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THE ROCKETEER

NAVAL AIR WEAPONS STATION, CHINA LAKE

THURSDAY, JANUARY 23, 1992

China Lakers invited to final NWC party

Current and past members of the China Lake family are invited to a final Naval Weapons Center party on Friday, Jan. 31 in Joshua Hall. This is an occasion to bid farewell to NWC and welcome the start of a new era and a new beginning for the Navy at China Lake.

The evening begins with food and a no-host bar at 6 p.m. At 7 p.m., the event takes on a more serious tone with a slide and video presentation of important events in the history of NWC. China Lake departments and individuals contributed to the presentation to show how NWC's reputation for excellence and innovation were shaped.

Wrapping up the evening will be dancing to music provided by *Soundwaves*, and Ted Lemon as D.J. This starts at about 8:30 p.m.

Captain Robert Kapernick headed the committee planning this party. He notes it is for everyone who has been a part of the China Lake community over the years. This includes active duty and retired military members, current and past civilian employees, contractors and spouses.

Tickets are \$6 per person. They are available from China Lake department offices, the Exhibit and Conference Center and the Public Affairs Office in Room 2029 of the Administration Building. Tickets will also be sold at the door on Jan. 31.

NWC's Desert Storm role explained

By Matt Anderson
Code 36

(EDITOR'S NOTE: This is the final, part of a series on China Lake contributions to Operation Desert Storm and Desert Shield, originally written for the Defense Systems Management College.)

The Navy's MK-80 series general purpose bombs are not quite as glamorous as some of the precision guided weapons used in Desert Storm. Please see **DESERT STORM** Page 8

Commanding Officer's Desktop

Captain Craig looks forward to a rewarding tour as the first Skipper of the Naval Air Weapons Station, China Lake

2

Wellness Column

Advice on how to quit smoking

12

The Weather Report

Increasing clouds on Friday with more cold and wet weather in the next several days.

	Max.	Min.	Gusts	Precip.
Wed	61	25	5	-
Thurs	63	26	6	-
Fri	62	24	6	-
Sat	65	31	13	-
Sun	64	31	11	-
Mon	64	23	6	-
Tues	67	23	5	-



China Lake Sports Abound

Spring soccer league sign-up time starts next month

17

Editor's Note

Explore the Computer Twilight Zone with Barry McDonald

16



NEW COMMAND — As the Naval Air Weapons Station, China Lake, formally stood up yesterday, ceremonies marked the occasion. Taking part were, from left, LCDr. Tony Casimano, RAdm. W.E. Newman, VAdm. W.C. Bowes, Capt. D.W. Cook, RAdm. G.H. Strohsahl Jr. and Capt. B.J. Craig Jr.

Consolidation from the inside

Former DNL Gerry Schiefer talks about his role in Navy reorganization—the role that earned him the Navy Distinguished Civilian Service Award

By Barry McDonald
Editor

With establishment of the Naval Air Weapons Station (NAWS), China Lake, yesterday, many are still pondering the coming changes and where they'll be when the dust settles. One veteran China Laker, recently described as "a principal architect" of the Navy's research, development, test and evaluation (RDT&E) consolidation plan, has a firm grip on where he'll be. Gerry Schiefer is putting final organizational touches on the Aircraft Weapons Systems Directorate, which he heads in the Naval Air Warfare Center-Weapons Division (NAWC-WPNS).

Technical director of the then Naval Weapons Center (NWC) from May 1986 to October 1989, Schiefer had

been deputy commander, Space and Naval Warfare Systems Command (SPAWAR) and Director of Navy Laboratories (DNL) since leaving the technical director post. He was responsible for managing all of the Navy R&D centers, nine SPAWAR engineering centers and four university labs.

He received the "principal architect" characterization from Secretary of the Navy H. Lawrence Garrett III in the citation accompanying the Navy Distinguished Civilian Service Award presented to him last December. It was presented by Genie McBurnett, principal deputy to the Assistant Secretary of the Navy (ASN) for Research, Development and Acquisition (RD&A) at a farewell luncheon sponsored by RAdm. Robert Ailes, SPAWAR Commander.

Garrett's citation, attached

to the highest award the Navy can bestow upon a civilian employee, read in part, "In every capacity throughout his Navy career, Mr. Schiefer has demonstrated extraordinary achievement, both in terms of exceptional technical accomplishment and of managerial and executive leadership, for which he is recognized throughout the Defense Establishment."

"I didn't go back there for glory or ego," Schiefer said of his tour as DNL, downplaying the award. "I went because we needed help in combat."

He had turned down the DNL position several times. But, because of defense budget cuts, then SPAWAR Commander, RAdm. John Weaver convinced him he was the person to best represent the R&D community in the inevitable

Please see **SCHIEFER** Page 6

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 BUSINESS.....25
 SERVICES.....30
 AUTOMOTIVE.....35
 MISC. FOR SALE.....40
 GARAGE SALES.....45
 PETS & SUPPLIES.....50
 REAL ESTATE.....55

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1BR, \$345/MO. Excellent area. Good neighbors, great cond. Can furnish. ERA Vaughn Realty, 446-6561.

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20 RENTALS

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25 BUSINESS

WANT TO EXPAND YOUR INCOME to match your dreams? Call eves 446-6638.

30 SERVICES

WORKING WOMEN - Not enough time to clean your bathroom thoroughly? Call for free estimate. 375-3520.

35 AUTOMOTIVE

1984 TOYOTA TRUCK EXTRA CAB - 5 speed, PS, A/C, camper shell w/carpet kit. Fully custom, lots of extras. Must see to appreciate. \$4,500 OBO. 446-5803.

60 FORD 2 DOOR SEDAN - Runs, as is \$400 OBO. Call 371-7513.

1978 DODGE 1/2 TON - 360, 4WD Power Wagon. Recent heavy duty cooling. Many new parts. New front brakes. We out grew it; must sell. \$2995. 375-6161.

20 RENTALS

CHROME ROLL BAR, \$80. Bucket seats, \$50. Both fit 1967-72 full size GMC-Chev. GE Heavy duty 18 washer, \$80. Small exercise bicycle, \$35. 446-2890 after 5pm, or lv. msg.

35 AUTOMOTIVE

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73 FORD - Good work car, needs some work. \$400 OBO. 446-6373.

83 NISSAN STANZA - Asking \$1900 OBO. Pat or Bill, 446-5101.

87 CADILLAC SEVILLE - Loaded, low mileage. \$10,500 OBO. 446-6966 eves and weekends.

88 CHEVY CAVALIER - 2 door Coupe, 4 cylinder, 5 speed, \$6,000 or \$1,000 & payments. 446-7172.

88 CHEVY CAVALIER - 2 door Coupe, 4 cylinder, 5 speed, \$6,000 or \$1,000 & payments. 446-7172.

89 DODGE DYNASTY - 4 door, PW, PL, low mileage. For more info call 446-3820.

89 ISUZU AMIGO 4X4 - Red, loaded, 39,000 miles. \$11,000. 446-7895.

89 MR2 - Red, 5 speed, A/C, AM/FM/CASS, grill & wing. \$9,000. Have baby, must sell. 446-9132.

40 MISC. FOR SALE

WARD'S SIGNATURE MICROWAVE, large capacity, \$50 OBO. 371-1882, lv msg.

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40 MISC. FOR SALE

CARPET FOR SALE - Approx 15x17, \$35 OBO. Approx 12x12, \$35 OBO. Pat or Bill, 446-5101.

FOR SALE - Exercise rowing machine. Excellent condition. \$20. 384-4910.

FOR SALE - Portable Singer sewing machine, \$50. Misc. baby items. 446-9633 after 5pm.

MICROWAVE OVEN, \$45. 377-3111.

SOFA & LOVE SEAT - Royal blue w/wood trimming. Must sell. \$500 OBO. 446-6374 after 4pm. ask for Linda.

TANDEM BICYCLE BUILT FOR TWO. After 5pm, 371-2186.

TARUS 357 MAGNUM - Holster, carrying case and carrying bag. \$150. 446-0759.

TEAKWOOD STEREO CABINET, \$800 OBO. Gulbransen Electric Organ w/maple cabinet, \$500 OBO. Dresses from Singapor. Velvet jackets from Pakestan. Roller blades, kids size 4, \$25. Hot Lixx Guitar, \$30. Japanese Tea Set, \$50. Call 371-3545.

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MILITARY NEWS



Capt. B.J. Craig

Craig becomes inaugural Commanding Officer of NAWS, China Lake

Captain "B. J." Craig, who became the first commanding officer of the Naval Air Weapons Station, China Lake, yesterday, is a native of Baytown, Texas. He entered the Navy through the Naval Aviation Cadet Program in 1966, and earned his commission as an ensign and received his wings in 1967.

Capt. Craig's first duty assignment was to VF-124. He completed initial Fleet Replacement Pilot (RAG) training in the F-8 Crusader and then reported to VF-191 aboard USS Oriskany (CVA 34) in 1968. He completed two combat deployments to Southeast Asia, and in 1970 reported to VT-23 in Kingsville, Texas, as an advanced flight training instructor pilot. During this tour, he earned a B.A. degree from the University of Texas A&I, with a major in business management.

In 1973 Capt. Craig reported to VF-121 for RAG training in the F-4 Phantom, and then reported to VF-114 aboard USS Kitty Hawk (CV 63). Following two deployments to Southeast Asia, he was ordered to pilot exchange duty with the Air Force 61st Tactical Fighter Squadron, MacDill Air Force Base, Tampa, Florida.

