has been selected to be the 12th sergeant major of the Army. Tilley was this command's senior enlisted advisor to the commanding general for a short tenure from July through December 1997. Secretary of the Army Louis Caldera and Army Chief of Staff Eric K. Shinseki announced his selection in May.

Since his departure from SMDC, Tilley has served as command sergeant major for U.S. Central Command at MacDill Air Force Base, Fla. He has 32 years of experience with the Army as

an armored cavalryman, including a combat tour in Vietnam.

"Command Sgt. Maj. Tilley is a great soldier. He has all the attributes any soldier would want the sergeant major of the Army to have," said SMDC's Command Sgt. Maj. Wilbur Adams. "First and foremost, he has experienced all the things that make a senior leader capable of mentoring future leaders.

"He is personable and approachable, making him a comfortable person to be around or want to be around," Adams said. "That's not always the

case with senior level officials."

Tilley will be sworn in June 23 after Sgt. Maj. of the Army Robert E. Hall retires. Hall has been sergeant major of the Army since October 1997. He was extended a year when Shinseki took office last June. Hall is retiring June 22, after 32 years of service.

"When you look to replace a great soldier like Bob Hall, you certainly would want someone of the same character and values, and we have that in Command Sgt. Maj. Tilley," Adams added.

As sergeant major of the Army, Tilley will serve as personal advisor to the Army chief of staff on all enlisted-related matters, particularly in areas affecting soldier training, noncommissioned officer leader development and soldier and family well-being.

The sergeant major of the Army devotes the majority of his time travelling throughout the Army observing training, and talking to soldiers and their families. He listens to their concerns and provides the chief of staff feedback and recommendations for the forces' well-being.

He also sits on a wide variety of councils and boards that make decisions affecting enlisted soldiers and their families and is routinely invited to testify before Congress.

Tilley entered the Army at Fort Lewis, Wash., in 1966. He served in Vietnam as an armor crewman and scout driver for A Troop, 1st Squadron, 4th Cavalry, in September 1971. Since then, he has served in every position from squad leader to command sergeant major of the 1st Armored Division. He also served as command sergeant major for Task Force Eagle in Bosnia-Herzegovina.

"He has the credibility needed for the job," Adams said. "He doesn't have to go out and prove himself to anyone because he's already an established and respected leader."

Tilley spent much of his career serving in Germany and Fort Knox, Ky. He served at Knox as tank commander, instructor, operations sergeant, battalion and later brigade command sergeant major with the 194th Separate Armored Brigade. He also served tours at Fort Polk, La.; Fort Lewis, Wash.; and Fort Benning, Ga.

His military schools include the Drill Sergeant School, Master Gunner Course, First Sergeant Course and the Sergeants Major School, where he graduated from Class 28 in 1987.

(Department of Army press release. LuAnne Fantasia contributed quotes.)

The Eagle ...

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Commander Lt. Gen. John Costello
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Command celebrates U.S. Army birthday

Lieutenant General John Costello (left), commanding general, U.S. Army Space and Missile Defense Command, is assisted by Command Sgt. Maj. Wilbur V. Adams, Jr., (right) as they add streamers to the Army Flag during a ceremony June 13 in Arlington, Va. The streamers were added in honor and commemoration of the U.S. Army's 225th Birthday. The ceremony was viewed via video-teleconference by Command audiences throughout the U.S. and overseas. Also assisting in the ceremony was Master Sgt. James Lussier (rear), of the Force Development and Integration Center.



photo by Steven K. Gover



courtesy photo

Approximately 35 officers, enlisted soldiers, spouses, youths, and civilian employees met at the command's first AFAP conference in April to evaluate quality of life issues with both command and Armywide impact.

'Soaring beyond our limits'

SMDC conducts 1st Family Action Plan conference

by Portia Davidson
Arlington, Va.

The command hosted its first Army Family Action Plan Planning and Training Conference in late April in Arlington, Va. The theme for the conference was *"Soaring beyond our limits."*

Congratulations to all the delegates and other attendees for their outstanding efforts in assisting the command in improving the quality of life for soldiers, family members, and civilian employees. Our gratitude is especially extended to those individuals who volunteered their logistical and service support to the conference.

