CADET SGT. BRUCE L. WILSON JR. is presented Certificate of Proficiency by Captain (now major) Robert B. Thomas, Commanding Officer of China Lake CAP Squadron 84. Sgt. Wilson earned certificate for completion of aerospace course. TID employee Thomas, who has commanded the squadron since Sept. '63, was promoted to the rank of major last week.

EM Club Dance Saturday, Film Series Start Sunday

The EM Club will inaugurate the first in a series of Sunday afternoon movies for its members this Sunday from 1 to 4 p.m., Youth.) according to club manager Bob Shephard.

"The Rose Bowl Story," a 73 minute length film, starring Marshall Thompson and Vera Miles, captures all the frenzied inside drama and romance behind the Navy Exchange Office," Mancrowd-roaring body-bruising thrill spectacle of the Rose Bowl Game, will be the main

In addition two travelogues tinuing basis." will be shown on Tahiti and Japan plus sport shorts, Facing Danger on the Colorado River.

No Turn Out, No Series "The Sunday film series is being coordinated through the ager Shephard said. "The response we have from the membership will determine whether the series will be on a con-

Princetons Play Saturday

He also noted that The Prince-Celebrity Softball featuring Hol- tons will be furnishing the music lywood stars, All the Greats of for the EM Club's dance Satur-Big League Baseball, and Wres- day from 8 to midnight and urged all members to attend.

written
48-Hindu
cymbals
49-Regret
50-King
Arthur's
lance

CROSSWORD PUZZLE

runners

te of scale 81-Conjunction 82-Place 83-Dance step 84-Babylonian

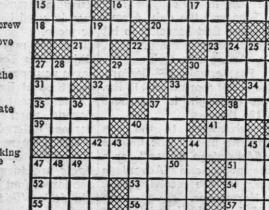
22-Stroke
24-Symbol for tantalum
25-High cards
26-Pile
27-Pit
28-Dry 29-Wager 30-Hit lightly 32-Locate 33-Cushion 86-Note of scale 87-Distance

deity 85-Boundary 37-Chart 38-Snake 39-Prepare for print
40-Free of
41-Preposition
42-Mountain

Europe
44-Burning
47-Sieves
51-Provide crew
52-Tense
53-God of love
54-Unit of
Siamese
currency
55-Toward the
sheltered
side
56-Slave
57-Confederate
general DOWN

1-Shakes-pearian king 2-Exchange

8-Globes 4-Places 6-Intractable person



41-Preposition 43-A state (abbr.)

44-The caams 45-Evaluate 46-Heraldry: grafted

For Use In Authorized Service Newspapers Only.

'Blithe Spirit' In Rehearsal

and Suzanne Larsen will comprise the eternal triangle in the October 2 and 3 at the James Monroe Auditorium.

The show is now in rehearsal.

--MATINEE--"DOG OF FLANDERS" (97 Min.) David Ladd

1 p.m. Shorts: "Son of Hashimoto" (7 Min.) "Seas Hound No. 5" (18 Min.) --EVENING--

"STAGE TO THUNDER ROCK" (82 Min.)

Shirts: "Raw Raw Rooster" (7 Min.) "Silver Lightning" (16 Min.)

"BEAUTY AND THE BODY" (68 Min.) World Beauties and Adventure 7 p.m.

(Novelty in Color) Muscleman and his date clubs, Jai Alai, sky divers, etc. ALSO "Disneyland After Dark"-Disney's fantasy con

Marlon Brando, Trevor Howard

(Adventure in Color) The famed epic o

7 p.m. (Adventure in Color) Strong personal friendturns Communist aggressor in Malaya's rubber plantations. Action-suspense! (Adults

ComEleven Note On Civil Rights Demonstrations

Com11ND issued a note this week reminding all military personnel that they are prohibited from participating in civil rights demonstrations.

"Recent demonstrations point up the need to re-emphasize to all personnel . . . to avoid and stay completely clear of any gatherings, groups or other concentrations of civil rights demonstrators. Specifically in the case of demonstrations, this prohibition includes loitering in the vicinity, and regardless of whether or not the uniform is being worn at the time," the ComEleven note said.

