

### New Program Allows Students To Plan Now for Next Summer's Job

Summer jobs in November? In announcing a new program recently, the U.S. Civil Service Commission advised students to make plans now for next summer's job. Commission officials indicated that early applicants would have the best employment chances for the limited number of Federal jobs available next summer.

Under the 1968 summer job program, most of the jobs will be filled through the summer Employment Examination. Application deadline for the next written test is December 8. Additional tests will be given later in the school year, with February 1 set as the final deadline for the written test. This announcement, numbered 414, covers summer employment in four general groups of jobs.

Group I includes jobs in grades GS-1 through GS-4 and

PFS-4 (Post Office Seasonal Assistant). These jobs are found in most Federal activities, including Naval Weapons Center, China Lake and NWC Corona Laboratories.

Group I jobs are to be filled from a list of eligibles resulting from the Summer Employment Examination. Applicants must be age 18 or high school graduates who are at least 16 years old. Application must be made by Application Card Form 5000-AB to: Summer Employment Examination, U.S. Civil Service Commission, 1900 E Street NW, Washington, D.C. 20415.

Applications received by: December 8, will be scheduled for examination on January 13; January 5, scheduled on February 10, and February 1 scheduled on March 9.

Since applicant registers will be issued for use after the January 13 test, interested persons are urged to make early application.

The summer employment examination has been revised so all applicants must refile and take the written test regardless of the fact that they may have passed a similar test in previous years.

Group II jobs do not require a written examination but are located only in the Forest Service, U.S. Geological Survey, Department of State and Veteran's Administration.

Group III jobs are in grades GS-5 and above, require at least a bachelor's degree or equivalent experience, and are to be found in many Federal activities, including Naval Weapons Center, China Lake and Corona.

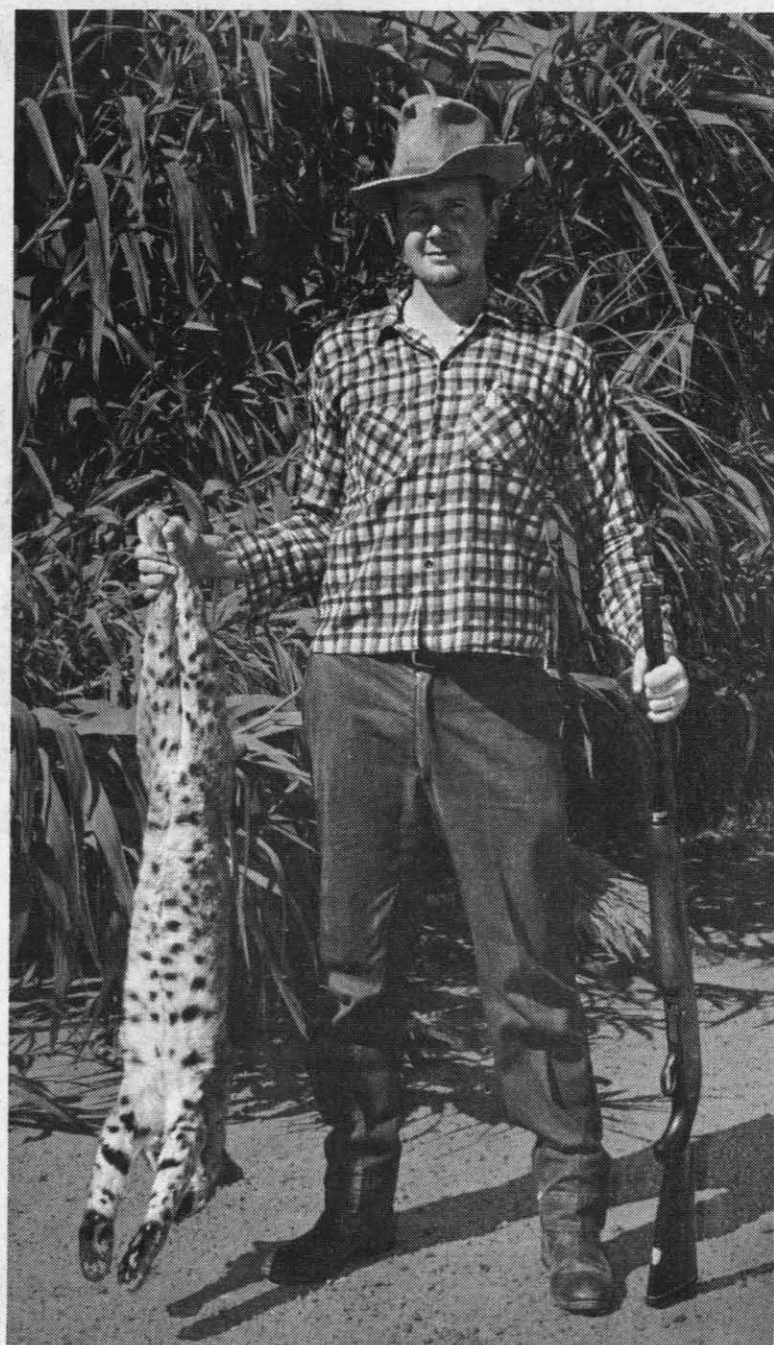
Applicants for Group III jobs seeking employment at NWC, China Lake or Corona, should forward applications to Personnel Department Employment Division (Code 652).

Group IV jobs are mostly laborer jobs with no education or experience requirements and are located in only certain Federal activities.

Age and experience requirements vary for Group II, III and IV jobs, so applicants should review requirements specified in the examination announcement before filing. Interested applicants should file Application Form 57 with the Federal activity in which employment is sought. Deadline for filing applications is April 15 for Group II, III and IV jobs.

Application forms and Announcement information for all Groups are available from college placement offices, most post offices, Interagency Boards of Examiners, U.S. Civil Service Commission and the Personnel Department Employment Office, Naval Weapons Center.

### Hunter Bags Bob Cat



**HARD-SHOT TROPHY** — Lloyd Stair of the NWC Public Works Department, Machine Shop holds his hard-won Bob Cat downed after six shots and tracking, two miles back in the mountains behind the Rifle Range south of Ridgecrest. Stair said the frisky cat ran out from behind a rock formation in front of him, but he managed to get off a round of bird-shot with his 12-gauge, auto-loading shotgun. After chasing the cat for almost two miles, he finally managed to kill the wounded animal. Stair spends his spare hours hunting cotton tail rabbits in the back lands and stated he also downed a Bob Cat last year.

### Overseas Yule Mail Deadline Set At Dec. 1

Deadline for all Christmas mail to members of the Armed Forces overseas — including those in the Viet Nam war zone — is December 1, according to postal officials.

The date is established for all letters, greeting cards and packages, under five pounds, being sent at surface rates.

Airmail—packages and cards — may be mailed up to December 11 to servicemen in the overseas zones.

Domestic mail to U.S. points, should meet the following deadlines.

Domestic air mail, gifts and packages by December 19.

Domestic surface mail to distant states; packages by December 4, and cards by December 10. Either may be mailed by December 13 if addressed to nearby states.

And, postal officials stated, even if domestic air mail is being used to overseas areas, it should be mailed by December 10, and if to areas not serviced by regular, scheduled air service, by December 1.

### Chief of Police To Tell Nurses Youth Problem

All nurses in the Indian Wells Valley are invited to hear Ridgecrest Police Chief George Whaley speak at the regular meeting of the Indian Wells Valley Nurses Club next Monday, November 27, in the Community Center at 7:30 p.m.

Chief Whaley will talk to the nurses about juvenile delinquency and the LSD problem.

The nurses have been asked to bring with them non-perishable foods for the holiday baskets of the Christmas season.

### AIAA Will View Project Planning

Bob McKenzie, administrative assistant for the Special Assistant to the Office of the Technical Director, will talk to members of China Lake's American Institute of Aeronautics and Astronautics at its November luncheon meeting next Wednesday.

McKenzie will discuss the procedure by which the needs of the Fleet are transmitted to the planners in the Chief of Naval Operations office, then translated into projects like those at the Naval Weapons Center. He calls this a two-way process, in which the various Naval laboratories also respond to the needs of the Fleet in proposing projects for consideration.

The AIAA luncheon meeting will begin at 11:30 in the Sun Room of the Officers' Club.

Mr. McKenzie lives at China Lake with his wife Carol and two children Luke, 7, and Mia, 2. He received his B.S. in psychology from Ohio State University and his M.S. in public administration from USC. He has been employed here since 1954 except for a two year period when he worked as a professional planner for a bank.

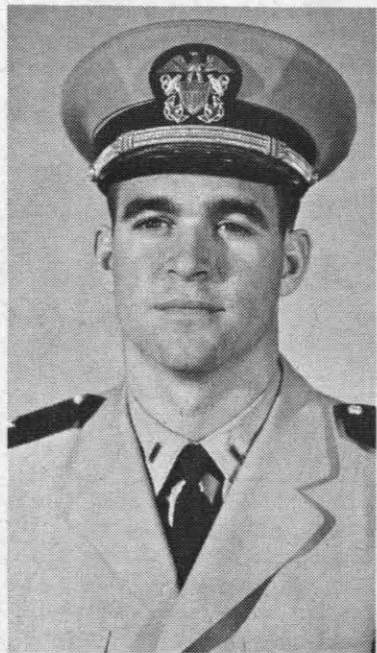
All AIAA members and other interested people are invited to attend this meeting. Further information may be obtained from the China Lake Chapter Chairman, Fred Zarlingo, of the Propulsion Development Department.

### Influenza Shots To Be Given Two Days Next Week

Influenza vaccine will be given to dependents of all military personnel, six years and older, and to Civil Service employees at the Center Hospital on the following dates and times: Tuesday, November 28, 1 - 4 p.m.; Wednesday, November 29, 8-11 a.m., and 1-4 p.m.

This program is mandatory for military personnel unless they are allergic to chickens, eggs, or feathers or have been immunized within the past year.

Influenza vaccine is offered to Civil Service employees and dependents of military personnel, active and retired, on a voluntary basis. There is no charge for the immunization. Dependents of Civil Service employees are not eligible to receive influenza vaccine.



