The final phase of architectural planning is now in process for the construction and rehabilitation project of school facilities in the China Lake School District.

The target date for the construction project to start has School for this school year dur-

are now in the hands of the Com- porary classroom in the district. mand of the Naval Ordnance The cooperation of the Naval considerations of these groups. session schedules.

Two-Phased Project

classrooms, a multi-purpose control of both campuses.

Richmond School will have an expansion of its administration the China Lake Board of Trustand one new kindergarten unit ees and the School Administrawill be added to the campus.

the addition of a shower and locker room, an art room, and a dren. Problems in school zoning. shop for use by the seventh and actual class assignments, and

of the Groves School to elimin- new to the district has been comate fire and safety hazards and pleted by August 16. to expand administrative facili- Parents of eligible kindergarties. The expansion of District ten children and children in Central Administrative area lo- other grades new to the district included in this phase of the is now in process at the district construction program.

Problems Involved

assignment and instructional fa- required to register.

ment and the loss of Groves be greatly appreciated.

17-Weirder 19-Cravat 20-Repulse 21-Satellite of

earth 23-Earth

goddess 24-Prophets 27-Beard of

grain
28-Distance
measure
30-Chafe
31-Preposition
32-Runs
34-Proceed
35-Tidy
37-Mother of

33--Weaken
33--Mistake
41-Brother of
Odin
42-Healthy
43-Puff up
45-Young goat
46-Back down
48-Has been
borne
51--Man's name
52-Artist's
stand

stand i-Hawaiian

wreath -Manu-

DOWN

box 4-Escape 5-Cover 6-Cooled lava 7-Dirk

CROSSWORD PUZZLE

been set for September 1963. ing its rehabilitation will force Complete.. preliminary.. plans the use of every available tem-

Test Station, the Housing and Ordnance Test Station Command Home Finance Agency, the Cal. which made available the Rowe ifornia State Department of Edu. Street huts for school use during cation, and the China Lake Dis. the 1963-64 school year, has altrict. Final plans will result from leviated the necessity for double

As a result, the Groves School Two phases of construction are organization will be carried on included in one project number in the Dallas huts at both the under Public Law 815. The first Groves School and the Rowe phase included new construction Street facilities. Mr. Barker, the at four school campuses. Desert Groves School principal, will Park will be made a complete have his temporary office at school with the addition of nine Rowe Street, with administrative

room, cafeteria kitchen, faculty To provide adequate adminisroom, storage facilities, adminis- trative services, the China Lake tration area, and playground Board of Trustees has authorized equipment. A new kindergarten a head-teacher position and adunit will be added to the Vieweg ditional secretarial time at the Groves School campus.

Cooperation Appreciated

tion in their attempt to solve the The Murray School will have the district and still provide the operational problems faced by best possible education for chil- For JP Wives

office located at Murray School. Children who were in attendance Temporary adjustments of in the district at the close of the school zone assignment, teacher 1962-63 school year will not be

cilities will be necessary during Some adjustment to the conthe 1963-64 school year until the ditions faced during the school new construction and rehabili- year will be necessary by pupils, parents, and staff. The cooper- FRIDAY The increase in school enroll- ation of all persons involved will

44-River duck

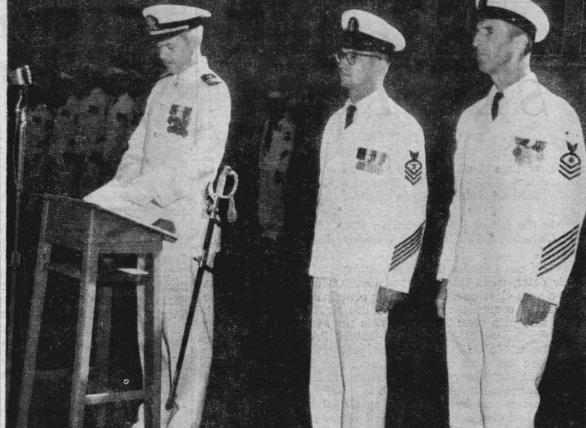
49-Lamprey 50-Nothing 53-A continent (abbr.)

45-Oven for

drying

For Use in Authorized Service Newspapers Only.

46-Edge



RETIREMENT CEREMONY for Richard H. Smith, FTC, USN (center), was held at the plaza adjacent to Enlisted Personnel's Headquarters building on Monday. Cdr. L. B. Shultz, CO, NOTS Enlisted Personnel, reviews

Chief Smith's 21 years of service. At right is Donald M. Smith, QMCS, Chief Master at Arms. Another retirement ceremony was held yesterday for John J. Lewis, EMC, USN, who completed 20 years of naval service.

LaV McLean To Host Party

transportation of pupils will be tion's Technical Director, will The second phase of the confaced after the registration of again host the annual coffee and tract includes the rehabilitation kindergarten children and pupils swim party honoring Junior Professional and summer employees' wives to be held at the Officers Club pool Wednesday, Aug. 21, from 9:30 a.m. to noon.

Women of the community are cated at Murray School is also are reminded that registration invited to attend the function to become better acquainted with the wives or our JP's and sum-

Swim attire and low shoes

SHORT: "Reedin' the Kitty" (7 Min

- MATINEE -"ARROW IN THE DUST" (80 Min.)

- EVENING Frankie Avalon, Mariette Hartley

boss's nephew encounter hair-raising adventures in their trek to inner Africa where a ne wrailroad is to be built. Wild native (Adults and Young People)

SHORT: "Grin and Share It" (7 Min.) "Scheming Schemers" (16 Min.) SUN .- MON. 'LIST OF ADRIAN MESSENGER" (98 Min.)

SHORT: "AFSM No. 613A" (14 Min.) WED. AUG. 20-21
"CALL ME BWANA" (103 Min.) TUES -- WED. Bob Hope, Anita Ekberg, Edie Adams
7 p.m.

(Comedy) Phony author explorer reluctantly heads expedition into Africa to re-cover off-course government moon rocket

needle Bob's heroic (?) efforts. (dults and Young People)
SHORT: "Pied Piper of Guadaloupe" (7 Min.) RS.-FRI. AUG. 22-23
"TAMMY & THE DOCTOR" (89 Min.)

Sandra Dee, Peter Fonda 7 p.m. (Comedy Drama in Color) Now the cute aide and almost perils its smooth functions (Adults and Young People) SHORT: "Strangled Eggs" (7 Min.)
"Funny Four Legs" (10 Min.)



CHIEF SMITH returns the salute of his fellow chiefs as he prepares to go ashore following the impressive ceremonies.

Naval Academy Gets First Dean

Naval Academy.

first academic dean.

He will serve as temporary gram." academic dean at Annapolis on This will be Doctor Drought's one year's leave of absence from second stint at the Academy. In Marquette.

1943 he substituted for a mem-As dean of the Academy, ber of the engineering faculty. Drought will study the He served as a navy radar inacademy's organization, proce-structor in 1944-45. The doctor criminal intent on eliminating 11 persons dures and curriculum and recwho could foil his plan for a huge fortune.

Tony Curtis Burt Innector Kick Davides Tony Curtis, Burt Lancaster, Kirk Douglas, Robert Mitchum and Frank Sinatra all have necessary to establish the post oratory, Naval Air Experiment of academic dean on a perman-(Adults and Young People) M No. 613A" (14 Min.)

of academic dean on a perman-ent basis.

Station at Philadelphia during WWII

Secretary of the Navy Fred | Secretary Korth, in appointing Korth has appointed Marquette the new dean said: "This is a University educator Arthur B. significant event in the Naval Drought, Academic dean of the Academy's long and distinguished history, and it is one of a Doctor Drought will be the series of steps taken by the Nav-118-year-old Naval Academy's al Academy to strengthen and improve its educational pro-

- STAM	면서 선생님 전에 가는 사람들이 있다면 보면 가장 없는 사람들이 있다면 보다 있다면 하는 경기를 하고 있다면 다른데 없다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었
[1] 보통 [1] [1] 전 2 [2] [1] [2] [2] [2] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4	

237 Civilian Employees Honored For '1-63'



VOL. XVIII, NO. 32

NAVAL ORDNANCE TEST STATION, CHINA LAKE, CALIFORNIA

Friday, August 16, 1963 ing the presentation to the Pres-

Meritorious Service Lauded



CITED-Four of the seven civilian coordinators for "Project 1-63" receive their Meritorious Civilian Service Awards from Capt. Charles Blenman Jr., ComNOTS. Left to right are T. R. Bates, Supply Dept.; H. H. Wair, Test Dept.; W. H. Hampton,

Technical Presentations; R. A. Appleton, Test Dept.; Capt. F. F. Reck, Project Director; and Capt. Blenman. Not present for picture were W. N. Sorbo, Public Works; A. B. Christman, TID; and "J" "T" Bibby, Public Information Office.

Council Hears Soothing Report on FM Booster

Chances of getting an experimental FM booster for better reception in the China Lake Ridgecrest area seem a bit brighter following a report to the Community Council by President

William Hattabaugh at last Tuesday's mosting William Hattabaugh at last Tuesday's meeting.

Hattabaugh told of his con-

of the application.

3. Seck support of the AM stations in Ridgecrest.

FCC had received for an FM 1951-52 for a TV booster also The cutback of five hours of

Sonoma Navy League To Tour Station Wed.

Wednesday and Thursday. funds available for payment of out.

will be a reception at the Com- the store. missioned Officers' Mess (Open) Operating hours at the Com- the same high standards of serv- He and his wife, Dorothy, and on Wednesday evening from 6:30 missary on Monday, Tuesday, ice, merchandise and price as in their four children departed for

versations recently in Washing- was one of the first such re- to greater and more isolated ton with two officials of the Federal Communications Comthe TV booster/translator convision."

was one of the first such the displacement of the first such that the first such

United States since that time. had also spent some time in nautical engineering under a fellow 1. Gather data required in the "The implication I tried to Washington with Congressman sponsored by the Navy and Penn application for the FM booster draw from this comparison was Harlan Hagen who "expressed State. that someone — and why not an interest" and "pledged his Kelly, who has been here 2. Organize a community staff the China Lake-Ridgecrest com- support to assist in any way that since January of 1946, most recommittee to petition residents munity?—had to take the initi- might be needed in our dealings cently was employed as a conof Indian Wells Valley in sup- ative to present new methods of with the Federal Communica- sultant to the Aeromechanics Diport of a "public interest" phase extending FM listening pleasure tions Commission."

stations in Ridgecrest. 4. File the formal application 35-Hour Week at Commissary; "While it was pointed out that ours was the only request the To Close at 1 p.m. Wednesdays ity in ballistics and animal locomotion.

A reduction in sales hours to a maximum of 35 hours per of Wisconsin where he received booster, the FCC men did agree week goes into effect at the Commissary next week, Lt. Joseph his Bachelor of Arts degree in that the request by the Navy in LeBlanc, Officer-in-Charge of the Commissary Store, announced. physics, Kelly went on to get his

Thursday, and Friday remain the past," he adds.

sales time will be on Wednes- the same-from 10 a.m. to 6 Michigan State. days when the store will close p.m. Mondays and Fridays are During World War II he taught at 1 p.m. instead of 6 p.m. now the busiest days, and the at Stanford University and then Lt. LeBlanc emphasized that hours from 4:30 to 6 p.m. are came to China Lake. Approximately 20 members of the reduction in operating hours heavily patronized by after- Besides his work-a-day tasks, the Sonoma County Council of is not a local command decision, work shoppers. Patrons can help Kelly has been active in the Pony the Navy League of the United but a Navy-wide requirement by shopping during other than League here and also served on States will visit the Station next made necessary by a decrease in these peak hours, LeBlanc points the Employees Welfare Associa-

ident an unqualified success. Heading the list were seven employees who acted as Assistant Coordinators for various aspects of Project NOTS 1-63, as the operation was named, under Captain F. F. Reck, the Project Coordinator. They were presented with Meritorious Civilian Service Awards, the highest award which the Station Com-

Highest Award

Presented Asst.

In the wake of President Ken-

nedy's recent visit to NOTS,

Captain Charles Blenman, Jr.,

Station Commander, this week gave special recognition to 237

civilian employees for their out-

standing contributions to mak-

Coordinators

The recipients are: Robert A. Appleton, Test Department.

mander is authorized to grant.

Ted R. Bates, Supply Depart-"J" "T" Bibby, Public Information Officer.

Albert B. Christman, Technical Information Department. William H. Hampton, Technical Presentations Coordinator. William N. Sorbo, Public Works Department.

Henry H. Wair, Test Depart-

In addition, 44 employees who had made major contributions to the Project received Certificates of Group Achievement for their services, and 186 other employees received Letters of Commendation signed by Capt. Blen-

In connection with the presentation, Capt. Blenman pointed out that, while these persons had made contributions which were identifiable as superior, the overall success of the operation was the result of the combined efforts of the Station forces as a whole and that all hands can well take pride in a job well

Letters recognizing outstanding performance of duty and contributions by military personnel and/or activities were previously issued.

To Study for Doctorate

Howard Kelly, one of NOTS' veterans, left for Pennsylvania mission, and recommended that cept has spread through the Hattabaugh reported that he State College this week to begin study toward his Ph.D. in aero-

Fall Semester

Education

Schedules On

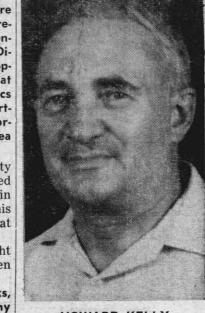
Pages 5, 6, 7, 8

vision of the Weapons Development Department. Prior to that he was in the former ballistics division of the Research Department. He is noted as an authority in ballistics and also in sea

A graduate of the University Master's degree in physics at

tion, the forerunner to the preseffort will be made to provide the Boy Scouts committee.

the east Wednesday.



