Premier 865 Scratch

Burt Andreasen for the second week in a row had high series with a 582 and games of 203, 197 and 182, however, Roby Fuller pushed him all the way but ended up one pin shy with a 581 by rolling games of 179, 207 and 193. George Bowles topped them all with a high game of 221. The Desert Playhouse with a fine team effort had high team game and series shooting a 948 and a 2670 to-

Women's Scratch

The Unbelievables led by the fine bowling of Alice Cutsinger. won 3 games and came out with high team game of 673 and an 1867 series. Alice took individual honors by rolling a 203 game and a fine 526 series. Jerry Holland and Phyllis Rutledge displayed their skill by converting the 5-10 split and Carol Rorex also had a 200 game Monday night.

Women's Handicap Bettie Hardy had a big night for herself and led the team, Johns Jets, to a high game of 995 and a 2818 series. Bettie set the pace by rolling a 220 and Monday Eve at Groves Tryouts on Oct. 6 a very fine 560 scratch series. Bonnie's was also helped by

Junior Bowling

206 for the day. Just a note to anyone interested, Junior Bowling started fast Saturday and there is a need for scorekeepers, if interested,

please call Co Dausch FR 5-4501. Midway League

Art Phillips and the Chillers seemed to get all the pin action in the Midway League last week. Art's fine bowling helped the Chillers to take over high game and series in the league with an 878 and a 2532 respectively. Art also rolled high individual game with a 214 and a 586 series.

Women's Afternoon Trio Kay Smith took individual honors for the day by rolling out a 199 game and a 480 series. Team No. 1 captured high game and series by posting a 561 and a 1609 respectively. League secretary Estella Paine reports there are openings in the trio league and anyone interested may call FR 8-6686.

Mixed Foursome Donald Zurn was the big bowler for the night by rolling high game and series for men with a 231 and a 573. But then here comes Alice Cutsinger again scoring high for the women with a nice 206 game and a 528 series. The Cats took team honors with a 695 game and a series of 1946. Archie Plante brought along his big ball and picked up the 4-7-6-9-10 split, as well as Jack Miner, who picked up the 7-3-6-10 split.



GHOSTLY PRANKS OCT. 2-3 - Elvira, played by Florence Green (center), who has the advantage of not being seen, teases Ruth, played by Suzzane Larsen, with her ghostly pranks. Ruth, who sees only the rose in midair, is badly shaken. Charles, played by Ken

Bryson, has task of keeping peace between a live and a dead wife. All the ghostly antics of Noel Coward's "Blithe Spirit" will be staged by the China Lake Players at 8:15 tonight and tomorrow evenings, Oct. 2 and 3, at the James Monroe Auditorium.

Pebble Pups to Meet | IWV Swim Team

A meeting on Monday from 5 Annual tryouts for new mem-Mary Jane Clark's nice 204 to 6 p.m. at the Groves Street bers only of the Indian Wells game, Congratulations to Virgin- School Auditorium will open the Valley Swim Team are schedia Smith who rolled a seldom seen triplicate, and hers was set with games of 146.

School Auditorium will open the fall season for the Valley Pebble Pups, according to Royal uled for next Tuesday, Oct. 6, at 3:45 p.m. at the Station Pool. Tryouts will consist of swim-

weight
15-Liquid
17-In direction
toward
which wind
blows
19-Clothese

31-Urge on 32-Near 33-Preposition 34-Prohibition 35-Pronoun 36-Theater attendants

tree
40-Compass
point
41-Tardy
42-Girl's name
44-Whirlpools
46-Edict
48-Evaluated
51-Simian
52-Break
suddenly
54-Withered
55-Bewitch
56-Peel

DOWN

1-In what wa 2-Yellow bugl 3-Snaring 4-Walk on 5-Indefinite

CROSSWORD PUZZLE

ming three widths of the pool. James McCullan, a 12-year- A field trip to Trona and Speed is not an important facold, shot a very big 527 series Searles Lake will be held in tor. Parents are requested to aclast Saturday, with games of 156, conjunction with the "Searles company applicants. Member-187 and 184. Brian Rockwell Lake Gem and Mineral Show" ship fees are \$4 per child with rolled high game with a fine to be held on Oct. 10 and 11. a maximum of \$8 per family.

Roy Rogers Shorts: "Dog Collared" (7 Min.) "Sea Hound No. 10" (18 Min.) --EVENING--"GOLD FOR THE CAESARS" (87 Min.)

7 p.m.
(Adventure in Color) Roman slave is pror sed freedom if he can engineer a plan to nine gold in the Valley of the Sil, but a ctacle. (Adults, Mature Youths.) Shorts: "Kitty Foiled" (7 Min.) "West Point Athletes" (10 Min.)

"LAW OF THE LAWLESS" (87 Min.)

rged story of the events surrounding of

Shorts: "Ancient Fistory" (7 Min.) "Clear Water on the Colorado" (13 Min.)

"RIDE THE WILD SURF" (101 Min.)
Fabian, Tab Hunter, Barbara Eden

awaii. (Adults, Youths.) Short: "Fox Terror" (7 Min.)

OCT. 8-9 THURSDAY-FRIDAY "ENSIGN PULVER" (104 Min.) Robert Walker, Burl Ives, Millie Perkins 7 p.m. NO SYNOPSIS AVAILABLE Short: "Broomstick Bunny" (7 Min.)

100 Concert Season Seats Go On Sale

Just 100 seats are available cert Association's 1964-65 season — and they'll go on a first-Safest Year in History
Washington - Fiscal Year 1964 | come - first-served basis, Earle Kirkbride, ticket chairman, an-

"We now know where we posed to Bakersfield's 82.3.

opera, "La Boheme," in English. Thatch at 75.

Jim Dake . . .

(Continued from Page 5) years in bed before he was able to attend the university to complete his education.

"From 1954 to 1961 my health got progressively better," Dake said. "Since 1961, it has worsened again."

Though he hasn't had to spend any time in hospitals since 1955, he continues to take physical therapy treatments three times a week, and goes swimming on Monday and Wednesday evenings with the "Dragging Dolphins."

Comes to NOTS

Aside from some parttime work in his senior year, the only job Jim had before comng to NOTS was as assistant instructor during a summer ses-

How did he learn about China Lake? He was interviewed by NOTS Recruiting Team, and learned some details from a former professor who had worked here. How about the big decision to come to the desert?

"Circumstantial evidence indicated that the desert was good for arthritis," Jim said, "so I made up my mind in advance that I was going to like it."

Especially, he added, he likes the snow where he can go to it, and come back out.

"Arthritis-Who Knows?"

7 p.m. (Adventure in Color) Alcut seal hunters Arthritis, says Jim, is not a force Indians to leave their California island spectacular disease. When he home but a young girl is left behind. Very asked his doctor how soon a nistoric incident. (Adults, Youth, Children.) cure might be found, the doctor replied: "If you were talking about heart disease or cancer, oct. 3 I'd say five to ten years, with a 95 per cent probability of being right; but arthritis - who

Sufficient research funds are not available, and most of the research that is being done is financed by the drug manufacturers, Dake said.

Recently, Jim said, he read that the causes of arthritis are 60 per cent emotional problems, 35 per cent injury or disease, OCT. 4-5 and 5 percent unknown.

Despite the physical drawbacks, he is proud of the fact that according to the Joint ansas murder trial of the son of a state Council on Engineering Wages, Bigwig. A hanging judge, hired gangs and bullets galore! (Adults, Youths, Mature Chilcontemporary college graduates with a BS degree.

He has a right to be.

7 p.m. (Drama in Color) "Surf's Up" in Hawaii where the guys compete against each other 69 Leads Victory Over Bakersfield

Captain Bernard L. McCreery fired a blazing low-gross 69 to top the field of some 55 entries in this week's 3rd annual Home and Home tourney with Bakersfield Chamber of Commerce and for the second consecutive year, China Lake keeps possession of the perpetual trophy.

Under the low gross honors was a tie between local linksmen Don Fraser and Curt Bryfor the China Lake Civic Con- an with a 77 in the second spot. Low gross honors for the Bakersfield contingent went to Lou Miller at 84, and Paul Meyer, 85.