**WELCOME ABOARD** — Ensign Christopher B. Townsend reported aboard recently to take over as Data Analysis and Materiel Control Officer. A native Californian, Ensign Townsend was graduated from the University of California at Santa Barbara prior to enlisting in the U.S. Navy in January, 1967. He attended Aviation Officers Candidate School in Pensacola, Florida, where he received his commission. Townsend resides with his wife, Marilyn, at 201-B Fowler on the Center.

# Four NWC Civilians Honored, Presented Top Navy Awards



Vol. XXII, No. 47 Naval Weapons Center, China Lake, California Fri., Nov. 24, 1967



**SMILES OF APPROVAL** — Pierre St. Amand (center), holds his Distinguished Civilian Service Award and Medal (not shown), as Capt. M. R. Etheridge (l), Commander, Naval Weapons Center and RAdm. P. A. Holmberg (r), who made the presentation on behalf of the Secretary of the Navy, admire St. Amand's achievements for "Sustained Outstanding Performance." Three other NWC men also were awarded.

## Dr. Pierre St. Amand Recognized For Distinguished Civilian Service

BY MILT SHEELY

More than 100 military, civilian personnel, their wives and guests, braved a drizzling rain and cold, damp desert weather to attend a noon Awards Luncheon at the Officers' Club to honor four distinguished civilians for their achievements as members of the Naval Weapons Center team.

One of the highest Navy awards a civilian can receive was presented to Dr. Pierre St. Amand (Code 502) by Rear Admiral P. A. Holmberg, Assistant Commander for Research and Technology, Naval Air Systems Command, Washington, D.C.

St. Amand received the Distinguished Civilian Service Award in recognition and appreciation of the distinguished services set forth in the following citation signed by the Secretary of the Navy.

"For his sustained outstanding performance benefitting the Navy and the Nation, and through his special endeavors, expertise and leadership, Pierre St. Amand earned for himself the respect of military and civilian agencies in all segments of the Department of Defense and brought great honor to the Department of the Navy. He is richly deserving of the Navy's Distinguished Civilian Service Award."

Captain M. R. Etheridge, NWC Commander added his congratulations to St. Amand and said, in part: "It is with great pleasure that the Navy Distinguished Civilian Service

Award is presented to you. Your efforts have enhanced your Nation's posture through your professional capability and scientific dedication. I would like to extend a most sincere commendation for your truly outstanding effort."

In accepting his award, Dr. St. Amand said, "I feel that receiving this award is for everybody in this room because the thing that we did could not have been done without the help of everybody on the Naval Weapons Center . . .

" . . . I am certainly deeply grateful for this honor, not only to those who bestowed it upon me, but to those of you who made it possible — thank you all."

Maurice L. Hamm (Code 3536) received the second highest Navy award presented to civilians. In making the award presentation, Admiral Holmberg read the citation, in part: "The Navy Superior Civilian Service Award is the second highest award that can be given in the Navy either by the Secretary or by the Systems Commander."

A letter from the Commander, Naval Air Systems Command stated, "Through his initiative and exceptional efforts, Mr. Hamm has contributed to the completion of an important project. His professional attitude and ability under adverse conditions in his capacity for accomplishing innumerable ob-

(Continued on Page 3)

## NAF, Rescue Teams Lift Two from Crash

BY JOHN R. McCABE

Two members of a Van Nuys family of four, the mother and one daughter, were rescued from the wreckage of their light plane at 7500 feet in the Sierras above Little Lake, and airlifted out in an NAF helicopter at 1 a.m. last Tuesday morning.

The Cherokee was being flown from Bishop to Van Nuys by Tom Sweet, who played the "White Knight" in a TV commercial, with his wife Jody and daughters Karen, 13, and Kelly, 10, and was reported overdue. Tom Sweet and his daughter Kelly died in the crash.

An Army light plane from Fort Irwin, and a Civil Air Patrol plane from Lancaster, operating in a search operation with a total of eight CAP and two Army craft, spotted the crashed Piper Cherokee Monday afternoon.

Operating on a rugged mountain slope during a driving rain storm, an NAF H-34 helicopter piloted by Lt. Cdr. D. W. Strey, USN, with Maj. R. L. Peterson, USMC, as copilot, airlifted Mrs. Sweet and Karen Sweet direct to the Ridgecrest Hospital at 2 a.m. Tuesday.

Members of the IWV Rescue Team, headed by Dall Hughes, and China Lake Mountain Rescue Group, headed by Dr. Carl Heller, arrived at the crash site 11 p.m. Monday and rendered aid to the survivors.

The two survivors are reported to be in a satisfactory condition at the Ridgecrest Hospital.

Lt. Col. Peach, Post Aviation Officer at Fort Irwin, was flying a U-6 Beaver when his passenger Sgt. Crimmins first spotted the wreckage. The wrecked plane and its surviving passengers were then spotted and identified by Chief Warrant Officer George A. Cordingly, Jr., a search pilot from the CAP's San Fernando Squadron No. 35, flying a T-6.

The rescue teams from the Valley sent 21 men to the area of the crash. They established a base camp at Sterling Aqueduct Station, a mile and a half north of the Little Lake Hotel, and sent several of the group to the crash site, 200 feet from the top of a peak in a rugged area, Monday night. Tuesday morning members were flown (Continued on Page 3)



**TOP CIVILIAN AWARDS** — Top Department of the Navy Civilian Service Awards were presented members of the Naval Weapons Center team during award ceremonies at the NWC Officers' Club. Maurice L. Hamm (l) earned the Navy Superior Civilian Service Award, while H. G. Wilson, Acting Technical Director, NWC, presented Charles M. Cordell the Navy Meritorious Civilian Service Award. Stephen M. Little (r) was presented the Navy Meritorious Civilian Service Award by Capt. M. R. Etheridge, Commander, NWC, on behalf of the Department of the Navy.

## SHOWBOAT

FRIDAY NOVEMBER 24

**"BANNING"** (101 Min.)  
Robert Wagner, Anjanette Comer, Jill St. John  
7:00 P.M.  
(Drama) Golf and sex mix quite well in this tale of a professional golfer who cons his way into an exclusive club as assistant pro. His winning ways, both on and off the course will hold your interest. Behind the scenes of golf! (Adult.)  
Short: "Lion Around" (7 Min.)

SATURDAY NOVEMBER 25

**"BATMAN"** (105 Min.)  
Adam West  
1:00 P.M.  
Shorts: "Voodoo Booboo" (7 Min.)  
"Captain Marvel" No. 12 (Last) (17 Min.)  
**"SULLIVAN'S EMPIRE"** (85 Min.)  
Martin Milner, Arch Johnson, Linden Chiles  
7:00 P.M.  
(Adventure) Three men seek their father who has crashed in South American jungle. Their attempt to manage his plantation is beset with unfriendly Indians, etc. It's the Amazon jungle vs. the Sullivan Brothers. Action. (Adult, Youth, Mature Children.)  
Shorts: "Little Teller" (7 Min.)  
"Island Empire" (18 Min.)

SUNDAY-MONDAY NOVEMBER 26-27

**"CASINO ROYALE"** (130 Min.)  
Peter Sellers, Ursula Andress, David Niven  
7:00 P.M.  
(Super Spy Drama/Comedy) A wild, wacky, conglomeration that you'll happily find hard to believe! EVERYBODY'S JAMES BOND! And SMERSH gives 'em all kinds of trouble. A host of stars and a bevy of beauties make this a dilly! (Adult.)

TUESDAY-WEDNESDAY NOVEMBER 28-29

**"EL DORADO"** (126 Min.)  
John Wayne, Robert Mitchum, Charlene Holt  
7:00 P.M.  
(Western) Two of your favorites team up to tell of a gunfighter who wants only peace, but who gets tangled up in a land dispute and has to help his sheriff pal settle the war. It's a TOPNOTCH, action-filled adventure in every day. (Adult, Youth, Mature Children.)

THURSDAY-FRIDAY NOV. 30-DEC. 1

**"THE BIG MOUTH"** (107 Min.)  
Jerry Lewis, Susan Bay  
7:00 P.M.  
(Comedy) Jerry goes fishing and latches on to a secret that there is a fortune in diamonds hidden in a nearby hotel. His merry mix-ups with gangsters and two pretty girls leave a hilarious trail of fun. Laugh a minute Lewis! (Adult, Youth, Children.)  
Short: "Destination Magoog" (7 Min.)

Thought for the month: Don't try to beat bad traffic conditions. Try to live with them.

From \_\_\_\_\_  
TO \_\_\_\_\_  
STAMP \_\_\_\_\_



# Center's Federal Credit Union Celebrates 20th Anniversary

## "To Help Others Help Themselves" Is Union's Motto

BY LIE KLAUS

NOTS Federal Credit Union at Naval Weapons Center marks its 20th anniversary with assets of \$6,500,000 and a membership of approximately 6,500. Its success is a tribute to the initiative, integrity and resourcefulness of its founding members: Charles M. Melia, Carl Sandidge, Clarence W. Budworth, Ole G. Borch, P. V. Coleman, Paul S. Means, Elworthy L. Lockhart and Francis W. Barnes. Only Charles M. Melia still resides in the area.

The Credit Union today is far away from its "horse and buggy" days when it was organized with nine members and a few hundred dollars in assets.

NOTS Federal Credit Union started as a project of the Employees Welfare Association in 1947. On November 26, 1947, it became a charter member of the Bureau of Federal Credit Unions and since then the corporation has been a growing entity.

One month after receiving its charter, the credit union had 99 members, \$1,162.25 in assets and had lent \$310. A year later, membership had grown to 616 members with assets of \$47,160.61.

