



IT WAS CALLED A CHUKAR-LIFT — Ronald Hein from Region Five, California Department of Fish and Game (I) points out to LCDr. John J. Farbarik, Assistant Public Works Officer, the excellent condition of a chukar soon to be released on San Nicolas Island as part of the Navy's program of natural resource management. One hundred chukar were trapped at the Center for transfer to the island by Fish and Wildlife experts. The desert birds were requested last spring to start a population on the channel island. Wildlife manager Hein was here to supervise shipment of the birds when he was advised the helicopter airlift was delayed due to ground fog at Point Mugu last week. To avoid risking loss of crated birds from desert heat, he cancelled the flight and drove his cargo to Point Mugu.



CAPTAIN G. H. LOWE, Commander, NWC, receives Ticket No. 1 as receipt for the first donation toward the Maturo Museum's benefit at the 1967 Desert Empire Fair, October 4 to 8, from Rose Merriam, trustee in charge of the drive. Featured in the museum booth, the contribution of Associated Aero Science Laboratories, Inc., will be seven originals by popular local artists. They include two oil paintings of desert scenes by Ruth Powers and Esther Vollborn; an acrylic by Mildred DeHarrold; two watercolors by Adeline Williams; a sand sculpture by Martin Webber; and the traditional Bristlecone Pines salon print by Earle Kirkbride with hand coloring by Museum Director Kenneth H. Robinson.

From \_\_\_\_\_

TO \_\_\_\_\_

PLACE  
STAMP  
HERE

## Desert History Field Trips To Open Fall Class

The University of California, Santa Barbara Extension Division, is offering Desert Natural History this fall. First class is scheduled to meet 7 p.m., Sept. 15, Rm. 17, Murray Junior High School, China Lake.

Lloyd Brubaker will teach the course during the three quarter periods with the first quarter emphasizing ecology, winter geology and spring biology.

Most classes will be conducted in the field. Students are encouraged to bring immediate family members on field trips.

For additional information call Brubaker at China Lake 725044.

## Housing Assignments

LEVELS REACHED — 31 JULY 1967	Units—Housing Priority Group — Hiral Date
Panamint (4)—B	6-1-65
Panamint (3)—B	9-22-54
MOQ (2)—None	
MOQ (3)—None	
Hill Duplex (3)—B	6-5-59
Hill Duplex (2)—C	10-23-50
Wasp Circle Duplex (3)—C	5-4-59
Joshua (4)—None	
Yucca (4)—None	
Tamarisk (4)—None	
Juniper (3)—None	
Old Duplex (3)—None	
Old Duplex (2)—G	6-30-57
Old Duplex (2) (LBP)—D	2-7-64
Old Duplex (1)—None	
Normac Duplex (3)—None	
Normac Duplex (2)—None	
Wherry (3)—D	5-15-67
Wherry (2)—G	6-30-57
Normac (3)—None	
Normac (2)—None	
Normac (1)—J	6-6-67
Letourneau (2)—I	12-66
Hawthorne (4)—I	12-65
Hawthorne (3)—I	8-63
Hawthorne (2)—None	
Hawthorne (1)—K	2-27-67
Apartment (3)—None	
Apartment (2)—None	
Apartment (1)—I	10-17-65
Apartment (0)—J	12-14-62
Motel (1)—C	3-10-60
Motel (0)—I	6-22-66

## STATION LIBRARY LISTS NEW BOOKS

A complete list of new books is available in the library.

### Fiction

The Best from Fantasy & Science Fiction. 16th Series, 1967.

Gruber—The Twilight Man.  
Hersey—Under the Eye of the Storm.

Murphy—The Phantom Setter.  
Scott—The Jewel in the Crown.  
Vidal—Washington, D.C.  
Warner—The Aerodrome.

### Non-Fiction

Adler—Letters From Vietnam.  
Attwood—The Reds and the Blacks.

Batty—The House of Krupp.  
Bunker—Handwriting Analysis.

Gablehouse—Helicopters and Autogiros.

Neill—Freedom — Not License!

Rand McNally—National Park Guide.  
Rudeen—The Swiftest.

## EVERY LITTER BIT HURTS



DON'T BE A LITTERBUG!

## SHOWBOAT

FRIDAY AUGUST 25  
"THE DEADLY AFFAIR" (107 Min.)  
James Mason, Simone Signoret  
7:30 P.M.

(Mystery/Drama) Espionage and murder result from an investigation of the loyalty of a Foreign Office agent by Mason. The suspense builds up as Simone is tied into the plot upon the death of her husband. Top cast enacts a gripping tale. (Adult.)  
Short: "Sloppy Jalopy" (7 Min.)

SATURDAY AUGUST 26

—MATINEE—  
"ALICE OF WONDERLAND IN PARIS" (52 Min.)  
"WHITE MANE" (38 Min.)  
Short: "Adventures of Jesse James" No. 10 (13 Min.)

—EVENING—  
"MADE IN PARIS" (104 Min.)  
Ann-Margaret, Louis Jourdan, Edie Adams  
7:30 P.M.

(Musical/Comedy) Cute little miss is promoted to fashion buyer and is swept into the high world of Paris buyers. Pursued by wolf, Louis, and "protected" by Richard, this is a merry chase that's a delight to see. It's all in fun! (Adult.)

Short: "Doggone Tired" (7 Min.)

SUNDAY-MONDAY AUGUST 27-28

"WILD, WILD PLANET" (95 Min.)  
Tony Russell, Lisa Gastoni  
7:30 P.M.

(Science/Fiction) It's 2015 and the world and planetary systems have dual governments. A space station commander investigates the disappearance of many prominent people and almost meets his Waterloo on the planet Delphos. (Adult, Youth, Very Mature Children.)  
Short: "Bad Day at Cat Rock" (7 Min.)

TUESDAY-WEDNESDAY AUGUST 29-30

"THE HAPPENING" (91 Min.)  
Anthony Quinn, George Maharis  
7:30 P.M.

(Comedy/Drama) A partying foursome inadvertently becomes involved in a kidnapping through the misunderstanding of the "victim." Only this superb cast could have eked out the uproarious comedy that results! Hunt for kicks backfires! (Adult, Very Mature Youth.)

Shorts: "Clippety Clobbered" (7 Min.)  
(A Roadrunner)

"Off to the Races" (9 Min.)

THURSDAY-FRIDAY AUG. 31, SEPT. 1

"ONE MILLION YEARS B.C." (91 Min.)  
Raquel Welch, John Richardson  
7:30 P.M.

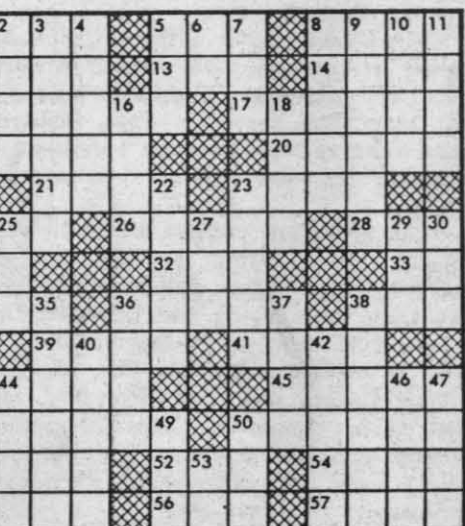
(Adventure) Thrill to the unusual adventure of a cave man who finds another tribe, and beautiful Raquel. See the battles against survival and giant prehistoric monsters. It's all on the big screen as if you were really there! (Adult, Youth, Very Mature Children.)

Short: "Beauty and the Bull" (16 Min.)

When the taillights on the vehicle ahead brighten it may mean more than a slow-down or a stop — Be prepared for an unexpected turn.

## CROSSWORD PUZZLE

ACROSS												
1-Call	5-Mature	8-Renown	12-Girl's name	13-Communist	14-Three-banded armadillo	15-Complain	17-Mistakes	19-Trap	20-King of birds	21-Mental image	23-Diminish	24-Preposition
26-Ate	28-Shade tree	31-Conjunction	32-Stitch	33-Babylonian deity	34-Vigor (colloq.)	36-Slumber	38-Temporary bed	39-Wings	41-Rockfish	43-Jury list	45-Nostrils	48-Regard
50-Sew	51-Prophet	52-Poem	54-Girl's name	55-Youngsters	56-Neckpiece	57-Cozy						
DOWN												
1-Possessive pronoun	2-So be it!	3-Damage	4-Scottish lord	5-Exist	6-Earth goddess	7-Dutch town	8-Unit of electrical measurement	9-Opposite of perigee	10-Clayey earth	11-Gaelic	16-Want	18-Peruse
22-Passageway	23-Less	24-Dude	25-Native metal	27-Born	29-Sign of zodiac	30-Snail-vug	35-Gasped for breath	36-Transaction	37-Shut up	38-Box	40-Condescending looks	42-Metal fasteners
43-Nuisance	44-On the ocean	46-Unbleached	47-Matted hair	49-Crowd	50-Ocean	53-Note of scale						



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## Revised Auto Law For State Drivers Due in November

It is evidently costing vehicle owners more pocket money to have an accident today which is evidenced by a recent legislative change according to a report released by the California Department of Motor Vehicles.

"The new law, which becomes effective early in November, raises property damage limits from \$100 to \$200," said Verne Orr, Director of Motor Vehicles.

Orr continued, "Owners and drivers of vehicles involved in any accident involving bodily injury or damage amounts of \$200 or over, for any person involved, will continue to require reporting on Form SR-1 to the DMV next November. This is in addition to reports required by local traffic police, insurers or legal owners."