As the wife of the commanding general, Micki Costello is the senior spouse advisor to the AFAP program. She said the command's first AFAP conference went extremely well.

"I was impressed that our delegates identified what I consider to be global issues, rather than only issues specific to SMDC," Mrs. Costello said.

"That's the purpose of the program--to identify Armywide concerns and needs. Others can sometimes be resolved at a more local level."

In his welcoming remarks, Lt. Gen. John Costello mentioned some of the major accomplishments of the command since the program was established here. He also welcomed subject matter experts from Department of Defense, Department of Army Headquarters, and other outside organizations.

The commanding general mentioned that this command has set precedence in obtaining the Secretary of the Army's approval for funding travel and per diem for family members to travel to the conference.

Approximately 35 command representatives met to evaluate soldier, family and civilian quality of life issues that were forwarded from their respective com-

mands. The 35 delegates—officers, enlisted soldiers, spouses, youth and civilians—were divided into three workgroups:

- Quality of Life and Soldier/Family Support Workgroup
- Civilian Personnel Workgroup
- Entitlements and Medical/Dental Workgroup

Prior to the conference, HQDA provided training for the appointed workgroup facilitators, transcribers, issue support personnel and the recorders. In addition, Sandy Vlcek, Army Family Action Plan Program Manager, presented an overview on the Army Family Action Plan Program and also provided extensive training to the delegates on the roles and responsibilities of the workgroups. Trish Brooks, Army Family Action Plan Issue Manager, provided training on issue development.

As a result of the three-day conference, the delegates raised a total of 16 issues. At a report-out session, the delegates were given the opportunity to listen to all the workgroup issues, and voted the top five issues for the command to be:

- Youth substance abuse
- Life insurance for military spouses
- Employee contributions to Thrift Savings Plan
- Constructive unaccompanied tour credit
- Child care

"I think the fact that a youth issue was voted our top concern says something about our command," Mrs. Costello said. We have some particular challenges because we have soldiers and family members in overseas areas with laws and standards that do not necessarily correspond with those in the United States."

There are a total of 66 Active Army Family Action Plan Issues. We asked the delegates at our conference

to tell leadership which of all the active issues in the Army Family Action Plan were considered to be the most critical.

- Install surveillance equipment in child development centers
- Treat active duty deaths as 100 percent disability retirement
- Establish TRICARE vision plan
- Revitalize and increase Army family housing
- Expand family dental plan
- Increase active duty numbers
- Authorize and establish tax-deferred 401K plan
- Increase basic housing allowance

All of the issues raised at the conference will be published in Volume 1 of the U.S. Space and Missile Defense Command Army Family Action Plan, which will include a status of all the issues listed as "active", "completed", or "unattainable" due to resource requirements, political impact, etc.

A listing of those issues forwarded to Department of Army will also be included in the publication. Information papers will be attached to each issue including a milestone timeline for accomplishing the recommendations raised. Conference delegates prepared disposition papers for the issues returned to the major subordinate elements of the command that did not merit major Army command-level attention. Explanations for returning these issues will also be included in the publication.

(Davidson is the manager of the command's Army Family Action Plan Program. LuAnne Fantasia contributed quotes to this article.)

New National Missile Defense Systems Manager assigned

Army War College graduate assumes role

Story & photos by Marco Morales
Huntsville, Ala.

A combined promotion ceremony and change of manager was conducted June 2 at the conference room of the U.S. Army Space and Missile Defense Command (SMDC) headquarters in Arlington, Va.

The ceremony, conducted by Lt. Gen. John Costello, commanding general of SMDC, was broadcast live via video teleconference to Huntsville, Ala., Colorado Springs, Colo., and White Sands Missile Range, N.M., as the National Missile Defense TRADOC Systems Manager (NMD TSM) guidon was exchanged, passing from Command Sgt. Maj. Wilbur V. Adams, Jr., to Col. Ronald E. Ouellette to Gen. Costello to Col. Jeffrey C. Horne, who assumed his new role as the NMD TSM.

The position of NMD TSM had been a dual-hatted one for Ouellette since last November. Ouellette also serves as SMDC's deputy chief of staff for strategic planning and analysis and will re-assume that fulltime role.