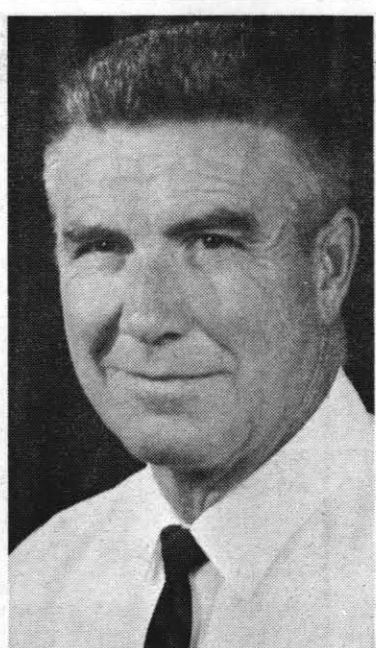
Carl L. Sandidge was the first president and first depositor with 5 shares worth \$25. The first loan was made a few days after the credit union became a going concern. It was for \$10. The purpose: to tide a member over until pay day.

In 1949, "a prosperous year" as asserted by the Board of Directors, 4 per cent dividends were declared. The credit union now pays 5 and over in dividends to its shareholders, and has been doing so for the past five years. Declaration of this dividend rate is the prerogative of the Board of Directors. It is determined for each year on

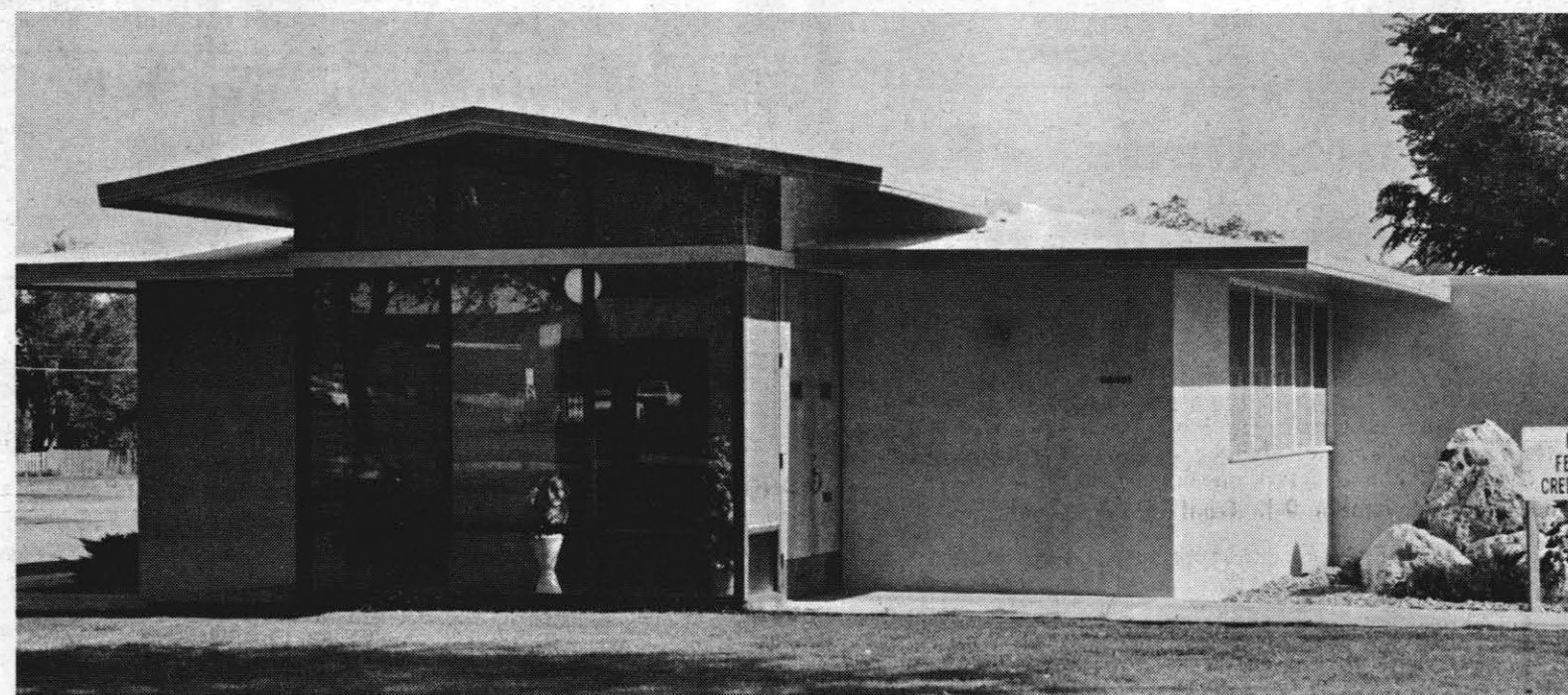


**REVIEWING ORGANIZATIONS PROGRESS** — Members of the Board of Directors and Officers of the NOTS Federal Credit Union, reviewing progress of the activity during the celebration of its 20th anniversary are: (l), Jesse E. Goza, Federal Credit Union Manager; Raymond Becker, Member,

Board of Directors; Richard Hitt, Member, Board of Directors; Evelyn See, Vice President; Captain Charles Lee, Member, Board of Directors; Lcdr. Dennis Strey, Secretary, and Warren Stelmiller, Treasurer. During its early years, the Credit Union functioned on a purely volunteer basis.



**PRESIDENT**—Henry H. Wair is President, Board of Directors, of the NOTS Federal Credit Union. The Credit Union today is far away from its "horse and buggy" days when it was organized with nine members and a few hundred dollars in assets.



**CELEBRATING 20 YEARS OF SERVICE** — NOTS Federal Credit Union marks its 20th anniversary with assets of \$6,500,000 and a membership of approximately 6,500. Carl L.

Sandidge was the first president and first depositor with five shares worth \$25. The first loan was made a few days after the credit union became a going concern. It was for \$10.

the basis of the success of that year's lending program.

During its early years, the Credit Union functioned on a purely volunteer basis. In 1950, George Taylor was contracted as full-time manager. He served in that capacity until 1952 when E. Kenneth Martin assumed this post. At present, Jesse E. Goza is the manager of NOTS Federal Credit Union.

The Credit Union had become a \$1 million institution by 1958. Six years later total assets amounted to \$5 million. Today, 1967, a \$6.5 million, well organized, cooperative association serves 6,500 members. It has made credit "more available to people of small means."

The credit union is member owned and controlled through yearly democratic elections of officials to carry on its business. These officials are responsible to the members for the management of their money.

The Board of Directors, Credit Committee and Supervisory Committee with the help of the manager and his office staff have maintained a balanced organization as reflected by the solvent financial condition of the credit union.

During the credit union's formative years, membership was limited to Civil Service and military personnel. Eligibility is now extended to employees of the city of Ridgecrest, employees of the U.S. Post Office De-

partment in nearby cities, Death Valley National Monument employees, retired members of the armed forces and contract employees supporting the activities of the Naval Weapons Center.

Growth of the credit union has been rapid and consistent. We currently rank in the top five percent in the nation for our size and total assets. This reflects an economically sound community, a healthy membership, and a successful you — our most important asset. The credit union occupies modern new quarters and utilizes the most up-to-date equipment and methods. But its original purpose has not varied. It has remained within the spirit of the credit union movement. "Not

for profit, not for charity, but for service. To help others help themselves."

### Special Services extended all members include:

- Insurance protection on loans at no additional cost
- Free notary service
- "Blue Book" value of cars
- Pre-arranged loans whereby members may wire or phone for money as needed—a travel convenience
- Financial counseling without obligation to borrow
- Family accounts may be opened for spouses and children
- Special mailing envelopes to transact your credit union business by mail

## Nurse-Counselor Working at Clinic With Youngsters

The staff of the Desert Counseling Clinic has been strengthened this month by the addition of a youth counselor and psychiatric nurse, Mrs. Virginia Thompson, RN.

Mrs. Thompson became a Registered Nurse at Presbyterian St. Luke's Hospital, Chicago, in 1961, specializing in psychiatric nursing. She then taught her specialty in a nursing staff team at Methodist Kahler School of Nursing, associated with the Mayo Clinic

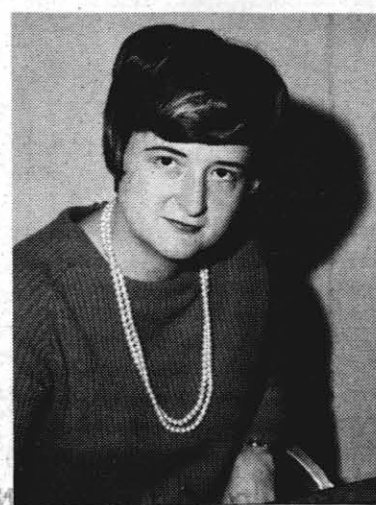
in Rochester, N.Y. She then became the head nurse in the surgical psychiatric ward of Rochester State Hospital.

Virginia Thompson joined the Desert Counseling Clinic Staff November 3, and is working every weekday from noon in child and youth therapy. She is also on call to serve in drug management for the Clinic.

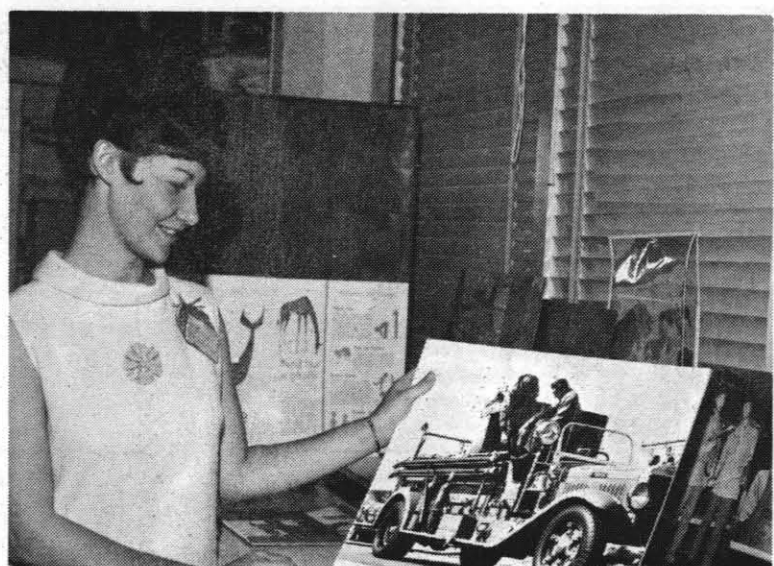
Arthur B. McCorkle, Clinic director, says that Mrs. Thompson's appointment fills a strong need in the community, and

that the Clinic also hopes to add a full-time psychiatric social worker in the near future.