Aggregate points of the China Lake team were 74.2 as op-

Bakersfield's Cy Wade cap-



Naval Ordnance Test Station, China Lake, California Fri., Oct. 2, 1964

NOTS' Blind Mathematician

Ralph Middleton Is 'Handicapped Worker Of The Year' In Kern

Also Nominated For State and **National Honors**

Ralph W. Middleton, 24, a mathematician attached to the Data Computation Branch of Test Department, was named Kern County's "Handicapped Worker of the Year" and has been nominated for state and national honors in selections due in early 1965.

The announcement was made in Bakersfield this week in conjunction with "Employ the Handicapped Week," Oct. 4-10.

Howard Roland, chairman of the Employ the Handicapped Committee for Kern County, said Middleton will undergo selection at California state levels before the end of this year.

Some 50 entries have been nominated for California honors, according to Roland.

He also said that Middleton, if selected for the national honor, would be the first handicapped person from California to receive the honor.

It was earlier this year that Middleton, who makes his home at 200-A Fowler with his wife, Donneta and son, Shawn, 16 months, attended a Presidential Committee for the Handicapped conference in Washington.

Purpose of the discussion was to develop methods by which the handicapped could contri-

NOTS Handicapped Inspiration to All. See "Employ the Handicapped" Stories, Page 5.

bute more significantly to society. Middleton reported.

His own achievements were reported in a feature story appearing in the September edi- China Lake Photographic Socition of the "Performance" mag- ety will elect officers and map azine, published by the Presi- future plans at their meeting at dents Committee for the Han- 7:30 p.m. Wednesday (Oct. 7), dicapped.

The Rocketeer earlier had at 361 McIntire St. published a story reporting Mid-bring slides taken anywhere in dleton's participation in a na- the Death Valley Monument tional conference of the National Federation of the Blind will take place in November. held at Phoenix, Ariz. It was in conjunction with this meeting that the local man reviewed ville Color Traveling Salon. The his own progress as a mathe-society is allowed ten slides matician engaged in scientific (not more than two from any

research and development work.

He noted that there are 29 which will be judged in Riverblind mathematicians who are side early in November. engaged in scientific programming in the U.S. today.

Born blind, Middleton was Social Security Rep. graduated from Lewis and Here Next Wednesday Clarke College and joined the Station as a Junior Professional

Uses Braille System He has utilized the Braille Wednesday, 8 to 11:30 a.m.



ENTERING MICHELSON LAB, Ralph Middleton and his seeing-eye dog, Lena, are a familiar sight to thousands who work there. They'll congratulate him today on being named Kern County's "Handicapped Worker of the Year."

ence of scientific data almost an awards luncheon in Novemexclusively since that time, he ber, according to Roland. The er USS Topeka (CLG-8) which now serving as senior chaplain

Personnel engaged in data October. computation work attest to the Jerry J. Walsh served as "Han- Parris Island. Middleton in the mathematical for 1964. programming processes.

Slides on any subject also are

C. A. Kempter, Social Securi-

ty representative, will be at the

Community Center next

system of typing and transfer- Middleton will be honored at State selections will be made in

proficiency demonstrated by dicapped Worker of the Year"

Two Local Officers Picked for Comdr.

Two China Lake lieutenant commanders have been non for promotion to commander, according to an AllNav Dispatch received here last Friday. The two who have been selected are

Chaplain Mark E. Fite and Assistant Dental Officer Harold W.

Chaplain Fite reported aboard as Assistant Protestant Chaplain in August of last year while Assistant Dental Officer Hodson came to the Station in April of

WW II Enlisted Man

During World War II, Chaplain Fite served as an enlisted man. After the war he received his BS degree from the University of Arkansas then went on to get his Bachelor of Divinity Degree from the Golden Gate Baptist Seminary at Mill Valley,

After being ordained, he held a pastorate in the State of Arkansas until he re-entered the Navy in 1952 as a Chaplain.

His duty prior to coming to China Lake was advisor to the ROK Navy Chaplain Corps, Korea, which was preceded by duty at the San Diego Naval Hospital and duty aboard an ice breaker in the arctic.

The new selectee is married to the former Patty Sue Hensley, of Mena, Ark. They have a son, John, 12, and a daughter, Beth, 8, and reside at 531-B Nim-

Native Californian Assistant Dental Officer Hodson, who also serves as custodian of the All Faith Chapel's Protestant Fund, is a native of Fullerton.

He entered the Navy in 1943 via the V-12 Program after attending Fullerton Junior College and was commissioned an ensign in 1945.

Released from active duty in 1946, he attended De Pauw University, then transferred to the University of Southern Califor-MS, and DDS degrees.

Re-entering the service in Kearsarge. 1954, he attended the Navy's Post Graduate Dental School at Bethseda.

Lake from duty as dental officer lected for promotion to captain. aboard the guided missile cruis- The former NOTS chaplain is had been preceded with duty aboard the Navy's newest atat the Marine Recruit Depot, tack carrier, the USS America

cia Ramsey of Fullerton. They uary of 1965.





LCDR. H. W. HODSON

nia where he received his AB, have two daughters, Ann, 11, and Carol, 8, and reside at 709

Cdr. Fenning Selected Cdr. Fenning, Senior Chaplain here from July 1961 until Au-LCdr. Hodson came to China gust of this year, has been se-

(CVA-66), being outfitted at The prospective commander Newport News, Va. She is due is married to the former Patri- to be commissioned in mid-Jan-

Photo Society Sellers Commended for Work



INSTRUCTOR CITED-Bob Sellers (left), Code 4051, is presented a "Letter of Commendation" from H. G. Wilson, Assoc. Technical Director. Letter was for Sellers' role in conducting the Station's first solderfication course in the artisan training program while carrying on his normal workload.

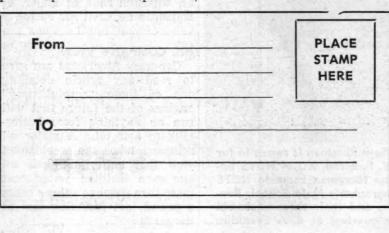
Bob Sellers, an electronics technician with the Weapons Development Department, was singled out this week for his contributions to the solderfication course being conducted for Station employees under the Artisan Development Program.

A letter of commendation from H. G. Wilson, Assoc. Technical Director, cited Sellers for his willingness to devote extra time and effort to preparing and conducting the first solderfication course to be held here.

The letter further noted that "the Station's ability to use new developments is due largely to individuals like Sellers who are willing to learn new processes and then pass that information on to others who are involved in similar work."

To date 30 Station employees

have completed the local coure while an additional 70 employees have registered for the



Naval Aviation Marks

proved to be the safest in U.S. nounced. Naval Aviation history.

For Use In Authorized Service Newspapers Only.

Statistics released by the Navy stand," Kirkbride said. "All Low net honors for China show that during FY64 the air- seats in the \$15 section have Lake were won by Max Smith craft accident rate, computed been sold, and all but scattered with a 68 and Bill Mitchellon the number of accidents per seats in the \$12.50 section are Floyd Rockwell with a tie 70 10,000 flight hours, declined to gone. The remaining seats are score. 1.35, an 8.1 per cent improve- in the \$10 section." ment over the preceding year. The concert season will open tured low net honors with a 73 The fatality rate was 16 per cent Nov. 19, with the full - length and was followed by John lower than FY63. (AFPS).

Shorts: "Raw Raw Ruck Ruckus" (7 Min.) "NSH "O" (14 Min.) --MATINEE--

"HEART OF THE ROCKIES" (67 Min.)

"ISLAND OF THE BLUE DOLPHINS" (93 Min.)

Celia Kaye, Larry Domasin

Friday, October 2, 1964

NOTS' Role in

National Program

Employ the Handicapped

Week will be observed na-

tionally Oct. 4-11, by Presi-

dential proclamation. NOTS

has long fostered this pro-

gram, and scores of handi-

capped persons are compil-

ing records of outstanding

achievement here and at the

Pasadena Annex. Rocketeer

Staff Writer Gene Steck in-

terviewed three of the NOTS

team members, and tells their

stories on this page. Their

courage and accomplishments

are an inspiration to all.

Makes Theory

Work for Him

"A mathematician is someone

who hates arithmetic and works

out other means of solving a

The man who expounded this

theory may well have been

talking from experience, but the

Dave Elliott

problem."

conversation.

plishment Award.

the slightest wounds.

"some real fine teachers."