HOWARD KELLY

In honor of these guests there salaries to civilian employees in "Please be assured that every ent Community Council, and on assumes more importance the Sleep is something that always morning after than it did the night before.

CHAPLAIN'S MESSAGE

Talks To **Teenagers**



By FR. JOSEPH A. COSTA, O.F.M. Cap.

MILLIONS HAVE HAD YOUR PROBLEMS BEFORE.

Do your parents treat you as a baby, deny you responsibility, act as though you can't take care of yourself? That's probably been a major complaint of teenagers since Cain and Abel. Do they put on too much pressure—expect more of you than is reasonably possible? Dozens of youngsters you know probably could make a similar complaint. Do you fear that you are not attractive to the opposite sex, worry that you will not achieve your full growth as a man or woman? Countless other teenagers have similar worries. Millions of yesterday's teenagers had them. Millions of tomorrow's teenagers will

There is another gripe of teenagers that is heard constantly. It is: "My parents don't understand that times have changed." Teenagers undoubtedly will say it too about you if you become a parent. There is some truth in the statement-Times do change; but basic problems do not. For example, a generation ago a girl who rode alone at night with a boy in a horse drawn buggy was thought to be taking a terrible risk. Times have changed; people now use cars. But the problem is still there. The girl who allows her boy friend to park his car in a secluded spot takes no less risk than the lass of 1910.

Run down the list of your other problems. You will find that they really have not changed much, if at all, from those your mother and dad faced at your age. You will find that they, too, had difficulties in adjusting to their own parents, in getting along with friends, in their school work. They probably were as uncertain about their futures as you are of yours.

The point of all this? Just that they have been through the mill. Now they are older and can look back, seeing how they could have done this or that better, and how they might have avoided this mistake or that. And if they knew then what they know now, they would have made fewer mistakes and errors and would have achieved a much greater success with

If you want to become an adult the easy way, therefore, take advantage of their experience. By following their advice, you will often be able to avoid pitfalls they perhaps fell into. If you use their experience to help you, you will reach adulthood much sooner, much more confidently and much more successfully than if you insist upon making the same mistakes that they did.

I do not wish to give the impression that parents are always right. They are not! But then, who is? They probably have their faults. Even now, they may not be able to see some problems clearly. They may have personality shortcomings or prejudices which prevent them from giving the best possible advice under all circumstances. But, I think you will agree that generally their batting average is pretty high.

You need not follow them blindly. If their advice proves wrong for some reason, you can adopt a mode of action which conforms more closely to your own experience. But if you reject their advice without really seeing whether it is good or not you will find more often than not, that you have been doing things the wrong way.

Missiles, Rockets Are Redesignated

and tested missiles, along with Letters used to denote status Mack had duty as officer-inMack had duty as officer-inCommemorative all military rockets and guided are J, special test temporary; N, charge of the Naval Academy missiles with a combat-related special test permanent; X, expressive and 7 Preparatory School at Bain-Medallions Go On mission have been redesignated perimental; Y, prototype, and Z, bridge, Maryland, as commandunder provisions of a Depart- planning. ment of Defense regulation.

TAR missile, for example, is H, silo stored; L, silo launched; to the Bureau of Naval Personvisit to NOTS will go on sale satellite tracking station will be 24A. This means it is launched and U, underwater. from a ship (R), has an aerial in- Mission is indicated by D, detercept mission (I), is a guided coy; E, special electronic; G, surmissile (M), is the 24th model of face attach; I, intercept-aerial; a basic design (24) and is the Q, drone; T, training; U, underfirst major modification model water attack, and W, weather.

popular names of the missiles rocket.

NOTS-researched, developed and rockets will not be changed.

The Navy Operational TAR- are A, air; B, multiple; C, coffin;

Vehicle type letters are: M, Under the DOD regulation, guided missile; N, probe, and R,

The Rocketeer

Official Weekly Publication U. S. Naval Ordnance Test Station China Lake, California

Captain Charles Blenman, Jr., USN "J." "T." Bibby Jack G. Broward

Richard Grueneberg **Budd Gott**

Chuck Mangold Special Services Athletic Director

The Rocketeer receives Armed Forces Pres. Service material. All are official U. S. Navy photos unless otherwise Identified. Printed weekly with appropriated funds in compliance with NavExos P-35, Revised July 1950. Office - 50 King St., Bldg. 00929. Phones - 71354, 71655, 72082.



Morning Service-11 a.m.

rotestants (All Faith Chapel) Morning Worship—8:30 c.:d 11 a.m. Sunday School—9:30 a.m., Groves and Richmond elementary schools.

Roman Catholic (All Faith Chapel) Holy Mass-7, 9:30 a.m. and 12:30, 5:30 6 a.m. Monday through Friday, 8:30 a.m.

Confessions-8 to 8:25 a.m., 7 to 8:30 p.m. 4 to 5:30 p.m.

NOTS Hebrew Services (East Wing All Faith

Every first and third Friday, 8:15 p.m. Sabbath School every Saturday morning.

OPPORTUNITIES PROMOTIONAL

plications should be accompanied by an up-to-date Form 58. The fact that positions are advertised here does not preclude the use

Staff Nurse (Medicine and Surgery), GS-5 r 6, Code 88 — General and specialized ursing care in the hospital and out-patient

Apply for above position with Mary Morrison, Bldg. 34, Room 34, Ext. 72032.

Capt. Wm. Mack To Be Chief of Information

Capt. William P. Mack, recently selected for Rear Admiral, will relieve Rear Admiral John S. McCain, Jr., USN, as Chief of Information, Department of the Navy, on August 22 it was announced by Secretary of the Navy Fred Korth.

Adm. McCain, who has served as Information Chief since August of last year, will assume new duties as Commander, Amphibious Force, U. S. Atlantic Fleet, and will serve in that post as a vice admiral.

Capt. Mack, a former aide to Secretary of the Navy, is now on duty in the Joint Staff Office of the Joint Chiefs of Staff.

After graduation from the Naval Academy with the Class of 1937, he served in junior officer assignments aboard the battleship USS Idaho and on the staff of Commander, Battleship Division Three. He was gunnery officer of the destroyer USS John D. Ford at the outbreak of World War II and participated in engagements against Japanese naval forces in the Battle of Makassar Straits and the Battle of the Java Sea.

Capt. Mack also served as aide and flag lieutenant to Commander, Amphibious Force, U. S. Pacific Fleet, as executive officer of the destroyer USS Preston and as commanding officer of the destroyer USS Woodworth.

Launch environment symbols are A, air: B, multiple: C, coffin:

Anderson, and as a staff officer

Medallions commend nel as commander detail officer. this weekend.

er Division 22, and in the office day, 2 to 5 p.m. of the Chief of Naval OperaThe coins, sponsored by the Department's NACODE project. tions. In April 1959, he was namNavy League of the Indian Wells Accompanying Marquardt to the Navy Thomas Gates and continued to serve in that capacity

Franke and John B. Connally. In 1961 he became Command-Joint Staff.

His selection to the rank of rear admiral was approved by the President on May 30, 1963.

He's Fuming

Don't Snooze Where They Make Booze! That could be the moral of this story.

rel for a nap and passed out Lake!") But, down in Florida in the death of Public Works' emfrom the fumes. He was found Everglades National Park is a ployee Edward E. Silva. an hour later by a fellow worker, warning sign that's startled Assessments should be mailed revived and taken to the hos- many a motorist — "Alligator to the secretary-treasurer Joseph

'DESERT PHILOSOPHER'

Obsidian On The Station

By "POP" LOFINCK

Dear Rockhounds:

Here is something easy. Beautiful lustrous black obsidian. Mostly silica-volcanic glass. But much harder than commercial glass-it will cut glass.

It's already polished—so you save that labor. It has a hardness of "seven" so it doesn't get all scratched up and lose its

It has a conchoidal fracture—that means curved, shell

So you just find a piece the right size and curvature for your pendant or ring setting-grind the edges off in the lapidary shop, to fit your setting. And there you've got a cabochon, You've got it made

JUST KEEP ON LOOKING

To find a piece the right size and curvature—just keep on looking

Where? One good place is Sugar Loaf Mountain—Glass Mountain - Obsidian Mountain - all the same mountain with three different names.

Where? Go a mile north of Little Lake. Turn east on a road just this side of the cinder pit (Red Hill on the map), go about five miles northeast-that's the place. That hill is solid obsidian, except for the sand that has blown in on the surface. So there is plenty of it.

LET THIS BE A WARNING

Better walk up the narrow road up the hill and lug your loot down to your car. Good exercise.

If you drive up the hill and can't turn around and must back down-don't blame me-I warned you.

On the way you will pass a sign that reads Station Boundary-but you are safe if you don't go beyond the point where the road is blown up. Or you can go up a little adjacent canyon to the south-up

where the canyon is obstructed by boulders. Much of the obsidian in this area contains cristobalite bubbles. That is a collectors' item-but not so good for making

cabochon pendants. Obsidian is abundant in the western United States but does not occur in the east. So that is something. It will only be found where volcanic activity has taken place in relatively recent times-and where it has cooled too quickly to form crys-

tals. Parenthetically, someday you might get an escort to take you in through the gate toward Coso Hot Springs and around the hill above the upper end of this narrow road you were on. INDIAN LAND FOR THOUSANDS OF YEARS The Indians quarried obsidian in this area for thousands of years, for making arrowheads, knives, scrapers, etc. Interesting! That trip requires an escort to keep you from getting messed up with duds-or to keep you from getting a foot badly

burned at Coso Hot Springs where the ground caves in. Now-back to where we were at the lower end of the nar-

On the way out to Highway 6, a road goes off to the south near the pavement. It leads to Fossil Falls-an ancient waterfall-drive as far as you can, then hike down to the waterfall.

That's about a day . . . and a mighty interesting one. No column next week-I'll be away on a special project.

afloat. In June 1953, he reported President Kennedy's June 7th A fully operational NACODE

with a limit of five to a custo-

Concurrently, distribution will GEBA Assessment be made to all the eligible NOTS personnel who did not receive No. 74 Is Now Due a medallion from the first order.

NOTS to Operate **NACODE Station** At WESCON Show

set up by NOTS engineers at There followed tours of duty On-Station residents may purt the WESCON show, Aug. 20 as a student at the National War chase coins at the Maturango through 23, at the Cow Palace in College, as Commander, DestroyMuseum, either Saturday or SunSan Francisco, according to Le-Roy Marguardt, Head of the Test

ed naval aide to Secretary of Valley, will be sold at the Jolly the Western Electronic Show and Convention will be Ralph The price of the coins is \$1 Smith of the Test Dept., and under Secretaries William B. each. Coins will be held for James Harrison, Sol Chavez and those who have reserved them. Pat Murphy, students from New After reservations have been ac- Mexico State University who er, Destroyer Squadron 28. A counted for, medallions will be have been working on the projsold to anyone desiring them, ect here, and Ray Sinnott of TID.

Members of the Government Employees Benefit Association Most drivers are used to see- and the China Lake Mutual Aid ing deer and cattle crossing Society are reminded that as-A winery apprentice in France signs. (There's even a "Buffalo sessment No. 74 in the amount climbed into an empty wine bar- Crossing" sign here at China of \$1.20 is now due following

pital with a king-sized hangover. Crossing" . . . -Family Safety M. Becker, 77-B Renshaw.

RIM SHOTS

By BILL VALENTEEN

Friday, August 16, 1963



Everytime football season rolls around, I'm reminded of an incident that was pretty disastrous at the time, but was really quite amusing when you consider the background of the

In the fall of 1955, during an SC-UCLA midtown clash at the Coliseum, SC's Theta Chi fraternity house burned to the

You can imagine the disappointment of the brothers and their dates, when they returned to the house, after the team lost a very close one, to find their plans had gone up into the smoke. Of course, the Betas, who live right across the street, were wild with glee; this didn't help the situation either.

BURN-THE-HOUSE-DOWN' PARTY The whole thing worked out pretty well, though. After the shock had worn off, pledges were sent thither and yon to buy wienies and beer and the unfortunate incident was turned into a burn-the-house-down party.

It seems that by the time they all got back to the house, the fire had died down to the point where the coals were just about right for roasting.

Anyhow, while all were giggling and holding hands, etc., somebody asked, "What happened?" After some pretty wild speculative thoughts passed through the crowd, the fire company showed up with the responsible person furiously waving and clutching one of the ladders on the No. 1 engine. Terribly worried and out of breath, he volunteered the information.

FIREMAN, SAVE MY FRAT! It seems that this person was left in charge of the final preparations for the big blast they were going to have after the ball game. While he was in the kitchen, the radio caught fire somehow in the lounge. The first thing he did, of course, was try to call the fire department. But to his chagrin, and everybody's detriment, the only phone on the premises was a pay phone and this person only had a half a dollar. Finally, he ran the three blocks to the fire alarm box, which, incidentally, took a few minutes because he didn't know where it was, and summoned the fire department.

There has been a new house built since, and everything is actually even better than it was before. Needless to say, however, this person did one heck of a lot of pushups before the whole incident finally cooled down.

By the time this season reaches another of those monumental conflicts between the two LA giants, a lot more heat is going to be generated in the Southern California campus.

