Inside . . . Ice Cream Social Gen. Groves Dies

Employees Graduate

New NL Logo

Sports

Showboat



YOUNG JOE AND "LOLA'S"-Richard Olson (c), who will portray "Young Joe" in the Burroughs Summer Player's production of "Damn Yankees," is surrounded by four Burroughs students who will portray different facets of "Lola," the female lead in the play. Seen from left to right are: Gail Reed, Barbara Lewis, Olson, Melaine Moore and Kathy Felkner. The play, which is directed by Bea Moore, p.m. in the Burroughs Multi-Use Room. In addition, a 2 a.m. will open July 30, and will play July 31 and August 1 at 8 p.m. in the Burroughs Multi-Use Room. In addition, a 2 p. m. matinee will be performed on August 1. Tickets, priced at \$1 for all, are presently on sale at the Gift Mart in Ridgecrest, and at the school office or at the door on the nights of the production.

were supported the following

year by an NWC Fellowship.

Jeter is employed as a Mechan-

ical Engineer in the Structural

Mechanics Branch (Code 4062)

of the Weapons Development

Department. He resides at 119-

Starnes E. Walker was award-

ed a Master of Science degree

in Physics from the University

of California at Riverside. The

award was in recognition of

having qualified by examina-

tion for study toward the doc-

torate. Walker received the

Bachelor of Science degree in

Physics from UC, Riverside in

June 1968 and pursued his

graduate studies during the

1969-70 academic year under

an NWC Fellowship. He will

continue his studies in Physics

during the 1970-71 academic

year under an NWC Fellowship

extension. Walker has been

employed as a Physicist at the

Naval Weapons Center, Corona

Annex, since June 1968 in the

Systems Techniques Branch

ment. He and his wife Fran-

ces reside at 4449 9th Street,

Riverside, California.

(Code 5012) of the Fuze Depart-

Donald J. Zeleny was award-

ed a Masters of Science degree

in Physics from the University

of California at Riverside. The

award was in recognition of

having qualified by examina-

tion for study toward the doc-

torate. Zeleny obtained the

Bachelor of Science degree in

Physics from the New Mexico

Institute of Mining and Tech-

nology in 1967. His graduate

studies at UCR were supported

by an NWC Fellowship during

the 1968-69 academic year and

by an extension thereof this

past year. Zeleny is employed

as a Physicist at the Naval

Weapons Center Corona Annex

in the Missile CM Branch II

(Code 4242), Missile Systems

Department. He and his wife

O'cilla reside at 3460 Anderson

Street, Riverside, California.

B Hancock, China Lake.

Advanced Degrees

(Continued from Page 4) Ridge Rd., China Lake.

Edward L. Jeter was awarded an Engineer Degree in Applied Mechanics from Stanford University. Jeter received his Bachelor of Science degree in Mechanical Engineering at the University of Oklahoma in January 1964 and a Master of Science degree in Applied Mechanics at Stanford University in 1968. He began his employment at NWC as a summer employee in 1962 and 1963 and returned immediately upon receiving the Bachelor of Science degree. His studies at Stanford were begun in the Fall of 1967 under a WEPCOSE Award and

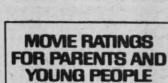
NL Logo

(Continued from Page 7) styles and shapes, all of which seemed either too extreme or hard to read. After a great deal of experimentation and consideration, I combined the letters NL into what I felt was a bold but simple solution."

There are three significant things happening in this logo, which symbolizes a contemporary forward-moving organization: first, is the use of an easily read bold gothic face; second is the slanted italic nature of the letters to give it a feeling of urgency and movement; and third the arrow on top of the L gives it a contemporary upward thrust, which is symbolic of this and the coming century.

During the design process two checks were made with Dr. Joel S. Lawson, Jr., the Director of Navy Laboratories, to determine if he was satisfied with the design. Some changes resulted.

Asked if he was happy with the final design, Johnsen said, "Yes, considering the process by which a new logotype is born, I'm happy with it, and I think it will stand the test. There are of course in any design exercise the inevitable suggestions, changes, and compromises involved, but then I'm sure that you are aware that design by it's very nature is a subjective and sometimes controversial matter."



The objective of the ratings is to inform perents about the suitability of e content for viewing by their chil

ALL AGES ADMITTED

RESTRICTED R Under 17 requires accompany

NO ONE UNDER 17 ADMITTED
(Age limit may vary
in certain areas) ••••••

ALL DE AND THE PILMS RECEIVE

"OTLEY" (91 Min.) Tom Courtnay, Romy Scheider 7:30 P.M.

(Spy/Comedy) Unambitious, perennial "Loser" Otley gets invited to a party and ends up the foil of an espionage and double-cross in this frantic farce that shows the Mod-Hippie scene and a hysteric chas scent. (GP). "Bloddy Mama" concelled. Short: "Tawian Today" (19 Min.)

-MATINEE-

"RHINO" (92 Min.) Robert Culp 1:00 P.M. Shorts: "Hippodrome Tiger" (7 Min.) "Listen Judge" (16 Min.)

-EVENING-"MY SIDE OF THE MOUNTAIN" (100 Min.) Ted Eccles, Theodore Bickel

7:30 P.M. (Adventure) DON'T MISS this engrossing story of a teenager's search for self-knowledge by sustaining himself, and a pet racoon, in the Canadian wilds. Could YOU live off the land with pure and simple existence from it?? (G) Short: "Vitamin Pink" (7 Min.)

JULY 19-20 "M*A*S*H" (116 Min.)

Elliott Gould, Donald Sutherland 7:30 P.M. (Comedy) This Mobile Army Surgical Hosmaintains their sanity, in the face of their horrible daily task, by zany hijinks of sex and scalpels. Golf and Gore, and irreverent jabs at the establishment the military-but it's all just for aughs! In fact it's just about anti-everything but fun, sex and heckling the conal. Two new stars are born! (R

TUESDAY-WEDNESDAY JULY 21-22 "NORWOOD" (95 Min.) Glen Campbell, Kim Darby

7:30 P.M. (Comedy/Music) Fun-filled adventures of a recent ex-Marine who gets fed up with nall town job, goes to New York for a fling with a pretty hippie and then down South to fall for Kim and a college-Short: "It's a Tough to Be a Bird" (22 Min.)

THURSDAY-FRIDAY JULY 23-24

"MOSQUITO SQUADRON" (90 Min.) David McCallum 7:30 P.M.

(Air War Drama) How could the dreaded German V2 rockets be stopped? The story behind the success of this specially trained squadron is an exciting one of strong men

and the origin of skip bombing. (G)
Shorts: "Pink Valiant" (7 Min.)
"Take Off" (10 Min.)

LCdr. R. M. St. Germain, Head, NWC Security Department, and R. H. Bodwell, Associate Department Head, now have offices located in Bldg. 879, between Halsey and King St., on the Center.

In addition, the Contract Security and Classified Management Office is also located at that address.

One other move was made by the Security Department within the past week - the Office of Visitors-outgoing, has moved to the Trailer at the Main Gate.



NEWCOMERS WELCOMED - Doris Valitchka and Gloria Randle were the first to greet those who attended WACOM's recent event that was designed to introduce newcomers to the area to some of the older residents. The event, which was held at the COM, was chaired by Mrs. H. G. Wilson, assisted by Mrs. M. R. Etheridge.

Poster Reveals Change In Political Activity The Civil Service Commis-

sion has issued a revised political activity poster for federal employees as a guide to the type of political action they function. may or may not take under the provisions of the Hatch Act. Copies of these posters will soon be distributed to the various Codes on the Center for posting on Department bulletin boards and other conspicuous places.