As part of the ceremony, Horne was officially promoted to colonel as his two daughters, Jennifer and Lindsey, placed "full bird" rank insignia onto his epaulets. In the meantime, his son Alexander pinned the eagle rank onto his dad's garrison cap. Also attending the ceremony was Horne's wife Terri.

One set of rank insignia was donated by Brig. Gen. John Urias, Program Executive Officer, Air and Missile Defense. Horne served with Urias as the battalion executive officer, 2nd Battalion, 44th ADA, 101st Airborne (Air Assault) Division, Fort Campbell, Ky.

Horne's new duties as the NMD TSM include managing system requirements and collating their issues throughout the joint community.

He will also ensure the right solutions are made for all NMD doctrine, training, logistics, organization, materiel, and soldier activities provided by a wide variety of force developers, defense contractors, and the Joint Program Office.

Horne is a native of Columbus, Ohio. He graduated from Ohio State University and earned a bachelor of science degree in marketing and economics in 1980 and was commissioned as a second lieutenant of air defense artillery.

He graduated from the Naval Post Graduate School in 1989 and earned a master of science degree in computer science and

electrical engineering. He is also a graduate of the U.S. Army Command and General Staff College.

Having held various leadership positions throughout his 20-year career, Horne's most recent assignments include serving as commander, 1st Battalion, 62nd Air Defense Artillery, 25th Infantry Division (Light), and assistant executive officer and chief of operations for the deputy commanding general (Futures), Training and Doctrine Command, Fort Monroe, Va. He graduated from the Army War College this month.

During the ceremony, General Costello commented on Horne's promotion to colonel.

"As you get further up the grades, you are called upon to have a great degree of performance and potential in your career. So, to get promoted from captain to major, you need a lot of talent and a little bit of luck. To get promoted from major to lieutenant colonel, you need a lot of talent and a little more luck. And, to get promoted from lieutenant colonel to colonel, you need a lot of talent and a lot of luck..."

"After that, it's all luck and no talent," Costello said as the audience laughed.

On a more serious note, Costello spoke of Horne's proven leadership capabilities.

"Colonel Horne is eminently qualified to assume not only the grade of colonel in the United States Army, but to assume leadership of the National Missile Defense TRADOC System Manager's office," Costello said. "The Army reached down and picked Jeff Horne to fill this extremely important job and position. It is an extremely important job for our nation."

"If I asked him would he rather be commanding soldiers out in the field, the answer would be 'absolutely,'" Costello said. "But when the nation asks for a leader in a key position, the answer is a smart salute and to say 'yes' to your mother Army. And that's what colonel Horne did."

"I've always tried to balance the three families that we have in the military and all of you have them too in your own form," Horne said, referring to an analogy that has helped strengthen his career.

"The first one for me is my God and my church. If it weren't for them, there's no way we could get anywhere in this world and I thank Him [God] for that."

The second one is my military family and I look over here and see stripes on shoulders and, I gotta tell you, everything that's good in the Army comes from those stripes. Soldiers are the ones who got me here."

Horne then turned to his wife and children and offered the following.

"My third family is standing here next to me and the word that describes them best is perseverance. These guys that you see here have stuck to a lot more thin than thick and sometimes I look back and wonder how Jennifer graduated from high school."



Speaking like a proud father, he announced that Jennifer, his oldest daughter, recently earned a four-year scholarship to the U.S. Air Force Academy.

His second daughter Lindsey, a freshman in high school, won a state championship and set a state record in a swimming competition.

In closing his remarks, he acknowledged Gen. Urias for being a mentor.

"I thank General Urias, the guy who taught me about the word 'we.' And that might sound like a simple thing but that's the one thing I can attribute to what little bit of success I've had in the last ten years, more than anything else," Horne said.

"When you look through this command — all of the strategic planning seminars that I've sat through — one thing that comes across through more than anything else is about how you guys are trying to pull the team work thing together," he added.

"That's what made my battalion run. That's what makes the Army run. That's why we serve our country."

((above) Lt. Gen. John Costello pins on colonel's rank insignia. Col. Jeffrey C. Horne, Headquarters, U.S. Army Space and Missile Defense Command (right), wife Terri.