In 1978 he was assigned to the Armed Forces Staff College, Norfolk, Virginia, where he studied joint service operations. He next reported to VF-31 aboard USS Saratoga (CVA 60), deploying to the Mediterranean Sea.

Capt. Craig was assigned to the staff of the Commander, Fighter Airborne Early Warning Wings, Pacific, as fighter operations officer in 1980. He next assumed command of Naval Air Facility, Diego Garcia, in the British Indian Ocean Territories. In 1984 he reported to VT-25 in Beeville, Texas, and assumed command of the squadron in 1985. Capt. Craig

Please see CRAIG Page 4

Chief Charles R. Shannon retires after serving twenty years in Air Force and Navy

Leaving the Air Force as a staff sergeant after seven years, Charles R. Shannon was a civilian for eight months before joining the Navy in 1978, and on Jan. 10, Chief Shannon became a civilian again. Retirement after a total of 20 years in both services automatically transferred the chief aviation structural mechanic to the fleet reserves. After ten more years he'll be permanently retired.

After avionics/electronics technician "A" school, Shannon served with two squadrons (VA-27 and VA-147) and the Aircraft Intermediate Maintenance Department (AIMD) at

Naval Air Station, Lemoore, before coming to China Lake in December 1988.

He served here as Aircraft Division officer, AIMD production control chief petty officer, AIMD officer and AIMD chief petty officer. Among other awards he has been decorated with the Navy Achievement Medal and the Meritorious Unit Commendation with one bronze star.

In commending AMSC Shannon on his work at the Naval Air Weapons Station, China Lake, Capt. Douglas W. Cook, Vice Commander, Naval Air Warfare Center—Weapons Division, said "Your selfless

efforts have led to many improvements to AIMD work-center programs and have resulted in the high degree of maintenance production and quality workmanship enjoyed by the division, thus enhancing aircraft mission capability. Your positive attitude and diplomatic leadership skills have greatly enhanced communications and understanding with the military and civilian workforce."

Chief Shannon was piped over at the Seafarer Club, where his wife, Angie, is head waitress. The Shannons have two children, Jennifer and Jason.



RETIREMENT RITES for AMSC Charles Shannon were held in the Seafarer Club, where wife Angie is head waitress.

DoD drug survey being conducted through May

Washington (NNS) -- A department-wide survey of substance abuse and health behavioral patterns of approximately 7,000 active duty military personnel is being conducted through May 1992 by the Department of Defense (assistant secretary of defense for health affairs).

The purpose of the survey is to provide detailed estimates of the prevalence and negative consequences of alcohol, drug and tobacco use as well as to examine knowledge of HIV, gambling and health behavior as it relates to fitness, nutrition and hypertension.

On site Research Triangle Institute (RTI) survey teams will administer the questionnaires to randomly chosen personnel. Maximum participation by selected personnel is a must to ensure the survey's success. For additional information, contact Dr. David Blank, Navy Drug and Alcohol Program Division, (A) 224-8008, (C) (703) 614-8008.

Navy, Marine Corps members are eligible for Service Medals

Washington (NNS)—All Navy and Marine Corps personnel serving on active duty, as well as members of the reserve and National Guard who were part of the selected reserve in good standing during the period Aug. 2, 1991 to a date to be determined, are eligible for the National Defense Service Medal (NDSM).

For personnel previously awarded a NDSM, a bronze star shall be worn on the medal ribbon bar to denote the subsequent award. Commands may order the medals through the supply system under NSN 8455-00281-3214.

CRAIG from Page 3

and assumed command of the squadron in 1985.

Capt. Craig was then assigned to USS Midway (CVA 41), home ported in Yokosuka, Japan, as air officer. During this tour, he participated in extended deployments to the North Arabian Sea in support of Persian Gulf operations and to the Sea of Japan in support of the 1988 Olympic Games held in Seoul, Korea.

His next assignment was with the Chief of Naval Operations in Washington, D.C., where he was assigned to the staff of the Director, Research and Development Requirements, Test and Evaluation (OP-098), as head, Air Superiority Branch.

Capt. Craig reported to the Naval

Weapons Center, China Lake, as deputy test and evaluation director, head, Aircraft Department, in August 1990. On Sept. 23, 1991, he assumed additional responsibilities at NWC as Chief Staff Officer.

Capt. Craig's decorations include the Meritorious Service Medal (four awards), six Air Medals, the Navy Commendation Medal, the Meritorious Unit Commendation (five awards), and various campaign ribbons.

Capt. Craig is married to the former Laura Ann daCosta of Bethesda, Maryland. They have three children: Eric, Collette and Adam.

Chapel Call

By Lt. Gerald L. Goodman, CHC, USNR
Assistant Command Chaplain



Uniqueness

Once a little boy went to school. One morning when the little boy had been in school for awhile, the teacher said, "Today we are going to make a picture."

"Good," thought the little boy. He liked to make pictures. He could make lions and tigers and trains and boats. He took out his crayons and began to draw.

But the teacher said, "Wait. It's not time to begin," and she waited until everyone looked ready.

"Now," said the teacher, "we are going to make flowers."

"Good," thought the little boy, and he began to make beautiful flowers with his orange and pink and blue crayons.

But the teacher said, "Wait." She drew a flower on the blackboard. It was red with a green stem. "There, now you may begin."

The little boy looked at the teacher's flower. He liked his better, but he did not say this. He just turned his paper over and made a flower like the teacher's. It was red with a green stem.

On another day, the teacher said, "Today we are going to make something with clay."

"Good," thought the little boy. He could make all kinds of things with clay — snakes and snowmen and elephants and mice — and he began to pinch and pull his ball of clay.

But again the teacher said, "Wait, I will show you how." And she showed everyone how to make one deep dish.

The little boy just rolled his clay into a round ball and made a dish like the teacher's.

And pretty soon the little boy learned to wait and to watch and to make things just like the teacher's. And pretty soon he didn't make things of his own anymore.

And then it happened that the little boy and his family moved to another city and the boy had to go to another school. On the very first day he went to school the teacher said, "Today we are going to make a picture."

"Good," though the boy and he waited for the teacher to tell him what to do.

But the teacher didn't say anything. She just walked around the room. When she came to the boy she said, "Don't you want to make a picture?"

"Yes," said the little boy. "What are we going to make?"

"Well, I don't know until you make it," said the teacher.

"How should I make it?" said the boy.

"Why, any way you like!"

"And any color?"

"Any color," said the teacher. "If everyone made the same thing in the same color, how would I know who made what and which was which?"

"I don't know," said the boy, and he began to draw a flower. It was red with a green stem.

One of the things we see in the life of Jesus is that when He calls people to be His disciples, when He engages in intimate conversation with people, He doesn't seem to be trying to put something into them. He doesn't seem to be trying to shape them and mold them according to some preconceived notion of what they ought to be. He seems, rather, to be calling forth something that is already in them.

This is one of the most loving things you can do for your spouse, your children, your parents, your friends: to help them realize the potential that God already has given them. And, in so doing, to help them grow into the uniquely beautiful persons God made them to be.

Recognition

VX-5 Sailor of the Month—For his outstanding performance and positive attitude in pursuit of assigned duties, AMH2 Ivan L. Dunnam was named VX-5 Sailor of the Month for December 1991 on January 15, 1992. Commanding Officer Capt. Garth A. Van Sickle gave special recognition to Petty Officer Dunnam's off-duty "hours devoted to assisting shipmates expand their knowledge and expertise."

FROCKINGS—Listed by their new rates, the following personnel were frocked last week.

Jan. 16, Military Administration, by Cdr. John Mills, executive officer of enlisted personnel:

RP3 Leandro L. Matangga

Jan. 17, Armitage Field, by Cdr. Gil Baron, aviation maintenance officer:

- | | |
|-------------------------|---------------------------|
| AK1 Anthony L. Wade | A03 Herbert G. Desrosiers |
| PR2 Mark E. Mason | AT3 James W. Giddy |
| AT3 Robert T. Back | AZ3 Tina M. Gregg |
| AT3 Shawn K. Bailey | A03 Glenn T. Neiger |
| AE3 Michael T. Bohnsack | AT3 Martin J. Rudd |
| PR3 Philip D. Busch | AZ3 Clifford E. Savage |
| AT3 Luke A. Denny | |

Jan. 17, Military Administration, by Cdr. Mills:

- MS2 Kerry M. Miller
- RM3 Lovonca C. Trammel

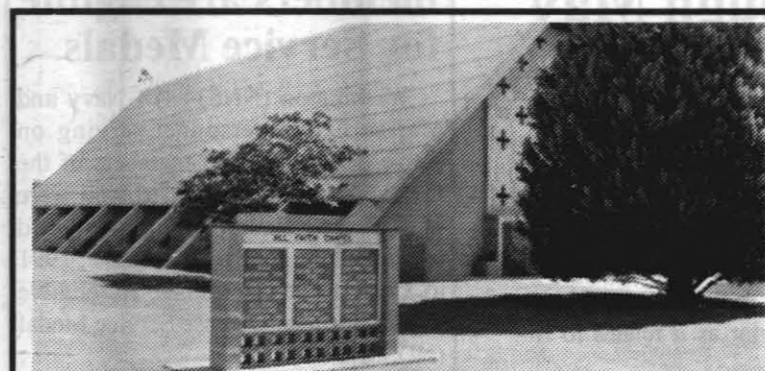
REENLISTMENTS—

A01 Steven Uman reenlisted for six years on Jan. 10. Reenlisting officer was Lt. Michelle M. Williams.