To NOTS in 1955

He majored in mathematics at

Pomona College, followed that

with a year's work at CalTech,

and came to NOTS Pasadena in

1955 as a mathematician, after

working for a year in a Los

Angeles patent office. Attend-

ing USC night courses, he com-

pleted his studies for a Mas-

In his assignment with the

Guidance and Control Division,

Elliott made a mathematical an-

alysis of the Mk53 prior to a

stability check-out on the ana-

Dave discovered that the cir-

cuitry of the attack console

Mk53 would not properly solve

the desired equation involved

in the Beta loop. Not satisfied

with just finding the error, he

proposed a simple modification

which was used to correct the

design deficiency in the equip-

'Even More Commendable'

A memorandum recommend-

ing the Superior Accomplish-

ment Award for this work said

"Mr. Elliott's discovery is

greatly appreciated by this code

ter's Degree in 1959.

log computer.

ment.

in part:

Inspiring to All

'EMPLOY THE HANDICAPPED WEEK'

MANAGEMENT DEVELOPMENT CLASSES

ROCKETEER

Nature of the Program — The courses are designed to provide development opportunities for NOTS supervisors, executives, and potential supervisors so that they may perform their current jobs with greater expertise and to prepare for new and more challenging assignments.

Registration - Registration for this Fall semester starts immediately and continues through 13 October Location: Training Building 1964. To register, send one completed copy of NOTS Course Enrollment and/or Tuition Refund Certification 11ND NOTS 12410/28 to Code 654. The suggested levels of participation for some courses are noted but the final decision about nominations of any person to any course is the responsibility of the person's department. Nominees approved will be notified where courses are to be held.

Description of Courses and Schedules:

Location: Training Building

Seminar on How to Improve Technical Writing (8 hours) Coordinator: Employee Development Division, Code 654 Suggested for: Editors and anyone who writes reports, etc.

Seminar will be conducted by Robert Gunning nationally recognized as an outstanding authority on writing and readability. The seminar will cover items such as how to write what you mean; how to get your ideas on paper-easier and faster; how to be sure your reader understands what you write; how to improve your writing style and how to take the fog out of your writing. Mr. Gunning is the author of a number of

Advanced Problems in Defense Procurement (30 hours) Monday thru Friday, 0800-1500, 14-18 December 1964 Coordinator: Employee Development Division, Code 654 Suggested for: Procurement and project personnel at both the operating level and management level. Class will be lim-

This course is conducted by Harbridge House. Course will cover the DOD Cost Reduction Program, five-year Force Structure Programming System, Project Definition, Source Selection and a Broadened competitive Base, Incentive Contracting, Weighted Guideline System for Determining Profit and Fee, Management Aspects of Reliability and Value Engineering, Contractor Performance Evaluation, and Organizational Conflict of Inte-

Engineering and Management (80 hours) Offered between semesters

Coordinator: Employee Development Division, Code 654 Suggested for: Senior scientists, engineers, and supervisory personnel. Station management will select four.

Location: University of California, Los Angeles, California Prepares for more effective design, installation, and adminis tration of systems (coordinating men, materials, machines, and money). Brochures describing the courses will be distributed to Departments in early November. Submit nominations on

Personnel Management Institute (40 hours) Monday thru Friday, 0800-1630, 7-11 December 1964 Coordinator: Ray Harrison, Personnel Department, Code 65 Suggested for: Supervisory personnel nominated by their departments. Station management will make final selections,

Location: Training Building

The basic framework of civilian personnel management in the Federal service. The role and responsibilities of supervisors for civilian personnel management and an examination of the tools available to them. Includes various outside speakers from the Civil Service Commission, OIR, etc.

Basic Leadership Training Laboratory (36 hours) Monday thru Friday, 0800-1630, 18-22 January 1964

Coordinator: Dr. George Lehner, Professor of Psychology, UCLA Suggested for: Supervisory personnel nominated by their Depart-

Location: Kernville, California

Develops participant's awareness to groups and his own influence on a group through theory presentations and structured

Seminar on Methods Improving Station-Bureau Relationships (30 hours)

Tuesdays, 0930-1130, beginning 27 October 1964 Coordinator: Russ Bjorklund, Head, Central Staff, Code 17 Suggested for: Personnel who are expected to be dealing with personnel in the Bureau

Location: Training Building

Identified problems affecting relationships between NOTS and the Bureau and various Washington agencies. Various points of view are presented by management representatives and visiting Washington officials. Concentrates on ideas of improving these relationships. Participants are expected to present a case study for discussion, and-or a set of recommendations to solve

Nature of the Program — Courses are provided in areas where needs exist for detailed procedures such as correspondence; areas where new clerical employees are oriented to the overall clerical processes and systems; and in areas where a basic understanding of the use of data or systems is helpful such as the introduction to computer programming and statisties. In addition to this program, the Bakersfield Junior College and the Burroughs Evening High School offer a variety of courses in the evening such as typing, accounting, etc. that may be of interest.

Registration — Registration for this Fall semester starts immediately and continues through 12 October 1964. To register, send one completed NOTS Course Enrollment and/or Tuition Refund Certification Form 11ND NOTS 12410/28 with the appropriate authorizing departmental signature to Code 654. Enrollees will be notified of class location and any pertinent information prior to the start of each course.

Description of Courses and Schedules:

Correspondence, Mail, File, Record, and Security Procedures (6

Tuesday, 1300-1600, 13 October 1964 (second meeting will be scheduled when first one meets.

Coordinator: Mary Ann Gibbons, Command Administration Location: Training Building

NOTS mailing system, requirements of classified document control, accountings, marking and stamping procedures, explanation of the Navy filing system, functions of custody control

Timekeeping Procedures (2 hours) To be scheduled if enough enrollments are received Coordinator: Employee Development Division Location: Training Building

Timekeeping procedures, with emphasis on problem areas in pay coding, preparation of time cards, relationships between hours worked and labor distribution, leave regulations, and compensatory and excused time.

Personnel Forms (3 hours) Thursday, 1300-1600, 16 October 1964

Coordinator: Dick Sasaki, Personnel Management Advisor, Code

Location: Training Building

Information and practice in the completion of personnel forms used by the departments such as PARs, benny-suggs, training request forms.

Clerical Workshop on the Technical Library (31/2 hours) Thursday, 0800-1130, to be announced

Coordinator: C. J. Kruse, Head, Library Division, Code 751 Location: Technical Library, Michelson Lab

This seminar is designed to familiarize clerical personnel with the operation, resources and procedures of the Technical Library. Such things as how to use library lists, how to use the card catalogue, how to order books and periodicals, how to use

tained, how classified material is handled, etc. will be discossed. Discussion will be held after.

Computer Programing, PART 1 (12-15 hours) Programmed Instruction: AutoTutor individually arranged. Coordinator: Employee Development Division, Code 654 Location: Training Building

This course comes in four parts; Part I is recommended for those who work with the various IBM systems such as Herbie, fiscal data, etc. Part I is an introduction to programing; it tells you what the computers can do and how to understand what

Improving Your Writing (6-12 hours)

Facility, Indianapolis (NAFI).

Using Mil-Std 8c (20 hours)

Programmed Instruction: AutoTutor individually arranged. Coordinator: Employee Development Division, Code 654 Location: Training Building

Improves grammar such as subject-verb agreement, reference of pronouns, etc. and is recommended to follow the punctua-

Punctuation (2-4 hours)

Programmed Instruction: AutoTutor individually arranged. Coordinator: Employee Development Division, Code 654

Location: Training Building A quick review and refresher course in basic punctuation,

Effective Business Letters (41/2-6 hours) Programmed Instruction: AutoTutor individually arranged. Coordinator: Employee Development Division, Code 654 Location: Training Building

Course presents a variety of letter-writing situations and problems. Student is taught to evaluate sample letters and revise these samples according to the principle of good, modern let-

JOURNEYMAN AND TECHNICIAN CLASSES

Nature of the Program — These courses are designed to make a variety of development opportunities available to artisans and technicians in a range of skill areas. The NOTS courses listed contain a suggestion for suitable participants. These suggestions do not arbitrarily limit the kind of participant accepted. Each supervisor should determine, with his employees, the courses most needed for each individual's development. Burroughs Evening High School and Bakersfield Jr. College Evening Division offer many courses that should prove helpful to Journeymen and Tech-

Registration - Registration for this semester starts immediately and continues through 5 October 1964. To enroll, send one completed NOTS Course Enrollment and/or Tuition Refund Certificate 11ND NOTS 12410/28 to Code 654. Enrollees will be notified of their enrollment status prior to the beginning of classes.