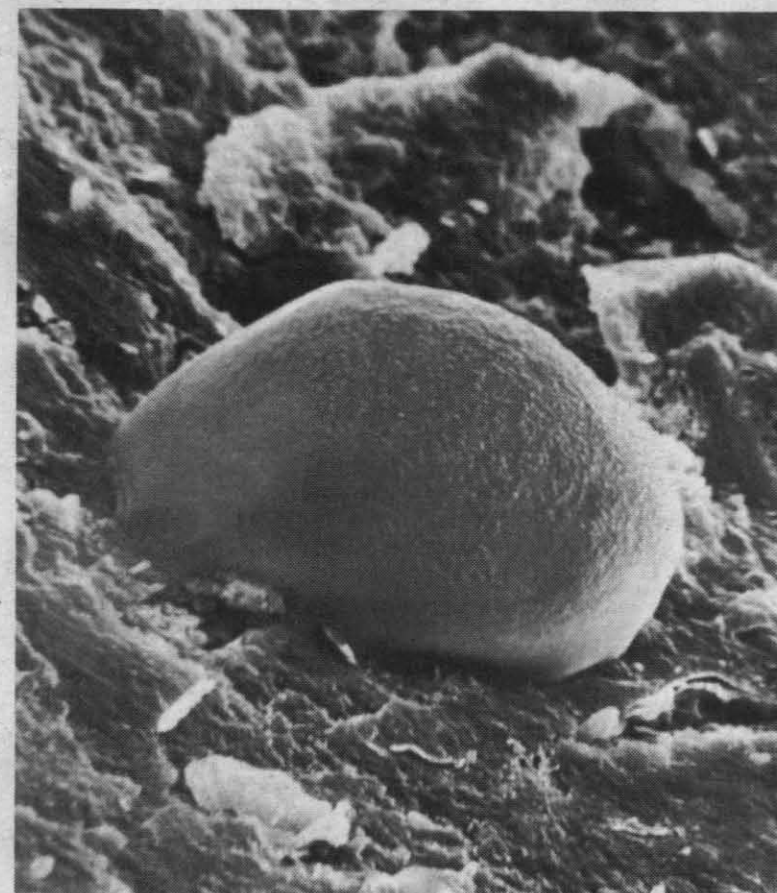
The State of California, in effect, is offering the motorist public the option of more self-insuring responsibility for safety on the highway.

Part of the 1947 financial law known as the security - following-accident provisions, requiring a special report to the DMV within 15 days after occurrence of a mishap on a public highway, when death, injury, or "damage to the property of any one person in excess of \$100" resulted from the accident.

DMV officials noted 95 per cent of the reporting drivers or owners are exempted from the license suspension penalties of this law by showing liability coverage or other exemption privilege.

Motorists were also reminded that any accident in the \$100 property damage category still requires reporting until the new law takes effect with the \$200 damage limit.

# Possible Life Forms Found In Fragments of Meteorite



FROM OUTER SPACE — Chemist Charles Drew calls it an "organized constituent," meaning that it appears to have been formed by means of a life process. Many of these were found in fresh breaks in fragments of the Chondrite Orgueil meteorite, each shape about .03 mm in diameter. Note orifice-like structure at constituent's left end. (Blow-up is 2,000 times.)

## Shapes Could Be Exobiology Or Relics From Infant Earth

BY JOHN R. McCABE

It is tempting to look at a new microscopic form, never seen before, embedded in a fragment from outer space, and see extraterrestrial life. It must be especially tempting when your expertise tells you that the form has all the appearance of something that once lived.

But Charles M. Drew of Research Department's Chemical Kinetics Branch is keeping his breath, even at the recent discovery of what Drew calls "organized constituents" in a fresh fracture of the Chondrite Orgueil meteorite. This meteorite fell near the town of Orgueil in France in 1864, and has been intensively studied ever since. Precious fragments of the meteorite were sent to Drew early this year through the Research Engineering Science Association.

### Is It Exobiology?

Drew's co-researcher into the possibility of exobiology, or extra-terrestrial life, in the meteorite fragments is Bartholomew Nagy, a professor at the University of California at San Diego. In the abstract to a paper to be presented soon, the pair discuss the recent find.

"The most interesting and possibly the most significant feature," they say, "is the discovery of some rounded objects about 30 microns (.03-mm) in diameter, having uniformly beaded surfaces. These objects are suggestive of organized life forms although other explanations remain possible."

The paper, called "Some Features of the Chondrite Orgueil Revealed by Scanning Electron Microscopy," is to be presented at the 30th Annual Meeting of the Meteoritical Society at NASA's Ames Research Center, Moffett Field, California, on October 15-17.

### Photos Star on BBC-TV

The director of a British Broadcasting Corporation TV educational series, Mary Hoskins, recently has been corresponding with Drew about the Chondrite Orgueil find. She envisions using some of the photos of the organized constituents in her "Further Education" series, "What Is Life."

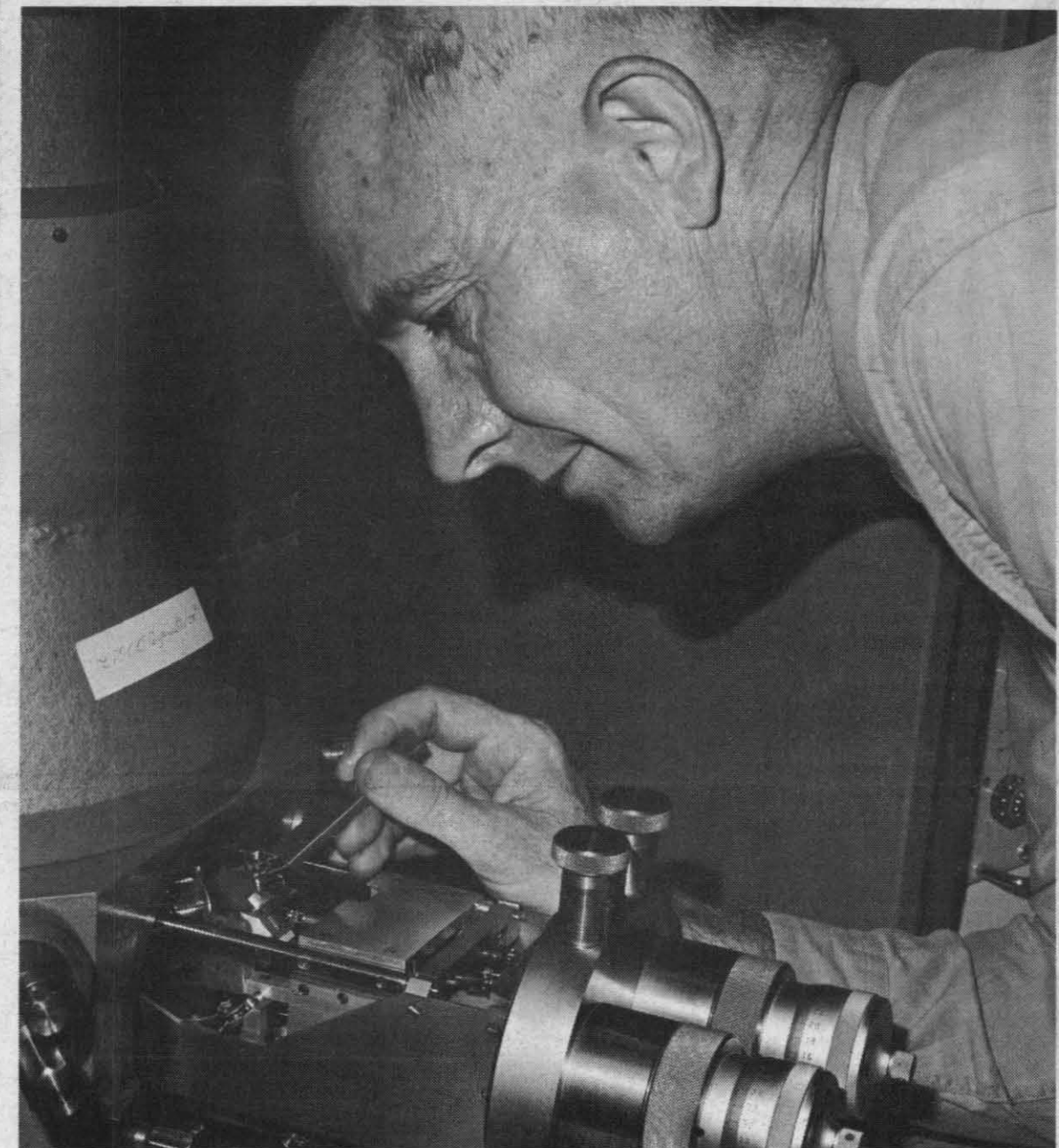
### Student Works With 'Scope

China Lake's Work Experience Program, bringing Burroughs High School students and the Naval Weapons Center together, provided the young man, Robert Ferrone, who took the pictures of the find. He took them as they appeared under the Research Department's new Stereoscan scanning electron microscope, using a Polaroid attachment.

The instrument, one of six in the United States as of last March, has much greater magnification power than light-type scopes, but less than that of the high-powered transmission electron types. It gives a three-dimensional view of high resolution — a valuable capability in research work.



Vol. XXII, No. 34 Naval Weapons Center, China Lake, California Fri., Aug. 25, 1967



FRAGMENTS BEYOND PRICE — Charles Drew inserts a specimen mount, holding minuscule fragments of the Chondrite Orgueil meteorite, into the specimen chamber of the Stereoscan scanning electron micro-

scope. Plastic coated for protection, the fragments present freshly broken surfaces to the electron beam. On them were found the shapes suggestive of living things. —Photo by PH3 Jerry Willey

### Origin of Meteorite

"We don't really know where the meteorite came from," Drew admits. "It could have come from the Solar System, or it could have been broken off from the earth in pre-Cambrian times and have returned in 1864."

If it is earthly stuff, and if the objects recently discovered once lived, then they may show a form of life existing some 3.5 billion years ago, only 1.5 billion years after what is now considered the earth's approximate birthdate.

Another problem, according to Drew, is that since 1864 the meteorite has certainly become very impregnated with living and non-living matter of the earth's surface. Study of fresh fractures in the meteorite fragments in controlled conditions help minimize the chances of confusing recent with original material.

(Continued on Page 3)

## Medical Breakthrough Indicated With Wide Search for Rare Trees

Is your avocado tree what you really think it is? A silly question, maybe, but to the Leukemia Volunteers of Los Angeles, California, the question is not as silly as it sounds. They would like you to take time out to take a closer look at that tree for it may prove to be a rare find.