Response to Concert Ken Bryson, Florence Green, Preferential Sale List China Lake Players' production of "Blithe Spirit" to be staged Exceeds Expectations

Lake Civic Concert season has been so great that this list has had to be closed out until after the fall season ticket renewal sales campaign is over Earl Kirk-

bride, sales campaign chairman, until September 26

een received for this list, the assembled members of the sales tial sales list. committee were told.

'We are working on a figure of 81 per cent renewals of 1,086 seats available in the Sta-"This was last year's renewal rate (the highest ever in of town during the renewal the Concert Association's his- campaign. Evans may be con-"Wild About Hurry." tory) and if the rate increases tacted for further information this year we can not be sure at Ext. 72968. that the last few names on the preferential list will be assured of seats, so we are closing the UCLA Counselors

> fuse to sell any new seats until the renewal phase of the campaign is over - which is a

The announcement of the artists for the new concert season will be made at the kick-off meeting September 9. Letters fall semester starts on Wednesasking the present season ticket day, Sept. 8. holders to renew their seats will Appointments for counseling be received on September 10 may be made with Lois Allan and these seats may be renewed by calling Ext. 71759.

Any seat not paid for by that Just under 100 names have date will become available to those persons on the preferen-

Carroll Evans, treasurer for the China Lake Civic Concert Association, is now accepting Theater," the chairman checks from those patrons who wish to renew and might be out

"Now we must absolutely re. To Be Here Sept.

UCLA representatives will be in Room 1004 of Michelson Lab strange position for a sales sel prospective enrollees in engineering and physical science

Registration for the UCLA

Play Here Fri., Sat. At Deucey and "O" Club



THE MUSETTEERS, top accordionists, will make personal appearance here with German Band tonight at the Acey-Deucey Club and the 'O' Club tomorrow night. Both clubs will feature a German food buffet.

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e po esono do estado Por estado de estado	Hay Caybe S	HER	E
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Commandant's Inspection

NOTS Gets 'Excellent' 11ND Rate

The broad rating of "Excellent" was awarded to the U.S. Naval Ordnance Test Station complex last Friday following an annual 11th Naval District administrative-military personnel inspection conducted throughout

Some 25 areas, representing NAF and NOTS China Lake and including facilities at Pasadena, Long Beach, and San Clemente Island, were checked by a 32man inspection team under the direction of Rear Admiral M. W. White, Commandant, 11th Naval District.

The vast majority of areas inspected drew "Excellent" marks. Warning On Three Groups 'Outstanding'

A critique session, held at Michelson Laboratory Friday following personnel inspection of NAF and NOTS personnel, revealed that three Station departments or component units achieved the highest rating possible, "Outstanding."

Safety Department drew strong praise for its educational and applied programs in the industrial safety field and the results realized from the programs. The department's high standards were noted as "uniquely superior" in the District. Central Staff's Forms and Publications unit, representing joint contributions by Technical Information Department, also won an "Outstanding" mark and lavish praise from the inspec-

Public Information Office was the third unit to earn an "Outstanding" rating. The Navy Combat art program, national transmission of their requests | Lake Friday, Sept. 4, for a daytelevision news shows and con- to the U. S. government."

and external relations conducted by the Public Information Office drew special commenda-

Nearly all areas inspected were commended for performances and numerous were (Continued on Page 3)

Red-Controlled Phone Calls

ComNavAirPac issued the following message to Al-NavAirPac this week: "Past and present attempts

have been made by the USSR or other Communist controlled media organizations to place direct phone calls to defense officials at the Pentagon and in the field to query about current events in the news. These conversations have been, on at least one occasion, rebroadcast to the world via Radio Moscow.

"Should telephone calls of this nature be received by your headquarters or members of your command, they should not be accepted, and the operator should be referred to the Soviet Embassy for

Jennings Top 'Bluejacket'

WEARING CLIMBING GEAR he donned for ascent of Mt. Ararat in Turkey recently, George Silberberg of NOTS' Test Dept., is welcomed home by wife, Pat, and children,

By CinC Pac Flt Admiral Thomas H. Moorer, Commander - in - Chief, U.S. Pacific Fleet, accompanied by Vice Admiral Paul D. Stroop, Commander, Naval Air Force, U. S. Pacific Fleet, is scheduled

Visit Here Planned

to visit facilities at NOTS China

long briefing on key programs.