SSgt. Leonard Lucas reenlisted for two years on Jan 12. Reenlisting officer was Col. J. R. Agenbroad, Commanding Officer, Marine Aviation Detachment.

A02 Brent L. McDonald re-upped for three years on Jan. 15. Reenlisting officer was Lt. William W. Bowdish.

AK2 Archimedes R. Viloria reenlisted for four years on Jan. 17. Reenlisting officer was Ens. John W. Wood.



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All Faith Chapel Services

Protestant

- Sunday Worship Service, East Wing 8:00 a.m.
- Sunday Worship Service, Main Chapel 10:30 a.m.
- Sunday School, 1008-10 Blandy & 1903-05 Mitscher 9:00 a.m.
- Bible Study (East Wing), Wednesday (September thru June) 11:30 a.m.
- Men's Prayer Breakfast, East Wing, Thursday 6:30 a.m.
- Officers' Christian Fellowship/Christian Military Fellowships, East Wing, Thursday 7:00 p.m.

Jewish (375-0385 Messages)

- Weekly Services (East Wing), Friday 7:30 p.m.
- Adult Hebrew Lessons (East Wing), Saturday (September thru June) 3:00-5:00 p.m.
- Religious Education (East Wing), Sunday (September thru June) 9:30 a.m.-12:30 p.m.

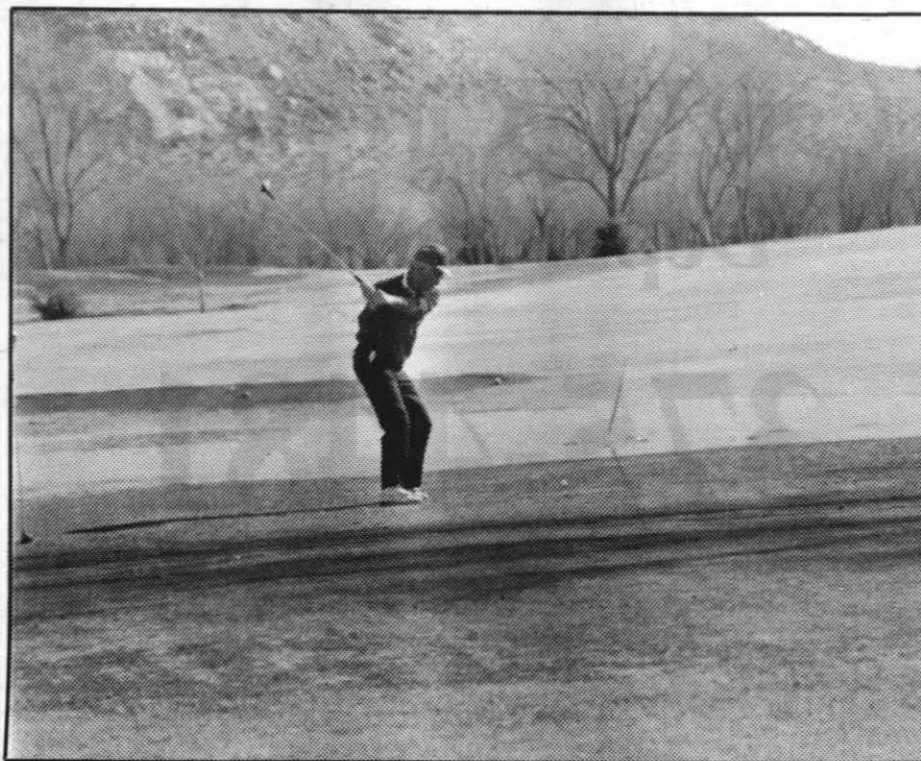
Roman Catholic

- Sunday Mass, Main Chapel 9:00 a.m.
- Daily Mass, Small Chapel 11:35 a.m.
- Confessions, Weekdays By appointment
- Religious Education Classes, Sunday (September thru May) 1902 Dibb, 1002 Blandy, 1008-10 Blandy & 1903-05 Mitscher 10:15 a.m.
- Scripture Classes, Tuesdays (October-January) St. Ann's Parish Hall 7-8:30 p.m.

Islamic

- Jumaa Prayer, Friday (1002 Blandy) 12:00 p.m.

By Terry Pascarella



SWINGING INTO ACTION, this golfer takes advantage of the warm afternoon temperatures at the China Lake Golf Course.

Woodworking safety class offered

Before operating the machines in Craftech's woodshop, patrons must take a one-hour safety course. This free class is being offered at 5:30 p.m. on Friday, Feb. 14, at the Craftech Center, located at the Naval Air Weapons Station, China Lake.

According to Pat Piroaska, Craftech's

manager, the woodshop has a number of machines for customers to use, including table saws, joiners, planer, lathe, router, panel saw, disk and belt sanders and a variety of hand tools.

People interested in using, or learning more about, the woodshop should call 939-3252.

Craftech wants to know if anyone is interested in an oil painting course

Pat Piroaska, manager of the China Lake Craftech Center, would like to find out who is interested in taking an oil painting class. "If we can get enough people interested, an oil painting class, taught by Mary Simpson, a well known artist from Ridgecrest, will be held in late February," she explained.

Piroaska said she would work

with the interested parties to set up the most convenient date and time for the class.

Anyone who would like to see Simpson's work is invited to stop by the Craftech Center, where many of her works are on display.

People interested in taking the oil painting class should call Piroaska at 939-3252.

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Watch Superbowl Sunday on TV at the Seafarer Club

On Jan. 26, the Washington Redskins and Buffalo Bills will go head-to-head for the title of Superbowl XVII champs.



Fred Garcia, manager of the Seafarer Club and Freddy's Place, invites football fans to come to Freddy's Place to watch the game on a big-screen TV. "We'll have door prizes, hot finger foods and discounts on drinks to make this an extra-special Superbowl Sunday," Garcia said.

"In addition, from 11 a.m. to 4 p.m., anyone who buys a large pizza to go from Freddy's will receive a free six-pack of soda, or a small cheese, pepperoni or sausage pizza for half price," he added.

For information, call 939-2581.

Youth soccer registration scheduled

From Feb. 1 through March 13, the Youth Center at the Naval Air Weapons Station, China Lake, will be taking registration for spring youth soccer. Evaluations will be held from 5 to 6 p.m. on Monday, March 16, for 7-8 year olds; Tuesday, March 17, for 9-10 year olds; and on Wednesday, March 18, for 11-14 year olds. A make-up evaluation session has been scheduled for Thursday, March 19, for all ages. The spring soccer season

begins April 11 and ends June 13.

Cost for the program ranges from \$18 for the first child and \$16 for the second child to \$25 and \$23, respectively.

Coaches and referees are always in demand. A meeting for coaches will be held on March 24, while referees will meet on March 26. Both meetings will begin at 5:15 p.m. at the Youth Center.

For full information, call the Youth Center at 939-2909.

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MWR

Valentine greenware arrives

Ceramic classes offered

Valentine's Day is almost here and Craftech is receiving lots of new Valentine greenware. To make the most out of the greenware, Craftech is once again sponsoring ceramic classes. Starting at 5:30 p.m., classes will be held Jan. 27 and Feb. 24 at the China Lake Craftech Center.

"The classes will be taught by Michelle Mullet," said Pat Pirooska, Craftech's manager. "She has studied lots

of art and has an amazing range of experience. Students will be able to see the different colors and materials used in ceramics, learn how to clean the greenware and how to fire it. They will also learn what ceramics are safe to eat off of and which ones aren't, and why."

There are also a number of finished ceramic pieces for sale.

People interested in finding out more about the classes should call Craftech at

Send Valentine Balloon-O-Grams

The Youth Center is offering Balloon-O-Grams for those special sweethearts on Valentine Day. A dozen helium-filled balloons will be hand delivered almost anywhere onboard the Station by a nos-

talig costumed character for only \$15. Supplies are limited, so ordering early is recommended. Just call 939-2909.

Punch embroidery taught

On Wednesday, Feb. 19, the Craftech Center will sponsor a punch embroidery class. "This is the type of embroidery where you use a punch tool to push the thread through the cloth, making a textured design," explained Pat Pirooska, Craftech's manager. The contoured

design can then be brushed to make it furry."

The class begins at 5:30 p.m. and will be held at the Craftech Center, located the corners of Richmond Road and King Street on the Naval Air Weapons Station, China Lake.

By Terry Pascarella



BEING CREATIVE isn't hard after taking an embroidery class at Craftech. Jeremy, Keri and Audrey watch as their mother, Beverly McClellan decorates another outfit.

Air Force uses China Lake ranges for Combat Hammer exercises

(EDITOR'S NOTE: Cdr. Mike (Yogi) Behr, formerly assigned to NWC and now at Eglin AFB, and the Eglin Eagle contributed to this article.)

Dual-service efforts at China Lake are helping the U. S. Air Force with its weapons systems evaluations. Since 1987, personnel from the former Naval Weapons Center provided key support to the Air Force's AGM-88 High-Speed Anti-Radiation Missile (HARM) program.