Leukemia Volunteers are desperately trying to locate trees that resemble the glossy leaved avocado tree.

Named Camptotheca Acuminata, the tree is of primary importance to researchers seeking an early breakthrough in the treatment of leukemia victims. Camptothecin, a substance extracted from the fruit, bark and wood of the tree, has shown definite anti-

### TEMPERATURES



	Max.	Min.
August 18	106	75
August 19	107	78
August 20	106	70
August 21	104	69
August 22	103	67
August 23	103	68
August 24	101	68

## CPO Hawaiian Luau Ready for Sat. Night



## College Graduates, Faculty Members Spend Summer Working at Center

BY BUDD GOTT

Forty-four graduates and 14 faculty members from 28 colleges and universities across the nation are assisting the Naval Weapons Center's research and development team this summer, according to Robert C. Nelligan, Personnel Department recruitment coordinator.

Each college graduate and faculty member is afforded an insight into the Navy's major research and development center operation during their summer stay. According to Personnel officials, many college graduates enter government work following a summer of exposure to the professional growth opportunities at NWC. The summer employment program was originated here 20 years ago.

Following is a listing of the graduates and faculty members, their fields, their schools, and the departments to which they have been assigned:

### Weapons Planning

Faculty member Dr. Philip T. McCormick, physicist, Univ. of Santa Clara, is serving Weapons Development as a consultant. Lawrence L. Lapin, Univ. of California, Berkeley, is working as an analyst for the group.

### Central Staff

Graduate Robert L. Smith, physicist, Univ. of California, Berkeley, has been assigned to Central Staff.

### Systems Development

Graduates assigned to the Systems Development Department are: Roger H. Dreher, Univ. of Wisconsin, electronic engineer; David C. Foos, Univ. of Santa Clara, physicist; Joseph T. Jurick, Fresno State College, physicist; Marian J.

Romer, Univ. of Iowa, mathematician; John A. Rosenberg, Univ. of Nebraska, mathematician; William C. Sweatt, Univ. of California, Davis, civil engineer; and Duane A. Fojt, Univ. of California, Riverside, physicist.

### Aviation Ordnance

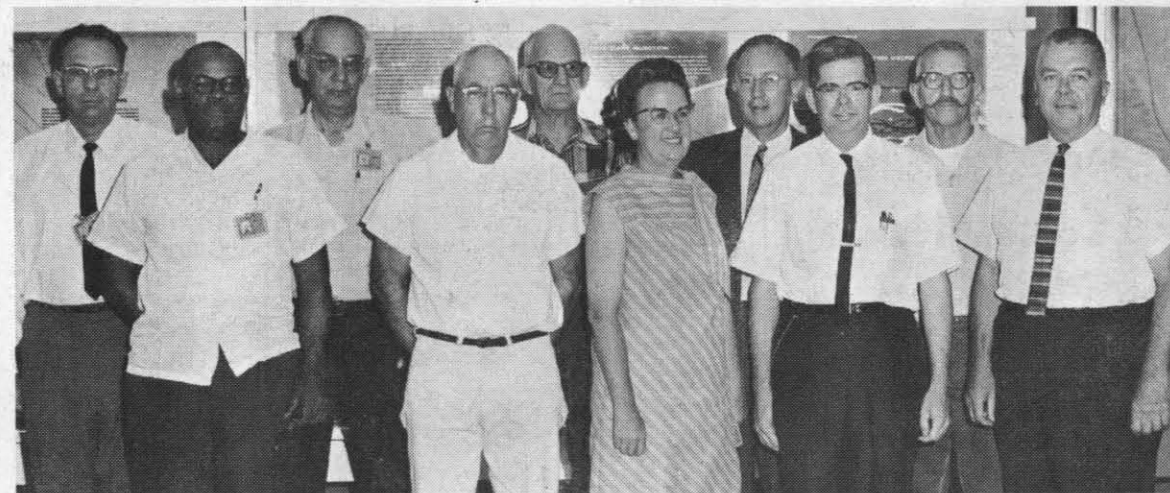
Johannes Tuul, physicist and faculty member of California State Polytechnic College, Pomona, is assigned to the Aviation Ordnance Department.

Assigned graduates are Gordon C. Collett, Oregon State Univ., electronic engineer; Donald D. Flescher, Univ. of California, Los Angeles, biologist; Sandra R. Fryer, Univ. of California, Santa Barbara, mathematician; Robert G. George, Brigham Young Univ., physicist; Kenneth Lee, Univ. of California, Los Angeles, physicist; Paul Love, Univ. of Arizona, mathematician; Kingsley Lunden, Sacramento State, mechanical engineer; Gary Maki, Univ. of Missouri, Rolla, electrical engineer; Allen Mann, California State Polytechnic College, Pomona, chemist; Douglas D. McGregor, Stanford Univ., mechanical engineer, and John H. Winfrey, Univ. of California, Berkeley, physicist.

### Weapons Development

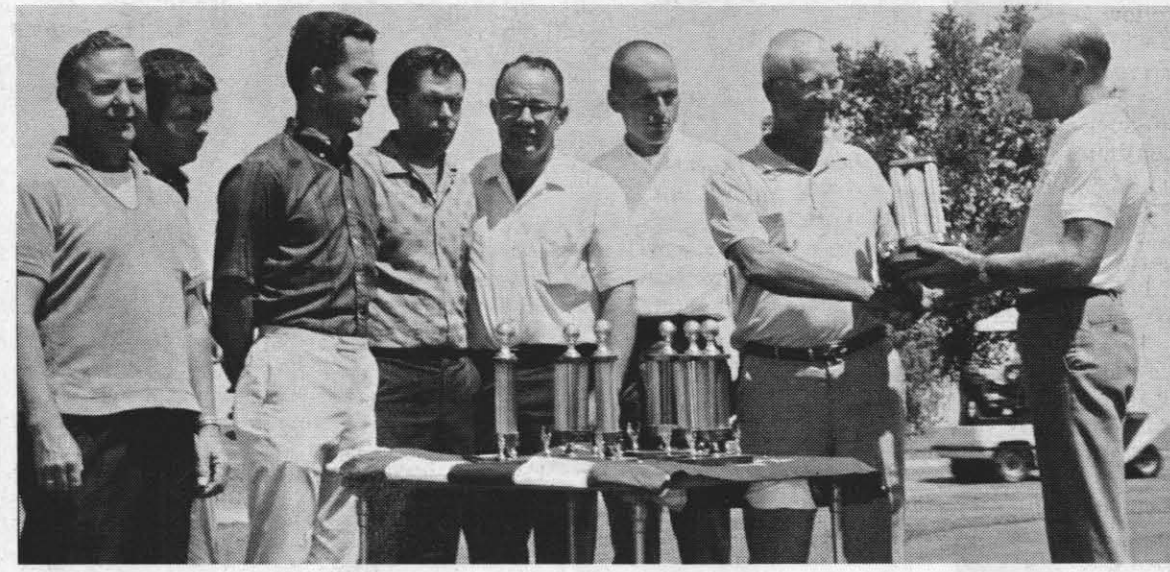
Faculty members assigned to the Weapons Development Department are Jack W. LaPatra, Univ. of California, Davis, electrical engineer; Philip C. Rymers, Univ. of Nevada, mechanical engineer; and Hughes M. Zenor, Univ. of Missouri, Rolla, mathematician.

Assigned graduates are Bing Chen, Univ. of Nebraska, electronic engineer; James W. Cherry, Chico State, biologist; John L. Freeouf, Univ. of Arizona, physicist; Albert T. Jones, Univ. of California, Davis, mechanical engineer; Jerry Kissick, Univ. of Wisconsin, mathematician; Donald B. Kummer, Univ. of California, Riverside, physicist; and Scott



**LONG SERVICE HONORED** — These Engineering Department people were recently presented with 20-year pins for Federal and NOTS (now NWC) service by F. A. Chénault (r), head of Code 55. They are (l-r)

K. R. Munro, (NOTS), Howard Miller (Fed), Earl Suladie (Fed), Donn Reed (Fed), Earl Smith (Fed), LaRue Haycock (Fed), Roland Reynolds (NOTS), Roy Conover (Fed) and Charles McGuire, 20-year Federal pin.



**RESEARCHERS WIN** — The eight men of the Research Dept. golf team beat 19 other China Lake teams in the intramural golf season from May 23 to August 8. Ray Gier (r), Special Services Athletic Director, pre-

sents the winners' trophies to (l-r) Larry Cosner, Owen Madden, Dan Hightower, Chuck Stanifer, Vern Jones, Bill Alltop and team captain Harold Turner. The 10 weeks of play progressed in round robin style.

zonia, physicist; Albert T. Jones, Univ. of California, Davis, mechanical engineer; Jerry Kissick, Univ. of Wisconsin, mathematician; Donald B. Kummer, Univ. of California, Riverside, physicist; and Scott

L. MacDonald, Univ. of Nevada, mechanical engineer.

Also Edwin A. McKinnon, Univ. of Nevada, mechanical engineer; John W. Myers, Arizona State Univ., electronic engineer; Gregory D. Peterson, Univ. of California, Riverside, physicist; Richard F. Puk, Univ. of Arizona, mathematician; Erwin Schwiebert, Oregon State Univ., physicist; and Douglas R. Warinner, Univ. of California, Davis, mechanical engineer.

### Propulsion Development

Faculty members assigned to the Propulsion Development Department are Barbara M. Moore, Brigham Young Univ., mathematician, and Waldemar Sippel, South Dakota State Univ., physicist.

Assigned graduates are Vincent Llamas, Univ. of Missouri, Rolla, physicist, and James N. St. John, Michigan State Univ., physicist.

### Research

Faculty members assigned to the Research Department are Dr. Robert C. Burton, Brigham Young Univ., mathematician; Dr. Hans Jonassen, Tulane Univ., chemist; Dr. Ruven S. Smith, Univ. of Connecticut, chemist; Dr. Wilbert Urry, Univ. of Chicago, chemist, and Dr. S. P. Venkateswaren, Univ. of California, Los Angeles, physicist.