In Navy Since 1959

(Continued on Page 3)

Vol. XIX, No. 36

SAGA OF MT. ARARAT

Kevin, 5; Timothy, 11; Debbie, 14; and Daryl,

16. The fifth article by George on the Ar-

chaeological Foundation's expedition starts

below. (More pictures on Page 5.)

Naval Ordnance Test Station, China Lake, California Fri., Aug. 28, 1964

Silberberg Back From Turkey

Climb to The Summit

By George Silberberg



(Following is the fifth report from George Silberberg, who took leave from NOTS' Test Dept. to participate in an historic archaeological expedition on Mt. Ararat, Turkey, and the possible recovery of remnants of Noah's Ark.)

Sunday, August 2nd . . .

A group of four from the expedition left this morning by Charles J. Jennings, a Navy our little airplane to fly to Doguaviation ordnanceman second bayazit (Doe - ya - buy - a - zit) to get permission immediately to class attached to the Naval Air make arrangements for norses climb the mountain was because Facility, has been selected for and burros for four of us to turbeid forms and a Common honors this weekend as the climb the mountain the next typhoid fever and a German Command's "Bluejacket of the day. I accompanied Dr. Kindall mountain climber had broken in the Unimog, a Mercedes- his leg on the way up, which His major share of reward Benz truck designed for NATO made the local governor very will be a guest visit to Bakers- use, to transport the supplies reluctant to allow anybody near field starting this afternoon and to the base of the mountain. The trip from Erzurum to Dogu-The Arnold, Neb., native and bayazit is 177 miles over moun- cinephotographer, and myself his wife, Judith, will have a new tainous terrain. We arrived had decided we were going to car at their disposal, courtesy about 6 hours later and decided climb the mountain, and left of the Hawk Oldsmobile dealer, to set up camp at the end of for the base of the mountain guest lodging and meals at the the air strip.

The Challenge Ahead

was based on performance Russian border.

the many stories about the "kill- walking stick. Reporting here for duties in er mountain" - Ararat - going | After a difficult 20 mile hike was graduated from Aviation tain because of its remote loca- 4 p.m. Ordnance School following en- tion in Turkey and because of Our base camp was located

In fact, the reason we didn't

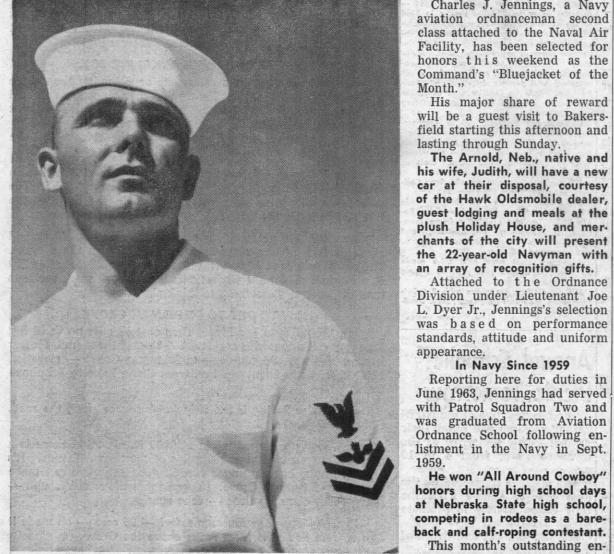
to meet our guides long before the sun came up.

We started to climb about 8 Dogubayazit is a village of o'clock in the morning with 20 4,000 people in a plain domi- little burros leading the way up Attached to the Ordnance nated by the massif of Ararat. the mountain pursued by mos-Division under Lieutenant Joe This is the last town in Turkey quitoes and flies for the first L. Dyer Jr., Jennings's selection before coming to the Iranian or few hours. We hadn't gone far before we ran across a puff standards, attitude and uniform I slept very little that night adder, a very deadly snake thanks to the mosquitoes, and which our guide killed with his