Eleven of the radar-killing missiles were successfully launched during the first stand-alone evaluation of the missiles fired from U.S. Air Force F-16s. The missiles were fired during an air-to-ground weapons systems evaluation program nicknamed "Combat Hammer" late last year.

Don Featherston of the Attack Weapons Department's ARM Weapons Office said China Lake provides not only range time to the Air Force, but does test planning, collects data, conducts data analysis, provides targets, sets them up and gives the evaluation squadrons an end-game analysis.

China Lakers also conduct six-degree-of-freedom simulations with HARM to

determine missile firing boundaries for each test. More than 12 China Lake personnel from the Range and Attack Weapons departments participated in making Combat Hammer possible, according to Featherston.

The missiles were evaluated during a deployment by 4486th Fighter Weapons Squadron personnel deployed to George AFB. The actual evaluations took place on the then Naval Weapons Center's ranges.

During Combat Hammer evaluations, units from active duty, Air National Guard and Air Force Reserves fly combat scenarios against simulated ground and air threat arrays to fire against a realistic target.

"This was the most successful HARM evaluation to date," said 1st Lt. Kurt Rinke, assistant program manager for the 4486th FWS.

The 4486th FWS is part of the 4443rd Test and Evaluation Group. Both units are part of the U.S. Air Force Air Warfare Center.

Personnel in the program analyze the capability of operational fighter units to employ unguided and precision guided

Please see **COMBAT** Page 13



TECHNICAL HIGHLIGHTS

USAF Photo



JOINT SERVICE efforts see Air Force F-16 fire HARM over China Lake ranges during Combat Hammer exercises.

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SCHIEFER from Page 1

skirmishes during the defense drawdown.

In a November 1991 exit interview with the Navy's R&D centers' historian, Schiefer said he took the DNL post with the objective of educating Navy headquarters on the history, accomplishments, capabilities and expertise of the centers.

"I wanted to try to protect the technology base and the R&D capability for the Navy as we go through this tremendous and traumatic experience of the draw-down, consolidations and closures designed to accommodate the budget," he told the historian.

Coming to the then Naval Ordnance Test Station, China Lake, as a junior professional electrical engineer in 1960, Schiefer, who witnessed the transition to NWC, when the R&D centers were created, and other reorganizations, feels this is the greatest change the Navy has undergone.

Although he wanted to visit each of the centers under his charge as DNL, arriving at SPAWAR on Oct. 23, 1989, he was "swallowed up immediately in consolidation and closure studies," starting Nov. 4.

DoD had issued Defense Management Review Decision (DMR D) 922 draft with projected savings for consolidations and closures estimated at \$3 billion. Schiefer said he was asked about duplica-

tion by Dick Rumpf, then ASN for Research, Engineering and Systems. He told him there was some duplication of activities across the seven R&D centers, but there was probably more between those centers, the engineering centers and ordnance stations and other activities under the various systems commands (SYSCOMS).



Gerry Schiefer

He said studies in the mid-1960s from which the R&D centers, including NWC, emerged had essentially the same goal as the DMR D. "The plan was to consolidate all of the RDT&E and engineering infrastructure into full-spectrum centers, doing basic research and going clear into in-service engineering," he said. "But we made quite a bad mistake then. We stopped, and left—because of politics and rice bowls and interests—a number of activities with the SYSCOMS and we didn't consolidate them." In essence, this created a situation in which SYSCOM activities were competing with the R&D centers and there was duplication of effort. There was also very little discipline, he explained, in which efforts were assigned to which activity.

Rumpf prepared a letter that the Secretary of the Navy sent to the Office of the Secretary of Defense (OSD) concurring with the DMR D 922 concept, but stating further studies should be conducted by OSD and the Navy planned to do one of its own. OSD agreed with the idea for more studies, but said they also wanted to include the broad spectrum, taking into account ordnance stations, T&E activities and engineering activities, that is, the activities untouched by the consolidation in the 1960s.

Final reports on both the R&D and

T&E activities were requested by OSD to be completed by March 1, 1990.

Schiefer was assigned vice chairman of the ASN consolidation and closure study team, as well as a Navy representative on the OSD study team. For the Navy team, under the direction of RAdm. John "Smoke" Wilson, Chief of Naval Research, Schiefer was to look at the R&D centers and others were assigned to review the Naval Research Laboratory, SYSCOM activities and other activities.

"It may not be a surprise that we each came back and said we didn't see much that needed to change," he said. "The Secretariat said that was not satisfactory, we had to do something more."

The original report was completed in early February and the March 1 deadline was looming. Rumpf offered, instead of submitting separate R&D and T&E reports, the Navy would submit a single RDT&E report by March 9. Schiefer proposed and was tasked to lead a small "tiger team" to put together, in two weeks, a concept for a Navy plan.

(Next week: The story continues with the makeup of and approach taken by the tiger team and the evolution of their original plan into the the Navy's final consolidation into four warfare centers and a national research laboratory.)

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College and Over-The-Hill-Track Club sponsor the "Coyote Chase"

Cerro Coso Community College and the Over-the-Hill Track Club will co-sponsor a two-mile Fun Run and Walk, also known as the "Coyote Chase," on Saturday, Feb. 1.

Registration will begin the day of the race at 8 a.m., with the race beginning at 9 a.m. The route will be the dirt trails above the college.

Entrance fees are \$3 per person. Awards will be presented to the overall male and female, first through third places in each division and all finishers ten and under.

For additional information, call Kathy Martin at 375-6852 or Nancy Webster at 375-5001.

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Some of the new items recently made available (you can order them now): memory, chip, 20ea 41000-80 #411000-80 memory, chip, 20ea 44256-80 #44256-80 memory, Mac 4MB 70ns SIMM #4MBX8-70 memory, IBM 1MB 70ns SIMM #1MBX9-70 3-Com Ethernet board for IBM #3C507 Pinnacle Micro CD-ROM internal, IBM & compat, incl ctrl & CD-ROM #PCD-100 210MB IDE IBM hard disk #ST1239A 600MB SCSI hard drive, Mac & IBM vers avail 250MB tape drive, IBM int #DJ-20



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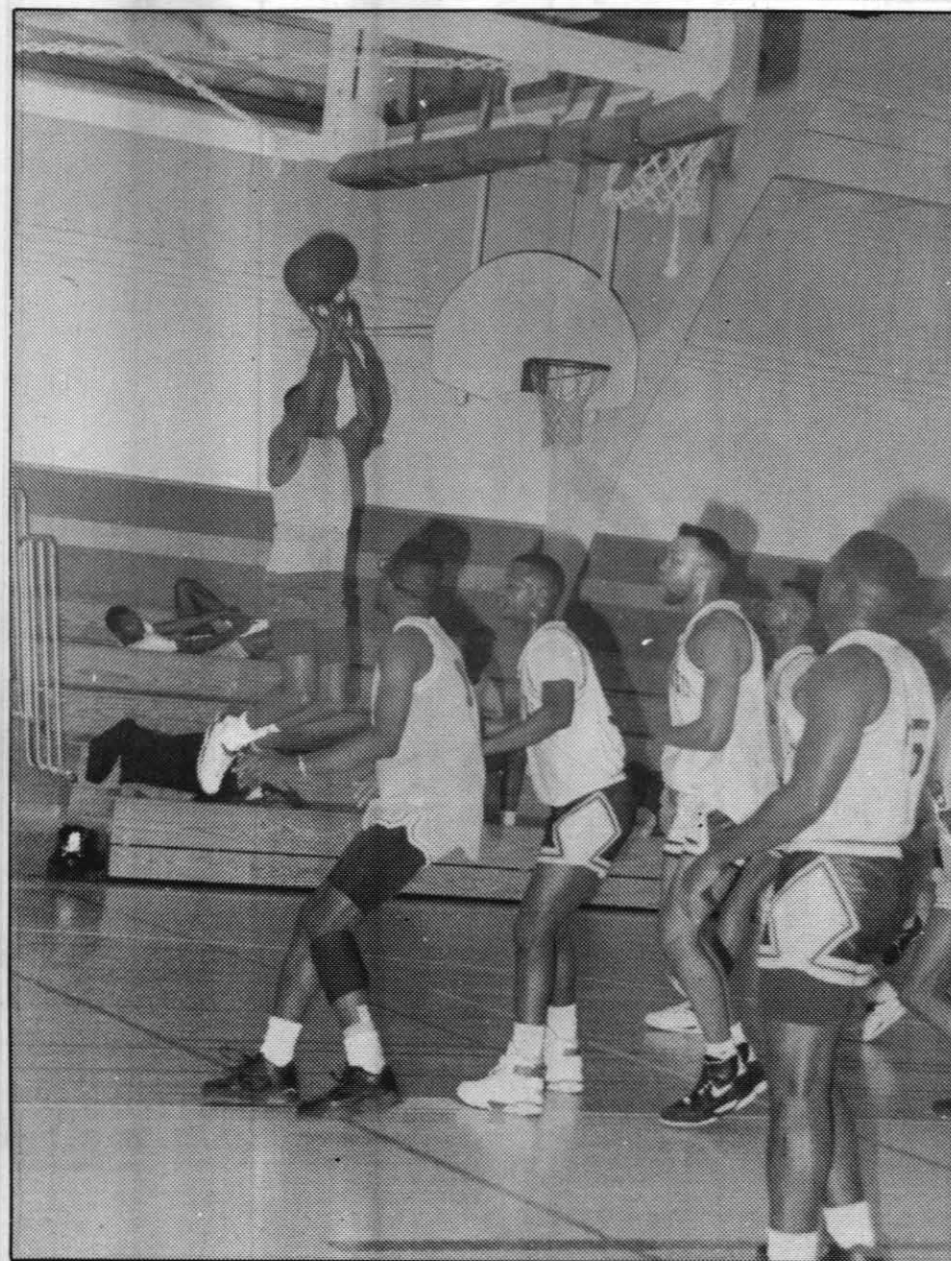
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Annual AWARD BANQUET The Community Light Opera and Theater Association will host its annual awards banquet on Saturday, January 25 at Farris' at the Heritage. Shows for which awards will be presented this year are "NUTS", "MAN OF LA MANCHA", "SIDE BY SIDE BY SONDEHEIM", and "NOISES OFF".