**CHILDREN-HELPER** — Mrs. Virginia Thompson is now serving in the Desert Counseling Clinic as its youth counselor. She comes to the Clinic with both practical and teaching experience in her specialty of psychiatric nursing.



**CREDIT UNION MANAGER** — Jesse E. Goza, Credit Union Manager, was a former Marine Warrant Officer who retired in 1956 after 25 years of service. The credit union is member owned and controlled through yearly democratic elections of officials to carry on its business.



**THIS IS HOW WE DO IT** — Mary Hamilton, First Grade teacher at Richmond Elementary School inspects a photographic project titled, "Developing the Unit" in the Curriculum Laboratory Workshop conducted by Dorothy Jackson during Teachers' Professional Day held at Murray Elementary School, Friday, November 3.



**SNIP, SNIP, WE'RE IN BUSINESS** — Capt. M. R. Etheridge, (center) Commander Naval Weapons Center does the official honors and snips the ribbon marking the Grand Opening of the FEDCO Service Station November 15. Celebrating the occasion with him are (left), Clarence Renne, Chairman Service

Station Committee, Employee Services Board; G. F. Von Mueffling, Vice President and General Manager of FEDCO; H. G. Wilson, Acting Technical Director, NWC; Al Ballard, Mayor, San Bernardino, California, and George Wood, General Manager of the FEDCO Station at NWC.



**TWO WORLD WARS, KOREA, VIETNAM REPRESENTED** — Attending Flag Raising ceremonies in observance of Veterans Day at Groves Elementary School are John Kahrt (l), U.S. Army (Ret.) and World War I veteran; CSC E. I. Jones, NWC, veteran of World War II, Korea and recent Viet Nam returnee, and Hospitalman First Class M. A. Eisenberg, Viet Nam veteran, accompanied by Captain M. R. Etheridge, NWC Commander and guest speaker during the morning ceremonies on November 9 in front of the school.



**HONORING AMERICAN SERVICEMEN** — Capt. M. R. Etheridge, (center), NWC Commander and guest speaker for Groves Elementary School Flag Raising ceremonies Thursday, November 9, in observance of Veterans Day, with retired and active duty servicemen directly behind him, carry out an impressive program honoring American sailors, soldiers, marines, and airmen, who made the "supreme sacrifice" for their country. The Flag Raising ceremony was at-

tended by Brownie and Cub Scouts and other Groves School students. A trumpet "Call to Colors" was played by John Crump, an eighth grade student at Murray. Honor Guard members were Neil Winnamore, James Steed, Kim Barkemeyer, and Dale Martin. Veterans Day Program Chairman for the school was Mrs. Bette M. Rivera, third grade teacher. Theme for the Veterans Day ceremony was "Everyone Needs To Be A Good American."



**BELL RINGERS** — John Hargraves, new manager of the Chaparral Club, tries tone of bell presented to the club by the local Branch 95 of the Fleet Reserve Association, represented here by its vice-president Floyd Goldy (r). Jim Lyles, club past president, holds the bell, given to honor all professional enlisted Navy and Marine Corps personnel, active and retired. The bell came from a Navy boat.

## No Assessments To Be Levied

No assessments will be levied due to the death of GEBAC-CLMAS member Floyd Smith, a retired employee of Michelin Laboratory Machine Shop, who succumbed November 15, at Pacific Hospital, Long Beach, following a lengthy illness, a n n o u n c e d Secretary-Treasurer Joseph M. Becker.

## AOA China Lake Chapter Slates Affair

The China Lake Chapter of the American Ordnance Association will have their annual banquet and installation of officers Thursday, November 30 at the NWC Officers' Club, according to an announcement made by Dr. M. M. Rogers, vice president.

Social hour will kick-off at 6 p.m. with dinner slated to begin at 7 p.m. Menu includes roast chicken at \$2.75 per person and includes a tip for the waitress.

Guest speaker will be Edward M. Gaines, project manager for "Project Flambeau" and representative of the U.S. Forest Fire Laboratory, Riverside, California. Gaines' talk

promises to be interesting, informative and "quite spectacular," according to AOA officials. His talk will also include a film of the "Project Flambeau" mass fire experiment.

For reservations contact your department representative or call extension 71454. All AOA members are urged to attend this function. Wives are invited and a special invitation is extended to guests who may be prospective members of AOA.

Recently elected members of the Board of Directors are: B. A. Breslow, J. B. King, R. C. V. Reed, and J. A. Smith.

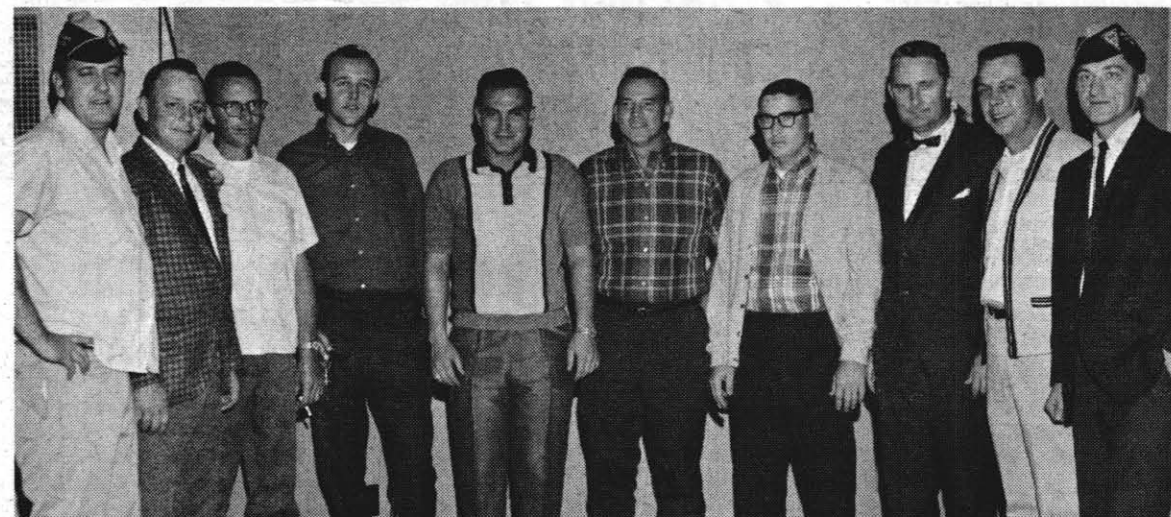
## Sea Cadet Drill

The Sea Cadet Drill Team and Color Guard representing the Naval Weapons Center Corona Laboratories participated this morning, Friday 24th, in the Christmas Holidays Parade in Inglewood California. The affair was telecast over Channel 5, KTLA, at 10 a.m.

The crack drill team from Corona was the only Sea Cadet unit represented among the 125 events which ranged from single equestrians to 105 piece high school bands. The Corona Cadets are sponsored by the Corona - Riverside Council of the Navy League.

## NAF Hawks, Genge Chaparrals Ready

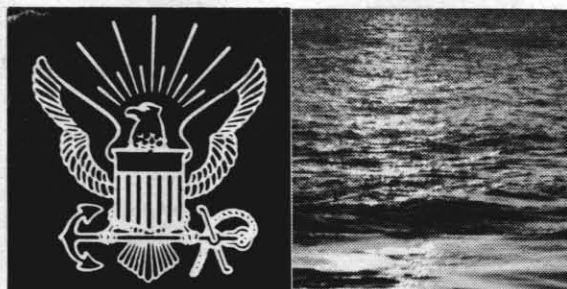
The NAF Hawks will open the 1967-1968 basketball season against Genge Chaparral team Tuesday, November 28. Opening ceremonies will precede the Hawks-Genge clash which is set for 7:30 p.m. Seven teams are entered in the 67-68 Intramural League, two more than last year. Games will be played every Tuesday, Wednesday and Thursday at 7 and 8:30 p.m.



**STRENGTH GROWS** — New members brought into the Fleet Reserve Association, Branch 95, at its ceremonial meeting Wednesday last week present themselves with sponsors John Barber, FTG-1, (ret), at left and AE-2 Gary Kraft at right. New members

are (l-r) AO-2 M. D. McCoy; AO-1 G. M. Booth; AO-2 G. D. Beale; ADJ-2 L. J. Bullis; R. P. Lyons, PR-1 (ret); AG-2 C. E. Finger; SK-1 J. R. Hargraves, and FTM-2 G. C. Johnson. Not shown is new member E. A. Tanquay, CAC (ret).