June 1963, Jennings had served through my mind. Few Ameri- over rock strewn mountain side with Patrol Squadron Two and cans have ever seen this moun- we arrived at base camp about

listment in the Navy in Sept. its militarily sensitive location. on a high meadow around Many of the local residents be- 10,500 ft., just below Kake Kop, He won "All Around Cowboy" lieve the mountain to be un- where the Kurds bring their honors during high school days climbable. In fact the Armen- flocks to graze every day. Our at Nebraska State high school, ians believe that the summit is arrival was celebrated by havcompeting in rodeos as a bare- guarded by angels, and the ing roast lamb which the Kurds back and calf-roping contestant. Kurdish tribesmen who live on had slaughtered for us. The This month's outstanding en- the mountain believe the sum- meat was roasted in a homelisted man will be in his second mit is the haunt of the devil. made oven. The wood for the year at Bakersfield Junior Col- Many who have climbed it have fire was brought from Igdir, 30

died and others have become (Continued on Page 5)



CHARLES J. JENNINGS, A02 'Blueiacket of the Month' Won Another Title During High School Days - 'All Around Cowboy'

U.C.L.A. SCHEDULE OF CLASSES

The entire semester schedule of classes is normally published in August and January of each year. There has been some delay in completing the final details of some of the courses for this Fall Semester. The UCLA and USC Program arrangements are completed, however, and

the Fall 1964 schedules appear below. The schedules for the other programs will be published in a future edition of The Rocketeer.

The Fall 1964 Schedule will be distributed in brochure form to departments when arrangements for all the programs are completed.

Tues.-Fri., September 8-18, in the Education Office, requisites for the various courses in the Extension Room 1004, Michelson Laboratory. Registration fees and Graduate Program are as follows: 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. Leaves of absence are difficult to obtain.

COUNSELING. Advisers from the Physical Sciences and Engineering Extensions will be available to students in the Education Office, Room 1004, Michelson Laboratory, on September 2. In addition, a field trip for graduate students in active status to the UCLA campus is planned for the fall semester. The trip will give students an opportunity for a general orientation and to consult with a graduate adviser. More detailed information will be published at a later date.

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 meeting.

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 November 30, 1964. 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 on 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.

ACCESS TO MICHELSON LABORATORY. Students who do not have access to the Lab should register on or before September 11 to that they may be cleared for admittance to classrooms before the semester begins. Students unable to complete registration by September 11 should notify the Education Office giving full name, mailing address, citizenship, and the name of the courses to be taken. NO UNCLEARED STUDENT CAN BE GUARANTEED ADMITTANCE TO THE LAB CLASSROOMS UNLESS HIS REGISTRA-TION OR NOTICE OF INTENT TO REGISTER IS RECEIVED IN THE EDUCATION OFFICE BY SEP-TEMBER 11, 1963.

REGISTRATION. Registration will be held 0800-1200, PREREQUISITES. The titles of courses listed as pre-

Engineering 100A. Circuit Analysis Engineering 100B, Field Theory and Energy Flow Engineering 102B, Engineering Dynamics Engineering 104A, Experimental Engineering Engineering 108A, Strength of Materials Engineering 160A, Introduction to Mechanical Vibrations Engineering 160B, Flight Mechanics and Performance Mathematics 4B, Analytic Geometry and Calculus, 4th Course Mathematics 108, Linear Algebra
Mathematics 110AB and C, Advanced Engineering Mathematics Mathematics 119 A, Differential Equations Physics 110A, Electromagnetic Theory

Engineering 15B, Elementary Mechanics

Physics 115, Elementary Quantum Mechanics

Physics 131, Mathematical Methods of Physics

EXTENSION PROGRAM

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 102B, Engineering Dynamics (3) \$45 Instructor: K. Okauchi, M.S., Aerospace Engineer, Weapons Development Department

Mon.-Wed., 4:30-6 p.m., M.L. Conf. Rm. C (30 meetings, 14 Sept.-11 Jan.) Prerequisites: Engr. 15B or a course in analytical mechanics-

statics; Math 110AB or 110C Text: Housner & Hudson, Dynamics, 2nd Edition, (Van Nos-

Fundamental ideas of dynamics; kinematics and kinetics of particles and rigid bodies; motion relative to moving reference frames; work-energy and impulse-momentum relationships. Subjects are treated in terms of modern vector techniques. *Engineering XL 117A, Applied Electromagnetic Theory (4) \$60