SPORTS

By Peggy Shoof



WITH BAITED BREATH members of Point Mugu's and China Lake's varsity basketball teams wait to see if the local team's shot is good, or if a rebound or steal is possible.

Varsity basketball team scores two wins, one loss

Two undefeated teams came together last Saturday to battle for supremacy in the Southern Pacific Conference Basketball Tournament held at the China Lake Gymnasium. In the hard-fought contest, the Long Beach varsity team bested China Lake's team 119-106. Two other teams participating in the tournament were the Naval Air Weapons Station, Point Mugu and Naval Battalion Construction Center, Port Huememe.

According to Elaine Arnell, sports director at the Naval Air Weapons Station, China Lake, the local team was severely hampered when the team's best scorer, Tyrome Finney, had to leave the game in the first half due to an injury. "Tyrome twisted his ankle in the tournament's first game," Arnell explained. "It seemed to be all right, though, and he played in the next game. However, in the game against Long Beach, he twisted it again and had to leave the game. At that point, we were five points ahead."

Another problem the China Lake team encountered was the foul-out of its center, Tyrone Brown. "There seemed to be some question as to whether he had really fouled out or if there was a scoring

mistake," Arnell explained. "Whatever it was, we gave Long Beach some real competition. In the other games, Long Beach pulverized the teams. This was anybody's game up to the end."

China Lake started the tournament with a 85-58 win against Point Mugu. Finney dunked in 10 points before injuring his ankle in the first quarter, while Leslie Lewis tossed in a total of 19 points in the game.

In the next game, Long Beach beat Point Huememe 140-75.

The third game of the tournament saw China Lake best Port Huememe 115-79. Finney was the high scorer with 29 points.

Long Beach kept their undefeated status in the fourth game by beating Point Mugu 146-96.

"It was a good tournament," Arnell said. "Our team did a good job."

Coached by Bob Bailey, a civilian employee, other China Lake team members are Rob Rankins, Frank Campbell, Wil Graves, Mike Arkadie, Joey Milman, Bruce Bull, Mike Thomas, James Delley, James Williams, Eddie Lloyd, Jerry Feliciano and Frank Campbell.

New fishing licenses required

State fish and game officials remind sport anglers they must replace their 1991 Department of Fish and Game fishing licenses.

The new license year began Jan. 1, although current California sport fishing regulations apply through the end of February. Newly adopted regulations go into effect in March and run through February 1994.

Department of Fish and Game 1992 sport fishing licenses are now on sale in sporting good outlets, bait and tackle shops and some department stores and supermarkets.

A California annual resident sport fishing license costs \$23.65 and a non-resident annual license costs \$63.55. Various game fish tags and sport fishing stamps are also available for the new year. Since the price of a license or stamp is not pro-rated — costing as much on the first day of the license year as on the last — purchasing a license or stamp early allows the holder to take maximum advantage of the investment.

Sport fishing regulation booklets for 1992-94 are expected to be available to the public in February.

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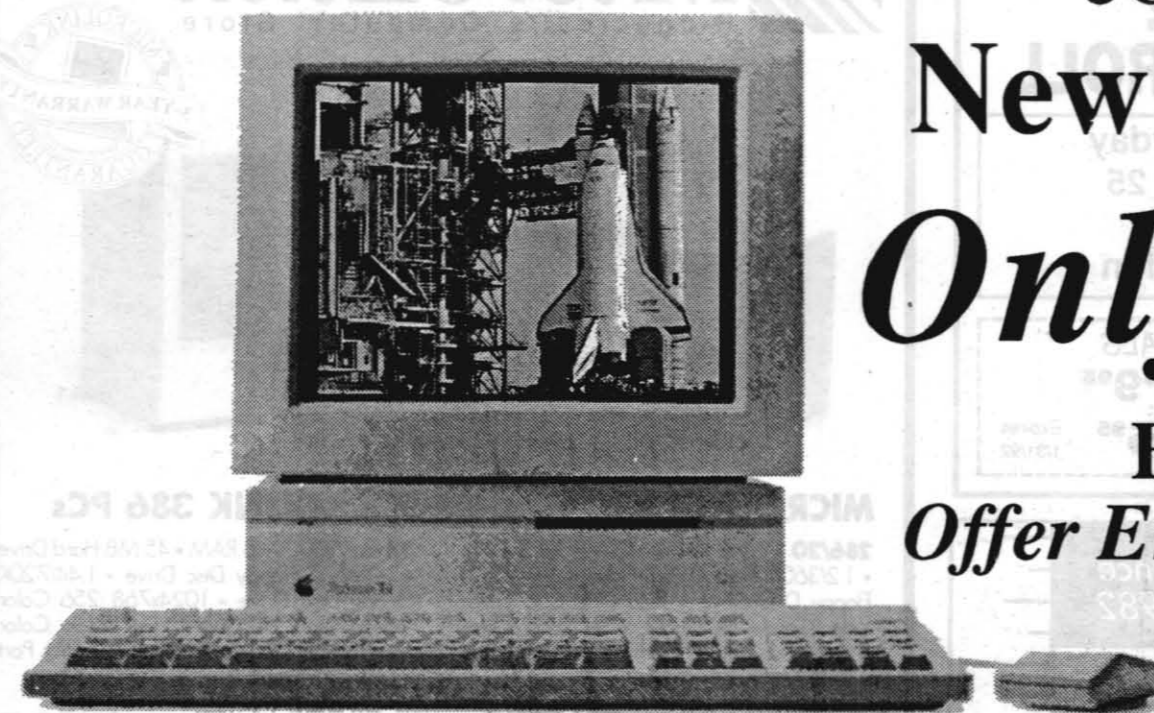
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DESERT STORM from Page 1

Storm, but when all the numbers are totaled up at the end of the campaign, it is general purpose bombs that constitute the majority of tonnage of ordnance delivered on targets. Also, with the very accurate avionics and sensors in a modern attack aircraft it is possible to be very effective at destroying certain types of bombs and missiles. Certainly the continuous 24-hour-a-day air campaign against the Republican Guard, using a mixture of bombs and missiles, was very effective at pinning down the enemy and preventing their rest and re-supply so that the ground war was made easier for coalition forces.

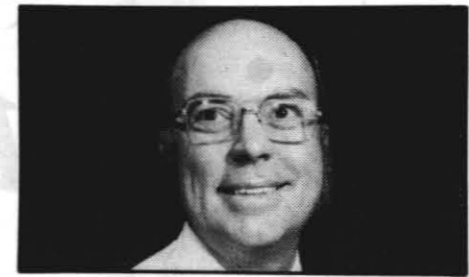
However, for a bomb to achieve full effectiveness against certain targets, such as vehicles in a staging area or troops behind revetments, it is necessary to have the bomb burst several feet above ground using a proximity fuze, rather than bury itself in the sand before it detonates from an impact sensor. The Navy had several hundred thousand proximity fuzes in its inventory which were left over from the Vietnam war. These were called MK43 Target Detecting Devices (TDD). The problem was that they were so old that the electronics had aged to the point where there was a possible safety hazard to the delivery aircraft from "early burst," and the Navy's new proximity fuze system for its Advanced Bomb Family was

not yet ready for production. But at least one new component of the Navy's general purpose bomb system had been introduced to service use recently, and several hundred thousand units had been produced by Motorola Government Electronics Division in Scottsdale, Arizona.

This was the FMU-139/B electronic bomb fuze for Navy and Air Force use. The FMU-139 had a new safety design feature which precluded "early burst" from a malfunctioning TDD. The question asked by Capt. Bob Ramsay, NAVAIR's Program Manager for Conventional Air-Launched Ordnance, and Capt. "Scotty" Bates, Head of NAVAIR's Weapons Engineering Division was, "Would a General Purpose Bomb configured with a 25-year-old MK 43 TDD nose fuze still be safe and effective if used in conjunction with a new FMU-139 electronic bomb fuze in the tail fuze well?" If so, we could equip Navy aircraft with an effective bomb system for an important part of the air campaign to prepare the battlefield for the ground war.

To answer this question, Noel Gravelle, a 30-year veteran fuze design engineer teamed with Lt. Jeff Thompson from the A-6E Weapon System Support Activity and Steve Tanner, Head of the Environmental Engineering Branch at NWC, to quickly complete a series of laboratory tests at NWC and instrument-

ed flight tests at the range at Naval Strike Warfare Center in Fallon, Nevada. Their results were in line with existing tactical manual limitations, and consequently the old MK43 TDDs were cleared to be used in Desert Storm.