TOUGH SCHEDULE FOR TROJANS Before the Trojans take on UCLA again, they are going to have to take on one of the toughest schedules in their long gridiron history. Their first five games - Colorado, Notre Dame, Ohio State, Michigan State and Oklahoma - will force them to have to prove early in the season that they do have one of the finest football teams in the country, and that they can again repeat as the National Collegiate champions.

important conflict of the year. UCLA doesn't have as tough a schedule as USC, but the Bruins don't have to face the Trojans until the very last of the season, and by then, even the junior varsity will have had enough seasoning and preparation to topple the most formidable opponent. There should be a real "race for the roses"

The coming SC-UCLA clash is shaping up to be the most

In any case, the coming collegiate football season should be decidedly exciting especially in Los Angeles. Let's hope, however, when the Bruins do meet the Trojans on that cool November day in the Coliseum, that the only thing that goes up in smoke will be the gin-soaked breath of the spectators.

Keep smilin', Sport! See you next week!

Bill Mazeroski, hero of the 1960 World Series, has been moved into the clean-up spot in the Pittsburgh Pirates line-up. "Maz" thinks it's easier than hitting in his usual number eight spot in the order. "With the pitcher coming up next," says Mazeroski, "the opposing pitchers really bear down on the number 8 man"

American League umpire Al Salerno used to be a State Policeman but he has nothing against speeding up ball games. Salerno thinks slow pitchers contribute to injuries. "When a guy is taking his time pitching, the infields as well as the batters find it tough to stay on their toes," says Salerno. "Then bang, the pitch or the ball is right on top of you!" Salerno would rather umpire behind the plate in the second game of doubleheaders because the "ball-strike" assignment keeps you alert. Working both games on the bases in the hot sun can get a little tedious according to Salerno . . .

Commissioner Ford C. Frick was the annual keynote speaker at the Hall of Fame Ceremonies in Cooperstown. It was Frick, while president of the National League in 1935, who suggested the establishment of the National Baseball Hall of Fame and Museum. Sam Rice, one of the players admitted to the Hall of Fame this year, remarked it was good to get the roses while he could still smell them . . .

Frank Frisch, a Hall of Famer, hit a home run in the first All-Star game player in 1933. Frisch didn't get too many headlines though. Babe Ruth also hit a round-tripper in the game at Chicago. Frisch had just nine Major League home runs in his career . . .

Merchants Team Runs Off With Softball Title Again

The Station intramural softball season ended last week with the Ridgecrest Merchants winning the championship.

The Merchants team had another undefeated season, winning 28 games.

Trophies will be awarded to the following players: Dennis Crager, Bob Forster, Bill McCulley, Max Smith, Bob Kickman, Buddy Deffes, Kaven Fowler, Earle Roby, Bob Crawford, Tom Short, Bert Andreason, Bill Marten, Ray Blackwell and Win

The Merchants team has entered the Barstow City Tournament to be played the first week in

The Military section of the league was won by NAF whose team finished in second place. Team members who will be presented trophies are: Mike Miner, Frank Lueder, Willie Clement, Tommy Tomlinson, Tex Stewart, Art Greninger, Jim Martin, Larry Lister, Oren Summer, Roger Litchfield, Mel Attaway, Dan Kirkendall, Joe Simmons, Joe Blunt, and Chuck Landsberg.

Bluejacket To See 49er-Cowboy Game

the "Bluejacket of the Month" shoes will be available. New 3. In horse racing, the infield treasure chest in Bakersfield house bowling balls will be put is where (A) the spectators stand, when this month's outstanding in play. enlisted man goes to that city for The lanes, approaches and pin steeplechase hurdles are located.

his guest weekend. Chamber of Commerce officials said China Lake's Navy man would be honored as a special guest at the San Francisco 49er-Dallas Cowboy football game Aug. 30, starting at 8:30 p.m.

Noting that China Lake had tension 71791 or 72017. been allotted 100 special seat tickets for sale locally, Charles July Was Cool! the tinal exhipition of bred racing, (B) Henry T. Adios, 'confact page 100'. So Mac Lad, trotting. (C) So Mac Lad, trotting. the final exhibition of profes-

The game is to be played as Minimum, 64.6 a Child Guidance Clinic benefit, July temperatures at China stotetoeds out of the child state of the child s he said, adding that China Lake Lake were well below normal, is a participating member of that the Atmospheric Study Branch welfare agency.

Tickets to the game, to be ion reports. munity Center. Good seats are were 100.7 and 64.6. Both the still available, including some on mean and the average minimum the 50-yard line.

Armed Forces Mixed Couples Bowling

in joining the Armed Forces degrees above normal and again Mixed Couples Tuesday Night set a new record. Bowling League are asked to contact John Rogers, phone 8328 16 per cent, also a record low or 76591, or Terry Manis, 72265

Ice Follies Discount Tickets Available

Discount tickets are now available for the Shipstads & Johnson Ice Follies to be held at the Los July were south-southwest, 9 Officer and Legal Officer at Angeles Sports Arena from September 5 thru 16.

the Community Center each day west, 40 mph. The record is Fernando Valley with his wife, from 8 a.m. to 5 p.m.



ROME'S LOSS, HOLLYWOOD'S GAIN-Pity the poor Roman photographers who let Georgia Moll get away from them. Ah, but that's Hollywood's lure for you. The Italian-born beauty is Armed Forces Press Service's Calendar Girl . . .

Winter Bowling Leagues Forming

of the Post Office building. Montreal Alouettes? Another prize was added to be used. New rental bowling not played on grass. Which one?

10 cents a pair. There is no (C) Su Mac Lad?

of Instrument Operations Divis-

played under the lights at the The mean temperature for the Bakersfield College Memorial month was 82.7 degrees, and the Stadium, are on sale at the Com- average maximum and minimum are new low records. Norms are and 71.1 (minimum).

Low relative humidity and generally clear skies permitted strong radiational cooling at night, so that the average tem-Military personnel interested perature range of 36 was five Relative humidity averaged

and well below the normal 23 per cent. There was no precipi-

August is usually only slightly cooler than July, with a mean temperature of 84, an average maximum of 100 and average minimum of 68.

The prevailing wind direction and average speed during as Maintenance Officer, Safety miles per hour (normal is southwest at 10 wph).

Tickets may be picked up at The peak gust was west-southnorthwest, 66 mph.

SPORTS QUIZ

Winter leagues are now being 1. With what sports do you asformed for bowling at Bowling sociate: (A) The Budweisers, (B) Alley No. 1 on the south side Peter Collins-Phil Hill, (C) The

The alleys will be open the 2. The British, French, Austrafirst week in September. New lian and U. S. titles are the Big Brunswick Scoreking pins will Four in Tennis. One of them is (B) the horses parade, (C) the

decks are being completely re- 4. What form of horseracing surfaced. The price of bowling is do these champions participate: 25 cents a line. Shoes rent for (A) Kelson, (B) Henry T. Adios,

charge for the use of house bowl- 5. In his pro career former heavyweight champ Gene Tun-For further information, call ney fought one man five times. the Special Services Office, Ex- He won twice, lost once and twice there was no decision. Who

was his opponent?

(Answers to Quiz) 5. Harry Greb. 4. Kelso, handicap thorough

is played on clay surface. racing, (C) Canadian football.



LCDR. WALTER P. JOHN-SON retired on Aug. 1 after 20 years of active service. Since March, 1960, he served NAF. After a vacation in the East he will reside in San Bennie, and children, Philip, 11, and Pamela, 8.

NOTS Pasadena News

THE ROCKETEER

ies to which the flag is entitled, servances in regard to its use. or do you scurry for cover at its unfurling to avoid the incon-veniences of being detained?

During the ceremony of hoist-ing or lowering the flag, or when veniences of being detained?

company the raising of the flag with music or a bugle call. tion, this has been considered hand over the heart. inappropriate. However, it is felt Reserve a corner of your memthat personnel might be remind- ory for: ed of the privilege of showing a "I pledge allengiance to the

to insure a proper respect for berty and justice for all."

Do you respect your Stars and the Stars and Stripes. Custom Stripes and render the courtes- has decreed certain other ob-

The flag is displayed at NOTS the flag is passing in a parade or Pasadena from 8 a.m. to sunset. in a review, those present not A suggestion was made to ac- in uniform should remove their headdress with the right hand and hold it at the left shoulder, Since this is a laboratory with the hand being over the heart; substantially a civilian popula- women should place the right

great respect to the National flag of the United States of America, and to the Republic Laws have been written to for which it stands, one Nation, govern the use of the flag and under God, indivisible, with li-

Rewarded



SUSTAINED SUPERIOR PERFORMANCE in their respective fields of endeavor earned certificates and monetary awards for three Systems Development personnel. Don Cozen, Division Head (I), makes the presentation to (I-r) Paul F. Reichert, Mechanical Engineer and Head of the Engineering Branch; Donald D. Ayers, Electronic Engineer in the Engineering Branch; and Jesse M. Rowe, Head, Airborne ASW Branch. -Photo by Rick Teunis (SA)

Former NOTS Officer



CAPT. D. C. CAMPBELL

A second generation "Califor-

nia Native Son," Capt. Campbell anical engineering major) in 1941, he was commissioned in the Navy.

Washington, D. C., with the Armed Forces Special Weapons Pro-

Capt. Campbell and his wife, the former Janet R. Partch of Pasadena, and their four chil-

Ships To Host Visiting The following ships will host | Cowell (DD 547).

17-18 Aug. — Destroyer USS peka.

ing session.

Respect Your Flag CENTREX Comes to NOTS



FROM THE BEGINNING—(from left), Lynne Jordan, Head of the Communications Branch, "listens in" to the very first telephone model. A little more realistic instrument that some of us may admit remembering is put to work by Edie Merriss, Assistant Communications gal. Hilda Walbert, Assistant Telephone Su-

be a "first." No other Naval es- the new system.

If you have suffered inconventer.

quipment were delivered last from their customers.

ence in your telephone service, Outgrown Present System

pervisor, chats on a once modern version. The antique models were supplied by Harry Rich, Pacific Telephone Co. Service Engineer for NOTS, displaying the most recent instrument which is the type serviced by the modern CENTREX switchboard.

-Photo by Art Block

The dream of CENTREX is been long suffering with an ments have far outgrown the nearing reality at NOTS Pasa- overloaded switchboard and an manual PBX system currently dena. The first truck loads of occasional "unfriendly growl" servicing the Station. The present system requires the service Friday in preparation for early We will keep you posted as of an operator for each call-inthe system progresses and we coming, outgoing, and inter-ofurge you all to attend the ses- fice, thereby causing countless Installation of CENTREX will sions and become familiar with delays and valuable time lost, particularly during rush hours. ablishment in the United States | Without proper instruction in The risk of emergency communiboasts its own such system. its operation, CENTREX can be cations being delayed is ever The target date for complete dubbed "complex." An hour of present. nstallation of the new system is your time in advance can save

Proposed System

you many befuddling hours la-CENTREX service will solve our telephone ills. CENTREX is the most modern, mechanized, pity the poor operators who have The ever-increasing require-complete communications serv-

> It provides the fastest, most efficient communications ever offered. In addition to regular features of dial PBX service CENTREX provides: Direct Inward Dialing - In-

oming calls, local or long distance, can be dialed directly to an individual station user, thereby bypassing the switchboard at-Direct Outward Dialing-Out-

going calls, local and long distance, are dialed directly by telephone users. Intercommunication — A11

elephones can dial any other telephone within the CENTREX Individual Station Billing—All long distance calls will be item-

cost of the call. Call Transfer — All incoming calls, local and long distance, may be transferred from one

equipment and answered by an

appropriate recording. conducted in the Bldg. 7 large conference room, will include a pairman; Hourly Salary Range: Tie Lines Retained Present manual tie lines to

Rhymes of the Tim.



During 3-Month Period Three hundred and nineteen Sustained Superior Performance Awards and 45 Superior Achievement Awards amounting to \$65,325 were received by Station employees under the In-

Under Incentive Program

centive Award Program for the period of April 1 through June 30.

ients of \$300 awards. They were tin, Andrew Moody, Archie Madelyn Hartnett, Elva Higbie, H. G. Wilson and William Hampton of the Commander's Office, \$300 - Ivar Highberg. \$250 ton. and Carl Schaniel of Weapons each - Philip Ankeney, William

Friday, August 16, 1963

James Oestreich of AOD, Frank \$200 each - John Ammon, \$250 each - Robert Allen,

Propulsion was third with 38. Farland, and Ernest Stevens.

employees for the second quarter are listed by departments as

SUSTAINED SUPERIOR PERFORMANCE AWARDS Office of the Commander

\$300 each — H. G. Wilson and W. H. Hampton, \$200 - Nona Turner. \$150 each — Betty Armstrong, Dovie Hampton, and Joan Raber.

Weapons Planning \$300 — Carl L. Schaniel. Central Staff

\$300 — Gordon Draper \$250 - Francis Fletcher. \$200 each ← Judith Gray, Barbara Johnson, Evelyn Peck, Jean Read, Mary F. Smith, and Joan Thorpe. Naval Air Facility

\$250 each - Narry Myers and James Heflin. \$200 - Donald Hart. \$150 each — Edith Haley, James Freund, Arthur Hinkley, Jack Kirkpatrick, Jack Leslie Jr., and Neal Wilson.

Supply Dept.

\$250 — Keith Thompson. \$200 each - Vernon Hayes, Dominick Reale, and Bill Mitchell. \$150 each — Buelah Glidewell, Thom-Spencer, Woodrow Bertine, and

Cristina Ceccia, William Gilmar- bell, live at 224 Cisco St.