The only major change is the following sentence added to the bottom of the poster:

"CAUTION: An employee's conduct is also subject to the regulations of his agency."

An attorney in the CSC's office of the general counsel said this applied to something like wearing buttons. While this is allowed, even political buttons, the added sentence refers to agencies where wearing buttons "may disrupt the work situation," according to the at-

Another change dropped the word "partisan." It was decided that some employees were confused in this context.

Under the new wording the pertinent paragraph states: "You may not be a candidate or work in a campaign if any candidate represents a national or state political party."

For additional information or further clarification, contact your departmental personnel

Present Guidelines The poster lists the following new guidelines: You may register and vote

as you choose. You may assist in voter registration drives. You may express your opin-

ion about candidates and is-You may participate in campaigns where none of the candidates represent a political

From

You may contribute money to a political organization or attend a political fund-raising You may wear or display po-

litical badges, buttons, or stick-You may attend political ral-

lies and meetings. You may join a political club or party. You may sign nominating

petitions. You may campaign for or against referendum questions, constitutional amendments,

municipal ordinances, etc. You may not campaign for partisan candidates or political parties.

You may not work to register voters for one party only. You may not make campaign speeches or engage in other activity to elect a partisan can-

You may not be a candidate or work in a campaign national or state political party.

You may not collect contributions or sell tickets to political fund-raising functions.

You may not distribute campaign material in a partisan election. You may not organize or

manage political rallies or meetings. You may not hold office in

a political club or party. You may not circulate nomi-

CALL:

446-3333

You may not campaign for This past week, word was or against a candidate or slate received by District adminisof candidates in a partisan trators that this project had been approved. The NDEA Title III Project is based on matching funds with the Dis-IN AN EMERGENCY trict paying 50 per cent and

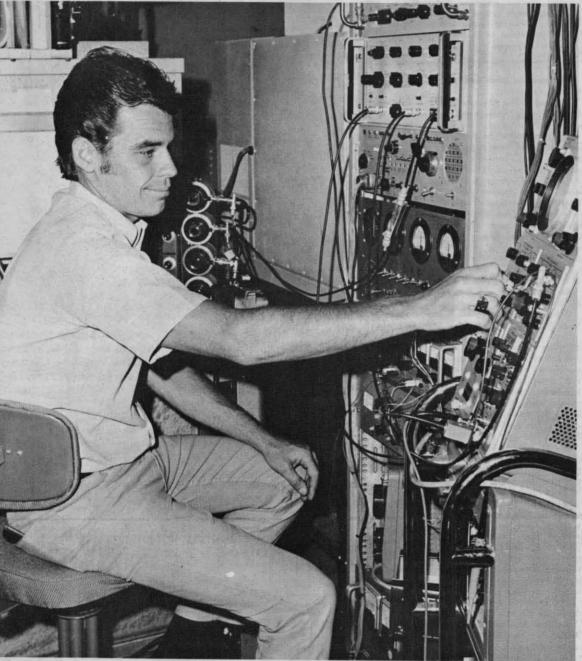
> ing the other 50 per cent of the total cost of the project. Some of the things which the District hopes to accomplish with the funds are the provision of television receivers in classrooms; central signal distribution system at each school; and a video tape re-STAMP

corder which will allow the schools to record programs for broadcast at a teacher's discretion. At the present time, completion of this project is dependend upon action by the US Congress on the HEW appropriation bill from Fiscal Year





Unique Packaging Support Offered Here



EXACTING WORK-Dave Roberts, an employee of the Test and Coil Development Section, Electronic Prototype Branch, tests a missile computer. Jobs such as this are

NDEA Project

Funds Approved

Lake Elementary School Dis-

trict had applied for a National

performed daily in the Section in order to accumulate data to evaluate designed or redesigned missile electronic circuitry. -Photo by PH3 L. H. Detweiler

Instrumentation Research and **Development Projects Supported**

The Test and Coil Develop- cuits and three capacitors. ment Section of the Electronic Prototype Branch, NWC Engineering Department, is staffed and equipped to support Center research and development projects in two major fieldsand magnetic device design and construction.

Headed by Bob Waters, the Section's primary objective is to complete the Branch mission by offering a comprehensive prototype product. This goal is accomplished in two ways: Supporting the Packaging Section, where equipment is fabricated in a variety of configurations, by in-process testing and qualification of completed equipment; and design and establishment of instrumentation systems and procedures with support from the Packaging

The first and primary function of the Section-support of packaging — saves customers time and expense due to the Section's capabilities to complete an entire project within the Section, from a beginning schematic, to a completed module. In addition, the need for designers to make special test set-ups is eliminated.

An example of this function was the Code's involvement in the recently completed 60Hz Sync Generator modules for the WALLEYE project. The task assignment originated as a request for the Packaging Section to lay out and construct 15 modules. The modules were of cordwood type construction containing 19 integrated cir-

Due to the nature of con-

struction, it was necessary to test all of the integrated circuits before installation in order to eliminate the possibility of component failures, as re-Instrumentation related tasks; pair was considered impracti-

In order to accomplish the task, the section's responsibilities on the project included qualification of all components before installation, which required special test fixtures and instrumentation to simulate circuit conditions; the location of capacitors that were deemed satisfactory for use in the environmental conditions to be imposed on the module; experimentation necessary to determine the capacitance value range in order to achieve proper circuit alignment; the purchase of capacitors (which required a search and ended with the discovery that only one manufacturer made a suitable capacitor); selection of capacitors and "marriage" to integrated circuits to obtain given pulse widths; and the final testing of completed modules to design parameters.

Before delivery to the requestor, the Code performed troubleshooting to isolate faulty components, which proved to be the most important phase of the assignment, as approximately 50 per cent of the modules had failures due to unforeseen manufacturer's defects in components. The troubleshooting skills and methods developed in the Section made it possible, however, to isolate the faulty component and accomplish repair without damaging the modules. thus there were no modules

Packaging

The second function of the Section - requiring packaging support-is utilized by many

Lunar Samples To Be Exhibited

The Naval Weapons Cen ter, through the University of Arizona and also through NASA, will display two examples of lunar samples in the main entrance of Michelson Laboratory on July 20 and 21. The lunar samples which consist of one igneous rock which weighs 1.8 grams, and 4 grams of fine dust, were taken on the Apollo 12 mission.

The samples will be exhib-



20-YEAR PIN PRESENTATION - Acting NWC Technical Director H. G. Wilson received a 20-year NWC pin at ceremonies conducted recently by Capt. M. R. Etheridge, NWC Commander. The award pin was

the first to be issued of the new service mementos. Designed by Dick Johnsen of TID, it is inscribed with the new Navy Laboratories logo (See page 7). -Photo by W. Fettkether

(Continued on Page 5)

ited in a closed display case from 7 a.m. to 6 p.m. both days. In addition, exhibit handout material will explain the NWC role in using the Scanning Electron Microscope to study the samples.





HONORED BY NAVY RELIEF-Jeanne Robcke (2nd from left) was honored at a tea recently by the Navy Relief Society for the many hours of unselfish volunteer work which she has devoted to Navy Relief causes, at a tea held at 1 Enterprise Rd., on the Center. Bernice Putnam, the Executive Secretary of the Long Beach Auxiliary of the Navy Relief Society, (2nd from right) was present for the tea. J. H. Robcke, left, recently retired Executive Officer of NAF, and Capt. L. A. Dewing, NAF Commanding Officer, also attended the function, which was hosted by Mrs. Ann Etheridge.

Park Commission Asks Clean-Up

The China Lake Park Commission wishes to remind Center residents who intend to use McBride Park as a picnic site that the Park must be kept in a clean and orderly condition.

Users of the park are asked to police the park before leaving and to empty the G.I. can after use into the trash bin located just outside the fence.