Description of Courses and Schedules:

Oscilloscope-Oscillograph (6 hours)

Coordinator: J. D. Whitfield, Apprentice Electrical and Electron-

ie Instructor Suggested for: Journeyman, Helpers and apprentices in the electrical and electronics trades

Location: Training Building Provides instruction in the operation, hookup and reading of loscopes and Oscillographs. Application of the instruments in circuit testing will be demonstrated and the results analized.

Solderfication, Packaging (36 hours) Coordinator: J. D. Whitfield, Apprentice Electrical and Electron-

ic Instructor Suggested for: Assemblers, Helpers, Journeymen and Techni-

This class will offer classroom instruction and lab practice in soldering and packaging of electronic equipment in accordance with Shop Practice 19 as written by the Naval Avionics Facility, Indianapolis, (NAFI)

Solderfication, Inspection (36 hours)

7-11 December 1964 and 3-7 May 1965 Coordinator: J. D. Whitfield, Apprentice Electrical and Electron-Suggested for: Journeymen, Technicians, Inspectors in Electron-

Coordinator: R. F. Ladda, Apprentice Machinist Instructor Suggested for: Journeyman, Draftsmen and Supervisors (Class

with this standard establishing the rules, principle and methods of dimensioning and use of tolerances to define the geometric characteristics of objects defined on drawings. The pur-

pose of this standard is to establish uniform practices of state

This class will offer classroom instruction and lab practice in

soldering and inspection of electronic equipment in accord-

ance with Shop Practice 19 as written by the Naval Avionics

ing and interpreting requirements shown on drawings. Industrial Metallurgy and Heat Treating, Steels (20 hours) Fall 1964

Coordinator: R. F. Ladda, Apprentice Machinist Instructor Suggested for: Journeyman working in the metal trades. (Machinists, Welders, Sheetmetal etc.)

This course provides the participants with knowledge of the basic structure and chemical-physical properties of steels currently in use on the Station and of the effect of stresses and strains on machines and welded components.

Field Narrows to 28 in China Lake Golf Club Championships

(Special Services Officer)

championships move into the championships. semi-final round this weekend In the other half of the cham- Wensinger will meet steadily- McGovern.

Fraser defeated defending "elite four."

ways he might well be a con- Smith match for the title. The China Lake Golf Club tender for next year's Alaskan In other semi-final matches er meeting John Kraynyk and the Fraternal Order of Eagles

as the field narrowed to 28 as pionship flight McIntosh meets improved Al McDonald in a long | Fifth flight play has Colin | Bob Waters, organizational a result of third round matches.

Last week's prediction of an hies. McIntosh defeated Gerry preceded by the extensive approach is a result of third round matches.

Last week's prediction of an hies. McIntosh defeated Gerry preceded by the extensive approach is a result of third round matches.

Fifth flight play has Colin Faylor meeting Bob Dollof and chairman for the local Aerie, extends a cordial invitation to Last week's prediction of an hies. McIntosh defeated Gerry preceded by the extensive apexciting match rang true as Don Stevenson to become one of the plication of the proverbial "nee- the winner will play John Stroal persons interested in join-

final match, "giant killer" Bill Gerry Miller meets John Lic- Kinsella. In the sixth flight ities, programs and general in-Fraser now moves into the Herron continued his string of winko. In 3rd flight matches Paul King plays Jack Richards formation will be held, he said. semi-finals against Capt. Hardy upsets by defeating Warren George Blackshaw plays Jack and Larry Cossairt meets Jess Refreshments will be served

dle" by both contestants.

champion, Lloyd Klaus 2-1 in a In an early first flight semi- In the other 2nd flight match nal round with a win over Bob A discussion of Eagles activand clubhouse rumor has it that Murbach and will meet the win- Miner and Ed Nelson meets Osier.

if he continues his winning ner of the Andy Bodner - Max | Joe Seibold. Fourth flight com- To Meet Monday petition sees Leroy Beddlingmi- An organizational meeting of In other semi-final matches er meeting John Kraynyk and will be held Monday, Oct. 5, at the Ridgecrest Moose Lodge at

men who advanced to the fi- ing.

Order of Eagles

during the evening.

DAVID L. ELLIOTT, NOTS Pasadena mathematician, par-

layed a math major at Pomona College into a Master's Degree from USC, overcoming life-long hemophilia handicap. He won Superior Accomplishment Award with outstanding work.

JAMES O. DAKE, chemical engineer, who has worked in Code

45 since his arrival at NOTS in 1957, has proved to be a

valuable member of the China Lake team despite a severe

handicap caused by rheumatoid arthritis since school days.

sparkle never left his eyes while in that considerable effort he can come in when he needs mathematics was the subject of would have been expended if to. "I worked 12 hours last Sat-Pasadena mathematician and at this stage of the development this.

holder of a Superior Accomosophy. Conceding that there is ence with fire control systems; be administered. much room for improvement in hence, his thorough understandhuman relations throughout the ing and analysis of the probworld, he believes nevertheless, lem, in addition to discovering that it's hard to beat a society design errors, is even more which finds time to be interest-

ed in and assists the handi-"The computer," Dave comcapped in achieving success mented modestly, "is a mathe along with the mainstream of matician's best friend."

Dave attributes much of his Dave fought an up-hill fight success to "luck." He says he all his life. He has hemophilia, parlayed his chances on a cola hereditary condition charac- lege education in mathematics trollable hemorrhage, even from demand for mathematicians. A Born in Cleveland, he came ticket one day. "I'll take it; may- JP to California at the age of 10. be I'll get lucky," Dave said.

Gets Laboratory Job He attended Ontario schools He didn't win anything on the until he graduated from high

the necessary correction to the urday," he said. Relatively few friend. He is David L. Elliott, NOTS circuitry was not incorporated employers have openings like

(Continued on Page 7)

He never went back. Boy actor, military academy live in 1944, he's doing pretty But there are days when he student with West Point eligi- well. The recommendation further can't come in at all. Days when bility, film technician, studio

Unofficially, there's a Dave Elnew life at China Lake. For a one- and two-reelers — prede-

In Kid Comedies At the age of 4, Bob Thomas

Gang" comedies.

productions.

Later he worked as a studio

technician, film cutter and stunt

man, stunting for Humphrey Bo-

gart and other stars. On his

own, he was a stunt "heavy"

for Republic Studios, and in

Gene Autry and Roy Rogers

He was married in 1941, and

with the coming of World War

ical. But his childhood records

stated: "Mr. Elliott had no pre- a rush trip to a hospital is film cutter, stunt man and war-Dave has a very practical phil-vious detailed analysis expericalled for; when plasma has to time Maritime Commission inspector, Bob Thomas found a man who had six months to cessors of the famous "Our

The name plate on his little office reads: "James O. Dake,

Looking back on the last sev-

ice in Code 45. To his professional accom- disclosed a trace of osteomyeli-

school where his interest in ticket, but the next day he got a record of considerable accom-

Active Role Here

Jim Dake has been active in he fell 28 feet. month. To top it off, he's a mem- sleep, and when he awoke, he ber of the Cactus Squares, a was paralyzed from the hips square-dancing club.

for any man, to say nothing of accident. one who has suffered severely He was on his back for three from rheumatoid arthritis since years with a severed spinal his sophomore year in high chord. Just before Christmas of

Gets Degree, Finally

degree from Joplin Junior Col- home. lege (Missouri), then spent two | When he was able to engage

(Continued on Page 8)

'Six Months to Live in 1944'

Bob Thomas Came to Visit Friend, Never Went Back



ROBERT B. THOMAS, motion picture production specialist, given six months to live in 1944, will complete 20 years at China Lake next February. He came to Station on a visit and never returned home, overcoming broken back, paralysis.