Gordon Draper of Central Staff, Plante, and Dominic Rusciolelli. Barbara Miller, Saundra Wyndra, Test Dept. Aviation Ordnance

Balmer, Amy Griffin, Richard \$300 each — David Livingston Also, David Livington and Murphy and Walter K. Smith. and Edwin Park.

nance was second with 42, and Albert Guerrero, Walter Mac- George Wright.

Awards authorized for NOTS \$100 each — Barbara Elliott,



RE-ENLISTS FOR SIX-John M. Manalon, Ships Serviceman, Third Class, assigned to the Commissary, will have 16 years in when he completes this tour. Manalon reported as Healy, Mary Seaman, Jeanne to NOTS last December from the USS Lenawee (APA 195). He and his wife, Adoracion, \$100 each — Deanna Bingham, and daughters, Janice and Jo-

Graduate Study Awardee



JOSEPH J. BOYAJIAN

Joseph J. Boyajian is one of this fall to study for an M.S. de- Scherer.

B.S. degree in electrical engi- Walker, Harold Angle. neering, Boyajian came to NOTS in February of 1960.

selected for the program," the Guire, David Newman, Peter AOD electronics engineer com- Nicol, Raymond Reed, Vincent mented. "I'd never been able to Taylor. further my education without a \$200 each — Leonard Barkegreat deal of sacrifice. This is meyer, Carlos Beagle, Kenneth really an opportunity."

They have two girls, Dianne, 3, knecht, Arthur Pahkama. and Suzanne, 16-months. Both \$150 each — Mildred Anders, He and his wife, Catherine and sey.

Bronson Eukel, and John Monck-

Knemeyer of Weapons Planning, John Anderson, Robert Brown, Lynn Barker, John Brawn, Rob-Bob Blaise of Propulsion Devel- Melton Capps, Gordon Doyel, ert Clapp, Art Clayton, Henry liam McBride of Research, and Johnson, Mel Miller, Robert Sted- rester, "B. A." Fouse, Robin Full-Ivar Highberg of the Test De- man, William J. Stronge Jr., er, Everett Hill, William McCul-Frank Massaro, and Lowman ley, Charles Newmyer, James Oestreich, James Richardson,

> Leo Gibbons, Samuel Haun, Ron made the presentations. Ben Mahoney, and Leonard Ter- Ordnance Dept.

Weapons Development -James Lee.

Propulsion Development \$300-Bob Blaise. \$250 each Sheryl, lives at 220 Toro. -Cecil Abernathy, Jack Palu- Root joined the program here of the area during the 1963-64 lak, George Rice, Hubert Ross after completing some graduate season Jr. \$200 each - Billy Bessee, work in psychology at Fresno As in the past, the 10 films of Theodore Herling, Charles Hire, State. He had earned his BA in the program will be shown in the Herbert Jones, Lawrence Mas-Psychology there in June, 1961. Community Center, on the secchhoff, Frederick Santangelo.

trude Hamilton, Lily Koch, Shir- as a yeoman, second class. He June. ley Sima, Berton Andreason, Pleasant Aulds, Alfred Celestine, John Christy, Chesley Clark, James Curran, Guy Graham, Keene Jr., Ira Mahoney, Edgar McDuff, John Morosin, Frank Lt. Thomas J. Proteau has re-Ptacnik Jr., Robert Rasmussen, ported aboard as Assistant Den- ed foreign language and drama Eugene Richison, J. C. Thayer, tal Officer at the Station Hospit-Cecil Thompson, Jack Warren, al. Prior to reporting here Lt.

sie McDaniel, Jeannette Craw- (CVS 12) for two years. ford, Lois Pinkerton.

Research Department

\$300 each—Thomas Lang and William McBride. \$250 each — (This is the fifth in a series partment employees who have Walter Caffery, Gordon Greene, William Steele, Harold Turner.

> \$150 each—Edith Fallis, Reta A graduate of the US Naval Roquemore, Duane Pearl, Ter-Academy, Class of '57, with a ance Roan. \$100 each - Verla

Engineering Dept. \$250 each—James Bowen, Edward Chapin, Jules Deffes, Glen "I feel fortunate that I was Hollar, Alfred King, Charles Mc-

Cattcott, Floyd Furnish, Vernon Though born in Los Angeles, Gallaher, Donald Johnson, Thom-Boyajian lived at Los Gatos most as Jones, William Kelly, Leonof his life until he received his ard LaRosa, Jr., Milton Ritchie, congressional appointment to Albert Sievert, Erwin Stiefel, Cecil Chamberlain, Eugene Gib-It was at Los Gatos Union High son, Lawrence Hahn, Clinton

(Continued on Page 4) Station.



MANAGEMENT INTERN PROGRAM certificates of completion are presented by Capt. Blenman to James Fare and

opment, Thomas Lang and WilJack Godett, Zeva Goken, Lyle DeMoss, Joe Dorgan, Robert For Relton Capps, Gordon Doyel, ert Clayton, Henry DeMoss, Joe Dorgan, Robert For-Management Intern Study

James Fare and Robert Root, both of the Employee Developpartments with 49 employees re\$150 each — Grace Whaley, Eugene Robertson, Richard Seement and Research Division of the Personnel Dept., were preceiving awards, Aviation Ord- Walter Becktel, William Cowan, ley, Ivan Wertenberger, and sented their certificates of completion in the Management Intern Program here this week.

\$200 each - Stephen Barber, Capt. Blenman, ComNOTS, and his wife, Joanne, and their

Saksa, George Thompson, Flor- as management analyst with Cen- Stephen, 11; Phillip, 9; Connie, ence Vann, Nils Wagenhals, tral Staff. Root is an administra- 8; Terry, 7; Pat, 5; Christine, 2; Claude Wilson, Charles Cook Jr., tive assistant in the Aviation Jay, 1; and Craig, 7 months.

Both men entered the Man-\$150 each — Louise Baird, Lil. agement Intern Program last Film Society lian Fletcher, Geraldine Miller, January. Fare had just been dis-Doris Quick, Jean Rollingson, charged as a lieutenant in the Picks Movies Al Benton, Willie Guise, and Marine Corps at Camp Pendle-

Dental Officer Lawrence Hartley, Charles Reports Aboard Keene Jr., Ira Mahoney, Edgar

Proteau served as Ass't Dental

He is a graduate of Washington State College and the Unicerning the films may be obtain-



LT. THOMAS J. PROTEAU

grees.

girls were born in Ridgecrest. Margaret Craig, Daniel Branson, their two children, Claire, 4 and Play will start at 7:30 p.m.

eight children reside at 43-B Hise, Marvin Jeffris, Stephen | Fare has accepted a position Hayward. The youngsters are

ton. He is a 1959 graduate of the University of Washington For New Season

\$300—Frank Knemeyer. \$200 with a BA degree in Sociology. The newly-elected officers of Fare and his wife, Carmen, the China Lake Film Society met and their 14-month-old daughter, recently to select outstanding films for viewing by residents

Root was in the Navy from ond Monday and Tuesday of \$150 each-Mabel Eden, Ger- 1951 to 1955 and was discharged every month, September through

Full program prices of \$5.00 for civilian and \$.50 for military personnel, with half-program prices of \$3.00 and \$2.00 for civilian and military personnel, respectively, remain unchanged for the current program, Selectstudents will be offere dcomplimentary tickets for each movie \$100 each—Margie Cowley, El- Officer aboard the USS Hornet nel can purchase single admisin the program. Military person-

sion tickets at the door for \$.35; Tickets and information con-

Bob Biller - Code 654, Ron Dettling - Code 4538, Tom Garcia - Code 4505, Clara Erick-Bob Young - Code 4034, Roy Metcalfe - Code 123, Sandy Schmick - Code 1761, Dwight Holford - Code 1132, Jack Webb - Code 656, Bill Blinkhorn - Code 655, Weyne Mel-- Code 121, and Charles Nardone, -

Season tickets may also be purchased at the door.

The program will consist of mese films: Sept. 9-10, 1963 IKIRU (Japan)
Oct. 14-15, 1963 The World of Apu (India)

Nov. 12, 1963 Antigone (Greece) Dec. 9-10, 1963 The Happiest Days of Your Day of the Painter

Jan. 13-14, 1964 Forbidden Gomes (France

June 8-9, 1964 Shoot the Piano Player

Apr. 13-14, 1964 The Devil Strikes at Night May 11-12, 1964 School for Scoundrels

Navy Wives Club To Hold Bridge Meet

Wives of enlisted personnel are invited to attend an evening School that he met Sharon Low- Hill, John Hinds, Jack Hocker, versity of Washington where he of bridge, pinochle, and gin ry whom he married in 1958. Colburn Ingle, Albert Klein- earned his B.S. and D.D.S. de- rummy by the Navy Wives Club on Monday, Aug. 19, at 88 Hal-

The family resides at 101-B James Egbert, John Harn, Nor- Thomas, 1 are now living on the with an instructor present to help bridge beginners.

Commands USNRDL

Capt. Donald C. Campbell, who | Naval Radiological Defense Labwas engaged in rocket fuze re- oratory, San Francisco. He research at NOTS Pasadena in places Capt. E. B. Roth, who re-1945, is the new Commanding tired after 24 years of commis-Officer and Director of the U.S. sioned service

served at USNRDL previously SPANKING NEW SWITCHBOARD will feature the latest from 1955-1959, and for the past thing in key pulse dialing. Installation is progressing rapidly. four years has been at the Bureau of Ships as Director of the CENTREX Training Laboratory Management Divi- Sessions To Be Held

From 1947-1952 he was in

dren reside in San Mateo, Calif.

long distance calls.

general visiting in the Long 24-25 Aug. — None. Beach area during the month of 31 Aug. - 2 Sept. — Guided phones. All hands are encour-

Lynne Jordan, Head of the Communications Branch, has an-

operations.

nounced that CENTREX training was born in Pasadena. Upon his graduation from the California nel will be held beginning approximately one week before the 104. An up-to-date SF-58 must connected or non-working stacompletion of CENTREX instal- be submitted when applying for tion lines are intercepted by the openings.

To apply for vacancies, con- board attendant.

PROMOTIONAL **OPPORTUNITIES**

The sessions, which will be Test Range Equipment Re-

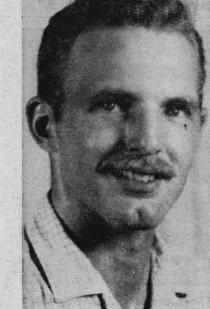
movie explaining the CENTREX \$3.14 to \$3.40; Code P8083 - SCI, China Lake, and Morris system and its operations, to- DUTY STATION: Long Beach. Dam will be retained. gether with some actual demon-with frequent travel to San Clestrations on the operation of a mente Island and Pasadena. Retransfer of calls and placing of pairs, maintains, adjusts, and modifies various types of mech-The success of the CENTREX anical, electronic and optical test IN THE conversion depends on all em- range tracking equipment. Inployees being familiar with the proper operation of their tele-Missile, Light Cruiser USS To- aged to attend a one-hour train- dolites for land and underwater

of biographical sketches of seven been selected by BuWeps for ad- Lee Humiston, Cass Roquemore, ized monthly by station number showing the city and telephone been selected by BuWeps for Boyajian will enter the Uni- \$200 each—Andrew J. Ballew, number called, date of call and one year of graduate training.) versity of California at Berkeley Oreste Lombardi, Margaret

without the aid of the switch-

telephone to another with or

three Aviation Ordnance De. gree in electronics.



NAF Pilot's Wife Tells Of Unusual Experiences As Airline Stewardess



"MORE COFFEE, SIR? . . . DEAR," Charlie Cossairt harks back to her days as an airline stewardess by treating hubby, Lt. Larry Cossairt, with "passenger-type" service in their China Lake home.

We're awfully glad you chose

Honestly — flying — is the

'Make Best Wives'

ecutives in the company.

cessfully!" she quips.

flown,

Farewell Poem

Married last June 1st at Treas-

I've really been delighted

Charlie Cossairt travelled a distance equal to 10 times around the world to get to China Lake. Now that she's here (yep, Charlie is a SHE), the ex-airline

stewardess - and recent bride of NAF Pilot Lt. Larry Cossairt dinner napkins, and read: - is packing her flying career into book form. would like to say,

Charlie (nickname for Charlene) says she'll title the book, to stay. "A Slight Delay." Airline pass- And, though it's been a long delay, engers may understand that.

"The biggest problem I'm faced with is trying to condense fastest way!" three and a half years into several hundred pages," she adds.

A self-styled poet and a journalism graduate from San Jose State College, Charlie presents her experiences in anecdote form, spliced liberally with poetry she composed during and between flights.

'Behind the Scenes'

on her book, she has covered the doesn't know any of her former ald Secor, Ann Stith, D. G. Watts, garet Wall. glamours of a stewardess' life, associate stewardesses who end- Andrew Asher, John Bacoch delays between flights, her train- ed marriage by divorce. ing for stewardess duties, celebrity passengers with whom she ded by airlines that hostesses man, Lynn Davis, Lowell Greene, lard, A. Brooks Poynter, Paul has flown and a "behind the have the disposition for getting Gerhard Hillebrand Jr., Alf Hoel, Reichert, Jesse Rowe.

boarded her plane at Chicago acquire helps a lot in keeping Maxwell, Albert McGilvery, C. Marjorie Glaze, Albert Knight, China Lake 77643, and arrangeone evening, announcing that hubby happy, too.

cided that the small luggage average stewardess prepares 7. Robert Willis, Russell Wise. William Hogan. \$100 — Beatrice assigned the collection task. rack above the seats was just 700 hot meals aloft over an 18- \$100 each - Mildred Amos, A'Hearn. right for the baby she'd been month period. carrying on the trip!