Too often lately, groups using the Park have failed to leave the Park in the same condition in which it was found. When this happens, members of the Park Commission have found it necessary to clean the park before it could be used

In addition, the Commission has asked residents to bring a metal bucket from home if they intend to use a brazier. Residents should not empty coals from the braziers in the

Two further items of interest to persons using the park -the rest room facilities should be checked before leaving, and patrons of the park are reminded that the sprinklers go on at 10 p.m. In the past, persons in the park have been doused because they were not warned of this fact. IF YOU HAVE TO HAVE DRUGS



DIVINE

Sunday School—8:30 a.m., Chapel Annexes 1, 2, 4 (Dorms 5, 6, 8) located apposite Center Restaurant.

Holy Mass-7, 8:30 and 11:15 a.m.

Daily Mass-11:30 a.m. in Blessed Sac-

Confessions—7 to 8 p.m. Saturday, and 8 to 8:25 a.m. Sunday.

NWC Jewish Services (East Wing All-Faith

Chapel)-8 p.m. every first and third

Sabbath School-10 a.m. to noon, every

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

rament Chapel. Saturday, 8:30 a.m.

Protestant (All-Faith Chapel)-

Morning Worship-10:00 a.m.

Roman Catholic (All-Faith Chapel)-

SERVICES

The Rocketeer

U. S. Naval Weapons Center China Lake, California

"J." Bibby Public Affairs Officer

Joan Taylor Assistant Public Affairs Officer Director of News Bureau

Jack C. Lindsey Lucille Edwards Editorial Assistan

PH1 Gary D. Bird, PH2 Delmar E. Hart, PH2 Michael F. Krause, PH3 Maurice Dias PH3 L. H. Detweiler, PHAN Ronald G. Mills Staff Photographers

DEADLINES: Tuesday, 4:30 p.m. . Tuesday, 11:30 a.m. Rocketeer receives American Forces Service material. All are official U.S. photos unless otherwise identified. d weekly with appropriated funds in liance with NavExos P.35, revised July ... 3354, 3355, 2347 **PROMOTIONAL OPPORTUNITIES**

ROCKETEER

Employees are encouraged to apply for the positions listed below. Current applications (SF-171) or Standard Form pelow. The fact that positions are ad vertised here does not preclude the use

from 17 to 24 July, 1970.

Technical Writer / Editor, GS-1083-7 - 11. Code 4551-The incumbent performs writer/ editor services for all technical programs department. The technical documenincludes preparation of proposals, program plans, test reports, progress reports, specifications, manuals, and other documentation in support of the programs. GS-7 3 years of general experience and 1 year of specialized; for GS-9 3 years of general and 2 years of specialized; for GS-11 3 years of general and 3 years of specialized experience as defined in Hand-book X-118. Job Relevant Criteria: A bachelor's degree or its equivalent in one of the engineering fields is desirable.
File applications with Pat Gaunt, Bldg.
34, Rm. 202, phone 2723.

a variety of duties in the set-up, firing, and control of tests and experimental operations on explosives, missiles, projectiles, and propellants. Minimum Qualification Standards: Rating will be on ability to do the work of the position as defined in the appropriate Job-Element Standard. File above applications with Pat Gaunt, Bldg. 34, Rm. 202, phone 2723.

Security Officer, GS-080-12, Code 8401-Associate Department Head for Security responsible for formulation of policies and procedures necessary to conduct the security programs vital to the mission of the Center. Minimum Qualification Requirements: Three years of general experience and three years of specialized experi ence of which one year must be at the GS-11 level. See X-118 for description of general and specialized experience. Job Relevant Criteria: (1) Supervisory abilities; (2) Substantial experience in all phases of security specialist positions.

File applications for the above with Carole Cadle, Bldg. 34, Rm. 204, X-2925.
Accounts Maintenance Clerk, G5-520-2,
3, 4 or 5, Code 1762 (3 vacancies)—Examination, validation, and verification of ac-counting documents and forms, posting of tion of errors on postings, entries, computations, balances, etc. Minimum Qualification Requirements: GS-2: High School graduate; GS-3: High School graduate plus 1 year of general clerical experience; GS-4: year of general clerical experience plus I year of specialized experience as stated n X-118. Advancement Potential: GS-5.

(Continued on Page 4)



tise the Ice Cream Social sponsored by the Protestant Women of the All Faith Chapel to be held on Tuesday, July 21, from 6 p.m. to 9 p.m., on the Chapel lawn. Mrs. Richard Murphy, chairman for the event, stated that old-fashioned ice cream, cakes, pies and beverages wil be available to those who attend. In addition, a barbershop quartet and the COMNAVAIRPAC band will provide entertainment for the affair, while cartoonist Gene Warren will be on hand to draw pictures for the younger set. Tickets may be obtained from any member of the PWOC, or at the Chapel office, or on the evening of the event. Donations are 50 cents for adults, 35 cents for servicemen, and 25 cents for children

CENTER LIBRARY LISTS NEW BOOKS

is available in the library.

Egan-The Wine of Violence. Egleton-Piece of Resistance. Harrison-Best SF: 1968. Holt-Secret Woman. Sharp-Rosa.

Slaughter-Countdown. Turner-Measure of Dust. Updike-Bech: A Book. Non-Fiction

Beagle-California Feeling. Bravery-Home Brewing Without Failure.

A complete list of new books Brenton-Voyage of the Sierra Sagrada: Across the Atlantic in a Canoe.

Friday, July 17, 1970

Bullitt-Search for Sybaris. Button-The Authentic Child. Campbell-Handbook of Real Estate Investment.

Dauven-Powers of Hypnosis. Drago-Notorious Ladies of the Frontier.

Flick-New Streamside Guide to Naturals and Their Imitations.

Gunston-Hydrofoils & Hover-



DISPENSARY RECEIVES TV SETS-Mrs. Don Word, a patient at the NWC Dispensary, admires the two Panasonic TV sets given to the Center Dispensary by the Protestant Women of the All Faith Chapel recently. Chaplain Gordon Read, NAF Chaplain (I),

and Mrs. Roy Cobb, Ruth Circle Service Chairman of the PWOC (2nd from left), presented the sets to Capt. G. W. Jauchler and Cdr. E. G. Graves, Medical Department Head and Chief Nurse, respectively. -Photo by PH3 M. H. Dias

New Service Pin To Be Presented By NWC

Awards Incorporate New NL Logo Designed by Johnsen

The first of the new NWC length of service pins was awarded on July 15, 1970. (See picture on page 1.)

for men and clutch pins for women. During 1970, 205 people will be eligible for five year awards, 196 people for 10 year, and 128 for 20 year.

The award was designed by R. A. Johnsen, Head of the Animation and Illustration Branch of TID's Presentations Division. They were manufactured by J. A. Meyers and Co. of Los Angeles.

A supply of the new awards is now at China Lake and individual departments have begun to obtain them for forthcoming presentations.

Strikingly modern in design, the new awards incorporate the symbol recently adopted by the Director of Navy Laboratories to symbolize the whole group of Navy laboratories. NWC is the first laboratory to incorporate the new symbol in its length of service awards. Other laboratories are expected to start using the symbol for Navy labs in their own awards, signs, etc., shortly.

New Symbol

The new symbol for Navy laboratories is as bold, modern, and memorable as any of modern industrial corporations. As a piece of graphic communica-

The new awards are tie tacs ies are boldly moving into the future through their many pro-

> The new Navy laboratory design is flexible enough to be used in various relationships with other elements. For example, the NWC identification is not lost in being incorporated with the Navy Laboratory Symbol - an important factor when used by a laboratory as individualistic as NWC.