Twenty years ago come February, Robert B. Thomas and his wife, Lois, came to China Lake from Redondo Beach to visit a

was an actor - featured in a series of "Neighborhood Kids"

Despite Years of Suffering

Jim Dake - Perseverance Is His Key to Progress

terized by profuse and uncon- at a time when there was some Propellant Evaluation." The man at the desk is a chemical engineer, with a BS degree from the University of Kansas. He came II, he figured his military school-

friend sold him a benefit raffle to NOTS in August, 1957, as a earned through continuous serveduty; so he reported for a phys-

en years, Jim Dake can catalog plishments, add the personal tis, and he was washed out.

mathematics was encouraged by his NOTS Laboratory job. In plishment, not the least of anniversary coming up this As his contribution to the war Dave's circumstances, the chief which is an increase in his earn- month. Too young to help Jim effort, he became a Maritime advantage of his work is that ing power of 145 per cent, and his wife, Janet, celebrate, Commission in spector in the but adding to the joy of the oc- Long Beach - San Pedro area. casion will be their now 10- While inspecting a Navy hospital ship, the scaffolding on which weeks-old daughter, Robin. he was standing collapsed, and

community affairs, too. He is At the infirmary, in a state of associated with the China Lake shock, he indicated a painful Park Commission, has served as ankle. A week later, the doctor assistant scoutmaster, scoutmas- gave him a release. Another ailter and district camping activi- ment prompted him to report ties chairman. He takes his to the hospital for a check-up. troop on a camping trip every Under sedation, he went to

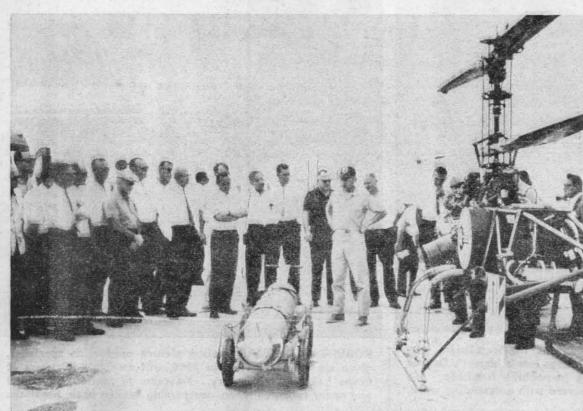
Pretty good for a Galena, Kan- For three months the doctors sas, farm boy who grew up puzzled over his case, until an with three brothers and five X-ray revealed that he had sufsisters? That's a lot of activity fered a fractured spine in the

1944, the doctor told him everything that could possibly be Between high school and jun- done had been done, Diagnosior college, Jim lost a year- tically, he had from six months which he had to spend in bed. to two years to live, and if he The summers of 1950-51-52-53 wanted to remain in the hosand 55 he spent in a hospital. pital, he could do so; or sign He won an Associate of Arts a waiver and go home. He went

(Continued on Page 7)

NOTS Pasadena As Asst. Tech. Officer

Navy Leaguers Tour Island See Dash, Pop-Up in Action



Fifty-four members of the Los Angeles Council of the Navy
League toured San Clemente Island last week gaining a better
understanding of the vital role of NOTS in ASW Research and

It's Retirement Life United Crusade

During their visit, hosted by Capt. G. H. Lowe, OinC, NOTS

Pasadena, and LCdr. J. E. Schaefer, Jr., OinC, SCI, the group
toured the island by bus, and boarded the staging vessel to view Richard Heller, Polaris Project Manager, and D. A. Kunz, Head,

Systems Operations Division, briefed them on the Polaris pro-After luncheon, the visitors were given a general briefing by Howard Talkington, Advance Systems Branch. Traveling next to

the MORAY area, they were briefed by R. J. DeMarco, Lt. Robert Blaine and CWO R. McLaughlin. Next, the VU-3 group demonstrated DASH while Lt. C. I.

Cook explained the program. Upon returning to Long Beach, the Navy League hosted a



NAVY LEAGUERS view Polaris Fishhook shot from staging vessel during tour at San Clemente Island.

He comes to NOTS from Tactical Air Control Squadron 11

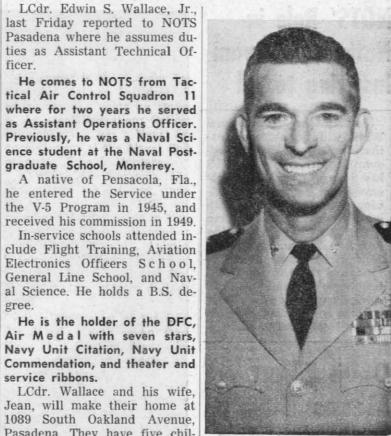
where for two years he served as Assistant Operations Officer. Previously, he was a Naval Science student at the Naval Postgraduate School, Monterey. A native of Pensacola, Fla., he entered the Service under

LCdr. Wallace Reports

the V-5 Program in 1945, and received his commission in 1949. In-service schools attended include Flight Training, Aviation Electronics Officers School, General Line School, and Nav-

He is the holder of the DFC, Air Medal with seven stars, Navy Unit Citation, Navy Unit Commendation, and theater and ervice ribbons.

LCdr. Wallace and his wife, lean, will make their home at 089 South Oakland Avenue. Pasadena. They have five children: Christopher 11, Leslie 9, Robert 7, Nancy 3, and Paul 1.



Fogarty To Chairman "Two Drives In One"

Set Oct. 16-30

John J. Fogarty has been ap-United Crusade Fund Drive. United Crusade combines two drives into one - United Way and American Red Cross.

The drive is scheduled at NOTS Pasadena during October

Fogarty, an Enginering Technician, is a member of UOD's Propulsion Division. He has been with NOTS for 13 years, and last year served as Treasurer of the United Way drive. He will be assisted in the drive

by keymen throughout the Pasdena organization. BUY BONDS

LESLIE H. HILDRETH

Your pay raise will mean more to you TOMORROW - if you put part of it into Savings



Leaving NOTS last week after Propulsion Division Man Earns Ph.D.

out on disability re-William B. Arveson — Dr. Ar-Most recently with Supply's veson, that is. He received his Industrial Manufacturing Ph. D. and became a father Branch, Les's retirement marks within the same 24 hours.

converted to Civil Service in Dr. Arveson first came to One year of his NOTS em- intermittent and part time work ployment was at China Lake, in here since.

group transferred to that loca- in Mathematics from the California Institute of Technology in Les has been active for many 1960, attended UCLA during years in the Speaker's Bureau, 1961 - 1964 where he received representing NOTS Pasadena at his M.A. and Ph.D. degrees.

community and professional He is currently employed in the Propulsion Division where He is active also in many Ma- he does applied research in presonic activities, being a mem-diction theory and functional ber of Blue Lodge, Master Ma- analysis.

sons, Royal Arch, and Shriners. Incidentally, he met his wife, For the next few months, Les Sandy, some years ago in the plans to "just take it easy." Propulsion Division where she Then later, he and his wife, was also working at the time. Aroura, will take short trips. The Arvesons and their oth-They reside at 341 East Forrest er son, David, reside in Pasa-



DR. WM. B. ARVESON

Pins Awarded Boy Scouts at Court of Honor

Friday, October 2, 1964

PROUD MOTHER, Lee Bar-

ker, gets Life Scout pin from

as son Andy pins Star Scout

week. She had been unable to

Mrs. William Ranes was the

Other business of the meeting

was the announcement that Oct.

8, next Thursday, will be the

date of the club's Bake Sale in

Attending the gathering as

guests were Mrs. Vincent Bren-

nan, Mrs. Jack Pierce, Mrs. Wil-

liam Spruiell, Mrs. Douglas Lea-

ry, Mrs. Francis Smith, Mrs.

Charles Moore, Mrs. William

Walsh and Mrs. William Jones.

The next meeting of the CPO

Wives' Club will be held next

Monday, Oct. 5, in the club dir

Chief Wilbur Kee

Retires, Receives

CO Commendation

Wilbur Kee, AHBC, attached

to the Naval Air Facility since

reporting to China Lake in May

1963, was retired from the Navy

The 21-year career Navy man

was "piped ashore" by fellow

CPOs following the award of a

letter of commendation made

Kee had reported here from

duties at Kodiac, Alaska, where

he served with crash and res-

performed at the Naval Air Fa-

cility firehouse as Military Su-

Kee, his wife, Norma, and chil-

dren, Linda, 17, and Steven, 2,

will establish a residence at

His duties locally have been

by Captain Robert R. Yount.

this morning during ceremonie

held at Hangar Three.

cue units.

pervisor.

Hanford, Calif.

ceremonies held in August.

installing officer.

Bennington Plaza.

Boy Scout Troop 41, sponsored by the Protestant Congregation of the All Faith Chapel, began its fall season with Court of Honor, the highlight of which was the awarding of a Star Scout pin to Andy Hinz and a Life Scout pin to Roger Bar-

Also at the Court of Honor, Richard McLaughlin presented Tenderfoot pins to Monty Blurton, Lynn Drew, John Hunter, and Paul Viellenave. Al Pena presented First Class Scout pins to John Langland, Mike Kamimoto, and Jim Viellenave. A total of 11 boys earned a total of 30 merit badges, and the boys were presented their badges by Robert Belisle, who has attained the rank of Eagle Scout.