There was the time in Chicago checking with several of the ald Beach, William Brown, Pas- week's issue. that the entire Dodger baseball country's biggest airlines backteam chartered her plane for ed up the fact that ex-stewardits return trip to the West Coast. esses have one of the lowest di-

"I think they must've won vorce rates of any other women's their Chicago game if the jubil- professional group! ance was any measure of its out- "Now, all I have to do is learn how Navy wives manage so succome," she commented.

The Famous and Infamous Association with celebrity passengers was a "routine" occur-

ance on Charlie's plane. ure Island, Charlie presented "Most famous people — the her passengers, enroute to San successful ones — are just like Francisco from Chicago, a brief you and I. No pretenses or vani- poem on napkins which marked ties. It's the people still strug- the end of her stewardess cagling for success and recogni- reer: tion who are most difficult," she "To each of you I'd like to say,

philosophied. An hour delay before a sched- To have such lovely people on uled departure time had Char- my last trip for United. lie's passengers restless and For almost four years, many tense, until she passed out a miles, with passengers I've poem after the flight had been But now I'm being grounded -

As usual, it was scribbled on for a pilot of my own."



SCRAP DRIVE coordinators Archie Meyer, Mathias "Bud" Hugo, Ed Harris, Bill Hattabaugh and Cliff Wright (I-r) pose at the Ridgecrest swimming pool which will share proceeds of drive sponsored by Elks Lodge Cerebral Palsy Committe. Physically handicapped children also will benefit. The bottleand-scrap pickup is set for Aug. 24.

ncentive Awards

(Continued from Page 3) man Howarth, Aaron Kane, Theo Miller, Baldwin Nielson, Donn Reed, Hulcy Ridge, Harold Slagle, Earl Smith, Melvin Smith, David Tucker, Gordon Zurn.

"My sister-stewardess and I

Personnel Dept.

Public Works \$250 each — Gordon Hannon,

men, J. L. Sakraida. Letters from passengers on that flight praised Charlie's W. H. Higbie, J. A. Richards, for the Handicapped Children's garages and sheds that have accumulated so much material sense of humor and personal in-Harry Simpson, F. W. Dille, W. terest in her passengers. And, G. Ferguson, G. C. Hartzell, Edbrought accolades from her exwin Hogue, Leo Lane, P. A. Phillips, Carl Porter Jr., Gerald Ray, W. C. Reynolds, C. W. Rock, A. cha Hardy, J. R. Lewis, Jasper Acknowledging the claim in a H. Senn, M. L. Sullivan, J. W. Storms. magazine article, that airline

Turner, Harry Willis. hostesses make the best wives, \$150 each - Jerome Conner, With six chapters completed Charlie commented that she Rita Haas, James Johnson, Don- Byron Butler. \$100 — Mar-Jr., E. T. Burgarner, P. S. Burwanted to stay for "We certainly gain a satisfac- Olson, John Paulsen, Henry Vergara, David Pruitt."

Area Scrap Drive Gets Council's Full Support

munity Council at its meeting last Tuesday evening:

strate the need for summer salvage drive this year. Pro-\$100 each — Mary Ann Ded- swimming as a recreational acmon, Mary Jane Morgan, Crystal tivity in the Ridgecrest area, sev-split; with half going to the Rampy, Maxine Talbot, LeRoy eral generous individuals of Handicapped Children's fund Ridgecrest pooled their reand half to reimburse the cost sources to underwrite the ex- of opening and operating the \$250 — Bernard Silver. \$150 pense of opening and maintain Ridgecrest Pool. Mary Chapman. \$100 — Ter- ing the pool, near Monroe

Awards . . .

Technical Information \$250 — Everett Baker, \$200 **Underwater Ordnance**

\$300 — Douglas Wilcox. \$250 "I guess it's the ability deman- rell, Nolan Clawson, I. W. Cole- each — Fred Anderson, Guy Mil-

R. Mead, Robert Mullins, Oliver II., Herman Torkelson, Joaquin ments will be made to pick up tory mark in cooking meals," Peckham, Lawrence Perry, Jesse \$150 each — William Price, understood that several trucks And, a lady passenger who de- she boasted, claiming that the Pierson, F. E. Ray, J. N. Segler, Domingo Sanchez, Geary Younce, with volunteer drivers have been

Mary Cox, Barbara Hillebrand, Superior Accomplishment ity to put your garage in order

Following is a resolution passed by the China Lake Com-

ceeds from the drive are to be

"The salvage drive will be held School, for use by the general on Saturday, Aug. 24, in the China Lake and Ridgecrest "In view of this thoughtful areas. The Council feels that in Joseph Kraemer, John Strom- effort, the Elks Club has decided addition to aiding a worthy civic to include the swimming pool effort, local residents will have \$200 each - Robert Barling, cost within its fund raising goal an opportunity to "clean out" cumulated so much material over the years.

> "It is emphasized that the drive is not intended to pick up unvaluable trash, but rather items of salvagable material that could be sold by the Elks Club, but is of little value to the individual resident.

"Items which are welcomed are such things as bottles, scrap metal (all kinds), tubing, pipe, tires and other items of small

"Residents who wish to paralong. with. people... The ..well- Cecil Howerton, Ray Kee, F. F. \$200 each — Donald Ayers, to call Mr. McKernan, FR 8-8801 ticipate in this drive are urged She told of a couple who groomed look that stewardesses Kinsey, E. H. Larosche, C. O. Joseph Berkich, Leslie Campbell, or FR 8-7841; or Mr. Wright, the articles on the 24th. It is

"Why not take this opportun-Statistics compiled after Robert Owens, Ina Wiley, Don- Awardees will be listed in next and, at the same time, help two very worthy local activities."



CPO WIVES INSTALL—New and retiring officers of the Chief Petty Officers Wives Club include (I-r, front) Mrs. Arthur Braley, outgoing president; Mrs. George Morrison, new president; Dixie Shannahan, 1961 president

and installing officer, and Mrs. Walter Nydegger, secretary. In back row are Mrs. Paul Huge, vice president, and Mrs. Victor Davis, 1962 president. Mrs. Wayne Castle is the new treasurer for coming year.



TO ATTEND ENCAMPMENT—Seven of 11 China Lake Civil Air Patrol Squadron 84 cadets who will attend a two-week summer encampment at Mather Air Force Base pause during a tour of the Station before departure

for encampment. Kneeling (I-r) are Hank McGlothin, Pat Fullerton, Gary Smith, and Lanse Curtis. Standing (I-r) are Bruce Wilson, Lou Smith, Dick Meyer and Bob Ivancovich. Navy provided airlift to Mather.

as a flight leader.

several hundred other cadets

Civil Air Patrol Cadets Leave For Mather Air Force Base

plane crewed by the Naval Air er. Transport Wing Pacific Thurs- Three members of the Squadday morning at the Naval Air ron preceded the flight group to Facility to fly to a two-weeks Mather for advanced indoctriencampment at Mather Air nation, Cadet Capt. Tryone St.

Cadets making the flight were Lanse Curtis, Pat Fullerton, Bob Ivancovich, Dick Meyers, Hank Punch, Prizes And McGlothin, Gary Smith, Wayne Thompson, and Lou Smith.

The local cadets will partici- Exotic decorations and excit-



LYLE E. FREEDMAN, son of Mr. and Mrs. Robert Freedan Honors Student at Murray. Center.

Lake Civil Air Patrol Squadron according to Capt. Robert B. son 84 boarded an Air Force C-131 Thomas, Squadron 84 Command- St. Louis will serve as a squad-

Louis, Cadet 1st-Lt, Larry Mil-

Poi At COM Luau

pate in two-weeks of Air Force ing music are on the agenda for related subjects. instruction classes, on-the-job the Hawaiian Luau at the Commissioned Officers Mess on Aug- cadets will participate in a fly- Four antisubmarine warfare Approximately 30 ships and

Free Hawaiian Punch will be an Air Force T-29. served on the Lanai between 6 and 7 p.m. Dinner will be from 7 to 9:30 p.m.

Music for dancing will be played by the Continentals and a special prize will be awarded for the best Hula.

Please make your reservations early.

Social Security Agent To Speak Here At Comm. Cent. Tues.

A representative from the Bakersfield Social Security Office will speak on provisions of the Social Security Act at the Community Center on Tuesday, Aug. 20, at 7:30 p.m.

The speaker will outline oldage, survivors, and disability phases of the Act. A question and answer period will follow the main talk.

Residents of China Lake and Ridgecrest are invited to attend. Following Tuesday night's man of 56-A Ringgold, has meeting, Leland Embrey, disbeen granted a scholarship to | trict manager of the Bakersfield attend the Webb School of office, has arranged for a So-California in Claremont for cial Security representative to the 1963-64 school year. Lyle speak on other phases of Social attended Vieweg, Groves and Security each third Wednesday Murray Schools here and was of the month at the Community

Wage Survey Teams Now Gathering Data

under way last Tuesday, William M. Blinkhorn, Acting Head of the Wage and Classification Division of the Personnel Department reports.

Blinkhorn is ComNOTS' representative here. Bernie Silver, Head of NOTS Pasadena Personnel Division, is alternate repre-

On orders of the Navy's Office of Industrial Relations, some 63 firms will be contacted for wage information concerning 47 Navy skilled and semi-skilled jobs in the General Wage Serv-

Results of this samping of private industry and Navy ratngs will lead to a new Schedule of Wages applicable to all ungraded empoyees at NOTS, China Lake, and Pasadena. Data is collected by teams from participating activities.

Capt. Blenman appointed four employees to assist the Area Wage Survey Committee by collecting wage data. They are:

Terry Haycock, Code 656, Personnel Management Specialist, and Dorothy Seaman, Code P659, Personnel Management Special-Ungraded employees selected

are Carroll M. Frick, Code 40112, Model Maker (Machining) and John O. Lindquist, Code P8094, Quarterman Mechanic (Experimental Machine and Metal Shop), In addition, two ungraded em-

ployees were appointed to act as observers at all meetings of the Area Wage Survey Committee. These employees are William C. Russell, Code 5545, Machinist, and Norman F. Castle-Eight cadets from the China training, and orientation flights, ler, and Cadet M/Sgt. Bruce Wil. berry, Code P5313, Inspector Tools and Gages).

All these employees and the activity representative and his ron commander at Mather while alternate attended the second Miller will have flight commandmeeting of the Area Wage Surer duties and Wilson will serve vey Committee and a data col- Ammunition Depot, Hawlection training session on Aug. thorne, Nev., and two years in The local contingent will join 12.

New Schedules of Wages for China Lake and Pasadena as a result of this Survey will become effective no later than the first pay period after Oct. 15, 1963.



TWENTY YEARS of Federal Service by Elmo Slaton was recognized when he received his pin recently. Slaton, in Supply Dept. since January, 1962, had been an ordnanceman in Propulsion Development since he first came to NOTS in 1955. Prior to that he spent 10 years at the Naval

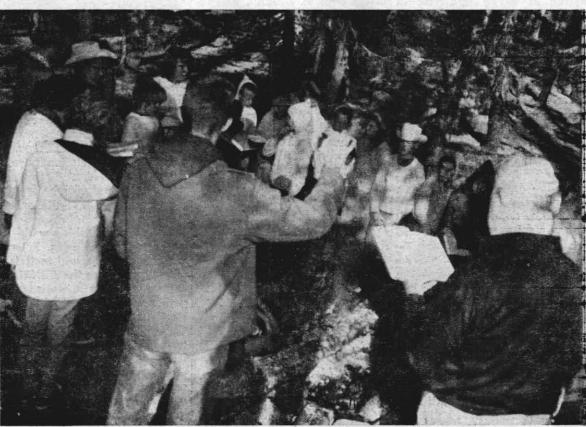
from Northern California who will be attending classes in ASW Training at High Pitch

weather, navigation, aerospace If the schedule permits the Commander FIRST Fleet.

ing a month-long hunter-killer the exercises.

Antisubmarine warfare train- (HUK) operation, are being held education, customs and courte- ing is at high tempo and will be off the coast of Southern Calisies of the Air Force and other until Labor Day according to fornia and in Northern Pacific Vice Admiral R. T. S. Keith, waters by units of the FIRST

ing navigator's workshop aboard (ASW) training exercises includ- submarines are taking part in



CHURCH YOUTH CAMP—Youths attending the All Faith Chapel Protestant Congregation-sponsored summer camp last week at Horseshoe Lake enjoy a campfire "songfest."

Thirty-two youngsters and nine adults headed by Chaplain Robert Fenning attended the encampment. Success of this year's camp has warranted plans for another encampment.

CLERICAL DEVELOPMENT CLASSES

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 statistics. 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 16 September 1963. To register, send one completed NOTS COURSE ENROLLMENT AND/OR TUITION REFUND CER-TIFICATION (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:

General Clerical Orientation (2 hours) 0800-1000, Thurs., 19 Sept Coordinator: Employee Development Division

Familiarizes clerical employees with the various manuals (e.g., timekeeping), procedures, methods, and processes used at NOTS. Making appointments, telephone practices, and Navy filing procedures will be covered.

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

1300-1600, Thursday, 12 and 19 December

Covers the Naval Correspondence Manual, how to use the NOTS mailing system, requirements of classified document control, accountings, marking and stamping procedures, explanation of the Navy filing system, functions of custody

Personnel Forms (3 hours) 1300-1600, Thursday, 16 October Coordinator: Joe Doucette, Personnel Department Information and practice in the completion of personnel forms used by the departments such as PARs, benny-suggs,

Public Relations (12 hours) Monday, 0930-1130; 16, 23 Dec.; 6, 13, 20, 27 January 1964

For those who consistently deal with individuals outside their own group, such as policemen, telephone operators, secretaries, clerks in service organizations and others dealing with the public. Presents material and focuses discussions on the techniques of effectively dealing with public groups, how to create effective working relationship, etc.