Noel Gravelle

The Gator weapon is an air delivered land mine system which has recently reached full rate production for the Navy and Marine Corps. The Marines expressed concern about Gator system availability for use during Desert Storm. Under the production schedule at the time, it was apparent that Gator would not be available in time to support them. So George Barker of the Systems Management Office (at NWC), in conjunction with the NAVAIR Program Office (PMA-201), took immediate action to determine what would be required to field the needed assets. The Navy Gator weapon system is made up of components from numerous contractors and government activities, all of which had to surge their

production. George put a small team of engineers on the road to assist in efforts to accelerate deliveries and assist in resolving problems on the spot.

When a component was not available from the normal source, a work-around solution was developed and initiated. One such item was the Battery Firing Device; the contractor was having problems producing it. It was determined that the quantities were not sufficient to meet the accelerated needs, and special efforts would be required to bring the contractor through first article and into production in a timely manner. The team literally "camped out" with contractors and successfully made the production schedule needed. Through many work-arounds and problem solving efforts, NWC was able to increase the Gator weapon deliveries by a factor of four. After two months, a sufficient number of weapons were delivered to satisfy the Marine Corps' requirement. Because of such efforts, Gator was available and it performed very well in limiting the mobility of the Iraqi Army and it played a key role in Desert Storm. In order to use the CBU-78 on F/A-18 and AV-8B aircraft, the logistic support group at PMTC incorporated a fuze tether retrofit kit.

During Desert Shield, the USMC asked for the fuel air explosive (FAE)

Please see **STORM** Page 9

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Editor's Note

By Barry McDonald
Editor

For most parents the phrase "I forgot" falls from the reasonable explanation category to the invalid excuse category very quickly. When the child realizes this phrase keeps them out of trouble, they begin to abuse it as a way to get away with anything.

In the adult world, the same fate has befallen the phrase "computer error," for similar abuse. It is immediately translated to "operator error" by computer types, who would rather side with machines. But "operator error" is too harsh, connotes stupidity and was coined, I'm sure, by computer sympathizers in hostile retaliation.

Many would see the disappearance of part of the Kit Skaar/firing officers awards story, last week, as operator error if I simply tried to blame it on computer error. So, I submit for your observation—"the Computer Twilight Zone (CTZ)" and "operator ignorance"—as explanations for the vanishing act and other paranormal computer phenomena that occurred last week in the newspaper office.

I saved the Skaar story to our data server and when Steve Boster opened it to paste it on the page, it ended in mid-sentence at "A native of Yakima, Wash..." I was out doing some collateral duty, so he improvised, ending the story, "He is a native of Yakima, Wash." The rest of the story went into the CTZ.

What was left out included that 1991 Kit Skaar winner Ken Seaman Jr. came to China Lake in 1953, when his dad took a job with the Aviation Ordnance Department; he is a graduate of Burroughs High School and Bakersfield College; that after a Navy tour he came back to the area, eventually hiring on as an electrician with Public Works; and he became a firing officer in October 1974 in the Range Department.

Computer Twilight Zone... or Where'd those stories go ?

In order to give credit to others whose recognition was also beamed into the CTZ, we have continued the story in this issue. Please see **FIRING OFFICERS** Page 15.

Using a new version of our desktop publishing software, new fonts, and new hardware, hampered by operator ignorance, while developing a new format, deciding when to use "NWC," "NAWC" or "NAWS," and helping out with public affairs chores, has made getting *The Rocketeer* on the street something akin to a moldy piece of cake. We've made a few mistakes.

Sure, you could look at my new explanatory phrases, as just another cop out, an adult "I forgot"—operator error! But can someone please explain, then, why the same headline from the data server fits its text box when called up on Peggy Shoaf's screen, but hyphenates a word, wraps the text and extends it beyond the text box on my screen? It even prints okay from Peggy's machine, but not from mine. Same page, same source drive, same fonts and sizes, no changes, but different displays! You gonna blame that on operator error??

So we have a combination of things working, or not working, here. I'll cop to operator ignorance, if you'll acknowledge the Computer Twilight Zone as real.

While I'm coming clean with our mistakes, I should also correct some omissions from the Apple CRDA story by TID's Cliff Lawson. No fault of Cliff's, we failed to report that Bill Ball and Judy Martin of the Information Systems Department, Richard Schlein of Apple Computer and Elaine Wunderlich of the Commercial Applications and Transfer Office are the people responsible for the CRDA. Hopefully, now, the appearance of Wunderlich's photo in the body of the story is no longer a mystery.

One final bit of fixing this week is correcting the volume number of the paper. Usually equal to the number of years a publication has been printed, the volume number of the *Rocketeer* has been wrong since 1963. Steve knew from researching past logos for our first new-look edition, that this was our 48th year. According to last year's volume number, however, we went on to Volume 47.

Last week, by going through past year's bound issues, Peggy found the error. Volume 18 correctly identified the year 1962. In 1963, however, when it should have been Volume 19, it somehow went back to Volume 17. A few months later someone attempted a fix and changed it from 17 to 18 and it has remained a year short ever since. With this issue, the volume number mystery stands resolved.

Do we feel ashamed airing our problems in working out the bugs? Not at all. All new systems have their problems. Witness the new security gates at the airfield. I am now officially behind the gate and have been for a couple of weeks—lost in their system's CTZ. I tried over ten times to get the scanner to read

my badge before it finally unlocked the turnstile. In my excitement to get through, instead of stepping into the open section, I pushed the bars at the rear of that section forward and stepped in behind, at which point it locked again. I'll own up to operator error for that part of it, but it's not my fault the scanner doesn't like my badge. Now, I'm locked out, because the system thinks I'm still inside!

At first I thought it was my badge, but I haven't even laundered it...yet. Then I thought, allowing it to become one of my infant daughter's favorite toys may have caused the problem. But in an informal survey of everyone I've talked to recently, I found I'm not alone. "That system," they say, "has problems." So I'm relieved to find it's not just me or my badge and that our new system isn't the only one with bugs.

I'm going to have stop letting Baby Tess play with my badge, though. I'm bound to miss it one of these mornings and finally find it riding her Playskool choo-choo. When I ask her, rhetorically, why she didn't tell me where it was, she'll probably look up and innocently utter her first complete sentence—"I forgot."



REALIGNING SIGN—TID's Gene Schreckengost affixes temporary letters, reflecting name change, to front-gate sign, while PVV's John Riise and Vern Fava remove "Model Installation, NWC China Lake" flag.

STORM from Page 8

weapon. This weapon is particularly good for clearing mine fields and attacking troops dug into bunkers. The CBU-72 FAE weapon in inventory also was a Vietnam era weapon. No surveillance testing had been done for over a decade. NWC called on one of the original designers of FAE, Don Herigstad, who was now a supervisory engineer heading the Weapons Technology Branch at NWC. Don quickly put together a test program to examine the reliability of the old CBU-72 FAE weapons in time for their use in Desert Storm.

After the CBU-72 FAE weapon was sent to the Marine aviation squadrons, an urgent request came back to China Lake for ballistic information to permit delivery of the weapon from the edge of the launch envelope using some innovative tactics to increase aircraft survivability. The request came from a squadron which had been tasked with a mission and was already in the briefing/loading process. Bill Dykema and Jim Cooke, aerodynamicists in the A-6 office and the Systems Analysis Branch, did a crash analysis of available data regarding the aircraft operational flight program to obtain the best solution possible. They got their solution transmitted back to Bahrain in time for the missions to be flown.

Then a request came from the Air Force for the 2000-pound FAE, which was a weapon Don Herigstad had developed a decade ago but which had not gone into production. Don dug through the warehouses out in the ordnance plant and found fifty 2000-pound FAE cannisters slated for disposal under a "base cleanup" program. He also found corresponding sets of fuzes and associated hardware and some tanks of fuel to make up fifty complete weapons. He put together a plan to modify the hardware to fit on the large canisters and do an acceptance test, but the war ended before he could get his program underway.

These intense efforts put forth by the military/civilian team at one of the Navy's many field activities enabled the fighting forces to achieve the success they did in Desert Shield and Desert Storm. They are only a few examples of the national effort required to achieve that success. There are many other similar scenarios by the people working on systems such as Sidewinder, Tomahawk, SLAM, Rockeye, Walleye, Sidearm, and Shrike by both Pacific Missile Test Center (Point Mugu) and NWC personnel.

The Defense Department's Research, Development, Test and Evaluation Centers were established as a major lesson learned from World War II, where our national survival was at stake. They have served our country well for almost five decades to keep our armed forces at the highest possible level of preparedness with the best possible technology. Their role during peacetime is to serve as the technical right arm of their program sponsors in Washington DC, and to be partners with industry in bringing the best products into service use. The above cases are real life examples that, during times of national crisis, the availability of the laboratory facilities and test ranges is critical to support the fleet. But most important of all is the strength which comes from the team's corporate knowledge—that depth of expertise and breadth of experience in all facets of weapons technology and real understanding of the fleet needs by the scientists, engineers, technicians, officers and enlisted men at the Government laboratories. This capability can only be maintained by keeping a critical mass of dedicated people working on the full spectrum of the defense acquisition process.

Michelson Laboratory Awards luncheon set for Feb. 13
Outstanding individual technical excellence at China Lake is recognized each year through the Michelson Laboratory Awards. This year, the awards will be presented on Thursday, Feb. 13 at the Seafarer Club.
Reservations for the awards luncheon must be made no later than Jan. 31 by calling 939-2018 or 939-2592. Cost is \$6.50 per person.