Assigned graduates are Herman Krier, Princeton Univ., mechanical engineer; Ralph Lake, Harvey Mudd College, chemist; Edward Y. Mikami, Univ. of California, Los Angeles, mathematician; Ernest N. Platt, Loma Linda Univ., chemist; John T. Snow, Middlebury College, chemist, and Duke A. Sun, California Institute of Technology, physicist.

### Engineering

Graduates assigned to the

Engineering Department are Wayne M. Angel, Univ. of Santa Clara, physicist; Craig L. Carlyle, California Institute of Technology, electronic engineer; Thompson Fehur, Univ. of Utah, physicist, and Robert P. Gamino, Univ. of New Mexico, electronic engineer.

### Personnel

Faculty members assigned to the Personnel Department are Raymond J. Marsh, Bakersfield College biologist, and Dale Hughes, Murray School counselor.

### Other Groups

The 54 junior professionals who are beginning their NWC careers and the 95 summer office and science assistants will be covered in later issues of the Rocketeer.

## New Phone No. For Weapons Ctr. Effective Oct. 15

Officials of the California Interstate Telephone Company advised recently that the new telephone number for the Center will become effective Oct. 15. Personnel are reminded to note the change, 375-1411, when ordering business cards, stationary and other materials.

## NWC Liaison Ofc. In New Quarters

The Naval Weapons Center and Naval Undersea Warfare Center Liaison Office changed its location Aug. 21 to Rm. 2238 Munitions Building, Washington, D.C. Telephone numbers are: OXford 64126 and OX 6-2723.

# 17 Pursue Full-Time Graduate Studies

## Fellowships Aim 10 Candidates For Ph.D Degrees

A total of 17 NWC employees will be pursuing full-time graduate studies this coming year under the support of NWC Fellowships, according to Dr. A. G. Hoyem, Education Director. Ten will be on extensions of earlier grants, six on new NWC Fellowships, and one on an NWC Senior Fellowship.

The ten who have had their fellowships extended all have the Ph.D. as their objective. They are the following:

**Joseph S. Bottero** of the Weapons Planning Group will continue his studies at Oregon State University at Corvallis where he is specializing in Physical Oceanography. Bottero has been spending the summer at China Lake working with the Weapons Planning Group.

**Terence M. Donovan** of the Physical Optics Branch of the Research Department will be continuing his studies at Stanford University in Palo Alto in Materials Science. Donovan remained at Stanford this summer to pursue research for his thesis.

**John L. Eisel** of the Aerothermochemistry Division of the Research Department returns to the University of Utah to continue his graduate studies in Chemical Engineering. Eisel remained at the University through June to take his qualifying examinations.

**Allen B. Gates** of the Servomechanics Branch of the Engineering Department is attending Case Institute in Cleveland, specializing in Control Systems. Early this summer Mr. Gates was granted a three-month extension of his original fellowship grant so that he might remain at Case this summer and thereby shorten the time required to complete the requirements for the doctorate.

**Richard S. Hughes** of the Photophysics Branch of the Systems Development Department will be continuing his graduate studies in Physics at the University of California in Riverside. Hughes, a former NOTS Fellow, continued his graduate studies at Riverside this past year serving as a graduate assistant in Physics.

**Donald G. Quist** of the Navigation Branch of the Aviation Ordnance Department will return to the University of California in Los Angeles to continue his graduate studies in Engineering. Quist spent the past year at UCLA as a WEP-COSE program participant and was awarded the Master of Science Degree in Engineering in June.

**Frank C. Reed** of the Statistics Branch of the Research Department will be continuing his studies in Operations Research at Stanford University in Palo Alto. Reed has been spending the summer at the university pursuing his thesis research problem.

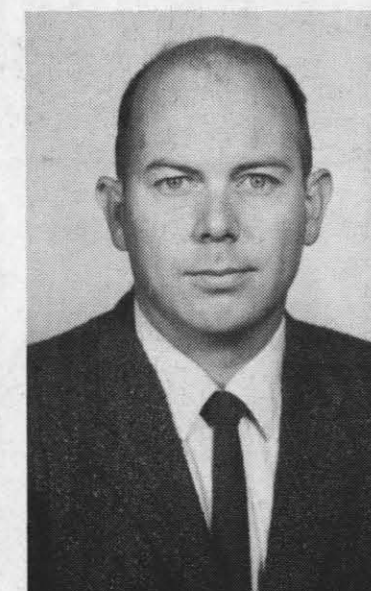
**Robert L. Rockwell** of the Dynamics Branch of the Weapons Development Department returned to his department in June for summer employment. He will resume his graduate studies at Stanford this fall



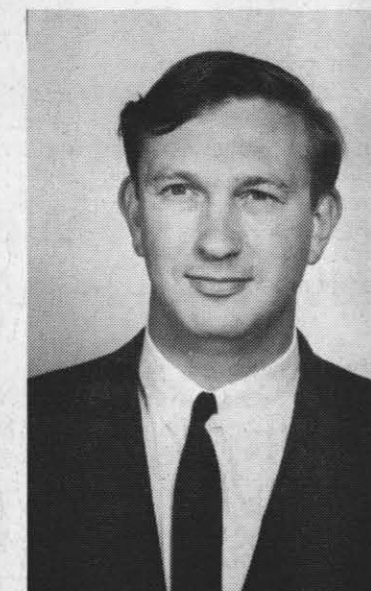
PAUL H. AMUNDSON



ROBERT D. COLEMAN



CLIFFORD W. FOUNTAIN



JOHN W. FRYE

in Aeronautical and Astronautical Sciences.

**William J. Stronge** of the Detonation Physics Division of the Research Department, another member of the NWC contingent at Stanford, will be continuing his graduate studies in Mechanical Engineering, specializing in Applied Mechanics. As in the case of other fellows who are nearing the completion of their doctorate, he elected and received permission from his NWC department to remain at the university this summer to continue his thesis research.

**William H. Thielbahr** of the Materials Technology Branch of the Propulsion Development Department is also at Stanford and will be continuing his studies there in Mechanical Engineering, specializing in Thermoscience. He likewise is spending the summer at the university pursuing thesis research.

The following are new NWC Fellows whose awards, like the extensions above, are for the duration of the 1967-68 academic year.

**Paul H. Amundson** will attend Montana State University to pursue graduate studies in Physics leading to the Master's Degree. He has been on leave without pay at Montana State this past year and will continue his studies there under the fellowship award.

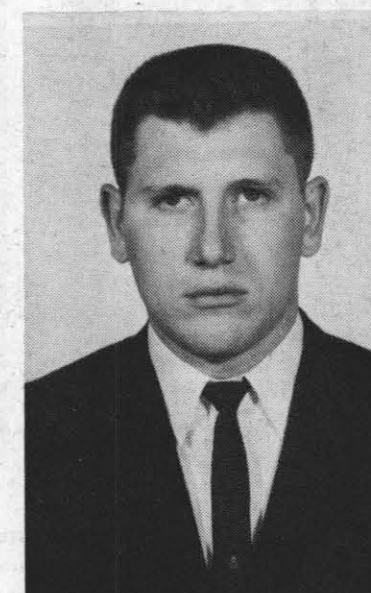
Amundson was born in Kalispell, Montana. He is a graduate of Montana State University where he was awarded a Bachelor of Science Degree in Physics in June, 1963.

Amundson has been a member of the Advanced Systems Branch of the Weapons Development Department since he came to China Lake in August, 1963. He and his wife, Marcia, have one daughter, Kara Christine.

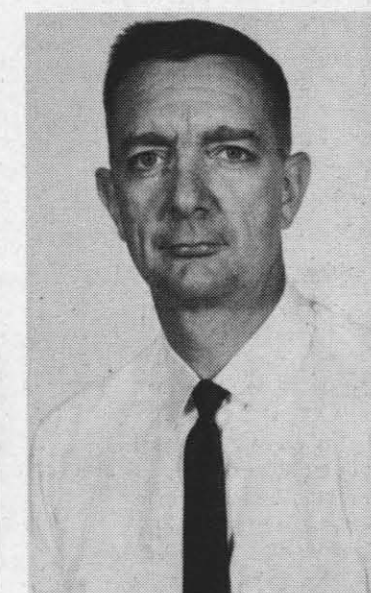
**Robert D. Coleman** will attend the University of California, Berkeley, for advanced studies leading to a Master of Science Degree in Electrical Engineering.

Coleman came to China Lake as a Junior Professional in June, 1956, arriving shortly after receiving a Bachelor of Science Degree in Electrical Engineering from Texas Technological College. He is a member of the Data Automation Branch of the Systems Development Department.

Coleman is a native of Lubbock, Texas. He and his wife, Patricia, have three children, Robert Dale II, Kathleen Elaine, and Cheryl Anne.



FLOYD S. HALL



H. NORMAN RONNING



RALPH P. SCHWARZBACH

**Clifford W. Fountain** will pursue advanced studies toward a Ph.D. in Materials Science at Stanford University. He is a Research Physicist with the Metal Physics Branch of the Research Department and has been an NWC employee since January, 1962.

Fountain graduated from the University of Oregon with a BA in Physics in June, 1959, and a Master's Degree in Physics in June, 1960.

Fountain and his wife, Susanne, have two children, Celeste and Christoffer Jon.

**John W. Frye** will enter New York University for graduate studies in Mechanical Engineering (Theoretical and Applied Mechanics) leading to the Ph.D. He received a Bachelor of Science Degree in Mechanical Engineering at Kansas University in October, 1960. He attended UCLA on a WEP-COSE Award during the 1964-65 academic year, and received his Master's Degree in Engineering from UCLA in January, 1966.

He is a member of the Engineering Design Branch of the Aviation Ordnance Department, and has been at China Lake since September, 1960.

Frye and his wife, Roslyn, have left for New York for a short vacation before he starts his studies this fall.