Security Procedures for Office Practice (2 hours) 1300-1500, 23 October

Coordinator: R. H. Bodwell, Security Department Gives information to insure the proper security procedures in handling classified matter for the average clerical employee. This information will be more detailed than the portion covered in the class on Correspondence, Mail, File,

Record and Security Procedures. Supply Procedures (4 hours) 1300-1400, Thursday, 9, 16, 23, 30 January Coordinator: Ellen Young, Supply Department Organization and procedures of the Supply Department, including information on the different ordering procedures

for purchased and stocked items and the completion of the

Timekeeping Procedures (2 hours) First Class, 1400-1600, 26 Sept. - Second Class, 1400-1600 27 Sept.

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

Friday, August 16, 1963

Travel Procedures (5 hours)

0800-1030, Thursday, 3 and 10 October Coordinator: Kay Goodwin, Travel and Transportation Branch Focuses on the explanation and preparation of travel orders, claims, visitor clearances and other travel procedures.

Computer Programming, Part I (12-15 hours) Programmed Instruction: AutoTutor, Individually arranged

Coordinator: Employee Development Division, Code 654 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 programming; it tells you what the computers can do and how to understand what they do.

Improving Your Writing (6-12 hours)

Programmed Instruction: AutoTutor Individually arranged Coordinator: Employee Development Division, Code 654 Improves grammar such as subject-verb agreement, reference of pronouns, etc. and is recommended to follow the punctuation course.

Introductory Statistics (20-25 hours)

Programmed Instruction: Min/Max, individually arranged (Take-home study course) Coordinator: Employee Development Division, Code 654

Provides statistical clerks (or clerks working with statistics for scientists and engineers) with a grasp of statistical fundamentals.

Punctuation (2-4 hours) Programmed Instruction: AutoTutor, individual Coordinator: Employee Development Division, Code 654

BAKERSFIELD CLASSES

Bekersfield College Evening Division, China Lake, offers a variety of courses, many of which are appropriate for those employees interested in evening class opportunities. Listed below are the Fall Semester Classes that appear to be most related to the development of on-the-job skills of NOTS employees. For a complete listing see the BCED Fall Schedule. Copies of this schedule or counseling appointments may be obtained by calling FR 5-2348.

Registration: Registration may be completed in the Burroughs High School Library on 23 August (8 a.m.- Language Skills (3) Egnlish 51A 5 p.m.) and 22, 26, and 27 August (5-8 p.m.). Registration on these dates is important to insure a class size sufficient to hold the course. It is possible to register on the first day of class only if the particular class has had sufficient pre-enrollment to form. The semester begins during the week of 3 September.

Description of Courses and Schedules:

Business Law (3) Bus Ad 18A Tues.-Thurs., 6:30-7:53 - Mr. Toombs

Intro Bookkeeping/Accounting (3) Bus Ad 53A Tues.-Thurs., 8-10 - Mr. Toombs Prereq: Math 51, can be taken concurrently

General Inorganic Chemistry (5) Chem 1A

Mon.-Wed., 5:30-10 - Mr. Ward Prereq: "B" in high school chem and advanced algebra or "C" in Chem 2A and Math D and a qualifying score on a prereq. chem. exam.

Intro Gen Chemistry (5) Chem 2A Tues.-Thurs., 5:30-10 - Mr. Sergy Prereq: High school algebra or Math A

Intro to Geology (3) Geo 10 Mon.-Wed., 6:30-7:53 - Mr. Chipman

Mechanics (3) Physics 1A Tues.-Thurs., 6:30-9:30 Prereq: Concurrent registration in Math 3A

Physics (4) Physics 60A Mon.-Wed., 6:30-9:30 Prereq: "C" in high school algebra or Math 53A or Math A

General Psychology (3) Psych 1A

Mon.-Wed., 6:30-7:53 - Mr. Quiggle Prereq: Qual score on College Aptitude Test or "C" in Technical Mathematics. (3) Math 53A

Applied Psychology (3) Psych 51 on.-Wed., 5-6:23 - Mr. Quiggle

necessary forms.

Mon.-Wed., 6:30-7:53 - Mr. Williamson

Intro to Sociology (3) Sociology 1 Tues.-Thurs., 6:30-7:53 - Mr. Quiggle

Principles of Econ (3) Econ 1A Tues.-Thurs., 8-9:30 - Mr. McCoy

Mon.-Wed., 8-9:30 - Mrs. Sand Prereq: English Class Test

Reading Improvement (1) Eng 52A Mon.-Wed., 5:30-6:23 - Mrs. Handler

Tech & Report Writ (3) Engl 54A Tues.-Thurs., 6:30-7:53 — Mr. Van Hagan Prereq: English XB Classification

Public Speaking (3) Speech 1A Mon.-Wed., 6:30-7:53 - Mr. Lawson Prereq: Pass grade in Subj A Exam or English Class Exam or "C" in English XB

Elementary Algebra (3) Math A Tues.-Thurs., 6:30-9 - Mr. Schult

Plane Geometry (3) Math B Mon.-Wed., 6:30-9 - Mr. Rambis Prereq: Math A or 1 yr. in high school algebra

Plane Trigonometry (3) Math C Tues.-Thurs., 8-9:30 - Mr. Ewing Prereq: Plane Geometry and advanced high school algebra or Math D.

Mathematical Analysis (3) Math 1 Tues.-Thurs., 6:30-7:53 - Mr. Ewing Prereg: Math D or equiv and Math C

Anal Geometry and Calculus (3) Math 3A Tues.-Thurs., 5-6:23 - Mr. Ewing

math for this course given. Those who fail must enroll in

Business Mathematics (3) Math 51 Mon.-Wed., 8-9:30 - Mr. Ewing

Mon.-Wed., 6:30-7:53 — Mr. Ewing Prereq: "C" in Math 53A-B Begin Typing (3) Office Skills 50A

Mon.-Wed., 6:30-9 - Mr. Gilkinson Prereq: Beginners or one semester of high school typing

Intermed Toying (2) Off Skills 51 Mon.-Wed., 5-6:23 - Mr. Gilkinson

Office Prac. (3) Off Skills 53A Tues.-Thurs., 6:30-9 Prereq: "C" in 1 yr. of typing

Industrial Drawing 30A Mon.-Wed., 7-10 - Mr. Drow

Industrial Drawing 30A Tues.-Thurs., 7-10 - Mr. Ingram

Standard Red Cross First Aid (1) Phys Ed 31A Mon. 8-10, Nov. 4 for 9 Weeks - Mr. White

OTHER COURSES

Basic Design (2) Art 3 Elem Photography (3) Art 33A Theatre Lab (1) Drama 27 English Fund (3) English XA English Fund (3) English XB Read and Compos (3) English 1A Intro to Amer Lit (3) English 30A Elem German (4) German 1 El. German Conver (2) German 30A El. Russian Conver (2) Russ 52A El. Span Conver (2) Span 52A Elem Public Writ (1) Journ 11A Class Piano (1) Music 5A Public Sch Music (3) Music 9 College Choir (1) Music 14 Intro to Philos (3) Philos 6A Intro to Life Sci (3) LS 11A Gen Biology (3) Life Sci 53 Modern Dance (1/2) Phys Ed 5M Health Education (2) Heal. Ed 1 Swimming (1/2) Phys Ed 68 Intro to Geography (3) Geo 1A History of U. S. (3) Hist 17A California Hist (3) Hist 18 Educ and Voc Plan (1) Orient 1

BURROUGHS CLASSES

Burroughs Evening High School offers a variety of courses, many of which are appropriate for those employees interested in evening class opportunities. Listed below are the Fall Semester Classes that appear to be most related to the development of on-the-job skills of NOTS employees. For a complete listing see the BEHS Fall Schedule. Copies of this schedule or counseling appointments may be obtained by calling FR 8-5601 or FR 5-4476.

Registration: Registration may be completed in the Music Wing of Burroughs High School on 21, 22, 23, and 26 August (noon-7 p.m.). Anyone over 18 years of age or a high school graduate may attend. The semester begins 3 September.

Description of Courses and Schedules:

Algebra 1 - Wed. 7-10 - Bartlett

Basic Electricity - Tues 7-10 - Whitfield

Bookkeeping 1 - Wed. 7-10 - Toombe

Industrial Trigonometry - Wed. 7-10 - Flagg

Mech Draw & Blueprint Read - Thur. 7-10 - McNeill

Plane Geometry - Thur. 7-10

Preparation for Algebra - Tues. 7-10 - Whittingham

Sheetmetal Layout - Tues. 7-10 - Flagg Shorthand 1 - Tues. 7-10 - Ruhge

Typewriting 1 - Wed. 7-10 - Sasaki

Typewriting 2 - Mon. 7-10 - Prereq: Typewritting 1

Woodshop - Thur. 7-10 - Maxwell

Arithmetic Review Citizenship Conversational French Conversational Spanish English Review English 3 English for Foreign Born Expectant and New Parents Interior Decoration Mosaics Needlecrafts 1 Needlecrafts 2 Sewing 1 Sewing 2 Sewing 3 Spelling and Vocabulary Swimming

World Science 1

COURSE SCHEDULE-FALL 1963

- University of California at Los Angeles
- Science and Engineering Day Classes
- University of Southern California
- Supervisor and Executive Development Classes
- Journeyman and Technician Development Classes
- Clerical Development Classes
- Bakersfield College, Evening Division
- Burroughs Evening High School

PREFACE

This Course Schedule provides detailed information about the classes open to NOTS employees at China Lake for this Fall 1963 semester.

The growth and development of people is one of the most exciting and important parts of the success of NOTS. We recommend that you use this Course Schedule, together with the Career Planning Manual revised in August 1963, in planning individual employee development programs.

Departmental Personnel Management Advisors are available to supervisors and employees for discussions of available development

opportunities, including rotational work assignments, correspondence courses and others not listed in this Schedule.

Additional copies of this Course Schedule and the Career Planning Manual may be obtained from Department Offices or your Department's Personnel Management Advisor.

RAYMOND A. HARRISON

Acting Head, Personnel Department

U.C.L.A. SCHEDULE OF CLASSES

REGISTRATION. Registration will be held 0800-1200. Mon.-Fri., 3-13 September, in the Education Office, Room 1004, Michelson Laboratory. Registration fees are payable by check or money order at the time of registration. The amount of the fee is listed after each course.

GRADUATE STUDENTS IN ENGINEERING. The Department of Engineering, UCLA, requires all graduate students to complete 6 units of course work every semester until they have fulfilled the unit requirements for the M.S. Any student who completes less than 6 units is obliged to withdraw from the University, and must reapply for readmission if he wishes to continue at a later date. Leave of absence and in-absentia status are difficult to obtain.

COUNSELING. UCLA advisors will be available on 4 September (1100-1500) in the Education Office. Students are requested to contact the UCLA registrar in the Education Office for appointments.

USE OF OFFICIAL TIME AND/OR TUITION RE-FUND ELIGIBILITY. If an employee's supervisor certifies that the training is relevant to his present or projected work assignment, the employee may do one of the following: (1) If carrying 6 or more units, request permission via his departmental channels to use official time to study not to exceed 6 hours per week for 15 weeks; (2) If carrying 6 or more units and authorized to use 3 or less hours of official time to study for one 3-unit course, submit one copy of NOTS Course Enrollment and/or Tuition Refund Certification 11ND NOTS 12410/28 prior to the first class meeting to establish tuition refund eligibility for a second 3-unit course; or (3) Submit one copy of same form to establish tuition refund eligibility for each course prior to the first class

REFUNDS. Refunds will be made under the following conditions if tuition refund eligibility has been established: (1) Successful completion (a grade of "C" or higher) of a course; (2) Withdrawals prior to the second meeting of class and presenting admission form to the Education Office; or (3) Withdrawals after second meeting and before fourth meeting tuition refund minus \$5 will be made by the Uni-

WITHDRAWALS AND AUDITING. The last day for graduate students to drop courses without penalty of failure is 25 November 1963. Petition forms are available in the Education Office. The last day for extension students to audit a course (no credit) is the first meeting after the mid-term. The instructor will request each student to indicate his desired status after the first mid-term grade report. Graduate students who have dropped a course and extension students who are auditing a course may continue to attend class without the obligation of submitting homework or taking examinations.

TEXTBOOKS. Each student is responsible for purchasing his textbooks. Order blanks are available in the Education Office. It is recommended that books be ordered early to insure receipt prior to the beginning of classes.

ACCESS TO MICHELSON LABORATORY. Students who do not have access to the Lab should register on or before 5 September so that they may be cleared for admittance to classrooms before the semester begins. Students unable to complete registration by 5 September should notify the Education Office giving: full name, mailing address, citizenship, and the name of the courses to be taken. NO UNCLEARED STU-DENT WILL BE ADMITTED TO THE LAB CLASS-ROOMS UNLESS HIS REGISTRATION OR NOTICE OF INTENT TO REGISTER IS RECEIVED IN THE EDUCATION OFFICE BY 5 SEPTEMBER 1963.