The adults responsible for this hard-working active group of boys are Al Pena, scoutmaster, and Andy Hinz, assistant scoutmaster. Don Wheeler is the Institutional Representative between the Troop and its sponsor, the All Faith Chapel, Nick Kleinschmidt, troop committee chairman, Lynn Barker, Richard McLaughlin, E m m e t t Blurton Daniel Soto, John Strommen Ron Henry, Sid Shefler, and Mel BETTY HINZ also shows pride Bens are members of the troop

AIAA Membership Mrs. Morrison Drive Big Success Installed as CPO

of the China Lake Chapter of the AIAA (American Institute of Wives' Treasurer Aeronautics and Astronautics) announces that the recent mem-Mrs. George Morrison, treasurer of the Chief Petty Officer Wives' Club, was installed in office at the club's meeting last

attend the regular installation

uled for the coming year.

Fire Prevention Inspections Start



FIRE DIVISION teams were inspecting residences on Station this week. Mrs. Novean Fincher, of 200-B Langley, receives inspec-

tion form from Fireman E. Miller, as Jim Lefler gets supplementary literature ready. Fire Prevention Week is Oct. 4-11.

'World Around Us' Series Will Feature Five Lecture - Films

Five lecture-films will be presented during the 1965 "World Around Us Series" sponsored by the China Lake Community Council and the China Lake Education Assoc., it was announced

tre on Dec. 2 at 7:30 p.m.

beque and swim party held at presented by world travel au-Two field trips and three pro- the Mysterious Balkans" on Jan. on sale beginning Oct. 9 and fessional meetings are sched- 12 with Gene Wiancko; "The may be purchased from the

LUAU PRELUDE-NAF's Mark Morrell, AQ2, official greeter

for the Acey-Deucey Club's luau, watches as Anthony Rod-

prelude to evening's festivities. The Saturday event was at-

tended by over 300 guests. Flowers were donated by Hono-

rigues, AE1, places lei around neck of his wife, Eleanor, as

"Into Siberia," with Raphael Feb. 11 with Arthur C. Two-Green of the University of Min- mey; "Scandanavian Summer" nesota narrating, will inaugurate on March 10 with Arthur Dewthe series at the Station Thea- ey, and "Peru Today" to be pre-

Other narrated films to be April 27. thorities include "Greece and Changing Heart of Africa" on Community Council directors

Tickets for the series will go and members of the China Lake Education Assoc. Tickets will also be available at the Community Center or from China Lake elementary and junior high school teachers.

In addition, tickets will be nail from the Community Counmail from the Community Council, P.O. Box 5443, China Lake. Trustee Board

year, with a single season tick- the Station Commander, has acet at \$4, a family season ticket cepted a position on the Maticket at \$2, and student tickets ees, it was announced at a spe-

GEBA Assessment Number 85 Is Due

Members of the Government Employees Benefit Association At the same meeting, Direcments No. 85 and No. 13 are pacity. now due.

McBride, 52, an Engineering De- next year's vacancies on the pital Sunday morning.

Payments of \$1.20 may be mailed to the Secretary - Treasurer Joseph M. Becker, 77-B Five New Teachers

Iulu friends of Dorothy Stands, flown here courtesy UAL. gers.



Mrs. John I. Hardy

available on selected dates dur- Mrs. Hardy Joins ing October and November in front of the Navy Exchange. They may also be ordered by

Mrs. John I. Hardy, wife of single enlisted man's turango Museum board of trust cial meeting last week. Mrs. Hardy will fill the vacancy created by the resignation of Mrs. Mabel Phipps whose husband, Dr. T. E. Phipps, was transferred to Washington, D.C.

and China Lake Mutual Aid So- tor Ken Robinson agreed to ciety are informed that assess- serve another year in that ca-

It was also announced that Assessments have been levied the nominating committee is due to the death of Clyde J. now selecting candidates for partment employee, who died at board. Election will be held at the Ridgecrest Community Hos- the January annual meeting of

Mrs. Janet Funk is a new fifth - grade teacher at Rowe Mama: That's a good boy, School. At Richmond School, Junior. I'm glad to see you four new teachers have joined sitting so quietly while Daddy the staff: Mrs. Judith Willis, first grade; Mrs. Betty Sprouse, Junior: I'm just watching his second grade; Mrs. Beverly Pocigarette burn down to his fin- well, third grade, and Mrs. Gladys Eriksen, fourth grade.

well cat. scht

the loss of one of our early His degree in Mathematics NOTS pioneers. He first came was received from UCLA, and to the area with General Tire his wife Sandy presented him and Rubber Company in 1945, with a son, Jeffrey, a few hours and was one of the group which later.

NOTS Pasadena in 1959, with 1954 when the engineering He received his B.S. degree



PROMOTIONAL

OPPORTUNITIES

Electronic Engineer (Solid State Devices) GS-11, PD 455046, Code 5521—Incumbent is

and electronic components as employed in

ervo system. Develops test procedures to valuate the effect of the system. Incumbent

also required to make calculations to pre-

lict cost, companent performance or design

anduct and evaluate tests to determine that

Physical Science Administrator, GS-1301.1-13, PD 38002, Code 551—Position is that of Assoc.

Div. Head, Quality Engineering Div., Engineering Dept. The mission of the Quality

gineering Div. is to establish and ther

ntain the necessary quality standards for ion-developed ordnance and associated

ipment and material, and to perform the

ssary engineering, testing, evaluation, in-

Secretary (DMT), GS-5, PD 455020, Code

rvisor's calendar, reviews incoming cor

handled personally, reviews all outgoing

orrespondence originating within the Di-ision for proper format, grammar, spelling

Mechanical Engineer, GS-9, Code 5521

design related to mechanical mechanis

mployed in servo systems and carries ou

Electronic Development Technician (General), GS-9, Code 5523—This position will require

the performance of necessary technician du-ties in design and construction of special

test equipment. In some instances he will perform all of the design work for the test

pment needed and in other cases he will

modifications to standard equipment

onic devices with mechanical and opti

specialized use. Incumbent will be re ired to work with test equipment fo

Ision system components to meet the re irrements of the BOMROC motor design

istics problems. Must be capable of de ing tests including both instrumentation

d test procedures to test designs produced

File applications for above with Louana Schneider, Bldg. 34, Rm. 26, Phone 72676. Accounting Technician, GS-5, PD 017017,

Accounting Technician, GS-5, PD 017017, Code 1762—Maintains payroll and leave ac-counts of graded and ungraded employees

and controls separate local fund accoun

at the program, task, local project or char nel level. Also provides cost and perform

ance analysis for individual departments.

Qualifications Required: 18 months' experi-

ence in performance of clerical duties in any area of work **plus** 18 months' experience in

payroll work and cost accounting, six months of which must have been equal to GS-4

COMPETITIVE EXAMS

The duties will include designing propellar

of components and hardware of

nents satisfy system specification

nsible for design of electronic circu

liott Club on station, whose

members are ready to donate

blood whenever it's needed. At

the hospital, fresh frozen plas-

Tells of Progress

Dave is a board member of

the Southern California Hemo-

philia Foundation - one of 60

some 300 hemophiliacs in the

Southern California area. Much

progress has been made since

the foundation was established.

Orthopaedic hospitals have

cooperated, making arrange-

ments for emergency care;

keeping fresh frozen plasma on

hand; providing braces when

Among other things, Dave is

working with Lou Lopes, his de-

partment head, on a Control

Theory paper. He is the author

of a paper on Stereoscopic Draw-

ing Output for Analog Compu-

Dave was married in 1956. He

resides in Altadena with his

wife, Kiyoko, and two children,

Marguerite, 7, and Philip, 21/2.

Dave Elliott proves that his the-

ory applies to life as well as

mathematics: A hemophiliac is

someone who hates defeat, and

works out other means of solv-

(Continued from Page 5)

ing a problem.

By his indomitable spirit,

Dave says.

necessary.

- serving in the interests of

ma serves the purpose.

CHAPLAIN'S MESSAGE

Talks With **Teenagers**



By Fr. Joseph A. Costa, O.F.M. CAP.