**Floyd S. Hall** of the Weapons Control Branch of the Weapons Development Department will enter the University of Missouri at Rolla for graduate studies leading to a Ph.D. in Electrical Engineering.

Hall is a graduate of this school, formerly known as the Missouri School of Mines, receiving his Bachelor's Degree in Electrical Engineering in July, 1962, and his Master's De-

gree in Electrical Engineering in May, 1966.

Hall came to NWC as a Junior Professional in June, 1963. He and his wife, Barbara, have one daughter, Constance.

**Ralph P. Schwarzbach** will attend the University of Utah for advanced study leading to a Master's Degree in Engineering Administration.

Schwarzbach came to China Lake in June, 1961, shortly after receiving his Bachelor of Science Degree in Electrical Engineering from the University of Utah. He has been a member of the Radar Branch of the Aviation Ordnance Department since completing his Junior Professional training in the spring of 1962.

Schwarzbach was born in Brooklyn, New York. His immediate family includes his wife, Patricia, his daughter, Sandra, and his son, Robert.

**H. Norman Ronning** is the recipient of an NWC Senior Fellowship and will pursue graduate study leading to the Degree of Engineer at Stanford University. His award is for a period of 12 months which includes the 1967-68 academic year and the summer of 1968.

Ronning came to China Lake in July, 1951, and has been associated with the Systems Development Department since that time. His present position is Head of the Electronics Systems Branch, Code 3045.

Ronning received his Bachelor of Science Degree in Electrical Engineering from Stanford University in June, 1954. He and his wife, Virginia, reside at 603-A Nimitz. They have one son, Matthew, and three daughters, Kirsten, Karen, and Lisa.

## Medical Breakthrough Indicated

(Continued from Page 1)

before it can be tested on human patients, researchers noted.

A few of the rare trees have been located in California, according to Dr. Robert E. Perdue, Jr., botanist of U.S. Department of Agriculture. But more trees need to be found so as to assure an adequate supply of camptothecin for the coming year or until recently planted trees are large enough to produce the drug.

The Camptotheca Acuminata tree is distinguished by its deep-ribbed, foliage-like avocado leafage. The leafage is a shiny rich green, with a dull, slightly gray-green colored underside. Its small round balls of

fuzzy white colored blossoms are set on individual three-inch long stems.

If you know the location of trees answering this description, cut off a leaf and mail it to: Leukemia Volunteers, 958 Rome Drive, Los Angeles, Calif. 90065. Be sure to include your name, address, telephone number and the address and city where you located the tree.

If you don't care to bother with this procedure, the Leukemia Volunteers invite you to call them at Area Code 213, 225-3037 with your important discovery.

Your concern may help researchers provide an answer to the leukemia victims plight.



**PICTORIAL DISPLAY**—Part of the August 28 Open House will include this 64-foot pictorial exhibit showing the complete technological scope of the giant Dallas-based

electronics firm. Visitors will also learn about the engineering and research work performed by TI people for the Naval Weapons Center.

## Texas Instruments Open House Aug. 28.

An invitation was extended this week to Naval Weapons Center personnel and their families to attend an open house and inspection tour at the new Texas Instruments Incorporated, Ridgcrest Facility, Monday, August 28, from 3 to 9 p.m. The new building is located at 1409 N. Norma St.

Visitors attending the celebration will see exhibits of electronic equipment produced by the local firm, and displays

showing technical capabilities of the Dallas based corporation.

R. C. Dunlap, Vice - President and General Manager of the Apparatus Division of Texas Instruments and other executives from the Dallas offices will attend the affair.

Texas Instruments Incorporated initially opened its Ridgcrest facility in October 1964 to provide engineering support to the Naval Weapons Center in a leased 3300 square foot

facility located on Balsam St. All phases of weapon system development are conducted at the Ridgcrest facility and some of the systems worked on at Ridgcrest are now in production for the fleet.

By late 1966 it became evident that larger quarters here would soon be required. Construction of the new 8,400-sq.-ft. facility was started last February and occupancy by the firm's employees took place in mid-July.





# NAVAL UNDERSEA WARFARE CENTER

PASADENA, CALIFORNIA

## Evelyn McDonald, Aram Malian Leave Long Federal Careers

Two long time Center employees, Evelyn McDonald and Aram Malian, have terminated their federal careers.

Evelyn McDonald's job performance was exceeded only by her ready wit, known to all friends and associates at the Center. Her job performance was recognized with three Outstanding Performance Ratings and a Sustained Superior Performance Award. In June 1954, a Meritorious Civilian Service Award was presented to her for "outstanding performance as a member of the Personnel Division. Her work is characterized by an unusual interest in the welfare of employees of the Pasadena Annex."



EVELYN McDONALD

Transferred from China Lake

Evelyn first came to work at China Lake in November, 1946, and transferred to Pasadena with the Personnel Office in September 1951. She was working in the Engineering Department when she resigned in 1956 for the birth of her son, Mike.

Returning in 1959, she was secretary to the Advance Systems Branch Head until her retirement.

Evelyn, her husband, Stan, and son, Mike, reside in Covina.

Aram Malian's parting words as he departed from the Center for retirement were: "This is the greatest place to work. Every moment of my association with the people here was pleasant."

Aram was born in Turkey and came to the United States in 1921 with his brother and family. They came directly to Pasadena to join another relative and Aram has never left. A "jack of all trades," he worked at many kinds of jobs during his new life here.

In 1943, he came to work for CalTech, then to General Tire and Rubber Company (GTR), and in 1948 Aram was



ARAM MALIAN

included in the blanket transfer of employees to civil service.

For the last two years at the Center, his duty station was Morris Dam where he specialized in all types of plumbing.

## Welcome Aboard

### New Employees

Dr. Glover S. Colladay, Supervisory Operations Research Analyst.

**Administration** — Mary L. Carlson and Dorothy C. Janes, Occupational Health Nurses; Edgar L. Durflinger, Guard.

**Supply** — Minnie L. Rogers, Clerk-typist; John F. Noland, Contract Negotiator; Patricia E. McKittick, Clerk-typist.

**Public Works** — Lee L. Sutton, Jr., Civil Engineer; Charles D. Suthard, Heavy Duty Equipment Mechanic.

**UOD** — Ronald B. Fugitt, Physicist; Alfred G. R. Van Lennep, Mathematician; William S. Lapp, Mathematician; Charles S. Sharp, Electronic Mechanic; Robert W. Means, Physicist.

### Working Aides

Robert D. Boatwright, Stephen E. Thome, Barry L. Darling, Richard Avalos, Karlene E. Nickoley.

## Suggestions For Christmas Gifts To Viet Nam Men

A letter from Mrs. Patricia K. Krause, Director of Public Information, United Service Organizations (USO), included helpful suggestions for Christmas gifts to our servicemen in Viet Nam.

A recent survey disclosed that items high on their "want" list include shaving equipment, foot spray, shampoo in plastic bottles, penlights, insect repellent, small jigsaw puzzles, first aid kits, key chains and key-cases, ballpoint pens, writing materials, medicated cleansing cream, small face towels, miniature sewing kits, large work handkerchiefs, hard candy in tins, and paperback books.

Small three inch recording tapes, medical scrub brushes, foam insoles for combat boots, heavy work socks, one - inch paint brushes, and small crossword puzzle books are also popular.

The USO advises that gift packages should contain an outside label identifying the contents. Donors pay postage from their hometowns to the APO in San Francisco Surface mail parcels should be mailed by October 1st to insure delivery in Viet Nam by Christmas.

Lynne Jordan, Head, Communication and Travel Branch, extension 607, has a complete list of all 15 USO clubs presently operating in Viet Nam.

## Credit Union Notes

Many people who have made loans with the NUWC, Pasadena Credit Union wonder why there is such an ado when loan payments are skipped, since they are quite willing to pay the additional interest and they plan to pay it all back eventually.

But — this is the point — all delinquent loans start with the omission of a regular payment! The credit committee has no way of knowing whether an omission signals the beginning of a bad loan with subsequent writeoff, or whether there is simply a temporary bind and the payments will be resumed later. In such a situation it is good policy to consult Gertrude Lindsay or a member of the credit committee beforehand. Perhaps a new loan with easier payments can be arranged.

## Tanglefoots Lead in Final Week of Play

By RAY HANSON

The Tanglefoots held a three game lead in the NOTS Summer Bowling League going into the 15th, and final, week of play. The 'Foots (Di Garfield, Peggy Sheldon, Ed Anderson, and John Watkins) have won 37 and lost 19, while their nearest rivals, the second - place Team No. 4 (Julie Hood, Linda Lindgren, Milt Blatt, and Al Roeske), have taken 34 and



**LENGTH OF SERVICE** — Front (l-r) John Trzcinka and Everett Gouge, 30-year federal service pins. Back (l-r) Harry Humason, 20-year federal service pin; Tom Boyle, 20-year NOTS pin, and Tom Fujii, 5-year NOTS pin.

## Century Plus Represented by Five In Product Engineering Division

Five men in the Product Engineering Division represent 105 years of federal service.

### Thirty Year Men

**John T. Trzcinka and Everett F. Gouge** have 30 years of military and civilian service behind them. John retired in July but Everett says he's "going for forty." Both came aboard from the Long Beach Naval Shipyard in December 1949, and both transferred to China Lake in 1954.

John left China Lake in 1955 but returned to NUWC, Pasadena, in 1956. His career with the station has run the gamut of machinist helper, machinist, model maker, planner and estimator and engineering technician. His federal service was rounded out with military duty in the U.S. Marines.

Bitten by the travel bug, John and his wife, Frances, purchased a mobile home and are presently making a grand tour of the United States with

plans to spend the coming winter months in Florida.

Everett remained at China Lake until he returned to Foot-hill in 1956. He is presently a Shop Planner (Machinist) in the Manufacturing and Product Engineering Branch.

His federal career had its beginning with the U.S. Navy. Other civilian service includes the Tennessee Valley Authority, and the Norfolk, Virginia, Naval Shipyard.

Everett resides in Monrovia with his wife, Chassie, and son Timothy, 9.