PREREQUISITES. The titles of courses listed as prerequisites for the various courses in the Extension and Graduate Program are as follows:

Engineering 4C, Introduction to Engineering Properties of

Material Engineering 100A, Circuit Analysis Engineering 102B, Engineering Dynamics Engineering 105 A&B, Engineering Thermodynamics Mathematics 3A&B, Analytic Geometry and Calculus Mathematic 4A&B, Analytic Geometry and Calculus Mathematics 5A&B, Analytic Geometry and Physics Mathematics 6A&B, Differential and Integral Calculus Mathematics 37, Mathematics for Social and Life Sciences Mathematics 108, Linear Algebra Mathematics 110A, Advanced Engineering Mathematics Mathematics 119A. Differential Equations Mathematics 122A&B. Advanced Calculus

Physics 1A, General Physics: Mechanics of Solids Physics 1B, General Physics: Mechanics of Fluids, Heat and Sound Physics 1C, General Physics: Electricity and Magnetism Physics 1D, General Physics: Light and Modern Physics Physics 2A, General Physics: Mechanics, Heat and Sound

Physics 121, Atomic Physics Psychology 111, Psychological Measurement and Evaluation

Physics 2B, General Physics: Electricity, Magnetism,

EXTENSION PROGRAM

and Light

EXTENSION PROGRAM SCHEDULE. Courses listed on the following pages are open to all students who satisfy the prerequisites.

(*) Starred courses may, by subsequent petition, be offered toward the satisfaction of the unit requirements for the master's degree up to a maximum of

Engineering XL 103A, Elementary Fluid Mechanics (3) \$45.00 Instructor: K. Okauchi, M.S., Aerospace Engineer, Weapons Dev. Dept.

Tues.-Thurs., 4:30-6 p.m., M. L. Room 1000 (30 meetings -10 Sept - 7 Jan.) Prerequisites: Engineering 102B and 105A Text: Vennard, Elementary Fluid Mechanics, 1961,

Introductory course in the principles of mechanics to the flow of compressible and incompressible fluids. Include hydraulic problems of flow in closed and open conduits.

Engineering XL 108A, Strength of Materials (3) \$45.00 Instructor: J. Pearson, M.S., Hd, Detonation Physics Grp,

Research Dpt. Mon.-Wed., 4:30-6 p.m., M. L. Room 20108 (30 meetings -9 Sept - 6 Jan)

Prerequisites: Engineering 4C, Math 4B or 6B Text: Shanley, Strength of Materials, 1957, (McGraw-Hill) Stress, strain, and elasticity; thin shells, welded and riveted joints; shafts and helical springs, beams, shear, moment, flexural stress, shearing stress, deflection, unsymmetrical

loading; column-theory, combined stresses. *Engineering XL 115B, Active Electronic Circuits I (3) \$45.00 Instructor: R. G. Sewell, M.S., Physicist, Weapons Dev. Dept. Mon.-Wed., 4:30-6 p.m., M. L. Room 1000 (30 meetings -9 Sept - 6 Jan)

Prerequisite: Engineering 100A

Text: Le Croisette, Transistors, 1963, (Prentice-Hall) Amplifiers: untuned voltage and power, direct-coupled, broad band, tuned voltage and power; feedback. Oscillators, medulations, mixing, detecting; analog computing circuits. Design considerations.

Instructor: M. C. Creusere, M.S., Head, Armament Control Systems Branch, Aviation Ordnance Department Mon.-Wed., 6:30-8 p.m., M. L. Room 1011 (30 meetings -9 Sept - 6 Jan)

Prerequisite: Engineering 186A

*Engineering XL 136B, Control Systems Theory (3) \$45.00

Text: Truxal, Automatic Feedback Control System Synthesis, 1955 (McGraw-Hill) Extended synthesis techniques: multi-pole control systems: additional problems in linear systems; analysis and synthesis of nonlinear control systems.

*Engineering XL 150A, Industrial Heat Transfer (3) \$45.00 Instr: R. W. Van Aken, M.S., Hd, Aerothermodynamics Br., Weap. Dev. Dept.

Tues.-Thurs., 6:30-8 p.m., M. L. Room 20108 (30 meetings .. 10 Sept - 7 Jan) Prerequisites: Engineering 105B

Text: Kreith, Principles of Heat Transfer, (International Textbook) Basic principles of heat transfer and their application to the design of industrial equipment. Steady state and transient problems of conduction by analytical and numerical methods. Free and forced convection. Transfer of radiant energy.

Geology X 199, Mineral Associations (3) \$45.00 Instructor: C. F. Austin, Ph.D., Geologist, Research Dept. Monday, 6:30-9:30 p.m., M. L. Room 1000 (15 meetings -

9 Sept - 6 Jan) Text: To be announced The associations of minerals, how certain minerals occur together as a result of the environment at the time of formation or deposition, and the outcrop behavior of primary

Mathematics XL 110B, Advanced Engineering Mathematics (2) Instructor: W. B. Stelwagon, M.A., Mathematician,

Research Department Mon.-Wed., 4:30-6 p.m., M. L. Room 1001 (20 meetings -9 Sept - 13 Nov)

Text: Sokolnikoff and Redheffer, Mathematics of Physics Ordinary differential equations and orthogonal functions, partial differential equations, line integrals, Green's theo-

*Mathematics XL 111A, Introduction to Higher Algebra (3) \$45.00 Instructor: C. A. Flanagan, M.A., Mathematician, Research Department

Tues.-Thurs., 4:30-6 p.m., M. L. Room 1011 (30 meetings -10 Sept - 7 Jan)

Prerequisite: Mathematics 108 Text: Birkhoff and MacLane, A Survey of Modern Algebra, Integral domains, fields, polynomial domains, factorization

theory, groups, vector spaces and linear transformations, rational and Jordan canonical forms, quadratic and hermitian

*Math XL 137, Numerical Methods in Differential Equations (3)

Instructor: A. A. Fojt, M.A., Physicist, Weapons Dev. Dept. Tues.-Thurs., 6:30-8 p.m., M. L. Room 1017 (30 meetings -10 Sept - 7 Jan)

Prerequisites: Mathematics 119A and 122A Text: Henrici, Discrete Variable Methods in Ordinary Differential Equations (Wiley)

Forward integration, error analysis, Milne, Runge-Kutta, and difference methods, systems of equations, higher order and nonlinear equations, two point boundary conditions.

*Physics XL 105, Analytic Mechanics (3) \$45.00 Instructor: A. G. Hoyem, Ph.D., Head, Aircraft Projects

Division, Aviation Ordnance Department Mon.-Wed., 4:30-6 p.m., M. L. Room 1017 (30 meetings -9 Sept - 6 Jan)

Prerequisites: Physics 1A-B-C-D, or 2A, 1C-D, or 2A-B, Math 5A-B, 6A-B, or 3A-B, 4A-B Text: Fowles, Analytical Mechanics, (Holt, Rinehart and Winsten)

Kinematics and dynamics (statics and kinetics) or particles, systems of particles, and rigid bodies.

Physics XL 121, Atomic Physics (3) \$45.00 Instructor: J. L. Thompson, Ph.D., Physicist, Test Dept. Tues.-Thurs., 4:30-6 p.m., M. L. Room 1017 (30 meetings -

10 Sept - 7 Jan) Text: Eisberg, Fundamentals of Modern Physics, (Wiley) Atomic nature of matter and atomic composition. The propagation of electromagnetic waves and their interaction with matter. Special relativity. Atomic spectra and electron dis-

Psychology XL 107, Advanced Psychometric Methods (3) \$45.00 Instructor: F. Friedlander, Ph.D., Research Psychologist, Central Staff

tribution. Basic concepts of wave mechanics.

Tues .- Thurs .. 7:30-9 p.m., M. L. Room 1011 (30 meetings -

10 Sept - 7 Jan) Prerequisites: Recommended: Psychology 111, Math 3B or 37

Text: To be announced Application of higher statistical methods to psychological

GRADUATE PROGRAM

GRADUATE PROGRAM SCHEDULE. The 100 series courses listed below are open to all students who have graduate status at UCLA. Courses in the 200 series are generally open only to graduate students who have rectified all grade-point deficiencies.

Engineering 115B, Active Electronic Circuits Same as Engineering XL 115B. See above.

Engineering 136B, Control Systems Theory Same as Engineering XL 136B. See aobve. Engineering 150A, Industrial Heat Transfer Same as Engineering XL 150A. See above.

Engineering 245B, Properties of Engineering Materials (3) \$45.00 In structor: G. J. Plain, Ph.D., Associate Head, Research Dept. Tues.-Thurs., 4:30-6 p.m., M. L. Room 20108 (30 meetings -

10 Sept -7 Jan) Prerequisite: Physics 121 (or equivalent)

Text: Kittel, Solid State Physics, 1958, (McGraw-Hill) Applications of solid state physics to determination of properties (other than mechanical) of engineering materials. Introduction to modern concepts. Specific heat, conductivity (conductors and semiconductors), dielectrics, magnetic properties. Electron theory of alloys.

Engineering 299-S, Research in Engineering (1) \$20.00 Instructor, time and place to be arranged. Investigation of advanced technical problems.

Engineering 299-T. Research in Engineering (4) \$65.00 Instructor, time and place to be arranged.

Thesis work for the Master's Degree. For students who have pleted course work.

Mathematics 111A, Introduction to Higher Algebra Same at Mathematics XLIIIA. See above.

Mathematics 137, Numerical Methods in Differential Equations Same as Mathematics XL 137. See above.

Mathematics 224A, Complex Analysis (3) \$45.00 Instructor: R. E. Smithson, Ph.D., Mathematician, Research Department

Mon.-Wed., 4:30-6 p.m., M. L. Room 1011 (30 meetings -9 Sept - 6 Jan)

Prerequisites: Mathematics 122A and B

Text: Hille, Analytic Function Theory, Volumes I and II (Ginn) Covers the approximate equivalent of Ch. I-III of Alfors Complex Analysis. Introduction to and rigorous treatment of the theory of complex numbers and functions, linear transformations, conformal mappings, Cauchy's theorm and its consequences, residue calculus.

Mathematics 260, Quantitative Aspects of Communication Sciences

Instructors: C. B. Tompkins, Ph.D., Professor of Mathematics, and Director of the Computing Facility, UCLA; and Mathematician, Communications Research Division, Institute for Defense Analysis, Princeton, New Jersey,

J. F. Mount, Ph.D., Lecturer in Mathematics, UCLA; and Spe cial Representative, University Department, International Business Machines, Inc., Los Angeles, California,

Saturday, 9 a.m. - 12 p.m., M. L. Room 1011 (15 meetings -21 Sept - 18 Jan)

Prerequisites: Knowledge of calculus and differential equations. Text: Hancock, An Introduction to the Principles of Communication Theory, 1961, (McGraw-Hill)

A development of basic concepts of communications based mainly on a Bayesian (Savage) description of the objective of the communications. Current communications practice will be considered to be realistic, and idealizations beyond this practice will be presented as unconfirmed idealizations, but the presentation will be from a point of view of a careful mathematician (which differs from that of one who carelessly applies quantitative formulas without due consideration of the fundamentals). The mathematician will have participated in some practical aspects of the subject and will present practical aspects in careful mathematicial formulation.

SCIENCE & ENGINEERING DAY CLASSES

NATURE OF PROGRAM. These courses complement the Station's academic program of evening classes. The courses apply basic scientific and engineering knowledge and techniques to the special problems of weapons research, development, test, use, and production. The official time devoted to attendance and homework preparation will not exceed 4 hours per week for any student. A grade of "O" (outstanding), "S" (satisfactory), or "U" (unsatisfactory) is assigned to participants completing these courses.

REGISTRATION. Registration continues through 6 September. To enroll, submit one copy of NOTS COURSE ENROLLMENT AND/OR TUITION REFUND CERTIFICATION 11ND NOTS 12410/28 to Code 6503. Enrollees, approved by their Departments will be accepted unless otherwise notified by Code 6503. An enrollee who wishes to withdraw from a course must submit an In-Service Withdrawal Request, 11ND NOTS 2930 to the instructor via his supervisor.

AUTHORIZATION CRITERIA. No employee is authorized to participate in more than 16 weeks of courses (one 16 weeks course or two 8 weeks course) with an S & E designation in any one semester. Supervisors should consider the relation of course content to the actual or prospective work assignments of the employee. Enrollees are expected to attend classes CONFIDENTIAL CLEARANCE IS RE-

- S & E 6A, Terminal Ballistics, 8 meetings (16 hours) Wednesdays: 0800-1000, M. L. Conference Room A. Starts 11 September
- Instructor: M. E. Backman, Research Physicist, Detonation Physics Group, Research Department

Introductory survey of the design of high explosive warheads and of their target-mechanisms. Safe handling, detonation, effects of high explosives, including blast, fragmentation, shock loading, and under water phenomena. The shaped charge and fragment ballistics. Target effects, including penetration, structural damage, and fire raising. Warhead design and principles of fuze operation.

S & E 6B, Terminal Ballistics, 8 meetings (16 hours) Wednesdays: 0800-1000, M. L. Conference Room A. Starts 13

Instructor: M. E. Backman Same general range of topics as the elementary course, Particular focus on rocket and guided missile design.

Tuesdays: 0800-1000, M. L. Conference Room A. Starts 12

Instructor: I. I. Shull, Head, Engineering Div. Public Works Designed to acquaint project engineers, managers, and administrators with procedures for obtaining facilities to support research and development programs, including: (a) Navy Dept. responsibility for providing facilities; (b) facilities planning and research programs; (c) design and utilities considerations; (d) specs and cost estimating; (e) architectural engineering and construction contracts; (f) coordination in integrating electronics equipment with facilities

S & E 18, Inertial Navigation, 8 meetings (16 hours) Tuesdays: 0800-1000, M. L. Conference Room A. Starts 10 Sept. Instructor: J. W. Oestreich, Head, Weapons Systems Analysis Branch, Aviation Ordnance Department

Theory and selected applications of precision gyros, rate gyros, accelerometers, integrators, and computing techniques. submarines, aircraft, and missiles.