Incorporating the Navy Laboratory Symbol in individual laboratory designs however, points up the fact that the lab is part of a large group dedicated to the same general objectives of progress through research and development.

DNL Encourages Use

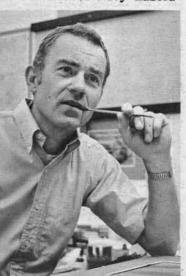
In announcing the new symbol, the Director of Navy Laboratories encouraged individual laboratories to incorporate it into their own designs for signs, awards, etc.

To insure that the design is kept uncluttered and useful to all labs, each proposed design incorporating the Navy Lab Symbol must be approved by the Director of Navy Laboratories. A Center Instruction is expected shortly to set forth the internal procedure at NWC tion it says the Navy laborator- for obtaining these approvals.

New Logo Developed To Show Navy Lab Oneness

used graphic symbols of various kinds to represent things. Royal Crests, signs above tavern doors, trademarks, flags, and corporate logos all have the same purpose—a kind of shorthand to represent a thing, a place, or an organization.

In asking for a logo design, the Director of Navy Labora-



R. A. JOHNSEN, Head, Animation & Illustration Branch, TID, designed the new NWC length of service Awards as well as the new Navy Laboratory Logo. Johnsen's formal art training was obtained at Northern State Teachers College in South Dakota, the Academy of Art in Chicago, and the Art Center School in Los Angeles. He has had a wide range of experience in merchandising display, commercial art, and advertising design. He and his wife, Eleanor, have been at China Lake since 1962.

From earliest times man has tories recognized that the Laboratories as a group need a symbol that distinguishes them from other Navy activities. People remember graphic symbols much easier than names, so a good logo makes for quick identification and a lasting im-

How Design Evolved

R. A. Johnsen, the designer of the logo, said "When I undertook this design task I first tried to get some feel for the breadth of activities of the Laboratories-looking for some common denominators. I fairly quickly concluded that they were a little like a corporate conglomerate in that they were involved with many, many things

In reading about them and discussing the problem with my supervisor, I concluded that the chief things the labs had in common were that they were Navy and they were advancing into the future through their research and development programs."

Johnsen continued, "I explored dozens of design concepts. Some were pictographs, none which seemed appropriate or communicative. I eventually ended up where I started-with the two letters N L. I experimented with virtually every possible combination of the two letters.

"My early thumbnail sketches were somewhat conservative. I used traditional gothic faces in the early stages of design, because of their readibility and design flexibility. Many of these early design efforts were developed into varying (Continued on Page 8)



NEW AWARDS-New NWC Length of Service Pins incorporate recently adopted symbol for Navy Laboratories. The Five year pin

is made of bronze, the ten year pin of sil ver, and the twenty year pin is made of gold. The pins will replace those previously used.





PRIME MOVERS-R. A. "Dick" Johnsen, designer of new logotype for Navy Laboratories, discusses design with his supervisor, E. E. Kirkbride, Head of TID's Presenta-

tions Division. Kirkbride has handled the details of obtaining acceptance of the design and aided DNL in offering it to various laboratories. -Photo by W. Fettkether



Bob Kochman Wins Two As 76'ers Widen Gap

Bob Kochman and Dave Tavlor were the big news in the China Lake Intramural Softball League in games played for the week beginning July 8. Kochman pitched a 4-hitter against Triangle Sporting Goods, and threw a 2-hitter at VX-5.

Union 76 won both games, defeating Triangle 12 to 1 and VX-5 8 to 0, with Dave Taylor hitting a home run in each game and batting in 3 runs in each contest.

Not to be overlooked, however, was VX-5's stunning upset win over the NAF Hawks, 8 to 6, on Thursday, July 9. Tom Haus homered with one on for the Hawks and Jon Vomastic pitched a 4-hitter for the Vampires.

In other games played dur-ing the week El Ranchito defeated VX-5 5 to 0 on the strength of a 1-hitter by El Ranchito pitcher Billy Brown. Dick Braun homered for El Ranchito with two aboard.

Code 30 (2) Lead, But Keep Close Eye on a Group of Sand Baggers

With three weeks remaining in the China Lake Intramural Golf League, Code 30, team 2 holds a slim ½ game margin over a charging Ground Pounders team. However, the Sand Baggers, who are 31/2 games behind the league leaders, seem to have the best chance to win it all. At this point in the league, the schedule comes into a position of prominence due to the three teams ahead of the Sand Baggers, (Code 30, Team 2; Ground Pounders; and Code 17) all have byes within the next three weeks. Code 30, Team 2 will not play on the final week, the Ground Pounders have a bye next week (July 21), and Code 17 has a bye the week of July 28.

In games played July 14, the Ground Pounders swept four points from a hapless Duffers squad and Code 551 took four from the One Eleven's.

Code 17 managed 2.5 points



The Bishop All Stars softball team will play a double header against the leagueleading Union 76 team of the China Lake Intramural Softball League on Saturday, July 18. The first game is scheduled to begin at 6:30 p.m. All Centerites are cordially invited to attend the games at Reardon Field.

In the second game Thursday, July 9, Bill Brown again racked up a win, defeating Ace TV 10 to 5. There were no homers in the contest, which saw El Ranchito pepper away at Ace TV, getting 12 hits for their 10 runs.

In the final contest on Monday, July 13, Pete Klassen threw a 4-hitter against El Ranchito for Triangle Sporting Goods, but lost a heart-breaker in the final inning, 3 to 2, when he struck out Dick Braun, who gained first base on a Passed Ball, and scored on a series of errors. Billy Brown, the winning pitcher, gave up six hits, one of which was a two-run homer to Andy Gilpin.

| | W. | L. | GBL |
|-------------|----|----|------|
| Union 76 | 13 | 4 | |
| El Ranchito | 11 | 6 | 2 |
| NAF | 9 | 7 | 31/2 |
| Triangle | 8 | 9 | 5 |
| Ace TV | 6 | 10 | 61/2 |
| VX-5 | 3 | 14 | 10 |

from the Chaparrals and Code 30, Team 2, took 3 from Code The Sand Baggers took 2.5 points from the last place Rocketeers and the Chargers and Code 30, Team 1, will play a delayed match, postponed from July 14. NAF was idle.

| | Points |
|-----------------|--------|
| Code 30 (2) | 26 |
| Ground Pounders | 251/2 |
| Code 17 | 23 |
| Sand Baggers | 221/2 |
| NAF | 211/2 |
| Code 551 | 211/2 |
| Chaparrals | 21 |
| Code 5541 | 16 |
| Code 30 (1) | 15 |
| One Elevens | 13 |
| Duffers | 111/2 |
| Chargers | 101/2 |
| Rocketeers | 9 |

Vehicle Records Not Always Right States DMV Head

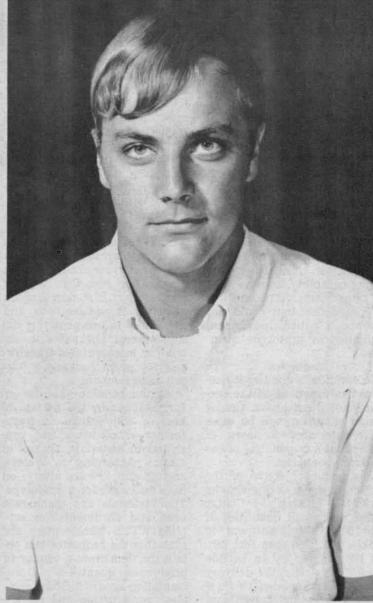
Thousands of vehicle records in the files of the California State Department of Motor Vehicles show the wrong owner, stated Jack Souders, manager of the local DMV branch.