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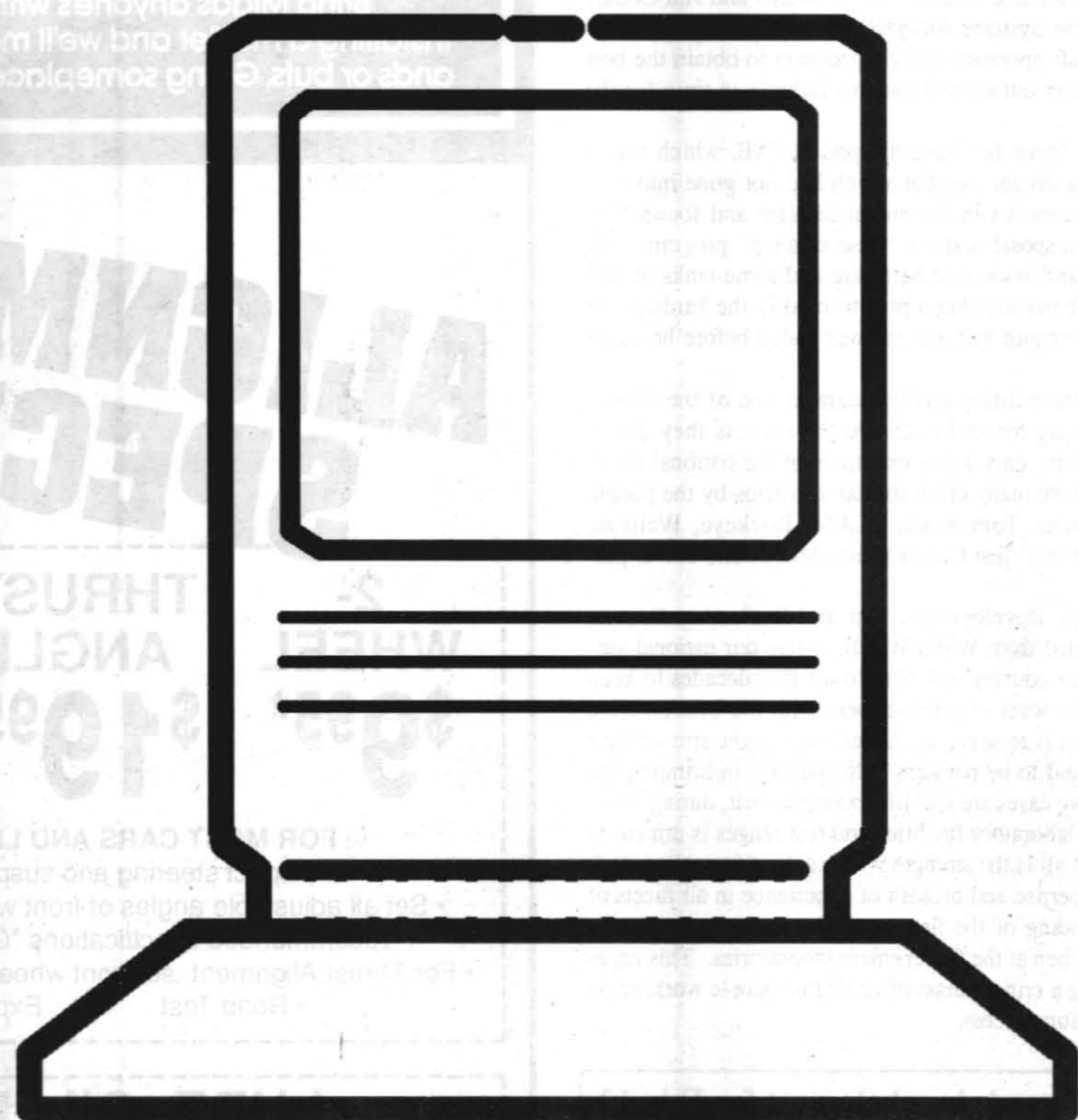
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Ideas Column

The holiday season certainly didn't dampen the flow of good IDEAS. We received 23 submissions in the past four weeks, and there were several more waiting in this morning's mail to be processed. For IDEAS information, you can reach Bruce MacIntosh or Melanie Truesdale in the IDEAS office at X2311, or E mail - SCF::IDEAS, or QuickMail - "IDEAS"

These are a few of the new ideas submitted:

No. 280 Linda Jensen, Code 3902, Samples of properly wrapped classified documents, (create samples of properly wrapped classified documents to be used for training purposes. Her Code agreed and has developed the samples for department CCP's to use)

No. 281 Debra Hollingsworth, Code 62C04, Mac Academy Seminars (proposes MAC Academy training for Macintosh users be brought to Center .)

No. 282 Dale Christensen, Code 3108, Alternative Process Flow Analysis (suggests a simple diagramme used as an alternative to the Tribus Deployment Flow Chart .)

No. 283 Lucinda Lundin, Code 2832, Paper recycling (proposes to stop using colored paper if such paper is not accepted for recycling)

NWC PARTY

JOSHUA HALL
31 JANUARY 1991

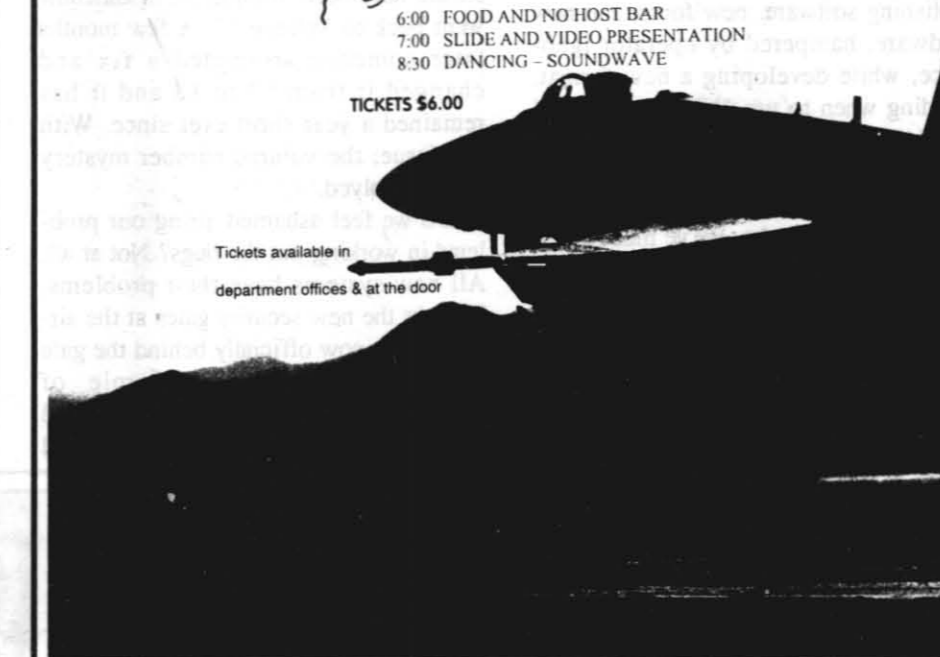
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Skaar Award listing

FIRING OFFICERS from last week

(The following is the remainder of the Firing Officers Awards story lost in the Computer Twilight Zone last week; see Editor's Note column, Page 16.)

After the presentation, Parris recognized prior years' Kit Skaar winners—Ed Ragan, Ben Parsons, Bob Rasmussen, Sol Martin, Carl Halsey, Jack Brown, Mikal Gray and Ronald Clodt—most of whom were present.

The ceremony continued with the presentation of pins and certificates to individuals with safe performance of their firing officer duties for multiples of five years. Bill Porter, NWC Technical Director-turned-Deputy Commander for Research and Development of the Naval Air Warfare Center-Weapons Division, helped with the presentation of five-year pins to Robert Kubin, Josephine Covino, Norman Zwierchowski, Richard Stalaker, Robert Bouse, and Kevin McDonald; a 10-year pin to Lloyd Hacker; and 15-year pins to Jack Thompson, Herbert Richter and Dennis Holdaway.

"Training provided to personnel, careful preparation and adherence to operating procedures, and overall safety of our firing operations must continue to be done as well in the future, as in the past," Parris said, in closing the ceremony.



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Naval Weapons Center

LOGO DESIGNS

A Historical Look



Ideally, a logo represents an institution's mission, its accomplishments, and its corporate culture. The Center's logos evolved over its 48-year life from the typically 1940's cartoon jackrabbit into the familiar "screaming eagle" design that was the most prevalent over the Center's history. The traditional warbird and its lightning bolts signified striking power, and the fouled anchor maintained China Lake's Navy identification and Fleet orientation. China Lake's corporate symbols also represented both its mission and its points of pride, from the Station's "secret weapon" origins in World War II to its first high-visibility product, the High-Velocity Aircraft Rocket (HVAR), or "Holy Moses," to the sky-to-sea combination of Sidewinder and torpedo, and finally to the all-air-weapon Sidewinder and Shrike duo.

The "rocket-ridin' rabbit" (1) was the first logo adopted for the Station; dating from the Station's earliest days, various versions of this popular piece appeared on everything from flight jackets to bars to informal publications. The eagle astride the HVAR (2) became the station's first "official" logo and was in use throughout the 1950s and into the 1960s. Although NOTS was actually based at China Lake, the name was officially "NOTS, Inyokern," until June 1950, and "NOTS, Inyokern, China Lake," until March 1955, when the name was changed to "NOTS, China Lake."