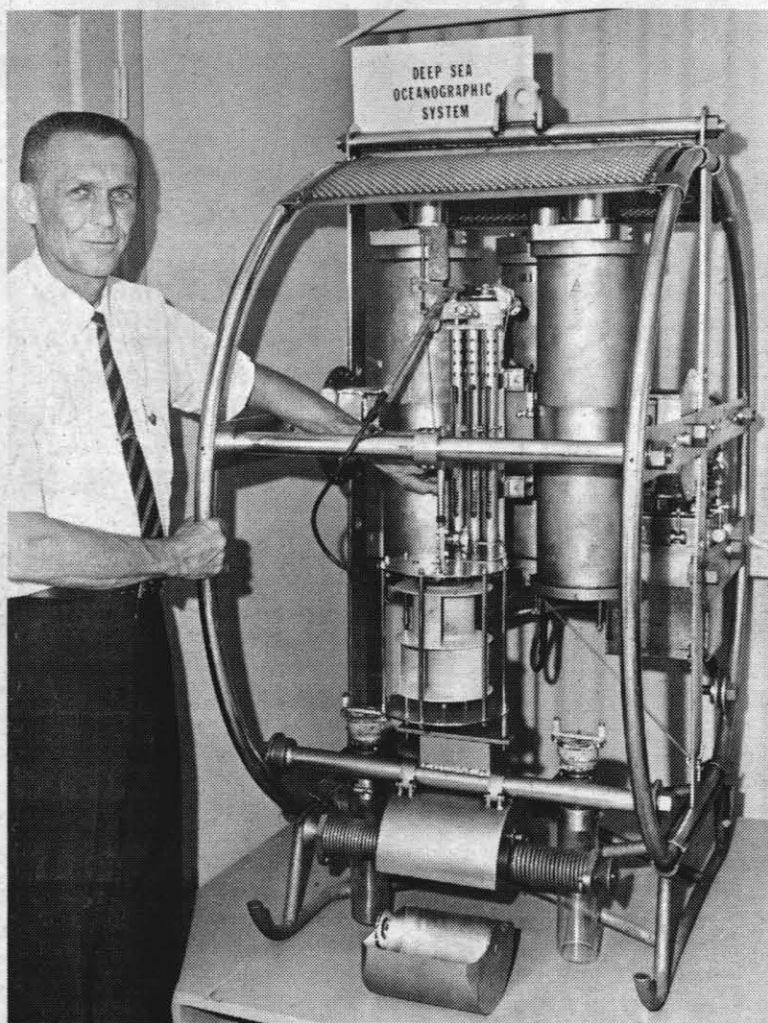




# NAVAL UNDERSEA WARFARE CENTER

PASADENA, CALIFORNIA

## Carl Shipek Develops Deep Sea Oceanographic System



CARL J. SHIPEK, NUWC-SD, developer of the Deep Sea Oceanographic System. System is subject of a feature in September Naval Research Reviews.

A relatively new approach to the collection of related oceanographic data is represented in the Deep Sea Oceanographic System developed by Carl J. Shipek, NUWC-San Diego. Basically, the system is a grouping of instruments, including a pair of cameras, two small cores and a sediment sampler within a hoop frame which is used for three dimensional (stereophotographic) study of the sea floor. Individually, the component parts are not unique in design or shape, but collectively they constitute a relatively new approach to the collection of related oceanographic data. The system was specifically developed for lowering from AGOR class Navy oceanographic vessels.

The system was designed primarily to examine the small microrelief topographic features on the sea floor normally too small to be detected by depth fathometers and scanning sonar. Scientific data is collected and observed simultaneously from the wire-lowered system.

A program of analyzing deep sea photographs has been in effect at the Laboratory since 1947 in the NEL Sea Floor Studies section. Carefully selected camera stations have enabled a number of photographs to be taken of different environments in widely scattered areas. Patterns of continuity in bottom relief both on a large scale and a small scale are developing. Shipek said it would someday be possible to predict the degree and type of microrelief depending upon location, chemical, physical, biological and depth relationships.

To hold all the component recording devices and samplers in a compact but useable package, a stainless steel tubular hoop type frame four feet in diameter has been designed to offer protection and strength without creating excessive bulkiness and resistance during lowering and raising procedures. Development work on the frame and sonar control system began at NEL in 1959. In December of that year this frame was put to its first test on 'Monsoon,' a Scripps Institution of Oceanography cruise to the Indian Ocean. A modified Edgerton deep sea camera and flash unit were used and an Edgerton sonar pinger was installed to complete the assembly. Thirty-four lowerings from the research vessel ARGO proved the operational value of the hoop frame.

Primary functions of the system is to obtain stereo photographs of the sea floor for a systematic photogrammetric study of microroughness. Two 70 mm matched cameras each holding 100 feet of Tri-X unperfected film and equipped with f:6.3, 80 mm wide-view Ektar lenses are mounted in two vertical watertight stainless steel cases with a 12" separation of optic axes. Each pair of photos is properly oriented in the stereo plotter, and photogrammetric methods of measurement are applied to record heights of bottom targets and relief along predetermined sampling lines.

The NEL system obtains a 2 1/4" x 2 1/4" photographic pairs at 15-second intervals using automatic film advance, electronic flash and electronic programmer to start the cameras and control their operation until the film runs out. Fiducial marks are fixed on the camera formats to locate the center points of the photos for accurate determination of scale and the orientation of the photo pairs for stereo viewing.

Since all components have been pressure tested to 20,000 psi, the system can be lowered to maximum ocean depth. Stereo photography is possible with semiwide-angle lenses to give normal views in water with a 50 percent to 80 percent overlap depending upon target height. Target illumination is provided by electronic flash capable of producing 100 watt seconds of input power to a xenon-filled type flash tube pulsing every 15 seconds.

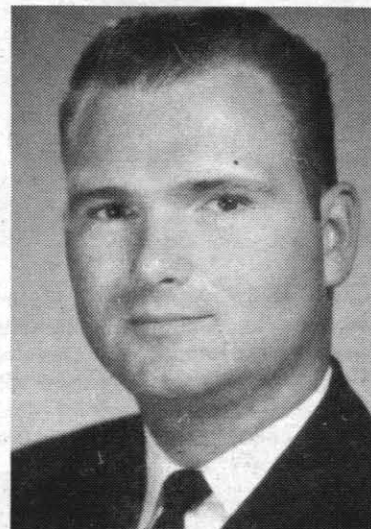
Sediment and water sampling is possible when the system first touches the sea floor. Water currents are also measured at this time.

Following the development work on the frame in 1959, the need for a method of sampling undisturbed sea floor sediments prompted the development of a new type sampler that could be attached to the system. Currently, a Grab Sampler takes large, relatively undisturbed samples for collection and identification of sediments, organisms and free minerals and for determination of shear in sediments. Short cores penetrate interface for determination of stratification and sediment identification.

Most recent use of the system has been for studies in the Bering Sea area.

Secretary of Defense Robert S. McNamara has directed the Navy and Air Force to proceed with preliminary studies on the aircraft.

It was disclosed that the plane will have the most modern and sophisticated weapons, a low landing speed, good rate of climb and acceleration and be generally a high performance fighter.



LT. (jg) F. T. INGERSOLL

Lt. (jg) F. Thomas Ingersoll has reported to NUWC, Long Beach facility to assume Diving Officer duties. Previous duty was aboard the USS Hector (AR-7) as Diving Ordnance Officer. He also served on the USS Deliver (ARS-23) as Operations/Supply/Diving Officer from April, 1965, to June, 1966.

A native of New York, he holds a B.S. degree in Production Management from Syracuse University.

He entered the service in July 1964 and was commissioned in November, 1964, through the Officer Candidate School, Naval Reserve Program. He completed courses at the Deep Sea Diving School in Washington, D.C.

## Keplers in Exciting 10th Week of Play

BY RAY HANSON

The NUWC bowling league is 10 weeks deep in the season now, but you can still cover the field with an absurdly small blanket. It's like this: The Strikers, who occupy first place, have won 26 and lost 14. We Five, the Kamakazi, and the White Tornadoes, who share eighth place, have each won 18 and dropped 22. What this means is that a mere eight games separate the league's first eleven (out of 12) teams. In this kind of situation, any lower-placed team that sweeps two weeks straight can find itself in the thick of contention for the championship.

This is handicap bowling at its best, and it's a very exciting league. What about the last-place team? Well, the Eight Balls (Fran Johnson, Edie Merriss, Bill Lapp, Ed Thomas, and Monty Shinn), who currently have a lease on the cellar, have won 11.5 and lost 28.5.

Hopeless? Not at all! They also have the most terrific handicap you ever saw, and they're using it to surprise some of the top teams and tuck away wins. Remember, anything can happen in a handicap league!

High scores for the 10th week are as follows: team series, Weaponers, 2969; team game, Tangle Foots, 1033; men's series, Monty Shinn, 685; men's game, Bill White, 250; women's series, Di Garfield and Judy Cowell, 600 (tie); women's game, Joann Roesener, 219.



AO-2 FREDERICK A. HUMMEL

# VX-5's Fred A. Hummel 'Bluejacket of Month'

A confirmed and enthusiastic carrier man, now in aircraft maintenance and troubleshooting at VX-5, has been chosen to show the best of NWC as Bluejacket of the Month for November.

AO-2 Frederick A. Hummel, with seven years of Navy service under his belt, came to China Lake in May, 1966, from tours of duty with VF-96 and VFP-63, both out of Miramar. He considers outstanding his duty aboard the carriers USS Kitty Hawk, Hancock, Ranger, Oriskany and Enterprise.

"It was all completely interesting duty," he testifies, "but especially my time aboard the Enterprise. It's big, new, and entirely different from any other ship, but you really have to be on it to appreciate the difference."

AO-2 Hummel, a native Iowan, makes his home here at 62-A Dewey with his wife, Diana, and their six-month-old son, Billie Jo. The Hummels are an outdoor family, and have taken long picnic drives around the desert and mountain areas to such places as Whitney Portals to the north and Death Valley to the east. Fred also hunts and fishes the nearby mountain areas. Part of the Hummels' free time is given to civic affairs at home; Fred is a member of the local Eagles, and his wife belongs to its auxiliary.

Although his time at China Lake is kept full, Hummel strongly remembers one sailing around the Cape of Good Hope, when they were 84 days out without making port, and then 18 hours a day on station for 30 to 40 days at a time.

Fred Hummel and his wife will be the guests of the Greater Bakersfield Chamber of Commerce December 1-3, honoring him as the Center's Blue-

ana, and their six-month-old son, Billie Jo. The Hummels are an outdoor family, and have taken long picnic drives around the desert and mountain areas to such places as Whitney Portals to the north and Death Valley to the east. Fred also hunts and fishes the nearby mountain areas. Part of the Hummels' free time is given to civic affairs at home; Fred is a member of the local Eagles, and his wife belongs to its auxiliary.

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jacket of the Month.

The Hummels will meet representatives of the Chamber when they arrive in Bakersfield next Friday afternoon, and receive a hospitality packet of gift certificates from Brock's Department Store, Valley Office Supply, Fedway, the Cue Ball, the Kern County Museum, Dunlap's, Sears Roebuck, Dan Morgan, Drug King, Honda Motorcycle agency and the Kern Rug Co. Many other merchants will offer the Hummels 10 percent cash discounts at their stores.