"This is due to persons who sell an auto through a private transaction failing to notify Sagramento of the exchange," Souders said.

According to DMV Director Robert Cozens, motorists who sell a vehicle should fill out registration form 138, which notifies Sacramento that an auto has been transferred.

In this way, even if the vehicle's new owner fails to notify the DMV after taking delivery of a vehicle, ownership records will show that a transfer has been made.

Cozens added that it's still the buyer's duty to inform the DMV within 10 days after taking delivery of a vehicle, so that the ownership records can be rewritten in his name.



ROCKETEER

Athlete Of The Month

The NAF Hawks were the hottest team in the China Lake Softball League during the month of June. They started the month in fourth place, two games behind the league leaders, and by June 22 had jumped into a tie for first after compiling a record of 6 wins and 2 losses.

The winner of all six of those games was the Hawk's pitcher, Steve Wittrock, who has been named Athlete of the Month for June by Special Services.

Wittrock started and finished every game NAF played in June, and on one occasion won on consecutive nights. Although he had played softball at home in Halbur, Iowa, Witt-

rock never pitched on a regular basis until this year. "Softball is really big back home," he says. "I was always a substitute, third string or something."

In China Lake, however, NAF has found that there is no substitute for Wittrock. A third class aviation machinist's mate during duty hours, Wittrock was nothing but first class on the mound. He pitched 54 innings (no other hurler even approached that figure) and was the prime force behind the Hawks' move to the top of the league.

A fastballer with superb control, Wittrock finished June with an earned run average of 1.81 and walked only nine men, an average of one per game.

IWV Swim Team Swamp Delano In Meet at COM

Friday, July 17, 1970

The Indian Wells Valley Swim Team emerged wet but victorious at the Commissioned Officer's Mess Swimming Pool Saturday, July 11, when they defeated the Delano Swim Club in a meet which included 38 first place ribbon winners from

The first place winners were as follows:

Individual Medley - Nancy Gilkinson, 8 and Under Girls; Karl Nicholson, 8 and Under Boys; Kris Odencrantz, 9-10 Girls; Steve Hamm, 9-10 Boys; Becky Beresford, 11-12 Girls; Kris Bjorklund, 13-14 Girls; Bob Seeley, 13-14 Boys; Jane McGlothlin, 15-17 Girls; Jon Allan, 15-17 Boys.

Butterfly — Vicki Rungo, 8 and Under Girls; Cary Miller, 8 and Under Boys; Mary Kay Porter, 9-10 Girls: Kirk Odencrantz, 9-10 Boys; Lauri Adicoff, 11-12 Girls; Jan Hillard, 13-14 Girls; Jane McGlothlin, 15-17 Girls; Bruce Hillard, 15-17 Boys.

Backstroke - Nancy Gilkenson, 8 and Under Girls; Cary Miller, 8 and Under Boys; Kris Odencrantz, 9-10 Girls; Steve Hamm, 9-10 Boys; Laurie Adicoff, 11-12 Girls; Kenny Hayes, 11-12 Boys; Bob Seeley, 13-14 Boys; Carol Seeley, 15-17 Girls; Allan, 15-17 Boys.

Breaststroke - Vicki Rungo, 8 and Under Girls; Chris Lockwood, 8 and Under Boys; Lori Noland, 9-10 Girls; Ricky De-Marco, 9-10 Boys; Elaine Forrester, 11-12 Girls; Richard Mello, 11-12 Boys; Steve Forrester, 13-14 Boys; Linda De-Marco, 15-17 Girls.

Freestyle — Anne Hugo, 8 and Under Girls; Carol Boyd, 9-10 Girls; Jon Goettig, 9-10 Boys; Linda DeMarco, 15-17

IWV will attend two meets on Saturday, July 18-The IWV A team will travel to Bakersfield for the Kern County championships, and the "B team will go to Bishop to swim against the Bishop swim team.



DODGERS WIN THRILLER—The Dodgers, China Lake's Little League team, defeated the Senators from Ridgecrest Tuesday, July 14, in the first Intercity Championship game by scoring nine runs off of relief pitcher John Garrett in the sixth inning after the Senators' starting pitcher Steve Blanche gave up one run and had two men on base with none out. Blanche had a no-hitter going until the sixth but was visibly tired when he

was pulled for Garrett. Mark McDowell. winning pitcher for the Dodgers, gave up only one hit while going the route. Jim Hall, who managed the Dodgers, has been chosen manager for the China Lake All Stars, who will play Lone Pine at 8 p.m. July 24 in the second game of the All Star Division playoffs. Ridgecrest will play Bishop at 5 p.m. The games will take place at Diamond No. 4 on the Center.

Gen. Groves, Developer Of A-Bomb Effort, Dead

Lt. Gen. Leslie R. Groves, for whom Groves Street and the Groves School at China Lake is named, died last Monday night from a heart attack at the age of 73.

According to Dick Halen, Principal of Groves School, permission was obtained from the Center to display the school's flag at half-mast until the General has been interred. In addition, appropriate commemoration ceremonies were held in each of the classes at Groves School that are involved in the China Lake Summer School Program.

"Manhattan" Boss

General Groves was best known as the hard-driving Army engineer that bossed the World War II "Manhattan" Project that subsequently developed the atomic bomb, and which employed thousands of scientists, technicians and workmen in scores of laboraaround the country under a cloak of enforced secrecy.

One of these was the Salt Wells Pilot Plant here at China Lake which was put together in relatively its present form as part of a plan known as Project CAMEL.

Administered by the Cal-Tech-NOTS team under the direction of Dr. C. C. Lauritsen and Capt. S. E. Burroughs, USN, the project was concerned with development of the establishment of production techniques and the manufacturing of explosive components for early nuclear bombs of the implosion type. This work represented a uniquely new technical challenge in that it required casting and machining high explosives into specific geometric shapes to a preciseness never before required

with high explosives.
These precisely-shaped high explosives would perform the key function in an atomic implosion weapon by instantaneously bringing together under compression a supercritical mass of nuclear material.

The group of employees that operated the plant during those days were subsequently transferred to the Civil Service roles in November, 1945, and later attained department status as the Explosives Department.

Between 1945 and 1949, the Center produced explosive components for all of the atomic bombs produced in this country with the exception of a very few produced at Los Alamos at the end of World War II. From 1949 to 1954, Salt Wells was one of the major producers and played an important role in transferring its production techniques and know-how to other plants.

The Groves School was built from \$5 million worth of funds supplied by the AEC to support the Salt Wells effort. AEC funds were also used to build 380 Normac houses, 15 Card St. apartments, extensions of the runways at the Naval Air tories and construction camps Facility, two barracks, two dor-



PW Backlog Due

Priorities

Codes from Corona.

the Carpenter and Sheet Metal

In addition, Capt. Abplanalp

explained that because of the

Command's priorities and the

backlog of service call work

Capt. Abplanalp also wished

SUNBURN IS NEEDLESS

DON'T LET IT HAPPEN TO

YOU!

General Groves

mitories, three SSQ type houses, half of the commissary, the present barber shop, the material for a 14-inch water line, and telephone cable lines from Inyokern to the base.

General Groves death came just three days prior to the 25th anniversary of the world's first atomic explosion, which was exploded near Alamogordo, N. Mex., on July 16,



wife Cindy, and two year old son Jeffrey, recently reported aboard the Center to NAF, where Lt(jg). Green is assigned. Green recently completed student pilot Pensacola. NWC is his first duty assignment. He is a graduate of Washington State University with a BA in Political Science.

Climbing Class

The China Lake Mountain Rescue Group will conduct a class in rock climbing which will begin on Tuesday, July 21, at 6 p.m. The classes will be held at Robber's Roost, located east of Highway 14 and south of Highway 178 each Tuesday for five weeks.