Dangers of going steady, too early. First, you would lose your freedom. At this time you are probably old enough to do things on your own. To a large extent you can come and go as you please, without having to report every move to your parents. You may be earning money which you can spend on yourself. You can buy your own clothes, maybe own a car, buy records that strike your fancy, and so on. You are also free to date whom you please, attend parties, dances, and other social activities as you yourself decide.

But when you marry, you give up these freedoms. You soon 552-Duties of this position is to receive tele-phone calls and official visitors, keeping the find that you can't enjoy the pelasures of other normal youngsters of your age because you are tied down by the responsibilities of marriage and parenthood. In effect, you barely leave your own childhood before you take on the job of raising a new generation of children.

Secondly, you would lose your once-in-a-lifetime chance to prepare yourself fully for your future career. This preparation is more important now than ever. The positions in life which give you a chance to use all your talents in serving both God and man, and which pay the best salaries are almost always those for which you need a college education or its equivalent. For some professions it is even necessary to take three, four or more years of post-graduate work in addition to college training. Obviously, if you marry at eighteen after graduation from high school - as many do - you sharply lower your chances of going on to college and preparing for other jobs where added schooling is needed.

Finally, when you marry (contrary to the belief of some!) you are bound to your mate for life. It can't be repeated too often that your choice of marriage partner is the most important decision you will ever make.

But here's an oddity. If you wanted to buy an automobile on credit, a bank wouldn't lend you money on your signature because you are not considered legally responsible until you are twenty-one. You couldn't even buy a cheap radio on the installment plan, because if you failed to make the payments, the seller couldn't enforce the contract.

When you are too young to borrow fifty dollars from a bank, isn't it ridiculous for you to sign and seal the most important contract you will ever make — the one which will last for the rest of your life?

Protestants to Share World Wide Communion Rite

This Sunday, Oct. 4, is World Set for Nov. 20 Wide Communion Sunday throughout the Protestant Par- The Catholic Chapel's annual

simple 24-hour periods, congreter, Father Joseph A. Costa and is Oct. 9. gations of the various denomin- nounced this week. lain Robert Odell reported.

At the 8:30 and 11 a.m. Prot-until 1:30 a.m. estant Services of the NOTS All Faith Chapel, World Wide Communion will be observed and the Rosary Altar Society, Holy administered by Chaplains Odell Name Society, and at the chapfor Pumping Plant Operator, \$2.94 p/h, first step. and M. E. Fite. Any and all who lain's office. It is emphasized step, and Tree Trimmer, \$2.73 p/h, first step.

Hebrew Services

Tonight marks the resumption | 120 couples. Those making resof semi-weekly services for Chi- ervations are asked to indicate na Lake residents of the Hetheir choice of entree, and also SecNav Urges All brew faith, both civilian and to indicate with whom they wish military. Services, every first and third Friday of the month, to be seated at the eight - place Absentee Voters will begin at 8 p.m. in the East table settings. Wing of All Faith Chapel.

The Rocketeer

Official Weekly Publication

of the U. S. Naval Ordnance Test Station China Lake, California

Capt. John I. Hardy, USN

"J." Bibby
Public Information Officer

Jack G. Broward Editorial Advisor

Richard Grueneberg

Budd Gott Associate Editor

Frederick L. Richards

Special Assignments

Bill Borgstadt, Sports
DEADLINES

The Rocketeer receives Armed Forces Press

Service material. All are afficial U.S. Navy photos unless otherwise Identified. Printed

weekly with appropriated funds in compli-ance with NavExos P-35, Revised July 1950 Office at 50 King St., Bldg. 00929. Phones—

Tues., 4:30 p.m. Tues., 11:30 a.m.

Annual Catholic Dinner Dance

dinner and dance will be held level. On this occasion during these Nov. 20 at the Community Cen- 34, Rm. 28, Phone 72218. Deadline for filing

ations gather for the sharing A choice of lobster tail or fi- NOTS-IVa-7 64) will be held here for Leadand reception of this beautiful let mignon will be served at the closing date is Oct. 5 and the closing date is Oct. 19. Salary is sacrament of our Lord, Chap- 8:30, following a cocktail hour. \$6697.60, \$6,968, \$7,238.40 p/a. Music and dancing will continue

DIVINE

SERVICE

Christian Science (Chapel Annex)— Morning Service—11 a.m. Sunday School—11 a.m.

Morning Worship-8:30 and 11 a.m.

Roman Catholic (All Faith Chapel)— Holy Mass-7, 9:30 a.m., and 5:30 p.m.

6 a.m. Monday through Friday, 8:30 a.m. Saturday

Confessions-8 to 8:25 a.m., 6 to 8:30 p.m.

OTS Hebrew Services (East Wing All Faith

Every first and third Friday, 8:15 p.m.

Fellowship Meeting—Sundays, 7:30 p.m. Sunday School—10:45-11:45 a.m.

Unitarian Fellowship (Parish Hall)-

Sunday School-9:30 a.m., Chapel Annexes

1, 2, 3, 4 (Dorms 5, 6, 7, 8) located op-

Protestant-(All Faith Chapel)-

posite Station Restauran

Applicants must be career or career-con-ditional employees of NOTS China Lake or Tickets, at \$5 per yerson, are now available from members of the sound of the sound

that because of limited space, 5001-BC with Detached Representative, Board ticket sales must be limited to of Examiners, 11ND, China Lake, Calif.

The event will be semi-formal. To Get Ballots

"If the American military man wants equal representation in government with his fellow civilian, he must vote," Secretary of the Navy Paul H. Nitze commented in an AlNav memo.

"All commands are urged to . . encourage personnel away from their voting residence to mail federal post card applications for absentee ballots if they have not already done so," Nit-

Request Local Ballots from Maxine Sutherlen Local voters may secure ap-

plications for absentee ballots from deputy registrar Maxine Sutherlen, 450-B Essex Circle.

Applications may be submitted not earlier than Oct. 5 and not later than Oct. 27.

'DESERT PHILOSOPHER'

From Lions To Landscapes



Meet the people. Here is a man of many talents, Cec H.

He knows every flower in this desert by its first name, and also its scientific name-and how it got its name. And most of the animals

Cec has painted over 100 landscapes in oil, with outstanding talent. Has given away many-sold many, and now has about 50.

Wade is an ex-merchant seaman, and wild animal trainer. To start at the beginning-how he got that way . . .

AN EARLY START — AT AGE FIVE He was born in Los Angeles, June 5, 1902-when he was five years old his family moved to a ranch near Modesto, Calif. That's not far from the High Sierras and Yosemite National Park (Yosemite means grizzly bear in the Indian lan-

Cec's father was a natural-born naturalist all his life-and besides raising cattle, horses and hay, he was a hunting guide in the Sierras. So Cec started learning about animals at an early age from his father.

He went through grammar school in nearby Modesto. The rest of his education came from night schools and public li-

He worked on his father's ranch in the daytime and went to school at night, studying animal husbandry, art, painting

Everywhere he went, he had his ever-present sketch pad. Things were not so good on the ranch in the 20's; so he went to San Francisco and signed on with the merchant marine,

returning to San Francisco after an apprenticeship at sea. Then he took a job soliciting subscriptions for the San Francisco Call-pushing door bells for a few weeks-and back to studying at the Nelson Art School.

File applications for above with Dora Childers, Bldg. 34, Rm. 32, Code 657, Phone 71393. The art school recommended him to the Call-where he Mechanical Engineer, GS-830-12, (3 vacan cies), Code 4574—Designs and develops pro already was soliciting subscriptions-and his art work was accepted. So he got a job on the Call as an illustrator for a year and a half. igurations, selection of proper material motor casing and the solution of interna

He had also studied with the Associated Art School of New York, by correspondence.

HE TRAINED MGM LION(S) TO ROAR

About this time Wade met Frank Whitbeck, head of publicity for Fox West Coast theaters, and later for MGM. Through this acquaintance and a wild animal importer in San Francisco, he got a job on Gay's Lion Farm, at El Monte, caring for and training lions . . . because of his love of animals and a yen for adventure.

So he changed his profession from art to animals. He trained the MGM lion, Numa, and also Menelik, to roar on signal. He said Numa would follow him around like a dog. On this animal job he met many motion picture people-

became well acquainted with Al Jolson and others. After a year with Gay's Lion Farm, he started training animals for independent motion picture outfits - dogs, cats, bears, young lions, tigers, ocelots and others.

He worked for Art West, who owned an animal farm near San Gabriel, and was a pal of Charles Bickford. At this time he also worked with Ed Hunter, who was a herpetologist.