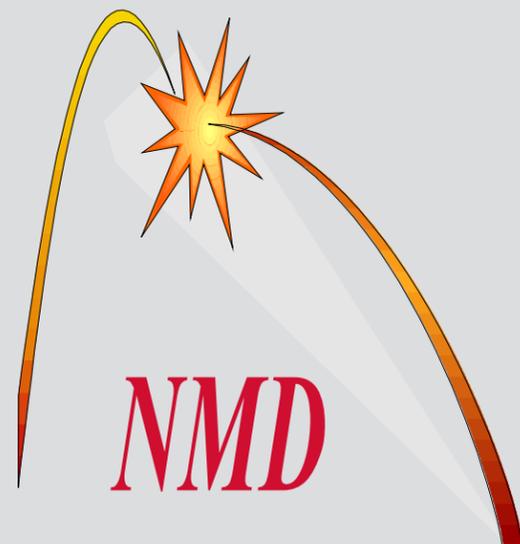
Defense TRADOC Assigned to SMDC *Assumes new role, rank*



Lt. Gen. John Costello (left), commanding general, SMDC, pins colonel insignia on the shoulder epaulet of newly promoted Col. Jeffrey C. Horne (center), during a ceremony held at SMDC Headquarters June 2. Assisting in the ceremony is Mrs. Terri Horne, wife of Col. Horne.



(right) Lt. Gen. John Costello (right), commanding general, SMDC, passes the National Missile Defense TRADOC Systems Manager guidon to Col. Jeffrey C. Horne (left), during a ceremony held June 2 at SMDC's Headquarters in Arlington, Va. The position of NMD TSM had been held by Col. Ronald E. Ouellette (shown to right of Gen. Costello) since November last year. Also participating in the guidon exchange is Command Sgt. Maj. Wilbur V. Adams, Jr. (standing at rear).



TRADOC System Manager

About the National Missile Defense TRADOC Systems Manager Office

On Aug. 2, 1999, Gen. John N. Abrams, then commanding general of the U.S. Army Training and Doctrine Command (TRADOC), approved the charter of the National Missile Defense TRADOC Systems Manager Office (NMD TSM).

The charter authorized the new agency to act as the Army's representative, manager, and integrator for the entire spectrum of doctrine, training, leader development, organizational, materiel, and soldier products (DTLOMS) associated with the land-based NMD system. To meet this mission, the Army assigned the NMD TSM to the Space and Missile Defense Command.

The guiding force behind the NMD TSM was and continues to be Lt. Gen. John Costello, commanding general of SMDC, who pressed for its creation in the summer of 1999, shortly before the Army became the lead service for NMD. The original concept for system managers arose from efforts by TRADOC in the 1970s to develop a total approach to combat development. System managers integrate and organize the development process for all major weapon and materiel systems.

In its brief history, the NMD TSM has pursued two main objectives, as part of the command's strategic goal to protect the nation with a credible NMD system. The first was to pursue aggressively the command's role as the Army proponent for NMD within the Army and the joint community, mainly by co-developing NMD planning documents. The second objective involved carrying out the Army's mission to field, operate, and sustain the components of NMD by seeking to identify, synchronize, and execute the requirements for such a system. To obtain these aims, the NMD TSM has strived to fund and staff the office to fulfill all aspects of its mission.



Elaine Holland (left) and Brigitte Kennedy prepare refreshments for a youth sports team from Ebeye. The women open up their homes to children participating in Kwajalein sports throughout the year

Story and photos by Gwyne Copeland
Kwajalein Hourglass

Elaine Holland races around her kitchen pouring root beer floats and making sure the pizza is hot. She has dinner guests from Ebeye. Eight girls' soccer players and their coaches from Queen of Peace High School will be coming through her door any minute.

"I'm the kind of mother who likes to feed people," Holland said. "That's what they need."

The students left home at 7 a.m. They won't be home again until at least 8 p.m. It's hot, they're tired and they still have a soccer game to play.

Unlike their opponents, these students can't stop at home for a cold drink and a healthy snack before their game starts at 5:15 p.m. Instead, they rely on the kindness of Kwaj residents.

"It means a lot. I think they are generous people. It helps our game a lot to be filled before playing," Christina DeBrum said.

Holland is just one of many people on Kwaj who pre-

pare snacks or meals for girls' and boys' teams throughout the school year.