Emphasis will be placed on the basic skills required for rock climbing, including: belaying, rapelling, prussiking, and practice climbing.

Further information is available from Dennis Burge, 446-5359 or NWC Ext. 2869, or Al Green, 446-2491 or NWC Ext.



Force Development, Department of the Army, was provided sideboy honors as he traversed the gangway at Hangar One on the occasion of his recent visit to VX-5. The

General was greeted upon his arrival by Capt. C. W. Fritz, Commanding Officer of VX-5, Capt. R. S. Moore, NWC Technical Officer and Cdr. Bert Creighton, VX-5 Exec. General Williams was here to receive an orientation briefing on the squadron.

Retirement Limit Date Extended To June 30, '71

In order to help minimize the impact of shifts in manpower requirements to meet changes in program emphasis and ceiling allocations for Fiscal Year '71, the time limitation for approval of Discontinued Service Retirement is extended to June 30, 1971, for eligible Center employees.

A number of eligible Center employees have retired under the liberalized procedure of the Discontinued Service Retirement, thereby materially lessening the impact of shifts in manpower requirements. The time limitation of June 30. 1971 applies to eligible employees at Corona as well as China

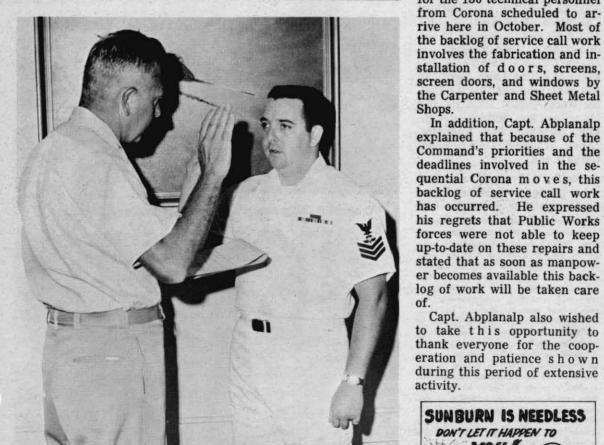
The requirements to be met by employees who wish to qualify for Discontinued Service Retirement remain the same. Center employees will be notified of the procedures for requesting Discontinued Service Retirement as they become eligible. Procedures for requesting and processing the retirements also remain the

Further information on the provisions of Discontinued Service Retirement may be obtained from Department Personnel Management Advisors.

Club Chaparral **Initiates New Buffet Lunch**

A buffet luncheon, from 11 a.m. to 12:30 p.m., Monday through Friday, has been initiated at the Club Chaparral, according to Hank Walker, manager.

All 1st and 2nd Class Petty Officers, members of their Club, and their bonified guests, are invited to enjoy this new



SHIPS FOR THREE-PRI F. W. Muckel, Shop PO for the AMD Fabric Shop, recently reenlisted for three more years, bringing his total service to 15 years. Muckel and his wife Joann have four children: Pamela, 13; Steven, 12; Timothy, 11; Anthony, 8. Muckel reported aboard July 11, 1968 from Carrier Air Wing 121, NAS Norfolk, Virginia.

Promotional Opportunities

ases of primarily technical items and services and some standard commercial items and services; must be knowledgeable in asic contracting techniques; must be able o determine as to the fairness and reasnableness of the price he is binding the government to pay; must be able to evaluate and respond to a wide variety of conmination he must then select the appropriate purchase method; responsible to assure that the contract file contains adequate documentation to justify purchase Minimum Qualification Requirements: Two years of general experience in clerical, administrative or technical experience which has demonstrated general owledge of purchasing procedures, practices, or regulations, or experience which has demonstrated ability to meet and deal with others. Two years of specialized experience which has provided a knowledge commercial sources of supply; familiar with procedures incident to the award and signing of contracts; must have provided knowledge of formal methods of procurement. Advancement Potential: GS-7 level.

Purchasing Agent, GS-1105-07, Code 2522 -Responsible for purchase of technical items, professional services and special nade to order items. Must be knowledge able in basic informal contracting techniques; must be able to write and communicate purchase description data to solicit accurate and realistic offers; is responsible for good pricing and effective negotiation based upon his judgement; must assure the contract file contains adequate documentation to justify purchase actions. Minimum Qualification Requirements: Two years of general experience which has demonstrated general knowledge of purchasing procedures, practices or regstrated ability to meet and deal with others. Three years of specialized experience which provided a knowledge of commercial sources of supply, knowledge of comparative prices and formal methods procurement, and familiarity with regular business and trade practices in buying and selling. Job Relevant Criteria: cident to the award and signing of con-

Procurement Clerk, (Typing), GS-1106-04 (2 vacancies), Code 2522—Types, assembles, and distributes purchase orders, delivery orders, requisitions, supplemental stub requisitions, blanket purchase agreements, telephone for the Branch and furnishes information regarding procurement; receives salesmen for the Purchasing Agents; maintains daily records of completed purchase orders. Minimum Qualification Requirements: One year of general experience in clerical or office work, or in physical handling of supplies and equipment provided this gave some general knowledge One year of specialized experience in supply work or closerelated activities which has required the applicant to acquire and apply knowledge of the rules, regulations, procedures and program requirements of Relevant Criteria: Ability to type is required. A knowledge of all other billets within the Procurement Division plus the functioning of the entire Supply Departs ment of NWC is necessary. Advancement Potential: GS-5 level.

2575—Provides Voucher Examiner services on Blanket Purchase Agreements, Purchase Orders and Delivery Orders against GS One year of general experience in the performance of clerical duties. One year of specialized experience for the GS-4 and tial: GS-5 level.

ordinate the construction, fabrication or programs of the Division, which she as- the duties of Warehouseman satisfactorily: installation of test range facilities or suptargets and photo and electronic instru-Qualification Requirements: Appropriate ed- Saiger, Bldg. 34, Rm. 212, ext. 2514. X-3118.

hasing Agent, GS-1105-06, Code 2522 Responsible for a wide range of purch-

> File applications for above with Mary Morrison, Bldg. 34, Rm. 210, phone 2032. Clerk-Typist, GS-322-4, PD No. 755021, Code 5555-Receives, screens, delegates for action all incoming correspondence for Branch, maintains follow-up system, conand composes correspondence as requested. Provides typing and clerical services to the supervisor and all branch personnel, receives requests for statistical or informative material and advises when material can be furnished, maintains office files, makes travel arrangements, prepares orders and maintains records of itineraries, mainplies, equipment, repair and maintenance services through appropriate channels, receives and screens telephone and business callers, schedules appointments and meetings and makes appropriate arrangements. Serves in a liaison capacity between Branch Head and other offices. These contacts require tact, judgment and an ac urate exposition of facts. Minimum Qualification Requirements: 2 years of appropriate experience as outlined in CSC Handbook X-118. Reliability Engineer, GS-801-13, Code 5503