The Bluejacket and his wife will pick up a new car at the Kitchen-Boyd Lincoln - Mercury agency to drive during their stay, and will unpack their bags and dine at El Cid Motel Lodge.

AO-2 Fred Hummel will be featured in the Bakersfield news media as the Center's top sailor for November.

## Advancements in Rate For 75 Assigned Here

Since October 16, 1967, several scores of Naval Weapons Center, VX-5 and Naval Air Facility enlisted men have been celebrating an important event.

The time for advancements in rate had arrived with the passing of the August 1967 examination. Broken down into several promotion increments indicating stripe - sewing time, the following men passed their exams with flying colors and have already or will in the following months wear their new rates.

Naval Weapons Center men and their new rates during the first increment of October 16, were: ETR-2 David A. Carey; CS-3 William S. Evans; FTGSC Russell Fielder; IC1 David Garrison; RM-3 Walter Kennick, and CS3 Jon B. Soder.

Second increment for November 16 includes: SK3 Rex D. Anderson; GMT1 Melvin L. Blair; AK1 Glenn H. Brown; RDC Jimmy L. Dellos; RMC Vernon H. Dumar; SK3 George B. Jones; HM2 Robert L. Miller, and HM1 Steven Sprague.

Third increment for December 16 are: PH1 Philip H. Beard; BM3 Dennis E. Bell; HM2 Joseph D. Cappel; ETN3 James Daugherty; ETN2 John K. Nonaka; AK2 Gary D. Piper; HM2 Jimmy Williams; CSC Carl H. McCall, and SHL2 Jose M. Sinlao.

Fourth increment, January 16, includes: AK3 David R. Barbeau; SKC Wenceslao Luna; ADJ2 Larry Torneden; PHC Jerry Williams; SK2 Walter Williams, and HM2 Neil Weintraub.

Fifth increment for February 16 includes: PN3 Elliott Barnett; PTMFC Merlyn J. Castle; SD3 Cornelio Pagtalunam, and AK3 Melvin Whitmer.

Included in March 16 increments are: HM1 Cecilio Gonzalez, and HM3 Ricke L. Whaley.

Naval Air Facility men advanced in rate are: ABH3 John L. Andrews; AO2 Robert A.

Benson; ADJ1 Maxwell Gilmore; AO2 William J. Gross; ADR2 Tommy J. Jay; AMS2 Walter F. Lucas; AO2 Gary R. Peebles, and ADR2 Chester L. Pope.

Also included in this increment are: ADJ2 James L. Rairigh; AMS3 Marvin D. Rollings; ADJC Donald R. Sicheley, and AOC Ernest Tighe.

VX-5 enlisted personnel advanced in rate according to increment promotion list are, in first increment: AO3 John Homeyer; ADJ3 Manuel Lauterio, and ADJ3 Larry D. Schuetz.

Second increment includes: AE2 James R. Clay; ADJ1 Arthur L. Hanson, and CYN3 James Taylor.

Seven men included in the third increment are: AE2 Richard Eulens; PH1 Gerald Burgess; AT1 Ralph E. Calvani; AMS2 Raymon Gillette; YN3 David S. Harapat; AO2 Harry Hess, and AMS3 G. Flett.

AMH2 Gregor Chitwood; AZ-2 Thomas P. Zaia, and ADJ2 Larry M. Torneden, were included in the fourth increment.

Fifth increment advancements included: AMS3 Gary A. Benton; YN1 William Dalmas; AE2 Cabot M. Deering; YN3 David G. Frett; AEC Nelson J. June, and ADJ2 Michael McGillis.

Final increment for advancements in rate included: AS1 Robert J. Betts; AZ3 Ronald Blachman; ADJ1 Jeaul Greene; AMS1 Jack J. Williams, and AT1 Charles Garton.

Howard Keenan, representative of the Aetna Insurance Co., will be at the Community Center next Thursday, November 30, from 9 a.m. to 4:30 p.m. and on Friday, December 1, from 9 a.m. to 3 p.m., according to T. J. Haycock, Head of Employee - Management Relations.

## Dr. Humphreys Retires

Dr. Curtis J. Humphreys, internationally known scientist at the Naval Weapons Center Corona Laboratories, was formally retired on November 17, from his position as Head, Research Department. But it is only a pause in the brilliant career for after a short leave, he plans to return to his bench where he will continue to work individually.

During World War II, his work in placing the element Uranium in its correct place in the Periodic Table led to an improved understanding of the element - thus contributing significantly to the early development of the atomic bomb.

In 1963 Dr. Humphreys received the Navy Award for Distinguished Achievement in Science, "in recognition of his outstanding and pioneering contributions to the field of atomic emission spectroscopy."

His research in extending this field to the infrared has been an outstanding contribution to science.

His discovery in 1953 of the sixth series of Hydrogen is now recognized in textbooks as "The Humphreys Series."

Dr. Humphreys who is listed in "American Men of Science," has conducted scientific research at the Corona Laboratories since 1951 - after serving 20 years in the fields of radiometry and infrared spectroscopy with the National Bureau of Standards in Washington, D.C.

At the Naval Weapons Center Corona Laboratories, Dr. Humphreys has directed an intensive program in research - including solid state physics, infrared, and electrochemistry. The results of this research has been of significance in the advancement of missilery.

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DR. C. J. HUMPHREYS

## Four Civilians Earn High Navy Awards

(Continued from Page 1)  
jectives assigned during his phase of the project are highly commended."

Receiving the Navy Meritorious Civilian Service Award were Charles M. Cordell (Code 502) and Stephen M. Little (Code 3534).

H. G. Wilson, Acting Technical Director, NWC, presented the award and citation to Cordell which read, in part: "The Navy Meritorious Civilian Service Award is the third highest honorary award in Navy civilian service, and is the highest award which may be granted by heads of activities in recognition of meritorious civilian service . . ."

"It is with great pride and pleasure that, as Commander, Naval Weapons Center, I present you this award for your outstanding service to this Center, the Navy, and to your country while concerned with a project in Southeast Asia.

"I want to personally congratulate you on a job well done."

"The Senior Student Union Dance for high school students (9th through 12th grades) will feature the dance combo, 'The Hustlers' at the NWC Community Center from 8-11 p.m. tonight.

## NAF Rescue Team Saves Survivors

(Continued from Page 1)  
to the site by the hard-working H-34.

Major R. L. Peterson, USMC Project Officer here, flew Dr. P. J. Clements, NAF Flight Surgeon, to the site soon after the Cherokee was spotted Monday afternoon. Lt. Clements remained with the wreck while the rescue team climbers made their way on foot up the mountain.

"The NAF pilots and the whole outfit did a great job of hard work doing whatever was necessary to speed the job," said Dall Hughes, of the IWV Rescue Team. "They flew in and out in bad weather as often as needed. Their timing was perfect and their scheduling was fantastic!"

Hughes described the weather at the site as cold, windy and with low clouds overhead just barely clearing the peak. He said Monday's weather at about the time of the crash would have included wind, hail, rain and worse clouding.

Dress of the evening dance is school clothes. Members will be admitted free while non-members will be charged a \$1 admission fee. Non-members are also required to present their student activities cards.

The Senior Student Union Dance for high school students (9th through 12th grades) will feature the dance combo, 'The Hustlers' at the NWC Community Center from 8-11 p.m. tonight.

## PROMOTIONAL OPPORTUNITIES

To apply for position, contact Christine Marchand, Pasadena Personnel Department, Extension 278. A current SF-58 must be submitted when applying.

Visual Information Specialist, GS-7 or 9, Engineering Department, Technical Information Division, Publications & Photography Branch, Illustration Section, Code P45313 - Plans, designs, and prepares technical presentations, exhibits, displays, and publications. (GS-1084).

Illustrator (General), GS-7 or 9, Engineering Department, Technical Information Division, Publications & Photography Branch, Illustration Section, Code P45313 - Plans, prepares and executes technical illustrations for presentations, exhibits, and publications. (GS-1020).

Library Aid or Library Technician, GS-3, 4, or 5, Technical Information Division, Publications and Photography Branch, Library Section, Code P45311 - The GS-3 or 4 level positions do cataloging, circulate unclassified and classified material, shelve returned material, check in mail, and file change cards. The GS-5 position is in charge of circulation section of library. Requires two years of library experience in this kind of work.

Truck Driver, WB-6, \$2.95 to \$3.19 per hour, Public Works Department, Shops Division, Pasadena and Morris Dam, Transportation Branch, P7324 - Drives light trucks up to and including four tons. Drives passenger automobiles, station wagons, and buses. Assists in loading and unloading equipment and material. Occasionally is required to run fork lift. Duty station: Pasadena, Temporary NTE six months.

Equipment Specialist, (Marine), GS-9, Research and Engineering Department, Code H20 - The incumbent will supervise the operation of specialized observational research craft in support of scientists and engineers engaged in studies of the marine environment. He will design and supervise construction, test and operation of experimental equipment for surface or underwater use. He will plan and schedule boat support required by scientists of NUWC in

carrying out research tasks in the open ocean. Duty Station: Ft. Mugu.

Mechanical Engineer, GS-11 or 12 or Mechanical Engineering, GS-11 or 12, Systems Department, Development and Fleet Support Division, Systems Documentation Branch, P3023 - The incumbent will be responsible for the mechanical-electrical interface between the various ASW Weapon Launchers and surface ASW Systems. In addition, he will ensure compatibility in the development of a direct loading system for ASROC Launchers, and in the preparation of weapon handling check sheets for a 11 classes of vessels. His areas of responsibility will necessitate a thorough knowledge of the Launching Group Mk 16 and Torpedo Tubes Mk 32. A thorough knowledge of the functions and characteristics of the ASROC missile, torpedoes and weapon handling is also required. While a professional engineering background is desirable, it is not necessary provided the applicant has the requisite experience in systems engineering.