"I just love them; they're so sweet and grateful," Holland said

Brigitte Kennedy fed the girls' softball team last season and coordinated meals for the boys' team.

"You do what you can. When you think about how much we have and how little they have," Kennedy said during a recent interview.

(See 'Residents,' on page 7)

Residents open hearts...

&

kitchens to Ebeye kids

College student finds new species of fish at Kwaj



Not just another fish story...

Story and photos by Barbara Johnson
Kwajalein Hourglass

When Brian Greene submerged into the ocean with his friend and dad about a year ago, he had no idea that particular dive would turn out to be one of a kind. The University of Hawaii freshman, home for spring break, had already logged in some 2,000 dives at Kwaj, so he thought he knew what to expect.

But, as it turned out, this was the dive that fulfilled his lifelong goal — discovering a new fish.

"Ever since I was a little kid, it has always been my dream to find a new species of fish," Greene said.

He and his dive buddies were diving at about 90 to 100 feet oceanside, between SAR pass and Kwaj.

"I saw the fish out of the corner of my eye, and I just knew it was something

(See 'Fish,' on page 7)

Brian Greene, a Kwajalein resident for 18 years, now studies marine biology at the University of Hawaii. He found this fish, believed to be a new species, near Kwajalein. If it is a new species, it will be called *Pseudanthias greenei*, in his honor.

Kwajalein



Girls on the Queen of Peace soccer team enjoy some pizza and other refreshments at Elaine Holland's house before a game. Youth teams from Ebeye generally have no place to go before they play sports.

Residents

(continued from page 6)

Eric Graham is the team's coach. He said he appreciates the women who open their homes and hearts to his students.

"It's probably the best part of the experience. The girls have a lot of fun playing soccer, but seeing that they're fed everyday is the best for me," he said.

The students have a long day when they come to Kwaj. With only a small meal of rice and corned beef or

tuna for lunch, they need to eat before playing.

Over the years many people have helped feed the students. But according to Kennedy, the volunteers need help.

"It could be as little as donating \$5 or \$10," Kennedy said, adding people don't have to make an entire meal. Children would also appreciate a bag of oranges or a plate of cookies, as well.

"These kids don't have parents at the games to provide a snack," Kennedy noted.



Fish

(continued from page 6)

[different]," Greene said, recounting his experience recently.

"I saw four others, but I could only catch one."

He took the fish home to his aquarium, took pictures of it, and looked in every fish book he could find. But the fish, similar to a fairy basslet, was not in any of the books.

Greene said the fish, a member of the genus *Pseudanthias*, is related to a grouper, but tends to swim above the reef and eat plankton.

These fish swim in groups, called aggregations, usually with a dominant male. Because the fish he caught was more colorful than the others in its group, with beautiful oranges and pinks, Greene believes it was the male.

"I've been back to the same location about 50 times," he said, "but I never have seen it again."

Greene's next step was to take his pictures to Dr. John Randall, ichthyologist at the Bishop Museum in Honolulu, who confirmed that it was likely a new species.

When Greene returned to Kwaj for the summer, he preserved the fish and took it back with

him to the Bishop Museum, where it now is among a library of fishes in the ichthyology department, while it is being studied.

Randall is currently writing a paper describing five new anthias species, and when it is published, Greene's fish will be named *Pseudanthias greenei*.

Greene said there are a number of ways to confirm that a fish is unique. Among them are observing its color, which varies by location, temperature, and age; measuring its body parts; X-raying and measuring its bone structure; and genetic testing.

Greene has lived at Kwaj since he was six months old. He started snorkeling at two, and was scuba-certified at 12. His family has always had aquariums.

After finishing his degree in marine biology, Greene hopes to continue with advanced degrees in ichthyology. His ideal job would be taking new fish specimens and describing them.

While the thrill of finding his first new fish may be hard to top, who knows how many more are out there waiting for him.

Dome-sweet-dome anyone?

by Gwyne Copeland
Kwajalein Hourglass

The dome houses going in on Ocean Road on Kwajalein are a little difficult to describe — a tad futuristic, perhaps. But Boeing/LSI is certain the houses will be nothing less than home, sweet home for 15 families set to move in Sept. 1.

A 16-man crew from Domes International, of Golden, Miss., supplemented by seven Marshallese workers, has already bolted eight of the 15 domes onto their foundations.