-Incumbent will provide a scientific and well defined approach to the achievemen

003-3. Code 7511-This position is in the in the Technical Information Department. Applicants will be expected to edit techgineers and scientists; and to write and edit brochures and reports produced by the Division, Center Management, and Departments. The applicant will be expected one or more areas of a supply system. Job to be sufficiently knowledgeable about the to require a minimum of direct supervision and will have developed the ability to have productive working relationships with authors. Qualified Corona employees Corona/China Lake consolidation. Minimum Qualification Requirements: 6 years of ap-

ence. Minimum Qualification Requirements: Saiger, Bldg. 34, Rm. 212, ext. 2514. ing), GS-318-5, PD No. 7035030, Code 354-The purpose of this position is to provide two years of specialized experience for secretarial services to the Head, Developthe GS-5 level, including experience in ment Division IV and partial services for examining, for accuracy, legality, compli- Head, Development Division I. The incumance with regulations, and justification, of bent receives and screens visitors and Code 2591 (2 vacancies)—Performs a numvouchers, invoices, claims and other re- telephone calls and refers them to the ber of tasks in connection with the physiquests for payment. Advancement Poten- proper contact and occasionally handling cal receipt, storage or issue of supplies. File applications for the above with ments and conferences for the Division assembles supplies of all types in accord-Naomi Campbell, Bldg. 34, Rm. 206, X-3118. Head. Notifies organizations, companies, ance with established supply systems, pro-Civil Engineer, GS-810-9, 11 or 12 (one etc., of impending visits by personnel in cedures and methods. Minimum Caulting vacancy), PD No. 7030077, Code 3023-This the Division and keeps in touch with per- tion Requirements: No specific amount of position is located in the Range Design sonnel enroute, when necessary. Makes experience or education is required. In-Branch, Systems Development Department, travel arrangements, Provides varied kinds stead, you must show that you meet the The incumbent, as a design engineer, will of information, such as: (1) written tech-following aptitudes and abilities to such prepare engineering designs for and co- nical documentation and/or information on an extent that you will be able to perform

port equipment on the seven major ground records; (2) provides information on policy than normal supervision. 2. Ability to pre-Department. Specific tasks include, but mat, security), shipping or carrying classi- Ability to perform warehouse procedures. are not limited to: the design of towers fied written matter and/or hardware, time 4. Ability to follow directions, 5. Ability and supporting structures for guns, rock- and leave regulations, flight clearance, to work safely. Applicants must take a ets and guided missile launchers, radars, etc. Screens and directs all incoming cor- written test which will include questions mentation; the construction or erection of ing correspondence. Minimum Qualification tude for the position. The test will require blast protective structures, barricades and Requirements: 3 years of appropriate ex- approximately one hour and fifteen mininstrumentation shelters; the coordination perience. Education can be substituted for utes including time to complete all the neof a team of surveyors; the installation of experience in accordance with CSC Hand-cessary forms. specialized electrical, pneumatic, hydraulic book X-118. and ordnance test equipment. Minimum File applications for above with Beverly Naomi Campbell, Bldg. 34, Rm. 206,

(2) experience in the construction industry in an engineering or general foreman or To the GS-12 level based on ability to

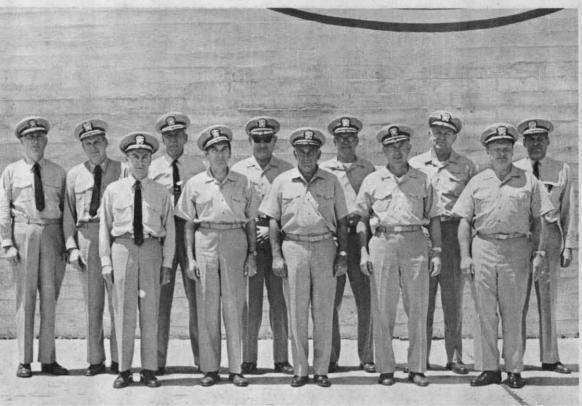
of assurance of a satisfactory level of reliability in weapon systems. Will implement an extensive reliability program for the Sidewinder, Chaparral, Shrike and several freefall projects which are assigned to the Engineering Department. Will contribute knowledge of an experienced reliability engineer in consulting with other reliability engineers on matters that require specialized knowledge. Will also be called upon to prepare or assist in preparing educational material on reliability. Will review the performance of tasks by the sub-contractor, monitor to determine whether they are being performed adequately, and in some cases, plan or assist in the planning of reliability programs to be performed by the sub-contractor Minimum Qualification Requirements: 4 years of professional experience, one of which is comparable to the GS-12 level of difficulty plus Bachelor's Degree, as outlined in CSC Handbook X-118. Job Relevant Criteria: At least 4 years experience in reliability engineering and systems effectiveness for weapons systems. B.S. degree in Engineering or B.A. degree in Ma-

thematics. Experience in planning reliability programs for development projects. Writer/Editor, GS-1083-11, PD No. 575- to 400 degrees Kelvin at 4 minical reports written by the Center's en- of Dr. Harold Bennett under Center's work and the publishing effort California at Berkeley in 1961 will be given special consideration for gram at China Lake. Bergman Voucher Examiner, GS-540-04 or 05, Code this vacancy in view of the impending has been employed by the Cenpropriate experience. Combination of Education and experience can substitute in acters, Roxanne and Nannette, cordance with CSC Handbook X-118. reside at 100-A Dibb Road,

> Walter E. Freitag was awarded a Master of Science degree in Engineering from the Uni-

Warehouseman, WG-65007-05, JD No. 33, the business herself. Schedules appoint- Receives, checks, stows, counts, issues and etc., of impending visits by personnel in cedures and methods. Minimum Qualificaand regulations; on correspondence (for- pare and process supply documents. 3. respondence. Assures accuracy of outgo- designed to measure the competitor's apti-

File applications for the above with



VISIT VX-5-Members of the Naval Air Reserve Study Group No. 1 visited China Lake Saturday, July 11, at the invitation of Capt. C. W. Fritz, VX-5 Commanding Officer. and were briefed on the mission of NWC.

While at VX-5 the officers received a briefing on VX-5 organization and current projects, were taken on a tour of Michelson Lab

Friday, July 17, 1970

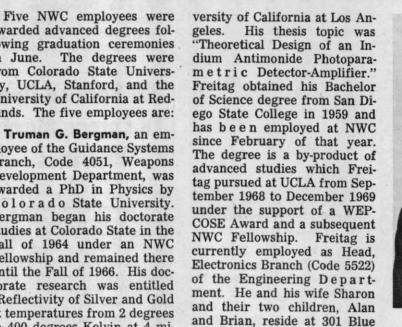
Five Receive Advanced Degrees

awarded advanced degrees following graduation ceremonies in June. The degrees were from Colorado State Univers- metric Detector-Amplifier. ity, UCLA, Stanford, and the University of California at Redlands. The five employees are:

ROCKETEER

Truman G. Bergman, an employee of the Guidance Systems Branch, Code 4051, Weapons Development Department, was awarded a PhD in Physics by Colorado State University. Bergman began his doctorate studies at Colorado State in the Fall of 1964 under an NWC Fellowship and remained there until the Fall of 1966. His doctorate research was entitled "Reflectivity of Silver and Gold at temperatures from 2 degrees crons wavelength" and was conducted in its entirety at China Lake under the direction special arrangement with the university. Bergman received the Bachelor of Arts degree in Physics from the University of and a Master of Science in Engineering in 1964 through the NOTS/UCLA Graduate Proter since August 1962. He and

China Lake.



(Continued on Page 8)



Truman G. Bergman



Starnes E. Walker



Walter E. Freitag

Edward L. Jeter

Donald J. Zeleny

Unique Packaging Support Offered

tronic design capability (mech- adequacy and accuracy. anical, chemistry, etc.), or As a natural evolvement a need for outside assistance.

two newer versions of the SI- tities. DS signal conditioners.

The Section's responsibilities ranged from a design of new menation functions of the Seccircuitry and redesign of some original circuitry, to trouble- design engineers will be espeshooting and coordinating with cially interested to learn of a publications contractor on a the Section's capabilities in the complete documentation pack- field of magnetics.