The original "screaming eagle" logo (3) was unofficially adopted in the early 1960s and represented both the air-warfare and underwater-ordnance missions of the Station, which then included the NOTS Pasadena Annex. The NOTS variant of the Sidewinder logo (4) appeared in the late 1950s and celebrated the success and fame of the Station's best-known product.

In 1967, NOTS China Lake and the NOTS Pasadena Annex were separated; NOTS China Lake and the Naval Ordnance Laboratory, Corona, were combined to form the Naval Weapons Center. With the July 1, 1967, establishment of NWC, the "screaming eagle" was modified to reflect the new name, the change in the mission to exclude underwater ordnance, and the combination with the Corona activity (5). The 1971 closing of the Corona facilities was reflected in the next iteration (6) of the now-classic logo.

With the establishment of NWC, the "official" China Lake logo was radically changed to conform with the "NL" design of the activities under the Director of Navy Laboratories (7). The traditional logo, however, never completely disappeared, and the screaming eagle quietly co-existed with the official NL design. By the early 1980s, the screaming eagle was making a comeback; it was especially popular with the China Lake military population, as was well evidenced by its appearance on Hangar 3 at Armitage Field. The screaming eagle was re-adopted, with very minor changes (8), by popular consensus. In 1985, a new design (9) was introduced; a short-lived "modernization" of the screaming eagle design, it was sidelined in favor of maintaining the traditional logo. The latest—and final—version of that traditional design (10) maintained all the elements that made it so popular and so appropriate.

The Rocketeer staff would like to thank Toby VanSlike for suggesting a logo page, Kristine Roquemore for designing the page and Leroy Doig III for researching and writing the story.

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New TQM survey needs response from Weapons Division personnel

By Peggy Shoaf
Staff Writer

More than 3,300 military and civilian employees from the Naval Air Warfare Center (NAWC) - Weapons Division should have received Alamo Learning System's Total Quality Surveys in the past week.

According to Leslie O'Neill, the survey's coordinator in the Quality & Productivity Improvement Office, information received from the survey will help division managers determine where they are in implementing Total Quality Management (TQM), where they need to go and how to get there.

The division has four sites, explained O'Neill, the Naval Air Weapons Station, Point Mugu; the Naval Air Weapons Station, China Lake; Naval Weapons Evaluation Facility, Albuquerque; and Naval Ordnance Missile Test Station, White Sands. "Each of these sites have cultural differences in terms of quality management," O'Neill said. "We need to find out what these differences are and what TQM implementation processes would best serve each site."

O'Neill noted approximately 30 percent of each site's population was randomly chosen to participate in the survey. China Lake has 1,915 employees participating in the program, while Pt. Mugu has 1,300. Seventy-four packages were sent to Albuquerque and 48 went to White Sands.

In a cover letter, RAdm. W.E. Newman, Commander, NAWC - Weapons Division, encouraged recipients to respond to the survey. "Your responses will furnish essential information that will play an important part in helping us meet the challenges before us," the letter read. "Only you, as a vital part of this organization, can provide this information."

While the survey is anonymous, O'Neill said it is very

important for participants to fill out the demographic portion. "This portion will allow us to compare how supervisory employees feel about TQM versus non-supervisory employees, how the results of the survey filled in at one site compare to another site, how military personnel feel about TQM versus civilian and so forth. If a questionnaire doesn't have this portion filled in, it won't be counted in the survey."

Once the questionnaire has been completed, participants should return it directly to Alamo Learning Systems in the pre-addressed envelope included in the survey package. Completed forms must be received by Alamo no later than Feb. 17.

"We are not going to do the analysis of the surveys ourselves," said O'Neill. "Alamo has its own data base it can use for comparative analysis and can tabulate results very quickly."

The main goals of the survey are to receive feedback on how the division is doing in relationship to TQM, the cultural differences among the four sites and what needs to be done to improve TQM. It also provides a measurable baseline with which to compare future improvement. "Based on the data received through the survey, we will know what TQM processes are weak at each site and can implement programs directed at improving those specific areas," O'Neill explained. "This will help us focus and make the best use of our limited resources. In another 18 months, we will conduct a second survey. Using the first one as a baseline, we will see how much we have (or have not) improved," she added.

"This is an opportunity to really let your feelings be known," O'Neill said. "Your feelings do count. Take the time to fill out the survey. The data gathered can be vital in determining our TQM roadmap for the future."

The results of the survey will be published for employees to review after division management has had a chance to review the data.

Wellness Corner

By Betty Miller
Wellness Coordinator

No one can tell you how, when or why to quit smoking. The decision is yours alone. But, when you consider the benefits you can enjoy from a smokefree life, you're apt to agree with over 33 million ex-smokers — stopping smoking is the best thing you'll ever do for yourself and your health.

You are invited to participate in the FreshStart Program, designed by the American Cancer Society, beginning Jan. 27 at 4 p.m. in the Training Center.

For more information about the program, or to reserve a space, call the Wellness Program Office at 939-2468.

Computer Society meeting

Doug Walter, a mathematician in the Intercept Weapons Department at China Lake, will talk about "Fuzzy Logic" during the next meeting of The Computer Society, China Lake Chapter. The event is set for Tuesday, Jan. 28, at the Seafarer Club. Lunch will be served from 11:30 a.m. to 12 p.m., followed by the program.

COMBAT from Page 5

munitions in realistic combat scenarios against first-look targets. Typically, a first-look target is an enemy early-warning radar. Taking out such targets clears the way for follow-on friendly air forces to penetrate enemy air space.

The 4486th conducts Combat Hammer about 10 times each year with an averaging to seven aircraft, 10 air crews, and 80 maintenance and munitions personnel.

Units deploy to China Lake, a Utah Test and Training Range or the range at Eglin AFB, Fla..

During the last Combat Hammer for 1991, the 432nd Fighter Wing at Misawa Air Base, Japan, deployed 10 pilots, 48 support and maintenance personnel and six F-16s to the California desert.

Eight pilots from the Air Warfare Center flew F-15s or F-16s as adversary or data collectors in support of the missile-firing exercise.

Fighters units during this Combat Hammer exercise fired 11 HARMs while flying realistic simulated combat scenarios involving air-to-air and surface-to-air threats.

The HARM was used with considerable success during Operation Desert Storm. The air-to-surface tactical missile seeks out and destroys enemy radar-equipped air defense systems, noted Lt. Rinke. Previously employed only for the F-4G Wild Weasel, the HARM is now being carried on the F-16 Falcon. Due to major force structure changes within the active inventory, the Air Force is moving the F-16 into the role of spearheading tactical strike forces.

"Each Combat Hammer is specifically designed to meet a specific real-world operational unit tasking. As a result, the 432nd Fighter Wing pilots got some very valuable training experience with the HARM during this deployment," said Lt. Rinke.

The evaluations are based on a cradle-to-grave concept, beginning with munitions personnel removing weapons from storage and continuing through with weapons build-up, loading

, carriage, aircraft preparation, launch and recovery.

"As a result, hundreds of Tactical Air Force aircrews have been provided invaluable training available only through Combat Hammer evaluations," said LCol. Steve Boureaux, 4486th FWS director of operations.

During discussions with Featherston, HARM Deputy of Air Force at China Lake, he cited the excellent support of China Lake HARM and range personnel in assuring the success of their WSEP exercise.

Although not a complete list of local participants, the efforts of many individuals ensured success of this exercise.

Those involved included: Sherrie Caffee, HARM test manager, who assisted with planning and targeting requirements; Naomia L'Hommedieu, test section manager, who worked out vendor problems to assure test section availability and Bill Leverett, HARM Test Support Branch, who provided planning and test monitoring support. Also, John Irving, Dave Blackburn and Mike Morris provided simulation and analysis support. James Lloyd, the of the Range Department, coordinated his department's efforts along with Robbie Cruse, range safety officer. Another Range Department member, Lindsay Thursby, led a crew setting up RF targets required for the exercise and range ordnance personnel installed command destruct hardware in the HARMs at George AFB.

Col. David Ladd, commander of the 44th Test Evaluation Group and Lt. Col. John Clines, commander of the 4486 Fighters Weapons Squadron visited China Lake for the exercises and observed the action from the Range Control Center. Both were complimentary of operations here and the data collection efforts undertaken by China Lakers.

While plans called for 12 missile to be fired, only 11 were actually used because an F-16 flown by the project officer with the 432 Fighter Wing in Japan had to land at Armitage Field with a malfunction.

AIAA session features talk on aerodynamics and tactical missiles

Dr. Marnix F.E. Dillenius, president of Nielson Engineering & Research will talk about the "Role of Aerodynamics in Tactical Missile Design" at the American Institute of Aeronautics & Astronautics luncheon set for Jan. 29 at the Hideaway Restaurant from 11:30 a.m. to 12:45 p.m.

Doctor Dillenius has engaged in theoretical and experimental research dealing with thermal radiation properties of materials and has performed boundary-layer heat transfer investigations. He has also studied aerodynamic interference problems of high-speed aircraft and STOL aerodynamics and contributed to investigations concerned with external store separation trajectories, trailing wingwake vortex studies, supersonic wing loading theories and missile aerodynamics.

Luncheon options include selection of the menu, specials or buffet. For more information, call Gerry Thielman at 939-2877.

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