Unseen from the street, workers are laying pipe and wire inside. The next step is pouring a cement slab for the floor.

Meantime, Dick Pacific Construction Co. is pouring ring foundations and doing site preparation for the rest of the 15 units. That should be complete by the end of the month.

Once the shells are in place, crews will go to work on the interiors.

The finished houses will measure 1,400 square feet, with three bedrooms and two baths. Compare that with trailers, which measure about 642 square feet, and 400-series, two-bedroom housing, at 945 square feet.

"They feel more open and spacious with the 10-foot ceilings, and with the curved walls, there's no wasted space," said Lewis Rowe, Boeing construction and logistics site lead.

The domes feature an open floor plan in the living room, kitchen, and dining area.

According to Scotty Monroe of Domes International, the units will have all the amenities you'd expect, including telephone jacks in all three bedrooms and three more in the living area. The living area also includes a computer workstation.

When families move in, they'll have the same appliances found in other Kwaj hard housing, including a dishwasher and upright freezer.

The kitchen and bathrooms will have vinyl flooring. Living room and bedrooms will have berber carpet.

Domes International crews will build the interior partition walls on-site from wooden studs and drywall. They'll be painted antique white, with white doors.

The dome may take a little getting used to, but Boeing/LSI wanted the houses to be essentially maintenance free.

"We envision the exteriors will be pressure washed with a hot wax once a year," Rowe said.

Not only are they low-maintenance, but the homes are built to withstand severe tropical weather.

"In Vero Beach, Fla., we had a dome withstand three or four hurricanes," Monroe said.

"The worst was Opal. An 18-foot tidal surge went over the top of the dome. The only place water came in was through a dryer vent. They cleaned that up with a couple of bath towels."

Despite what seem to be thin exterior fiberglass walls, Joe Mayhall said the homes are very quiet. "You'll hear the pitter-patter of rain, but because of the insulation and curved roof, it's not going to be as loud as a flat-roofed house or trailer," Mayhall said. He is the project manager for the Boeing temporary accompanied living quarters.

The homes will be finished with a 10-foot by 21-foot fenced and covered patio, and each unit will also get a 6-foot by 6-foot storage shed.

Mayhall said he plans to get one of the units finished as soon as possible. Boeing would like to have an open house so the community can take a look inside one of the units.

Domes International has been building dome homes for more than 20 years. It has 300 dome homes throughout the world including Turkey, the Dominican Republic, India, Japan, and Haiti.



Survey says...

Dear Readers,

We want to know what you think about *The Eagle*. Please take a few minutes to complete the following reader questionnaire. Circle the letter to indicate your response for each question. Unless stated otherwise, circle or write only one response for each question or sub-item of a question.

Thank you for your input.

1. About how many monthly issues of *The Eagle* have you read in the last year?

- a. None
- b. 1-4
- c. 4-8
- d. All

2. How much of each issue of *The Eagle* do you usually read?

- a. All or almost all of it
- b. Quite a bit
- c. Some
- d. A little
- e. Almost none of it

3. How do you usually obtain a copy of *The Eagle*?

- a. Nearby distribution stand
- b. Unit or office distribution
- c. Through U.S. Mail delivery at home
- d. Through U.S. Mail delivery at office.
- e. Other (please specify)

4. To what extent do you find *The Eagle* as a reliable source of news

about what is going on in the command?

- a. To a great extent
- b. Moderate extent
- c. Slight extent
- d. Not at all

5. How do you feel about the amount of coverage in *The Eagle*, given to the following topics?

- + too much coverage
- o about right
- = not enough coverage

- 5.1 Awards and ceremonies
- 5.2 Current affairs in the civilian service
- 5.3 Editorials and commentaries
- 5.4 General features about people
- 5.5 Command events
- 5.6 Military news
- 5.7 Sports
- 5.8 Current events issues
- 5.9 Travel

6. To what extent do you agree with the following descriptions of the content of *The Eagle*?

- + agree
- o neither agree nor disagree
- = disagree

- 6.1 Easy to read
- 6.2 Easy to understand
- 6.3 Fair and accurate
- 6.4 Interesting
- 6.5 Provides useful information
- 6.6 Source of new ideas
- 6.7 Stimulating; makes you think
- 6.8 Timely; up to date
- 6.9 Well written