Section personnel have excommercial and military equipquickly develop the expertise necessary to accomplish many different types of jobs, including: the ability to determine instrumentation needed to test and evaluate circuits, subsystems and/or systems; design tronic circuitry to simulate unusual signal inputs or load conditions; test equipment to verify conformance to design objectives; evaluate out of tolerance condition, isolate the causes and make redesign recommendations where applicfailure analysis at system or

In addition, the Section will also assume the responsibility, when requested, of generating informal or formal documentation on a project (formal docsion), specializing in the areas the Division.

(Continued from Page 1) of test procedures, weapons Center Codes for a variety of specifications and reviewing gram has been set up to design reasons, such as lack of equip- schematics, block diagrams, the smallest possible transment, lack of skilled instru- system flow charts, and equipmentation technicians, no elec- ment manuals for technical

Codes whose workload dictates from the section's early development experience on a pro-This function can best be il- ject, it's quite common for the lustrated by referring to this section to follow equipment in-Section's work on the SHRIKE to the first stages of produc-Improved Display System (SI-tion, which includes assistance DS) overhaul and repair con- to the cognizant design organisole redesign project. The Sec- zation by reviewing contractor tion was requested by the SIDS facilities for construction and project manager to redesign testing capability, and the solvthe console and install the mod- ing of problems that occur durifications at NARF, Alameda, ing production that could not and Jacksonville. The redesign have been anticipated during was necessary to accommodate evaluation of prototype quan-

Magnetics

In addition to the two instrution pointed out above, Center

The prime objective of the Section in the area of magnetic perience on a wide variety of devices is to supply Center Codes with small quantities of ment which enables them to prototype transformers or chokes in a time span that cannot be achieved by an outside vendor. Typically, the delivery time for a completed transformer, including design and construction, is about 3 days. Unusual devices such as large special test fixtures and elec- pulse transformers, may take as long as three weeks to deliver due to the impossibility of stocking every conceivable transformer core.

Although transformers and chokes may be constructed to the requestor's specifications. able; establish test parameters the Section has design capabiland tolerances for newly de- ity. Design of audio and power signed equipment; and conduct transformers on hypersil "C" and laminated "EI" type cores module level or report failures is accomplished by computer. to appropriate codes in the When it is not possible to uticase of components for analy- lize the computer design program, as in the case of toroid or pulse transformers, the de- met, or specific material not sign is performed manually. available and the use of sub-According to Waters, the re- stitute is requested. quired expertise for this capability is still in the development umentation efforts are accom- stage in the section, however, and J. D. Roberts, Electronic plished through cognizant he stated that expert engineer- Technicians; H. Powers, Coil Branch of Technical Data Divi- ing assistance is available in Winder; and R. Erbe, Electron-

The Computer Design proformer with an absolute minimum of input information. The requestor need only specify the primary voltage, secondary voltage, secondary current and frequency of operation. Additional limitations may be imposed: size, temperature rise, tolerance or increased regula-

ROCKETEER

Some of the advantages to the computer design program are greatly reduced cost (an average of less than \$4 per transformer), standardization of materials and methods, and the ability to inexpensively design several alternates to obtain the most suitable transformer for given package or circuit requirements.

At the present time, an effort is made by the Section to keep a wide range of transformer cores, wire and construction materials always in stock. According to Waters, enough supplies are always on hand to construct a prototype. The materials and techniques used and documentation supplied with transformers are such that the requestor can obtain the item from a vendor in production quantities. Documentation always includes complete construction and electrical specifications. Upon request, other func-

tions performed by the Section include-reviewing magnetic device specifications for technical accuracy and adequacy before release to a vendor for purchasing components; the performance of tests on magnetic devices purchased from outside vendors to assure conformance to design requirements; and, also upon request, the Section will make recommendations for waivers or refusal to waive when devices cannot be supplied as specified, such as electrical or mechanical tolerances which cannot be

In addition to Waters, the Section is staffed by P. Wehle

Medical Department Presents Awards



AWARDS CEREMONY — The persons pictured above were recently honored at an awards ceremony held by the NWC Medical Department. The recipients are, front row, I-r: Cdr. E. G. Graves, Head Nursing Service Branch; Marie Wolz, Sharon Smith, Ruth

Margaret Teufel and Capt. G. W. Jauchler, Head, NWC Medical Department. Back row, I-r: Alma Jones, Ora Barnes and Verna Yelland. The awards were presented by Capt. Jauchler, MC, USN.

Stone, Jeanette Seale, Charlotte Hamm,



NEW WARRANT OFFICER-Former FTMC John Gilbert (r) was recently promoted to the rank of W-1 in ceremonies held this week in the office of Capt. J. K. McConeghy, Jr., NWC Executive Officer. The new Warrant Officer made the grade after only ten years as an enlisted man.

Booster Fund Gets \$500 Boost From Flag Seller, 'Cycle Club

The TV Booster Fund Drive \$20,000 mark. was enriched by \$500 on Tues- According to Bob Young, day, July 14, when Steven Mc- chairman of the drive, if the Collough, 13 year old son of Bakersfield Channels add their Roger McCollough, an em- support, and the write-in conployee of Code 5534, and a re-tributions meet the expected presentative of the Sandblast- amount, the Committee expects ers Motorcycle Club, each pre- to get all three UHF stations, sented \$250 to the fund drive and might even have enough at the July 14 meeting of the funds to purchase new equip-China Lake Community Coun- ment for one or more of the

Steven, who is a member of in need of renovation. Troop 3, was the instigator of a Persons missed in the door-Booster Fund Drive.

present stations (2, 5 and 13)

sale of American Flags to to-door canvass, and who wish China Lake community resi- to donate to the fund drive, dents. Young McCollough, and are asked to mail their dona-12 other members of Troop 3, tions to: TV-Fund, P. O. Box decided to donate the \$250 5443, China Lake, or drop the raised by the sale to the TV donation off at the fire station on the Center. Or, if they The Boy Scout's donation, wish, persons could call 2095 and the one by the Sandblast- or 2402 after 6 p.m., and a fireers Motorcycle Club, pushed man will pick the donation up the present fund drive over the at the contributor's home.

GEBA-CLMAS Waives Payment

Larry Mason, Secretary-Treasurer of GEBA-CLMAS has reported that Assessments are waived for the death of Ray Warren Johnston, who passed away July 15, at Escondido, California. Johnston, a retired employee from Code 5502, died from cancer at the age of 69.

All members are urged to check their payment cards to assure they are paid up through No. 212. Many members have been on vacation and 2846.

failed to check with their col lectors. When planning long vacations, be sure to notify your collector. You may pay advance payments to cover assessments that fall due while

Tll new employees are welcome to join GEBA-CLMAS. Entrance fee is \$4.50. For further information contact Mason after working hours at 375

pool lanai of the Commissioned

Officers Mess. Entrance to the

Included in the evening's en-

party will be from poolside.

Party Tickets Still On Sale

Those interested in attend- midnight on the swimming ing the annual summer party for new employees, summer employees, and permanent employees are reminded that there are only two days left to purchase tickets. (The tickets, which cost \$2.50 for new professionals and \$3.50 for all others, are available through department representatives.

For information please call Douglas Turner, extension

This event will be held Wednesday, July 22, from 6 p.m. to Weapons Center.

tertainment will be a social hour from 6 p.m. to 7 p.m.; a Bar-B-Q buffet at 7:30 p.m.; swimming and dancing. Once

again this year music will be supplied by the popular COM-NAVAIRPAC band from San Diego. Everyone is invited to attend

this event to meet and welcome the newcomers to the Naval

As a part of an audit of Naval Weapons Center Federal Credit Union as of June 30, 1970, the Supervisory Committee has distributed statements of account to all members. Persons not in receipt of their statement of account are asked to please communicate directly with J. E. Greve, Chairman, Supervisory Committee, P. O. Box 5523, China Lake, California 93555.