All this time, Wade was studying wild animals and wild flowers in the public libraries-with his ever-present sketch pad, and once again the art bug hit him.

He studied water colors with Arthur Beaumont, noted Navy artist, and Sam Hyde Harris, who coached him in oils. Full time study-painting, painting, painting-through the early 40's, just prior to World War II. With the U. S. getting into the war, he thought he had

better get with the war effort. THEN TO THE LAND OF THE WILD FLOWERS

So, with the Harbor Fire Inspection in 1943, and later with the Navy on Terminal Island, as fire inspector for four years. Then he transferred to China Lake NOTS in 1947 . . . and a big desert, full of wildflowers to study. That's how come he is

Along the way Gec has dabbled with rocks a bit-has several big pieces of green jade, the finest specimens I've ever seen, both salt water and fresh. Found from Cambria Pines to Carmel.

But his life-long interest has been animals and wildflowers.

Some notes on how flowers got names-

Helio-trope (follows the sun). Coreopsis (looks like a bug).

Gladiolus (the sword of a gladiator). Alfilaree Geranium (crane's bill-bores itself into the

Verbena (foliage). Ranuncula (leaf looks like a frog).

Cec Wade is also community oriented—a member of The Fire Fighters-who sponsor a Cub Scout Pack-No. 412-have been for 12 years, and Cec is the institutional representative.

During animal training years in the Los Angeles area, he married a young school teacher. He says his wife Edith has been his best pal ever since.

He has one son, Tom, and one daughter, Marjory, who is married, and has presented him with two grandsons. How much varied experience can a man put into one lifetime? Cec seems to have one answer.

With all due respect for his way with animals, I would say his greatest talent is painting landscapes in oil. He has that talent to put feeling into a landscape. There seems to be a bigger percentage of genuinely in-

teresting characters in this area than anywhere else.

Engineers Learn How Vibration Dave Elliott . . (Continued from Page 5) Tests in Lab Can Save Missiles

Components Given Simulated Flight **Shock Treatment**

It's bad enough when your car radio quits as you hit a bump in the road; perhaps a defective tube stops functioning. Nothing serious; hit the dashboard and sometimes the radio will play again.

A few seconds after liftoff, a missile goes out of control, turns erratically, and is blown up by the Range Safety Officer. What went wrong?

It has been estimated that around 40 per cent of all missile aborts have been caused by vibration . . . vibration that interfered with the proper functioning of some tiny component within the missiles.

No Chance of Repair

Aboard a missile in flight, the shock and vibration are unbelievably severe. Even momentary failure of some delicate guidance electronic unit may cause loss of an otherwise perfect, very expensive missile. There is no spare guidance unit aboard due to weight restrictions. And no human operator to restore proper functioning.

Reliability, that's what we need: components that can operate without failure, even when severely vibrated. How do we get such components? The most practical way involves vibration testing that duplicates flight vibration in the environmental test laboratory. This is done in Michelson Laboratory, the Pilot Plant, and elsewhere at China Lake and also at Pasadena.

People must be trained to operate and maintain the complex, vital equipment. For this reason, David P. Newman and Peter Bouclin, of the Engineering Evaluation Branch, Code 5516, arranged for a 2-week vibration training course at China Lake. The course taught the fundamentals of vibration testing to nearly 50 NOTS personnel.

It was taught by Wayne Tus- so met with individuals and with more stringent selection test, Previously this year, he has develop more reliable transis whose realiability is higher, just for the equipment. Instalton, at Naval Torpedo Station, missile flight vibration, similar Similar "improvement by dition to the Michelson Labora-Naval Air Station, San Diego. frequencies of vibration. Then sands of missile components, for shaker unit will be isolated in ble it.'

sessions here included laborato- serve how well they work. Some for complete electronic and me- rest on a 50-ton concrete reacry demonstrations of vibration are better than others. We de- chanical units and systems. Fi- tion mass, so that its vibration stuff out of the crates." phenomena. Demonstrations termine why some fail and what nally, vibration and shock are will not be carried through the of the test equipment itself, strengthening of the more rug- Some vibration testing was done other parts of the Laboratory.



Eubank, Robert Hall, Henry Blecha (seated),

OPERATION of the 24,000-watt Ling power amplifier and

how it aids in vibrations testing is the subject of instructor

Tustin (left), Henry Blecha and Robert Hall.

structor. Nearly 50 NOTS personnel completed the two-week course for engineers.

during World War II. when many military aircraft missions failed because of radio and radar fail- Bob Thomas . . ure in flight. Shake-testing up to 55 cycles per second was done on all-mechanical "shake in limited activity, he puttered tables." These were about as in the garage, repairing fishing simple as a hardware store paint tackle and tieing flies, which Shakers More Complicated Now

After World War II, the servshakers are close to loudspeakgantic electronic amplifiers and the while, standing in a corner complicated control systems.

we vibrate transistors from dif- subassemblies such as plug-in a separate room, partly to pro-Two of the regular morning ferent vendors, while we ob- electronic card assemblies, and tect the ears of workers; it will the technician.

were popular with fishermen. Pays 'Visit' to NOTS Then came the visit to NOTS ices spent much effort and mon- Bob recalls he laughed when ey in measuring vibration they asked him why he didn't aboard military aircraft. They stay and work here. "Me, take found it necessary to duplicate a job?" he asked incredulously. vibrations up to 500 cycles per Why not, his friend replied, you second. These higher frequen- might have something they need. cies (up to 2,000 cycles per sec- Bob agreed to a tour of the ond when jet engines appeared) Station, and finally he came to caused development of much the photo lab. A technician told more sophisticated vibration him they sent the 16mm film generating machines. Modern out for processing. "What they were doing here," ers in their principle of opera- Bob said, "was virtually develtion; they are powered by gi- oping film in milk bottles." All

in crates, was a good Bell & tin, president of Tustin Institute small groups in the afternoons. applying more severe vibration. Vibration testing machines toof Technology, Santa Barbara. Let's suppose that we want to Gradually, we get transistors day can cost around \$500,000, 35mm Houston processor. "We have the equipment," he taught Navy personnel at Puget tors for missile applications. We whose chance of proper opera- lation can be very difficult and was told, "but no one knows how Sound Naval Shipyard, Bremer- can set up a test that simulates tion in flight is much improved. expensive. For instance, an ad- to put it together." "With a little help," Bob said, Keyport, and at North Island acceleration levels and similar weeding out" goes on for thou-

"What do we do first," asked

"First," Bob replied, "get that

The rest is history. He and Lois were designed to show the be- features make others work well. applied to complete missiles. building structure and interfere called a moving firm, had their havior of missile structures, and Then we ask for further This is not a new business. with delicate measurements in belongings put in storage, and sold their Redondo Beach home by phone.

Today, Bob Thomas, motion picture production specialist, and his wife Lois are among the best known residents of the China Lake community. They reside in Ridgecrest in a 20' by 40' trailer. Bob is quite active again - in fact, he's commander, with the rank of major, of Squadron 84, Civil Air Patrol.

OIL COMPANY VIEW

Car-crazy Americans are sure to read any article detailing one of those "revolutionary" engines of the future that will run on anything from buttermilk to hair oil. A major oil company takes the wet-blanket view that buttermilk, hair oil and even distilled water cost more than gasoline's three cents a pound (not including tax) at the pump.

Tennis Club Maps Fall Tourney Plans

players. There are no entry A doubles tournament will be A singles tourney will be con- 7-8, following the singles tourducted during the first week- nament. end starting October 31. An in- You may phone your entry to novation this year will be a sep- Cdr. Stan Able 8464 (office) or

held on the week-end of Nov.

ROCKETEER PHOTOGRAPHER Seth Rossman is sworn in for another six-year hitch by Ltig. W. F. Elrod, XO of NOTS Enlisted Personnel Div. The Indiana Navyman came to NOTS last March from class "A" Photographer's Mate School, Pensacola. He and his wife, Sandra, and their three-weeks-old daughter recently acquired new quarters at 62-A Franklin.

while under vibration. Tustin al- ged transistors and set up a The China Lake Tennis Club round. Entries for the singles

will hold its annual fall tennis will close on Monday, Oct. 26. tournament during the week. All players will be notified as ends of Oct. 31-Nov. 1, and Nov. 7-8. The tournament will be before the start of the tournaopen to all interested tennis ment.

arate tournament for those Gerry Whitnack, 71747 (office) players who lose in the first 723172 (home).