### Twenty-Year Men

**Tom Boyle**, Mechanical Engineer in the Mechanical Engineering Section, earned his NOTS 20-year pin for service since 1947. He started his federal career in 1938 with the former Bureau of Ordnance and with the exception of about a year with Mare Island Naval Shipyard (1940-1941), he remained with BuOrd until joining NUWC.

**Harry Humason**, Head, Mechanical Engineering Section, received his 20 - year federal pin. He worked at NUWC, Pasadena during the summers of 1949-1950 as a student aide while attending the University of California. After graduation in 1951 he came aboard full time.

Other service was his military duty served in the U.S. Army for two years from June 1944.

**Tom Fujii**, Photographer, was presented with a 5-year pin for service at the Center since 1962. Tom was previously employed at the Long Beach Naval Shipyard.

## Shoppers Asked To Return Carts

Several persons in the community have reported the apparent hazards of shopping carts left stranded in the Shopping Bag Market parking lot, Bennington Plaza.

The manager of the Shopping Bag has asked that the carts be returned to the sidewalk covered by the overhang in front of the market to help the situation. He mentioned one driver who, intent on missing a shopping cart, failed to see an approaching car, and a minor accident resulted.

## Football League Opens Sept. 18

The 1967 China Lake Flag Football League is tentatively scheduled to open Sept. 18, according to Ray Gier, Athletic Director.

All teams interested in entering the league are urged to submit entries to Special Services before 2 p.m., Sept. 7.

Team rosters will be limited to 16 players, including coaches. The initial meeting of coaches and other interested people will be held 2 p.m., Sept. 7.

## Rocking Chair Softball League Plans Underway

Plans for formulating a Rocking Chair Softball League are under way according to Ray Gier, Athletic Director.

The league is open to all members of the China Lake Community who are 35 years old or older.

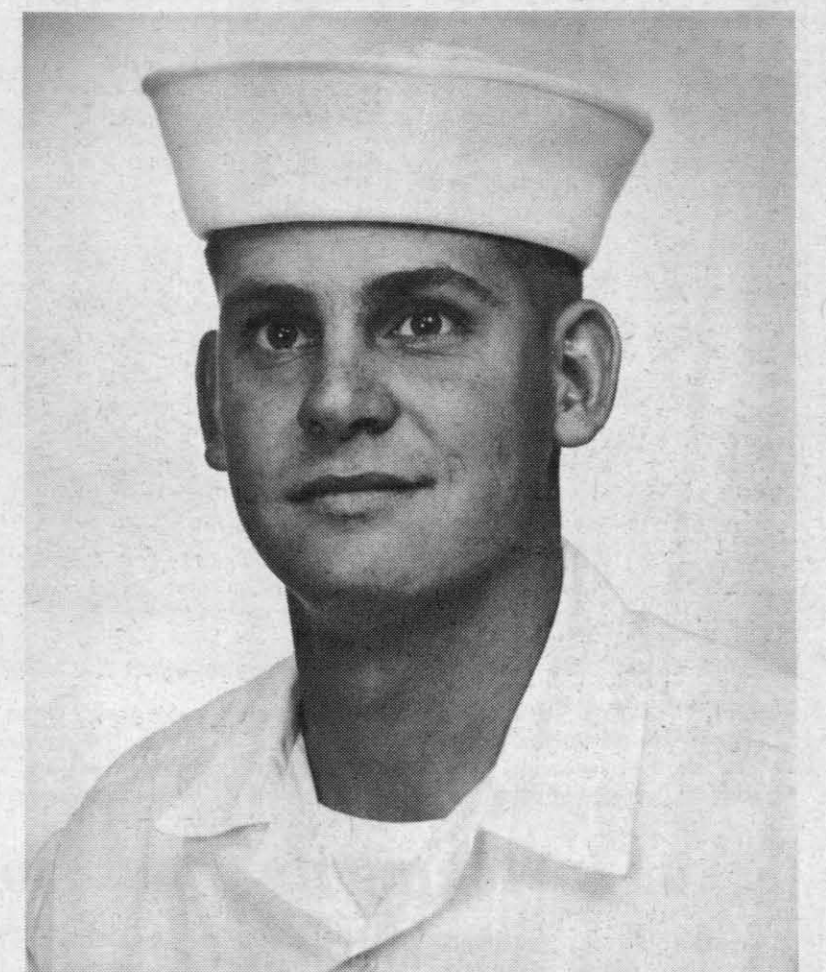
Gier stated a meeting is scheduled for team members and other interested people in the Special Services office, 1 p.m., Sept. 7. Team rosters are requested to be forwarded to Special Services before the Sept. 7 meeting.

## VX-5 Picks AN Larry C. Cady As It's 'Plane Captain of Month'



**AN LARRY C. CADY** landed running at his new duty station here at China Lake last January. A sailor only since October, 1966, Larry Cady has been chosen VX-5's "Plane Captain of the Month" for August. AN Cady is a native of Denver, where he attended high school before enlisting. "I first heard about Navy aviation from a buddy of mine who was a Third Class then," he says. "I like working with planes and around them, and I chose the aviation field for that reason." Larry works with a Phantom II on duty, and polishes up his baseball off duty. He also hopes to aid the VX-5 Vampires football team when the season begins.

## AN Russell Halgren Is Chosen NAF 'Plane Captain of Month'



**AN RUSSELL R. HALGREN** is the younger half of a father-son team at NAF and an A-4 plane captain on the NAF Hot Line. He has been a sailor for 11 months now, a China Laker for almost four years, and has been chosen NAF's "Plane Captain of the Month" for August. Russ Halgren came to China Lake in 1963 when his father, ADJC Raymond Halgren, began his tour here. A native of St. Paul, Minnesota, Russ graduated from Burroughs High School last year, and came to NAF from boot training at San Diego last January. He enjoys rebuilding cars in his off-duty time and relaxes with target shooting, swimming, and "boondocking" in the desert hills.



**THREE-IN-ONE TOUR** — Both instructors and students of California State College at Long Beach, together with industry representatives of the area, joined for a tour of the Center on Thursday last week. Seen

here in the Maturango Museum, the group also reviewed the manned submersible program under Willis R. Forman's guidance and were presented "A Tour of Viet Nam" by Larry V. Zabel of Code 4013.

## PROMOTIONAL OPPORTUNITIES

Procurement Assistant or Analyst, GS-5 or GS-7, Code 3008, NWC — Incumbent assumes all details and responsibilities of procurement required to support IR Suppression Program. Assignments given to the Technical Administrative Coordinator by the IRCM Group, Code 3008, of the Systems Development Department. These duties require detailed knowledge of procedures of Supply Department Procurement Staff and involve liaison between these personnel and the Technical Coordinator and the making of frequent direct contacts with Code 3008 technical employees and various contractors. Incumbent will be expected to assume increasing responsibilities for detailed follow-through on recurring procurement procedures. This position has growth potential to GS-9 rating for qualified applicants. Incumbent will be attached to Code 3008, NWC, China Lake, California, with duty station at NUWC, 3202 E. Foothill Blvd., Pasadena, California.

File application for above with Fawn Haycock, NWC China Lake, Bldg. 34, Rm. 24, Phone 71514.

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



## CHAPLAIN'S MESSAGE

## Dead Spots

By Senior Chaplain Paul Romantum

Recently, I read an interesting article with this title and it referred to the experience of a man who had been asked to deliver a sermon to a congregation. The minister advised him that in delivering his address he should speak up so all could hear for there were some dead spots in that particular church.

This reminded me of dead spots which exist in areas of Christian responsibility. Each of us must learn to speak loudly and clearly to overcome these dead spots.

What about the dead spot of Christian parental responsibility of raising children in the nurture and admonition of the Lord? The greatest legacy parents can leave their children is a vital and forceful religious faith.

Each Christian home is a place of learning for our children and our faith will reflect in their lives. Unless our Christian lives speak loudly and clearly, this dead spot of Christian responsibility will not be overcome.

The neglect of Christian worship is another dead spot which must be overcome. We need worship to renew spiritual power which is spent in the every day business of living. A doctor friend once told me that he needed to worship regularly to recharge his spiritual battery which seemed to run down very rapidly. Those who wait upon God through worship are those who renew their spiritual strength.

Dead spots in areas of Christian responsibility can be overcome when we are aware of them, and when we take positive action to correct them.

## Safety Officials Advise Motorists Use Extreme Caution During School Days

The Safety Department reminds Chinalakers that schools will soon be opening for the Fall term and more children will be using sidewalks and streets on their way to and from school and play.

Safety men say our national safety programs near schools are producing excellent results, but children walking on or near a street may still create a problem. They sometimes dart into the street, or cross midblock. They may be inexperienced and afraid to cross without some help from the motorist.

The Safety Department suggests that motorists be more alert to the possibility of danger at anytime a child is close to the street. They do the unexpected. Slow until you are satisfied they will not cause a problem, they say.

"Children, too, must be taught caution. If they aren't

sure what the driver will do, they should wait. Most children are taught the meaning of road signs and traffic rules but a STOP sign may instill a false sense of security in a child. Teach your child to watch out for those drivers who may not be watching for him."

## Retail Sales Store To Move Aug. 31

The Retail Sales Store will close temporarily Aug. 31 and begin moving to new quarters, according to Supply Department officials.

Remodeling and restocking of the new store, to be located in Supply Warehouse 41, Bldg. 1073, is scheduled for completion in September.

Opening date and shopping hours for the new store will be announced during September.

## The Rocketeer

Official Weekly Publication  
U.S. Naval Weapons Center  
China Lake, California

Capt. O. H. Lowe, USN  
NWC Commander

"12" Billie  
Public Affairs Officer

Joan Baber  
News Bureau

Frederick L. Richards  
Editor

Staff Writers  
Milt Sholly  
John R. McCabe  
Ed Rankin, Sports

Staff Photographers  
PH1 Jerry Williams, PH1 Gary D. Bird,  
PH2 Philip H. Beasley, PH3 Jerry Willey,  
PH2 R. Robey and PH3 J. Clark, NUWC.