Instructor: R. G. S. Sewell, M.A., Physicist, Weapons Dev. Tues.-Thurs., 4:30-6:30 p.m., Training Bldg. Rm. 203 (30

meetings, 15 Sept.-7 Jan.) Prerequisites: Engr. 100B or equivalent

Recommended Text: Plonsey & Collin, Principles and Applications of Electromagnetic Fields, (McGraw-Hill) Static electric and magnetic fields, Maxwell's equations and their application to a variety of engineering problems. *Engineering XL 160D, Aeroelasticity (3) \$45

Instructor: W. J. Werback, M.S.E., Head, Structural Mechanics Br., Weapons Development Department Mon.-Wed., 4:30 6 p.m., M.L. Conf. Rm. A (30 meetings, 14

Prerequisites: 160A, 160B, 181A, or consent of instructor Text: Bisplinghoff, Ashley, Halfman, Aeroelasticity, (Addi-

son-Wesley) Analysis of the areoelastic problems of divergence, control reversal, flutter, and transient response including related topics in vibrations, structures, and unsteady aerodynamics. Solutions by both assumed mode and matrix methods will be stressed. *Engineering XL 181A, Linear System Solutions by Transform

Methods (3) \$45 Instructor: R. M. McClung, M.S., Head, Instrumentation Division, Aviation Ordnance Department

Tues.-Thurs., 4:30-6 p.m., Training Bldg. Rm. 205 (30 meetings, 15 Sept.-7 Jan.) Prerequisites: Engr. 100A, 102B, 104A; Math 110C or 110AB Texts: Thomson, Laplace Transformation, (Prentice - Hall)

Carslaw & Jaeger, Operational Methods in Applied Mathematics, (Dover) Formulation and solution of equations of behavior of linear electrical, mechanical, and thermal systems by the Laplace-

transformation methods. Applications of the transform method *Engineering XL 198, Impulsive Loads-Elements and Applica-

tions, Part I (3) \$45 Instructor: J. Pearson, M.S., Head, Detonation Physics

Mon.-Wed., 4:30-6 p.m., M.L. Rm. 20108 (30 meetings, 30 Sept.-27 Jan.) Text: Rinehart & Pearson, Explosive Working of Metals,

(MacMillan) Part I of a course dealing with the nature of impulsive loads (such as are produced by detonating explosives and impacting jectiles); the interaction of such loads with surrounding media; the behavior of materials and the dynamics of systems under impulsive loads; techniques of study; and industrial and military applications

Mathematics XL 110A, Advanced Engineering Mathematics (2)

Instructor: W. B. Stelwagon, M.A., Mathematician, Research

Mon.-Wed., 4:30-6 p.m., M.L. Rm. 1000 (20 meetings, 14 Sept.-23 Nov.) Prerequisite: Math 4B

Text: Sokolnikoff & Redheffer, Mathematics of Physics and Modern Engineering, (McGraw-Hill)

Ordinary differential equations and orthogonal functions, partial differential equations, line integrals, Green's theorems, vector analysis, solution of equations.

*Mathematics XL 120A, Probability and Statistics (3) \$45 Instructor: E. A. Fay, Ph.D., Mathematician, Research Dept. Tues.-Thurs., 4:30-6 p.m., M.L. Conf. Rm. A (30 meetings,

Friday, August 28, 1964

15 Sept.-7 Jan. Prerequisite: Math 108 or consent of instructor

Text: Parzens, Modern Probability Theory and Its Applications, (Wiley) Basic laws of probability, discrete and continuous random variables, expectation, distribution, limit theorems.