7. How do you rate the following aspects of *The Eagle*'s appearance?

- + good
- o fair
- = poor

- 7.1 Layout and design
- 7.2 Photography
- 7.3 Quality of printing
- 7.4 Readability of the print/type used
- 7.5 Use of color
- 7.6 Overall appearance

8. Overall, how would you rate the content and appearance of *The Eagle*?

- a. Good
- b. Fair
- c. Poor

9. Your gender

- a. Male
- b. Female

10. Your age

- a. Under 20
- b. 20 – 24
- c. 25 – 29
- d. 30 – 39
- e. 40 – 49
- f. 50 or over

11. Your highest level of education

- a. High school or equivalent
- b. Some college, no degree
- c. Associate degree or vocational license
- d. Bachelor's degree
- e. Graduate or professional degree

12. Your current status

- a. Member of U.S. Armed Forces
- b. DA Civilian employee
- c. Family member of U.S. service member.
- d. Family member of DA civilian employee
- e. Contractor
- f. Family member of contractor
- g. Other (please specify) _____

13. Service with which you are affiliated

- a. Army
- b. Air Force
- c. Navy

- d. Marines
- e. Other (please specify)

14. Pay grade or your spouse's pay grade

- a. Warrant Officer – Chief Warrant Officer
- b. 0-1 thru 0-3
- c. 0-4 thru 0-6
- d. 0-7 thru 010
- e. E-1 thru E-4
- f. E-5 thru E-6
- g. E-7 thru E-9
- h. GS-8 or lower
- i. GS-9 thru GS-12
- j. GS/GM-13 thru GS/GM-15
- k. Other (please specify)

15. Please provide any additional comments you may have.

16. If you receive your copy of *The Eagle* in the mail and if we need to correct your mailing address, please provide it below.

Thank you for completing the questionnaire. Please either bring your response(s) to the U.S. Army Space and Missile Defense Command Public Affairs Office in Huntsville, or mail to: U.S. Army Space & Missile Defense Command, Attn: Public Affairs (*The Eagle*), P.O. Box 1500, Huntsville, Ala., 35807-3801.

For any additional questions or comments, call William Congo, (256) 955-2171 or DSN 645-2171. Fax number is (256) 955-1214 or DSN 645-1214. Thank you.

Army Reserve components, Army Space Command team up

by Ed White
Colorado Springs, Colo.

"October will usher in a new era of cooperation between the active Army and the Army National Guard and Reserve," said Lt. Gen. John Costello, commanding general at the U.S. Army Space and Missile Defense Command.

Army guard and reserve personnel begin making Army history in October when they start drilling with the U.S. Army Space Command here.

"I'm absolutely thrilled with this latest development in the evolution of space within the Army," Costello said. "I look forward to growing together as demands in space increase in the future."

Reserve Forces support to the U.S. Army Space Command will be provided by both individual mobili-

zation augmentees assigned to the Army Reserve and by guardsmen assigned to the Colorado Army National Guard.

"The Army Reserve and the Colorado National Guard have each committed to manning two six-person Army Space Support Teams, for a total of 24 people," said Maj. George Anton, Force Development officer at Army Space Command. "In October they'll begin a training program that may take up to two years, which is designed to enable them to effectively augment any of the five active-duty teams already in existence."

"The mission of [the space support teams] is to provide or coordinate force enhancement from space for Army units," said Maj. Donald Snow, commander of the 1st Space Battalion's Army Space Support Company. "Army space support teams are capable of rapidly deploying and using the latest technology to provide a full range of space products and operational support to Army units worldwide."

"The Guard has also signed up to provide a total of 15 additional people to support U.S. Army Space Command," Anton said. The additional people will support information operations activities at the Army Space Command's 1st Space Battalion's Mobile Technology Team, as well as operations of its 1st Satellite Control Battalion.

"These additional missions are of particular interest to the Guard because they position the Guard to be part of the growing activities in these fields," Anton said.

"The Colorado Army National Guard is excited to be part of the Army Space Team," said Maj. Gen. Roger Schultz, director of Colorado's Army National Guard. "We look forward to doing our part to usher in this new era of cooperation and to growing together in the future."