DEADLINES:  
News Stories.....Tuesday, 4:30 p.m.  
Photographs.....Tuesday, 11:30 a.m.

The Rocketeer receives Armed Forces News Bureau material. All are official U.S. Navy photos unless otherwise identified. Printed weekly with appropriated funds in compliance with NavExos P-35, revised July 1958. Office at Nimitz and Lauritsen.

Phones.....71354, 71655, 72082

## DIVINE SERVICES

Christian Science (Chapel Annex)—  
Morning Service—10 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.

Roman Catholic (All Faith Chapel)—  
Holy Mass—7, 9:30 a.m., and 12:30 p.m. Sunday.

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—For information write P. O. Box 5436, China Lake, or phone NWC Ext. 725591.

## PROMOTIONAL OPPORTUNITIES

Present Station 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.

**Engineering Draftsman (Mechanical), GS-4, 5, or 6, Code 7034**—Incumbent will be assigned various phases of the mechanical aspects of engineering drafting work that covers air conditioning, refrigeration, ventilation, steam generation, and distribution, low and high pressure gas installations, cathodic protection, interior plumbing and noise abatement.

**Engineering Draftsman (Architectural), GS-4, 5, or 6, Code 7037**—Incumbent will prepare detailed architectural drawings, as assigned. The work assignments will cover improvements, construction, maintenance and repair of facilities such as R&D buildings, housing, schools, warehouses and commercial buildings.

**Electrical Engineer (General), GS-850-12, PD No. 170048, Code 7035**—This position is that of an Electrical Project Design Engineer. He works in the Electrical Branch, Engineering Division, Public Works Department. As Project Design Engineer he is responsible for each phase of the design process, from idea inception through completion of the construction, of a variety of complex and conventional facilities and installations.

**Electrical Engineer, GS-850-7, 9, or 11, Code 7035**—Incumbent is assigned work covering alterations and improvements, etc., concerned with engineering aspects of electrical power, interior lighting, fire alarm, etc. Incumbent attends planning and development meetings and becomes familiar with the project requirements. He examines existing records of facilities, and field investigations where no records exist.

**Architect, GS-808-9, PD No. 670002, Code 7038**—The primary function of the position is to provide architectural services for the drafting of contract specifications and engineering cost estimates, as assigned, so translates mechanical, electrical, civil, architectural and structural requirements into rough specifications.

**File applications with Dora Childers, Bldg. 34, Rm. 32, Phone 71392.**

**Clerk-Typist GS-322-3, PD No. 735082, Code 3512**—This position is located in Missile Development Branch B, Development Division I, Aviation Ordnance Department. The Branch designs and develops technical air to surface weapon systems and presently is responsible for NWC role in a Guided Weapon MI, Mod O, (Walleye) and its advanced versions. The purpose of this position is to provide typing, filing, and phone answering service in support of the Branch, and Branch Secretary.

**File applications with Mary Morrison, Rm. 32, Bldg. 34, Phone 72032.**

**Electronic Engineer, GS-855-9, PD No. 735079, GS-11, PD No. 735077, GS-12 PD No. 435024, (3 vacancies), Code 3519**—These positions are in the Armament Control Systems Branch. They involve research, design, and systems engineering work in microcircuits, transmitters, receivers, digital circuits and systems, propagation measurements, antennas, etc., involved with a complex missile data link system. Previous experience in one or more of these areas is desirable but not essential.

**File applications with Mary Morrison, Bldg. 34, Rm. 32, Phone 72032.**

**Aerospace, Electronics or General Engineer, GS-11, 12, 13, Code 4062**—Incumbent will define test objectives and instrumentation system requirements, and direct laboratory and flight test operations on programs to define shock, vibration and temperature environments on air and surface launched weapons. Position also involves the development of related test procedures and methods of data analysis.

**Engineering Technician or Physical Science Technician, GS-7 or 9, Code 4521**—Assists project chemist or engineers on a range of projects within the Missile Development Branch. Incumbent should have knowledge of algebra and geometry and should have mechanical aptitude. Experience and knowledge in the fields of chemistry, ordnance, and testing or evaluation would be an asset. First year development program would lead to incumbent's having larger responsibilities for branch projects.

**Writer-Editor, GS-1082-9, 10, 11, 12, Code 4551**—Prepares technical publications in the form of technical reports, progress reports, specifications, manuals, proposals, project plans, test plans, test reports and other technical papers to support department programs. Three years general and two years specialized experience mandatory; BA or BS in related fields desired.

**Engineer or Physicist, GS-9, 11 or 12, Code 4563**—Position is with the Fuel Air Explosives Project (FAE). Incumbent will design and supervise tests on the effects of air blasts on inanimate objects, the results to be used for predicting weapon effectiveness. Familiarity with structural response to dynamic loads is desired.

**Branch Head, Solid Propellant Branch, GS-13 or 14, PD No. 745022, Code 4521**—A chemist or chemical engineer who will be responsible for the technical, administrative and management aspects of a branch engaged in applied research and development of solid propellants and related chemical materials used in propulsion systems. The branch is currently involved in programs such as propellant binders, propellants for air-augmented systems, the physical properties of propellants, and propellant systems and a propulsion technology program.

**File applications for above with Naomi Campbell, Bldg. 34, Rm. 26, Phone 72676.**

**Clerk (Card Punch), GS-301-3 or 4, PD No. 468024, Code 3519**—Duties include coding and keypunching personnel information.

## Civic Responsibility

WHAT part do you play in the life of your military or civilian community? Are you an active participant in its affairs or do you "let George do it?"

Whether you are an unmarried serviceman or woman living in a barracks or a service family living in government quarters or civilian housing, you should take an active interest and make a positive contribution to your community.



The numerous civic, service, youth and church groups found in every town and on military bases offer excellent opportunities for you to serve your community, make new friends, broaden your knowledge and help maintain good relations between civilian and military population.

Service people have a wealth of talent and information to offer, based upon their varied backgrounds, experiences and familiarity with many areas in the United States and in foreign countries. You can provide new ideas, outlooks and energy to the groups and organizations which are vitally concerned with the well-being, growth and progress of the communities they serve.

Civic responsibility involves more than a neutral or negative approach to community affairs. Contributing your time and talents to the activities and projects of your military or civilian community is the positive approach to civic responsibility.

It will not only make your particular community a better place in which to live, but will make your tour of duty more enjoyable and personally rewarding. (AFNB)

on one of the following ranges: G-2, G-3, K-2, Victor, CT-4 or Randsburg Wash. **Secretary (DMT), or (Typing), GS-5, PD No. 630004, Code 3008**—Position is that of secretary to the Head, Infrared Countermeasures Group. Incumbent will provide secretarial services to the Group, handle details pertaining to the Group Heads' off-station, contacts, and generally become directly involved in the work of the Group through close association with the day-to-day work activities of his supervisor.

**File application for above with Fawn Haycock, Bldg. 34, Rm. 34, Phone 71514.** **Warehouseman, WB-69007-05, \$2.89 — \$3.01 — \$3.13 per hour (1 Vacancy), Code 2592**—Performs a variety of tasks in connection with the physical receipt, storage, and issue of supplies. Applicants must have had six months experience in warehousing. Written test is required.

**Clerk-Typist, GS-322-03, (1 Vacancy), Code 88**—Performs clerical and typing duties for the Medical Department such as processing and maintaining health records; maintaining files; collecting and compiling data for reports; typing correspondence, dispatches, clinical summaries and statistical reports.

**Crater-Packer, WB-66021-08, \$3.24—\$3.38 — \$3.52 per hour (1 Vacancy), Code 2598**—Packs, crates, straps and stencils material and equipment for shipment to the Center. This includes blocking, bracing and shoring of heavy equipment and machinery on and in railroad cars and motor trucks. Requires one year of packing and equipment experience in a warehouse or in a reservation treatment. Six months of this experience must include the use of hand tools or power equipment in fabricating and/or securing shipping boxes and crates.

**Stockman, WB-69007-06, \$3.00 — \$3.13 — \$3.26 per hour (2 Vacancies), Code 2593**—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.

**Clerk-Dictating Machine Transcriber, GS-316-04, (1 Vacancy), Code 503**—Works in the Detonation Physics Division of the Research Department. Major duties include office management, personal and telephone contacts; dictating machine transcriber and related duties. Two years experience for GS-4 level.

**File applications for the above with Carole Cadde, Bldg. 34, Rm. 28, Phone 71648.** **Electronic Engineer, GS-855-13, PD No. 735083, Code 3519**—This position is located in the Armament Control Systems Branch. The work of the branch consists primarily of research, design, test, development and liaison in connection with missile data link systems. The incumbent's specialty is radio frequency transmitter and receiver systems, test equipment design, and system test and analysis on the Can-Dor Data Link System.

**File applications with Mary Morrison, Bldg. 34, Rm. 32, Phone 72032.** **Clerk-Typist, GS-3, PD No. 755103, Code 5502**—Provides clerical assistance to Head of Staff, is recorder and Secretary for Department Beneficial Suggestion Committee, screens new positions, coordinates maintenance review and prepares letters for request of appointment for sensitive positions and letters of exception. Prepares reports and forms and may assume duties of Department Secretary in his absence.

**File application for above with Loretta Dudley, Bldg. 34, Rm. 34, Phone 71514.** **Electronic Engineer (Instrumentation), GS-9, PD No. 58552, GS-11 PD No. 26851, GS-12 PD No. 130066, Code 3073**—Performs electronic engineering related to electronic data acquisition, timing, control, and time - position systems applied to tests conducted on the supercavitic test tracks SNORT. B-4 and G-4 will be primarily concerned with tied - borne radio - link and ground - based landline telemetering systems. Excellent opportunity to gain experience with telemetering systems, and to develop responsibility in electronic data acquisition techniques and applications.

**Engineering Technician, GS-9, 10 or 11, Code 2021**—Position is located in the Range Engineering Branch, Range Operations Division. The incumbent will be responsible for the range engineering, planning, and coordination of experimental ordnance tests.