*Mathematics XL 122A, Advanced Calculus (3) \$45 Instructor: C. A. Flanagan, M.A., Mathematician, Research

Tues.-Thurs., 4:30-6 p.m., M.L. Conf. Rm. C (30 meetings,

15 Sept.-7 Jan.) Prerequisite: Math 108, or 110C, or 119A.

Text: Taylor, Advanced Calculus, (Prentice-Hall)
Fundamentals of calculus from a more advanced point of view. The real number system; continuous functions. General theory and application of partial differentiation. Implicit function theorems. Vector fields. Line and surface integrals. Point set theory. Theory of integration, Infinite series. Uniform con-

*Mathematics XL 136, Numerical Methods in Algebraic Problems (3) \$45

Instructor: W. B. Johnson, Ph.D., Mathematical Statistician, Mon.-Wed., 4:30-6 p.m., Training Bldg. Rm. 203 (30 meetings,

14 Sept.-11 Jan.) Prerequisite: Math 119 A or consent of instructor.

Text: Faddeeva, Computational Methods of Linear Algebra, (Dover)

Computation with numbers of fixed precision - accuracy. round off, checking. Choice and use of tables. Applications wolving approximations with polynomials-finite differences, interpolation, extrapolation, numerical differentiation and integration. Computation with continued fractions. Numerical approxmation to solutions or equations.

*Physics XL 112, Thermodynamics and Introduction to Kinetic Theory ()3 \$45

Instructor: F. K. Odencrantz, Ph.D., Physicist, Research

Mon.- Wed., 4:30-6 p.m., M.L. Conf. Rm. B (30 meetings, 14 Sept.-11 Jan.) Texts: Cears, Thermodynamics, (Addison-Wesley) Pippard,

Elements of Classical Thermodynamics, (Cambridge Univ.) *Physics XL 114, Mechanics of Wave Motion and Sound (3) \$45 Instructor: G. J. Plain, Ph.D., Associate Head, Research

Tues.-Thurs., 4:30-6 p.m., M.L. Rm. 20108 (30 meetings, 15 Sept.-7 Jan.) Prerequisites: Physics 115, 110A, 131

Text: Lindsay, Mechanical Radiation (1960), (McGraw-Hill) Fundamental aspects of wave propagation in fluids; reflection, refraction, interference and diffraction of sound. Dispersion and attenuation mechanisms; acoustic impedence; applications. Physics X 494, Electron Diffraction (3) \$45

Instructor: E. G. Bauer, Ph.D., Head, Crystal Physics Branch, Physics Division, Research Department Tues., 6:30-9:30 p.m., M.L. Conf. Rm. C, (30 meetings, 15

Sept.-7 Jan.) Text: None required

Scattering by atoms and molecules, diffraction by perfect and imperfect crystals, diffraction by crystal aggregates, diffraction of slow electrons, instruments.

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 117A, Applied Electromagnetic Theory Same as Engineering XL 117A. See above. Engineering 160D, Aeroelasticity Same as Engineering XL 160D. See above.

Engineering 181A, Linear System Solutions by Transform

Same as Engineering XL 181A. See above.

Part I Same as Engineering XL 198. See above.

Engineering 245A, Properties of Engineering Materials (3) \$45 Instructor: B. O. Seraphin, Ph.D., Head, Semiconductors Branch, Physics Division, Research Department

Tues.-Thurs., 4:30-6 p.m., M.L. Conf. Rm. B (30 meetings 15 Sept.-7 Jan.) Text: To be announced.

Application of solid-state physics to determination of structure and properties (mechanical) of engineering materials. Elements of X-ray structure analysis. Cohesive strength of ionic crystals and simple metals. Lattice imperfections, nonelastic behavior of solids.

Mathematics 120A, Probability and Statistics Same as Mathematics XL 120A. See above. Mathematics 122A, Advanced Calculus

Same as Mathematics XL 122A. See above. Mathematics 136, Numerical Methods in Algebraic Problems Same as Mathematics XL 136. See above

U.S.C. SCHEDULE OF CLASSES

REGISTRATION. Registration and payment of tui- tion 11ND-NOTS-12410/28 signed by his supervisor CLEARED STUDENTS WILL BE GUARANTEED ADnesday, September 9, in Michelson Laboratory, Con- projected work assignments) prior to the first meeting arrangement. Room to be announced. ference Room B: Tuition may be paid in full or ar- of class and receive a grade of "C" or higher upon rangements for deferred payments (\$5 service charge) completion of the course. Partial tuition refunds will can be made at this meeting. Persons who are not be made by the University to eligible employees who able to register at this meeting should contact the wish to withdraw prior to the sixth week of classes Registrar in the Personnel Building, Room 11.

refund (excluding the \$5 deferred payment charge), ference Room B during registration. an employee must submit one copy of NOTS Course ACCESS TO MICHELSON LABORATORY. Enrollees Enrollment Form and/or Tuition Refund Certifica- must have access to Michelson Laboratory. NO UN-

with a valid reason.