Operations Research Analyst, GS-13-14, Systems Development Department, Performance Modeling and Operations Analysis Division, D556 - Assume overall responsibility for formulating and directing operational and tactical study programs designed to evaluate the effectiveness of SONAR-fire control-weapons systems in ocean environment. A degree in engineering or one of the physical sciences is required. Must have extensive experience in planning and organizing complex problems and a thorough understanding of Navy operational needs. Must possess leadership qualities and be able to work effectively with a wide variety of military and civilian personnel. Duty station: San Diego.

## Discount Tickets

Through the Employees Service Organization (ESO), NUWC personnel may take advantage of numerous discounts.

Tickets that are now available for the Los Angeles Lakers, the Los Angeles Kings and Melodyland, may be picked up from Y. A. Draglicovich in Bldg. 3, Room 3A52.

To Report NUWC News Call VIRGINIA E. LIBBY Extension 438 - Code P1905

ESO AT LARGE  
THE NUWC  
CHRISTMAS DANCE  
WILL SOON BE HERE.  
RESERVE FRIDAY,  
DECEMBER 15TH.



CHAPLAIN'S MESSAGE



No Limit To Your Possibilities

By Chaplain Irvin H. Thompson

Have you ever taken a good, straight, honest, objective look at yourself? Did you find that you were satisfied with yourself? Or have you had your thoughts so firmly fixed on your difficulties and your hazards that you have been unable to see clearly your possibilities and your abilities? The average person, I think, tends to think that he is utilizing all of his capabilities and lets it go at that.

Occasionally we ought to take an honest look at ourselves. We may find that we are just coasting along and not really applying ourselves. The morning prayer of an old Scotsman was, "Oh, Lord, give me a high opinion of myself." There are people, of course, who have this without praying for it; but usually they are only compensating for a feeling of inferiority.

Taken by and large, I think it can be safely said that the average person does not really comprehend his possibilities. I believe that everybody could have a more "abundant life."

I assert this point of view with such confidence because of what the Bible teaches about us. I have great respect for the Bible and its universal truths. Jesus said "The Kingdom of God is within you." That means that all of God's peace, strength, power and possibilities are within you.

Our problem then is in using our talent and possibilities. Perhaps the words of Socrates, "Know thyself" would aid us at this point. We need to know our strengths, possibilities and weaknesses. I believe that we are all STEWARDS and should use our talents and energies more constructively and responsibly. You are worth more than you think.

PROMOTIONAL OPPORTUNITIES

Present Center employees are encouraged to apply for the positions listed below. Applications should be accompanied by an up-to-date Form 58. The fact that positions are advertised here does not preclude the use of other means to fill these vacancies.

Clerk (DIT) GS-3 or 4, Code 4565 - Performs clerical and secretarial duties to the Warhead Analysis Branch. Does typing of technical reports, letters, and memoranda. Prepares time cards, stub requisitions, travel orders, maintain files, answers telephone, makes appointments, handles mail and other duties.

File applications for above with Jan Bixler, Bldg. 34, Rm. 24, Phone 72723.

Accounts Maintenance Clerk, GS-520-3 or 4, Code 176 - Process accounting documents to commit, obligate and expend funds; code documents; determine proper accounting entries and legality and propriety of charges; and reconcile accounting data. Initiate follow-up and resolve discrepancies on delinquent accounts.

File applications for above with Sue Proslawicz, Personnel, Bldg. 34, Rm. 26, Phone 71577.

Mathematician, GS-9, 11, or 12 (1 vacancy), Code 4041 - The incumbent will provide digital computer programming and analytical support for the Analysis Branch, Guidance and Control Systems Division. Responsibilities will include providing both FORTRAN and assembly language programming assistance for Branch analysts in the areas of strap-down inertial guidance and optimal adaptive control system analyses. Digital simulation for a digital computer modeling program will be required. It is expected that the incumbent will be capable of digital computer coding, independent analyses, and of exercising the digital programs under his cognizance, evaluating the program results and making suitable program modifications as necessary.

File applications for above with June Chipp, Bldg. 34, Rm. 26, Phone 72676.

Electrical or Electronic Engineer, (or Physicist or General Engineer with some experience with electronics, particularly radar), GS-12 or 13, (1 vacancy), Code 1201A - Position is that of the primary NWC specialist in electronic warfare intelligence analyses. Gathers data and performs analyses on the technical characteristics and operational employment of foreign electronic systems, particularly radars, for NWC projects such as anti-radiation missile (ARM) guidance, target identification and acquisition systems (TIAS), radar homing and warning (RHAW) equipments and other passive weapon control systems. Establishes and maintains information exchange liaison with the U.S. intelligence community and other Navy and DOD organizations engaged in electronic warfare intelligence analyses. Position is located in the Special Studies Group of the Weapons Planning Group (Code 12).

Clerk - Typist, GS-322-03, (1 Vacancy), Code 7513 - Incumbent will perform clerical duties such as composing correspondence, setting up and maintaining files and records; and perform a variety of typing tasks ranging from rough draft to finished work. Will also serve as receptionist, answering questions on the phone and giving out needed information.

File applications for the above with Carole Cadle, Bldg. 34, Rm. 28, Phone 71648.

Equipment Specialist (General), GS-1670-07, (1 Vacancy), Code 505 - Duties include: Procurement, repair and maintenance of equipment used in engineering and research work. Experience: Three years general technical or trade and craft experience related to two or more of the areas of specialization. Applicants must demonstrate ability to read and interpret blueprints; ability to understand shop terminology; a practical knowledge of the mechanical principles relating to equipment; a practical knowledge of the basic physical sciences related to types of equipment used in engineering and research work. One year of specialized experience in operation, testing, repair, modification or rebuilding of equipment.

Warehouseman, WB-05, (3 Vacancies), Codes 2591, 2592, 2593 - Performs a number of tasks in connection with the physical receipt, storage or issue of supplies. Receives, checks, stows, counts, issues and assembles supplies of all types in accordance with established supply systems, procedures and methods. Requirements: Must have had six months experience in warehousing.

Stockman, WB-06, (1 Vacancy), Code 2592 - Receives, checks, stores, counts and assembles supplies of all kinds in accordance with established procedures and methods. Applicants must have had at least one year progressively responsible experience in storage and warehousing operations.

Supply Clerk, GS-3 or 4, (1 Vacancy), Code 2573 - Experience required is one year of general at the three level and one year of general plus one year of specialized at the four level.

File applications for the above with Vicki Mead, Bldg. 34, Rm. 28, Phone 72218.

Mechanical Engineer (Applied Mechanics) GS-830-11, PD No. 655086-1, Code 5566 - The incumbent is assigned the more complex problems requiring considerable judgment in making sound engineering decisions and compromises. Co-ordinative action with related engineering personnel in the fields concerned must be given consideration inasmuch as this Division is a service organization. The incumbent must be able to state his case for a complex design stressing its desirability from all standpoints to the weapon development group and yet must use tact to avoid a negative reaction. Candidates are often so shaped as to curtail the use of standard guides, precedents, and/or engineering fundamentals so that skillful use of compromises, improvisations, training, experience, and decisions are required in view of the large number of

arming and fuzing requirements. He should understand the operation of these weapons and racks.

File application for above with Loretta Estep, Bldg. 34, Rm. 34, Phone 71514.

Electronic Engineer, GS-9 or GS-11, Code 3060 - This position is for an electronic instrumentation engineer in the Instrument Operations Division, Systems Development Department, Code 3060. Major engineering effort is in development of telemetry systems for conversion to UHF frequencies. Work will be in RF and microwave circuits, servo systems, and digital circuits to be incorporated into automatic tracking telemetry antennas and receiving systems. Assignments in radar and other electronic measurement systems are also an important part of regular duties.

File application for above with Fawn Haycock, Bldg. 34, Rm. 34, Phone 71514.

'DESERT PHILOSOPHER'

Christmas Symbols

By "POP" LOFINCK



We have on the Center and adjacent desert a living symbol of Christmas.

I refer to the so-called burro, named for a Spanish word meaning small horse. Donkey is a slang nickname for duncan, meaning a small domestic animal resembling a horse, but with long ears.

The right name is ass — the term used in the Bible.

Jesus rode on an ass into Jerusalem, thus bestowing on the ass the honor and distinction of aiding Jesus with his mission.

The word ass is often used in the English language to denote stupid, stubborn behavior.

When it comes to survival, the ass is smarter, more intelligent than the horse. And they do have a mind of their own — which isn't necessarily stubbornness.

The ass got here from North Africa by way of Spain, brought over by the conquistadors and early explorers for pack animals.

Then the prospectors took to burros. They were seeking mundane or monetary values rather than spiritual values. But, maybe they found both in the silent solitude of a starry desert night. Seems probable.

If the prospector struck it rich, he'd often turn his animal loose — or if he died, they were on the loose and multiplied. That accounts for the herds of wild asses in the southwest USA.

Most Christmas customs pre-date the Christian era. In pagan times, many people were sun worshippers. So — at the winter solstice — the shortest day in the year in the northern hemisphere — there was feasting and rejoicing about the days getting longer.

Pre-Christian Rome decorated their feasting with green bows and flowers, if there were any.

Druids had quite a ritual with mistletoe. The Saxons used holly, ivy and bay twigs.

The Christmas tree is a latter day custom of German origin. Martin Luther introduced the tree lighted with candles. German immigrants brought the custom to the United States.

The exact date of Jesus' birthday has never definitely been determined, but it was about the time of the winter solstice. So, it was arbitrarily set at Dec. 25, to correspond with the solstice.

As of today, the shortest day is Dec. 22. The solstice hasn't changed — but the calendar got balled up over the centuries. The idea of evergreen tree or bows is a symbol of everlasting life.

But, as an appropriate Christian symbol of service to Jesus, shouldn't your tree have a miniature ass or burro in its decorations?



SAFETY-FIRST PAYS — Captain R. F. Schall (l), Naval Air Facility Commanding Officer, congratulates Victor D. Bizon after presenting him a pin and commendation, five-year Safety Award. Bizon is an Electronics Technician and supervisor of the NAF target aircraft electronics (Avionics) Shop. He earned the award for five years without last time accidents during his assignment here.

exact and/or conflicting variable elements together with the specific requirements.