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## THE LOCKER ROOM

## The New Stadium

By ED RANCK



San Diego is a city that has been trying to acquire a big league image for a long time. Employing what may be the most active Chamber of Commerce in the country, the village to the south of Los Angeles has become one of the finest cities in the United States in the last 20 years. It's a nice place to live but when you speak of big-time sports, San Diego isn't exactly the first locale that comes to mind.

Even the restless owners of professional sports, who make a habit of moving or threatening to move their franchises every few years apparently haven't considered the town seriously. Such cities as Kansas City, Oakland and even Anaheim got the call long before San Diego, an injustice that may be as gross as the time Cinderella finished third behind her two sisty uglers.

San Diego's reputation as a minor league town has come to an end. Quicker than you could say \$27.5 million dollars, the city entered the big time last Sunday as the new San Diego Stadium opened its gates for the first time.

This may be the finest structure dedicated to fun and games that has ever been built. Although it may lack the Astrodome's beauty of design and it isn't as big as some of the other sports palaces that have been built in the last few years, when you consider all the functional necessities that are really important to the sports fan, there isn't a stadium in the country that is better.

## Choice Seating

San Diego Stadium seats 50,000 people, but once inside you get the impression that the place is much smaller. Following the pattern of other new sports structures, the seating is set in five levels. All seats seem to be in such close proximity to the field that there is an intimate atmosphere one would expect in a place only half its size. There isn't a bad seat in the house, everything being arranged so that all spectators are facing the 50-yd. line. All seats are theater style, and there is enough leg room so that you don't have to worry about your best shoeshine getting cllobbered everytime someone down the aisle wants to get out. The place is so neat looking that you almost feel guilty throwing your peanut shells on the floor.

The most pleasant surprise about San Diego Stadium is the traffic situation. Anyone who has ever attended the opening of a new sports facility knows that such events are usually accompanied by a traffic snarl of momentous proportions. Here, maximum time from the freeway to your seat is about one-half hour, and it should get better once a few minor problems are worked out.

The Stadium is located almost in the center of the San Diego metropolitan area. It's just north of Highway 80 in Mission Valley, and there probably isn't a location in the San Diego area more than a half-hour away by freeway. It is our opinion that the citizens of San Diego, who shelled out 27.5 million dollars for the place, got a bargain.

If there was any one thing that was a little disappointing about the opening, it was the opening game itself. Some San Diego Charger fans have been talking about a possible victory in the Super Bowl this year, but if Sunday's game was any indication, they can forget it. The Chargers, who are one of the AFL's fastest teams, met the Detroit Lions, one of the NFL's slowest. Speed made the difference in the game, but it was the Lions who did the running. Detroit won 38-17, but it was worse than the score might indicate. It was all over in the second quarter when Detroit scored 24 points.

## Right to Gloat

NFL fans, who feel that their league is far superior, have every reason to gloat over this one. The Chargers didn't even belong on the same field with the Lions on this particular day. The Christians would have given the Lions a better battle than the Chargers did.

San Diego played without Lance Alworth who is the best flanker in captivity, and without Alworth, the Charger offense wasn't too effective. They also missed safety man Leslie Duncan, and Lion receivers Pete Malanchuk and Pat Studstill spent most of the afternoon running away from the Charger's defensive secondary.

There was one contest, however, that may indicate that the AFL is a lot closer to the NFL than many people think. The Charger offensive line outplayed the Lion's front four and this isn't easy, considering the fact that the Lions' defensive line is one of the best ever assembled.

The matchup between the Charger right side consisting of Walt Sweeney and all-pro Ron Mix, versus Darris McCord and Alex Karras was particularly interesting, and it was Mix and Sweeney who won it. Although quarterback John Hadl didn't have a very good day, it wasn't because he didn't get good protection.

The Chargers play the Los Angeles Rams at the Stadium this Sunday, and they are going to have to do much better just to stay alive against tough Rams. No matter who wins though, San Diego Stadium is certainly a great place to have it happen.

## Fraser, Moore Earn Trophy Awards For 1967 Golfing Skill

Don Fraser is the Senior Men's Division, fourth place title holder, while Ruth Moore held on to eighth place in the Women's Division of the 1967 All - Navy Golf Championship held at the Naval Air Station, Pensacola, Fla., last week.

Representing the Naval Weapons Center in the four-day championship play-offs, Fraser and Moore competed with some of the Navy's top golfers on the 7300 yard, 72-hole course.

"The Medal Play involved some of the toughest course obstacles placed before us," commented Fraser, as he reflected on the competitive event. He further stated, "90 sand traps, strategically located and numerous water obstacles appeared to be constant tests of our golfing skills."

Fraser's shooting tally in the Senior's Division reflected a 78, 79, 81 and 82 for a final total of 320, earning him the fourth place berth.

Moore's 91, 100, 103 and 99, marked an impressive 393 for her eighth place win.

Fraser and Moore earned second place honors and were awarded engraved golf trophies in the 11th Naval District Finals held at El Toro Marine Air Station, Calif., July 31-Aug. 3rd.

Naval Air Facilities, Mike Rowell, was a contender in the Open Division 11th Naval District Northern Area elimination



SPORTSMANSHIP PAYS OFF—Ruth Moore, left, and Don Fraser display second place golf trophies won in the 11th Naval District Finals early this month at the El Toro Marine Air Station, Calif. Competing in the 1967 All Navy Golf Championships, Moore placed eighth in the Women's Division while Fraser took fourth place in the Senior Men's Division. Lieutenant Moore is a Communication's Officer with NWC. PNCS Fraser is assigned to the Center's Military Personnel Office.

at NAS, Los Alamitos, qualifying for district finals, but was eliminated from the line - up during the playoffs at El Toro.

All Navy Championship winner, Capt. Bob Wallace, commanding officer, Ellyson Field, Pensacola, came from two strokes behind to win the Senior's Division with a finishing 77 for a four-round total of 310.

Mary Ann Breeze, a 20-year-old seaman radioman from the Naval Communications Station, San Francisco, Calif., ran away from her competition and won the Women's Division by 11 strokes. She had steady rounds of 81, 82, 84 and 83 for a 330 total.

Top golf contenders assemble next week at Pensacola for the 1967 Interservice Championship.

## League Enters Final Week Play For Top Place

Ace TV moved a step closer to the championship of the China Lake Softball League as league action entered the final week.

Ace received help from an unexpected source, as Genge defeated the second place Triangle Sporting Goods club last week, then clinched a tie for the championship Monday, defeating Magic Cleaners. Ace needed only a win against the sixth place NAF Hawks Thursday night to win it.

Seventh inning singles by Gerald Crow and Tom Talley drove across the tying and winning runs as Ace came from behind to defeat Magic Cleaners, 4-3. Ace fell behind 3-0 in the first inning, but Dennis Carson's two run triple in the second put Ace back in the game. Frank Robinson went all the way for the win, scattering four hits over the last six innings after a shaky start. Earl Roby was the loser for Magic.

Bill Brown scattered three hits and struck out six as the Ridgecrest Tigers defeated Ace 4-2, last week. Dave Martin's two run double in the first gave the Tigers an early 2-0 lead. Ridgecrest added single runs in the second and sixth, then held off a late Ace rally to win their 14th game of the year. Robinson was the loser for Ace.

Homeruns by Bill Byrd, Dave Wilkie, and Jim Bradberry's two run triple in the seventh were the big hits as Genge Industries nipped Triangle Sporting Goods, 6-5. Genge opened up an early 4-0 lead, then made it 6-2 on Bradberry's hit in the seventh. Triangle put together four hits in the bottom of the seventh, but was unable to tie it up. Tony Scanlan was

the winner for Genge while Pete Klassen was the loser.

Bob Kochman and Bill Beedle led Magic Cleaners to a 4-3 victory over the NAF Hawks in a 14-inning game, the longest game played this year. Kochman pitched all 14 innings for Magic, striking out 13 and limiting the Hawks to four base hits over the last 10 innings.

Beedle collected four hits for the winners, driving home Bob Palmer with the winning run in the top of the 14th. NAF touched Kochman for three runs in the first three innings but Magic came back, tying the game in the fourth when Beedle tripled and later scored on an error. Don Sicheley went the first seven innings for NAF, scattering three hits in a fine performance. Jerry Rafalski pitched well in relief, shutting out Magic on five hits until the final inning.

The Engineers rallied for three runs in the fifth and sixth innings to defeat NWC, 7-1. Paul Amundson was the winner, allowing just two hits, including Bert Lambert's game tying homer in the fifth, Lambert was the loser for NWC.

NWC rallied for four runs in the fourth inning to defeat VX-5, 7-3. Mike Choiniere drove in two runs during the rally as the winners overcame an early 3-2 Vampire lead. Red Audin collected three hits for VX-5, while Choiniere, Fred Crenshaw, Bret Harney and Roy Kelly had two each for NWC. Bret Lambert was the winner for NWC and Jack Gann took the loss.

In action Tuesday night, Triangle rolled up an early 7-1 lead then coasted to a 7-4 vic-

tory over Ridgecrest. Rich Schroeder's bases loaded triple in the second capped a five run rally as Triangle collected six of their seven hits in the first two innings. Kel Bennett limited the Tigers to one hit over the first five innings before giving way to Pete Klassen. Brown fanned eight to boost his league leading strikeout total to 128.

Jim Clark homered and drove in three runs on three base hits as the NAF Hawks defeated Genge, 12-3. The Hawks scored four in the fourth to break a 2-2 tie, then rallied for six more in the seventh to put the game away. Jerry Rafalski went the first six innings for NAF to win it, while Tony Scanlan was the loser.

## Handicapped Kids Swimming Classes To Start Sept. 6

Beginning Wednesday September 6, swimming classes for physically handicapped children will be held at the gymnasium swimming pool. All physically handicapped children in the Indian Wells Valley are eligible and are encouraged to attend the free classes given every Wednesday from 3 to 4 p.m. during the school year.

The classes are sponsored by the Kern County Society for Crippled