S & E 20, Technical Presentations, 16 meetings (32 hours) Thursdays: 0800-1000, Stran Steel No. 1 Conference Room,

Instructors: A. B. Cristman; E. E. Kirkbride; Presentations Division; D. T. McAllister; Consultant, Technical Information Department

Through lectures, group discussions, and workshops, this course covers the basic techniques of planning and developing different types of presentations. Primary emphasis is on presentations of a technical nature. Two different workshops provide an opportunity to either improve speech delivery or to develop a presentation related to the person's work. Recommended for project and administrative personnel who would like to do a better job of presenting their ideas

S & E 26, Fundamentals of Welding Engineering, 16 meetings

Mondays: 0800-10000, M. L. Conference Room A. Starts 9 Sent. Instructor: G. E. Metzger, Welding Engineer, Engineering

Evaluation Branch, Engineering Department Welding, brazing, and soldering processes. Metallurgical and mechanical effects of welding. Design for welding. Specifically arranged for engineers and scientists engaged in design.

PROGRAMMED INSTRUCTION COURSES. Register with the Employee Development Division, Code 654.

PERT, (10-20 hours) Individually scheduled

Presents basic PERT techniques of project planning, scheduling and control.

Computer Programming, (30-50 hours) Individually scheduled What computers can do, how to talk to them, how to get data out of them, etc. Neither electrical circuitry or internal functioning of computers is covered. Part I - Introduction to Programming; Part II - Programming Techniques; Part III - Advanced Techniques; Part IV - Business and Science Applications, FORTRAN language.

from the standpoint of systems for inertial navigation of Computer Mathematics, (8-20 hours) Individually scheduled Provides an understanding of the octal and binary number systems used in electronic computers to perform math com-

> Introductory Statistics, (20-25 hours) Individually scheduled Designed in two parts to provide a grasp of statistical fundamentals. Part A - Descriptive Statistics; Part B - Statis-

U.S.C. SCHEDULE OF CLASSES

for the fall semester will take place at 1430, Tuesday, be made by the University to eligible employees who 17 September in the Mich Lab Conference Room A. wish to withdraw prior to the sixth week of classes P. A. 524, Problems in Public Personnel Administration (3) \$108.00 Tuition may be paid in full or arrangements for de- with a valid reason. ferred payments (\$5 service charge) can be made at this meeting. Persons who are not able to register at this meeting should contact the Registrar in the Education Office, Room 1004, Mich Lab.

TUITION REFUND. To be eligible for a full tuition refund (excluding the \$5 deferred payment charge). an employee must submit one copy of NOTS Course Enrollment Form and/or Tuition Refund Certification 11ND-NOTS-12410/28 signed by his supervisor

REGISTRATION. Registration and payment of tuition completion of the course. Partial tuition refunds will DESCRIPTION O F COURSES AND SCHEDULES.

TEXTBOOKS. Textbooks will be available at the registration meeting on 17 September. The Education Office will try to secure additional copies for persons who register late.

ACCESS TO MICHELSON LABORATORY. Enrollees who do not have access to the Laboratory must notify the registrar on or before 17 September so that ar-(indicating that the training is relevant to present or rangements can be made with Security. NO UNprojected work assignments) prior to the first meet- CLEARED STUDENTS WILL BE ADMITTED TO THE ing of class and receive a grade of "C" or higher upon LABORATORY without prior arrangement.

Instructor: Richard W. Gable, Ph.D., Associate Professor; P.A. Thursday, 4:30-7:10 p.m.; M. L. Conference Room A, 15 meetings, beginning 26 September 1963

Prerequisite: Admission to graduate status in the School of P.A. Evaluation of government personnel systems; classificat compensation, recruitment, examination, training, working conditions, incentives, performance ratings, and employee organizations in the public service.

P. A. 591, Bibliography and Research (3) \$108.00 Instructor: Richard W. Gable

Thursday, 8:10-10:50 p.m.; M. L. Conference Room A, 15 meetings beginning 26 September 1963

Prerequisite: Admission to graduate status in the School of P.A. Research methodology in the social sciences; survey of authorities and their writings; solving bibliographical problems; manuscript form.

SUPERVISOR AND EXECUTIVE **DEVELOPMENT CLASSES**

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 16 September. To register, send one completed copy of NOTS COURSE ENROLLMENT AND/OR TUITION REFUND CER-TIFICATION 11ND-NOTS-12410/28 to Code 654. The suggested levels of partification 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 noti- Employee Management Relations (16 hours) 0800-1000, Tues, fied where courses are to be held.

Description of Courses and Schedules:

Friday, August 16, 1963

Fundamentals of Supervision (24 hours) Scheduled when need ed by contacting the Department Personnel Management Advisor

Coordinator: Departmental Personnel Management Advisors Tailored to the needs of groups of supervisors within one

or several departments. Material ranges from the basic procedural knowledge required to discussion of problems faced by supervisors in this course. The detailed course outline is determined by the group of participating supervisors and the coordinator at the opening session.

Problem Solving Workshop (31/2 days) Scheduled when needed by contacting the Department Personnel Management Advisor

Coordinator: Departmental Personnel Management Advisors Workshops designed for 10-15 supervisors or executives working together in the same organization or in the same problem area. Workshops will resemble a sensitivity training laboratory and will take place in a retreat type atmospher Will use servies of consultants such as Dr. Jack Gibb, Dr. George Lehner, or Dr. Chuck Ferguson.

The Supervisor and Employee Groups (12 hours) Scheduled when needed by contacting the Department Personnel Management Advisor

Coordinator: Departmental Personnel Management Advisors Designed for groups of supervisors within a department. Content and meaning of Executive Order 10988, Employee-Management cooperation in the Federal Service, and the local application of this program.

The Supervisor and the Equal Employment Opportunities Program (12 hours) Scheduled when needed by contacting the Department Personnel Management Advisor

Coordinator: Departmental Personnel Management Advisors Designed for groups of supervisors within a department. Focuses on content and meaning of Executive Order 10925, establishing the President's Committee on Equal Employment Opportunities, with particular attention to the local application of this program.

Coordinator: Ted Gautschi, JPL: Ken Heyhoe, Central Staff Suggested for: Project Managers and potential project managers Analyzes the role of the project manager and affords participants an opportunity to exchange ideas. Discusses relevant literature; includes some lecturing, a few experiments and participation in small group discussion.

Seminar on Personnel Administration (12 hours) 0930-1130 Tues

Coordinator: Joe Doucette, Personnel Department Suggested for: Supervisory and potential supervisory personnel Focuses on finding practical solutions to problems encountered by supervisors in working with people. Discusses items such as "how to hire someone, how to write P.D.s, what is a register, cert, etc."

Coordinator: Austin Ross, Personnel Department Emphasizes the philosophy of employee management relations at NOTS and considers supervisor-subordinate relationships in: adverse actions; performance appraisals; organized employee group relations; services; grievances and com-

Personnel Employment Actions (12 hours) 0930-1130 Fridays, PERT (20 hours) Programmed Instruction Text. Individually

plaints: injury compensation; retirement, etc.

Coordinator: Bob Patterson, Personnel Department Suggested for: Supervisory and potential supervisory personnel Covers recruitment, examinations, reassignments, transfers, interviewing techniques and regulations requiring action by the supervisor.

Security and Communication at NOTS (4 hours) 1300-1500, -9 and 16 Ocotber

Coordinator: R. H. Bodwell, Security Department Deals with the criteria for determining what should be classified, at what level, why, and authorizing signatory responsibility of supervisors for security matters. A panel of research-engineering supervisors and security personnel will discuss practices at NOTS that permit needed communications while maintaining the security of classified material.

Retirement Planning (20 hours - combined home study) 1st class, 1430, 16 Sept. Coordinator: Austin Ross, Personnel Department

Suggested for: Employees within five years of retirement age At the first meeting participants are given various retirement material to study at home; subsequent meetings are established at that time. Discusses topics such as challenge of later life, financial planning, the retirement system, living arrangements, etc. Employees who registered for the course last year are requested to register again.

Engineering and Management (80 hours) Offered between semesters at UCLA ordinator: Employee Development Division

personnel Station management will select 4. Prepares for more effective design, installation, and administration of systems (coordinating men, materials, machines, and money). Brochures describing the courses will be distributed to Departments

Suggested for: Senior scientists, engineers, and supervisory

Management E Project Manager Seminar (24 hours) Begins week Personnel Management Institute (40 hours) 28 Oct. - 1 Nov.

Coordinator: Ray Harrison, Personnel Department Suggested for: Supervisory personnel nominated by their depts Station management will make final selections. The basiframework 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 (41/2 days) 1st class, 4-8 October; 2nd class, 2-6 December, Held in Kernville, Calif. Coordinator: Dr. George Lehner, Professor of Psychology, UCLA

Suggested for: Supervisory personnel nominated by their Depts. Develops participant's awareness to groups and his own influence on a group through theory presentations and struc-

Problem Analysis and Decision Making (40 hours) 14-18 October Coordinator: Kepner, Tregoe and Associates

Suggested for: Senior project and supervisory personnel Principles underlying good management in a "learn by doing' management situation. Focuses on problem solving, de-

Coordinator: Employee Development Division.

Basic PERT techniques, vocabulary and approach of planning, scheduling and control.

Seminar on Methods of Improving Station-Bureau Relationships

Tues., 0930-1130, 22 Oct - 28 Jan Coordinator: Russ Bjorklund, Head, Central Staff

cision making and control setting.

Suggested for: GS-12 and above Identifies 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 recom-

mendations to solve a specific problem. Seminar on Industrial Sociology (24 hours) 1430-1630 Tuesdays,

Coordinator: Dean Hewitt, Personnel Department Explores man's relationships to work organizations, through readings about, and discussion of, leadership patterns, adjusting organizational behavior, organizational conflict, etc.

Creativity Research Seminar (40 hours) 13-17 January Coordinator: Dr. R. W. Stephenson, Personnel Department

Suggested for: GS-11 or equivalent and above After a brief review of the literature on creativity, participants will try to solve test problems in a creative way with the help of several procedural aids to creative thinking. In later sessions, the class will continue to try and solve the test problems creatively, but wil work under the influence of a variety of obstacles to creative thought. Participants will be asked to take creativity tests and personality inventories, as a part of the course.

JOURNEYMAN AND TECHNICIAN **DEVELOPMENT 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. Burrough's Evening High School and Bakersfield College Evening Division offer many courses that should prove helpful to Journeymen and

Registration—Registration for this semester starts immediately and continues through September 16. To register, send one completed NOTS COURSE EN-ROLLMENT AND/OR TUITION REFUND CERTIFI-CATION 11ND NOTS 12410/28 to Code 654. Approved nominees will be notified of class location and any pertinent information prior to the start of each

Description of Courses and Schedules:

Conduit Bending (16 hours) Wednesdays, 1400-1600, 2 October- Basic Industrial Metallurgy and Heat Treating (Aluminums) Coordinator: J. D. Whitfield, Apprentice Electrician Instructor

Suggested for: Journeymen and Helper Electricians Acquaints the participants with the fundamentals of precision conduit bending using hydraulic and screw jack machines. The mathematical basis for bending will be discussed. Safe machine operation will be accentuated. Every student will have the personal experience of bending various types of conduit during the instruction.

Electrical Schematics (14 hours) Tuesdays, 1400-1600, 5 November-Coordinator: J. D. Whitfield, Apprentice Electrician Instructor

Suggested for: Journeymen and Helper Electricians and Covers the reading and drawing of electrical schematics.

The symbols and wiring diagrams used for power and con-trol circuits will be explained and used. Their application to magnetics and relays for interlocking automatically controlled machines and processes will be explained.

Advanced Plastic Industrial Technology (36 hours) Tuesdays, 1400-1600, 8 October - 10 December

Coordinator: Carl Flagg, Apprentice Sheetmetal Instructor Suggested for: Journeymen and Technicians in different trade areas who use plastics

A continuation of the basic plastics course taught this spring, in which the chemistry of plastics and their manufacture, combination, and use were discussed. There will be applications demonstrated and practiced, of the forming, fastening, and cutting of plastics used on the Station.

Thursday, 1430-1600, 30 Oct. - 12 Dec. (No class 28 November)

Coordinator: R. Frederick Ladda, Apprentice Machinist Instructor

Suggested for: Journeymen and Technicians in the Machinist, Sheetmetal, and Welding areas

The basic structure and chemical-physical properties of aluminums currently in use on the Station will be discussed, as will the effect of stresses and strains on machined and welded components.

Transistor Theory and Application (30 hours) Tuesdays, 1400-1600, 1 Oct. - 14 Jan. (No class 24 December) Coordinator: C. Neal, Head, Electronic Design Branch (4051) Suggested for: Electronic Mechanics and Technicians who have completed a basic transistor course

The second portion of a two-part course in transistor theory and application accenting the knowledge necessary to understand and use transistors in the shop situation.

Slide Rule (8-20 hours approx.) Individually arranged

Programmed Text (take home study course) Coordinator: Employee Development Division

The emphasis of this course is on understanding the slide rule rather than merely performing operations with certain scales. Principles behind the most commonly used scales are thoroughly developed. Elementary knowledge of simple arithmetic, algebra, and plane geometry is necessary.

Introduction to Electronics (10-20 hours approx.) Individually arranged. Programmed Text (take home study course)

Coordinator: Employee Development Division This program is designed to provide the student with a useful understanding of basic fundamentals of electronics.

This course is recommended as a prelude to advanced study.