Equipment Specialist (Ordnance), GS-1670-9, PD No. 755003, Code 3568 - The incumbent of this position will operate primarily in the fleet support of rockets, free-fall weapons, launchers, bomb racks and fuzes in which the division has a continuing interest either as a cognizant or performing field activity. He maintains NWC RT&E State-of-Art Knowledge, introduces NWC systems to users, information gathering, analysis and technical support, and information feedback to NWC. Qualifications: The incumbent should have a broad experience in aviation ordnance and fire control systems. This experience should be particularly complete in the areas of bomb racks, rocket and missile launchers, free-fall and rocket weapons with their associated

THE LOCKER ROOM

Bowling Leagues

By ED RANCK



Chuck Cutsinger rolled the Premier League's top series for the season Monday evening. Chuck hit a 702, putting together single games of 243 and 195, then finishing with a 264. Bob Kochman, Benny Whiteside and Craig Rae also broke the 600 mark in Premier action.

Kochman rolled a 238-620, Whiteside 214-212-607, and Rae had 226-604. Other 200 games included Gordon Zurn Jr., 216; Ski Kokosinski 201-200; Ev Yelland 203; Bill King 200; Al Herbert 200 and Ray Freascher 202.

In the Midway League Clinton Green had high game with 245 while C. B. Hardin was close behind with 238. Fred Dalpiaz rolled high series with 594 and Buck Sheehan's 226 and Phil Roper's 223 also topped the 200 mark.

Royce Dowd led the Monday Women's Scratch League with 223-575 and Charlotte DeMarco had 210-560. Other highlights included Dotty Duncan 550; Val Strommer 213; and Cora Ball 204. In the Thursday Afternoon Trio, Fern Wacker led the way with 184-498.

It was men's night in the Friday Mixed Foursome. Chuck Cutsinger rolled 231-205-172 for a high series of 608. Fred Deham had high single game with 242. Other 200's included Dan Branson 223-218; Bob Slaters 221; Jack Herbstreit 215-201, and Jack Leininger at 214.

The Junior All-Stars defeated their fathers last Sunday in a four game match. The Juniors split the four game series, but won the match on total pins, 3944-3842. Dale Dowd led the way for the Juniors, averaging 187 for the series. Danny Fuller rolled high game for the afternoon with 224 while Dowd and Mark Burkemeyer each had a 214.

PREMIER LEAGUE STANDINGS

	W.	L.		W.	L.
Woodard Cosmetics	20	12	Boyd's Auto Parts	16	17
Tom's Place	17	16	Mercury Movers	15	18
Starlite	17	16	Foremost	14	19



TOP DRIVERS GET AWARDS — From two to 10 years of safe daily vehicle operation on the job received thanks from the Security Dept. recently. C. A. Benway (left) presents safe driving awards to (l-r) G. W. Newman, (4 yr.), H. R. Smith, (2 yr.); P. K. Kratz (10 yr.); William Farley, (5 yr.), and E. J. Roy (3 yr.). Others receiving awards were R. J. Fisher, (5 yr.); B. C. Kinkennon, (8 yr.); W. A. Lewis, (5 yr.), and T. A. Kulchar (3 yr.).



'LOCKE'S WAR' — Navy Combat Artist, Larry Zabel of China Lake, depicts "Locke's War" in this creative and touching masterpiece. Long after his tour in Viet Nam with Naval Support Activities 4-Plane Bush Airline is over, Lcdr. William J. Locke, some South Vietnamese, especially little boys like this, will smile when they think of Locke — or maybe when they think of the U.S. Navy — or better still, when they think of America.



BOATING ENTHUSIASTS—R. K. McKnight (l), China Lake Coast Guard Auxiliary, compares boating notes with T. T. Hilburn, China Lake Boat Club treasurer, during the recent "Boat of the Month" display in Ridgecrest. The Saturday display included boats

of various descriptions, from runabouts to cabin cruisers equipped with single or twin engine power plants. More than 200 people viewed the display and chatted with Boating Queen, Mrs. C. Pruel. Boaters also discussed operating techniques.

Recreation Notes

The China Lake Youth Center is sponsoring several special interest classes for the youth of employees at the Naval Weapons Center.

Basic Ceramics will be offered at the Ceramics Shop on Tuesday evenings at 6 p.m. Registration will be \$2 for a 10 week course. Classes will be limited to 18 students on a first-come basis. The first class is scheduled for November 28. Students must be at least 10 years old.

The registration fee includes the first project, brushes, and cleaning tools. Additional greenware and glazes will be furnished as selected by the student from shop stock and must be paid for by the participants.

Beginner Square Dancing will be offered at the Youth Center on Tuesday evenings at 6:00 p.m. for youngsters 10 years of age and older. Registration for classes will be \$1 per month or 25 cents per lesson. Youngsters who complete the beginner course will be afforded an opportunity to take advanced lessons.

William Grady, instructor, will begin the class Tuesday,

Combat Artist Zabel To Talk To Art League

Larry Zabel, local Navy combat artist, will be the speaker at the November meeting of the Desert Art League to be held Monday at 8 p.m. in the Community Center.

Zabel, a motion picture producer in the Audio Visual Branch, Propulsion Development Department, made a tour of Navy and Marine installations in Viet Nam and gathered photographic reference material. From his reference materials he prepared a series of paintings which have been accepted for inclusion in the Navy's permanent collection of combat art.

Zabel was among eight prominent West Coast artists who were honored at a recent reception when the paintings were formally accepted by the Navy.

The China Lake artist will show slides and discuss the preparation and execution of the paintings.

Bible Translator Will Be Speaker

January 2, at the Youth Center.

Indian Lore Classes will be conducted at the Youth Center on Thursday from 6 to 7:30 p.m. Classes will include historical background of the various tribes, Indian crafts and costumes including construction of headbands, ankle bells, armbands, and headdresses as well as Indian dances. Guest speakers and exhibits of Indian artifacts will also be included in the classes.

Instructing will be Neal Hicks and Tracy Fifer. Cost of the classes will be \$1 per month or 25 cents per lesson. The first class will be December 7. Youngsters nine years and older may register at the Youth Center.

Basketball Leagues are now being organized with two leagues, one for boys 10, 11 and 12 years of age and another for boys 13 and 14.

Registration forms are available at the Youth Center office. There will be a registration fee of \$2.50 payable no later than December 4. All boys, regardless of ability, will be placed on a team and will play at least one full quarter of every game.

There is still a need for managers, coaches, scorekeepers, timers, and referees. Interested persons should contact the Youth Director, Ext. 72909.

Cheerleaders are needed for the Youth Basketball Leagues. Girls who wish to volunteer to cheer for their respective leagues may sign up at the Youth Center. High School girls or mothers who can assist the girls are asked to contact the Youth Director.

A Christmas Workshop will be conducted at the Youth Center, Monday, Wednesday and Thursday, December 11, 13 and 14 from 7 p.m. until 9 p.m.

The Protestant Congregation of the All Faith Chapel will have their monthly potluck dinner and program on Monday, November 27, at 6 p.m. in the East Wing. The program will feature Kenneth L. Williams, a member of the Wycliffe Translators.

Williams spent his first few years in Randsburg, then moved to San Bernardino where he stayed through high school. After high school he spent four years in the U.S. Navy as a dental technician. Then he received his B.A. at the University of California at Berkeley and took some graduate work in linguistics.

In 1958 he and his wife, Barbara, went to Guatemala and began working among the Chuj (pronounced like 'chew') Indians. His main work there has been translating the New Testament for them, although there have been many other opportunities to serve, such as medical work, consulting with other translators, and working in the local church.

More than 2,000 believers have been made among the 8,000-some Chuj Indians. They are using the 12 books which have been translated from the New Testament and are in print. The New Testament is all translated now, except for one final revision, which the Williams hope to do soon after returning there in January.

Those planning to attend the potluck dinner and whose last names begin with A-M should bring a main dish and a vegetable dish; whose names begin with N-Z should bring a salad and dessert in portions to feed 10 people. Parents bring their own table service and milk for their own children. Rolls and coffee will be furnished.

Ken Pringle Will Speak To Club

The Indian Wells Gem and Mineral Society will have a regular meeting Monday, November 27, 7:30 p.m. at Langley and Rowe Streets on the Center.

Ken Pringle, guest speaker, will talk about the history of the Indian Artifacts displayed by the Maturango Museum during the recent Indian Wells Gem and Mineral Show.

Pringle will also address the November 27, 5 to 6 p.m. meeting of the Valley Pebble Pups. His talk to this group will include an illustration using color slides showing geysers and the development of electric power through the use of steam turbines. All children of China Lake and the Ridgecrest area are invited to.

The Rocketeer

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Capt. M. R. Etheridge, USN NWC Commander

"J." Bilby Public Affairs Officer

Jean Raber News Bureau

Frederick L. Richards Editor

Staff Writers Milt Shealy John R. McCabe Ed Ranck, Sports

Staff Photographers PH1 Jerry Williams, PH1 Gary D. Bird, PH2 Phillip H. Beard, PH2 Jerry Willey, AN Kenneth G. Stephens.

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Phones: 71354, 71655, 72082



DIVINE SERVICES

Christian Science (Chapel Annex)—Morning Service—8:15 and 11 a.m. Sunday School—10 a.m.

Protestant—(All Faith Chapel)—Morning Worship—8:15 and 11 a.m. Sunday School—9:30 a.m., Chapel Annexes 1, 2, 3, 4 (Dorms 5, 6, 7, 8) located opposite Center Restaurant.

Daily Mass—11:30 a.m. in Blessed Sacrament Chapel. Saturday, 8:30 a.m. Confessions—7 to 8:00 p.m. Saturday.

NWC Jewish Services (East Wing All Faith Chapel)—8 p.m. every first and third Friday.

Sabbath School—10 a.m. to noon, every first and third Saturday.

Unitarian Fellowship—(Chapel Annex, 95 King Ave.)—Sunday, 7:30 p.m.