TUITION REFUND. To be eligible for a full tuition TEXTBOOKS. Textbooks will be available in Con-

tion for the fall semester will take place at 2:30, Wed- (indicating that the training is relevant to present or MITTANCE TO THE LABORATORY without prior

COURSE DESCRIPTION.

P. A. 591, Complex Organizations (4) \$160.00 Instructor: Jason L. Finkle, Ph.D., Associate Professor of Thursday, 7:00-9:30 p.m.

Prerequisite: Admission to graduate status in the School of P. A. Philospohy of science, theory and methodology in the social sciences, preparation of research designs, solv-

Tortuous Climb of Mt. Ararat Six China Lakers Enjoy Music Cam

One Man Goes Snowblind in The Ascent

(Continued from Page 1)

miles away by a visiting tribes-

There were now six of us in base camp, five experienced mountain climbers and myself. I had visions of spending about a week resting and getting acclimated at base camp, but these thoughts were soon shattered for I was told we were to move to the high camp in the morning. These men had waited two weeks for us to catch up with them and were very anxious to get onward and upward.

The next morning they decided that someone should stay in camp to guard all the equipment from marauding tribes, and I eagerly accepted the job for I thought I would have a chance to acclimate myself. I watched the other five disappear over the hill to Lake Kop, and I settled down to tend to camp

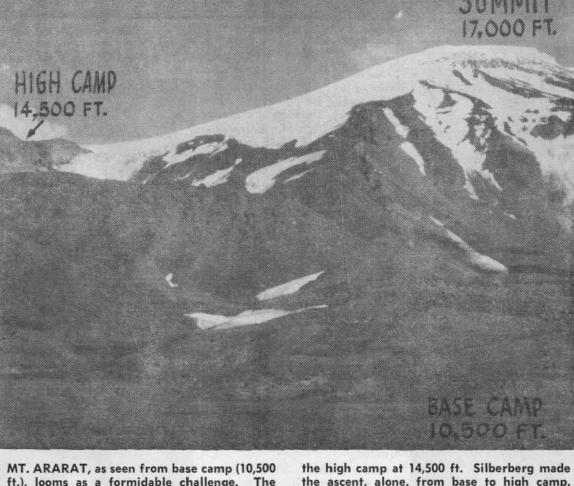
Critical Decision

Around noon two other members of the expedition arrived at base camp and since they had no desire to go any further, I decided to try to hike up to Our high camp commanded a easier than I had envisioned.

to do because the weather be- background. numerous in that area.

Since there were only two 2- of strong, nylon rope. man tents, and six of us at high | Every step was a potential glacier.

perature dropped to around 10 However my only thoughts at upper camp and headed for our degrees F, and four ft. of fresh the moment were to get to the 10,500 ft. camp. I had forgotten snow covered the ground when top, still breathing. dawn broke the next morning. Walking on the ice was much far behind the others, even



THE ROCKETEER

ft.), looms as a formidable challenge. The summit (17,000 ft.) is hidden by the ice-packed peak at right. At far left in rocky saddle is

upper camp by myself. I didn't tremendous view of the entire know where the upper camp frontier of Russia. We could was exactly, but I knew it was look down on the town of Erivan northeast side of the mountain, 4,000 ft. up over very treach- and I'm sure the people there we finally reached the summit. erous rock slides and glaciers. could see us in our bright down The wind was blowing about 40 This was really a foolish thing jackets against the white snow knots and the clouds kept the

camp, sleeping conditions were trip into bottomless crevasses, When we arrived at camp, we a little cozy, and needless to but I had the assurance of the discovered that one of the say, none of us got any rest at man in front of me that I would climbers had made the ascent only fall the length of the slack without dark glasses and was in the rope. Needless to say, beginning to feel the effects. The wind blew and the tem- I kept the slack at a minimum. We quickly broke down the



ALLIE'S BROTHER enjoyed brandishing his revolver when Silberberg aimed his camera. Allie and his family live in a Kurdish village at the 8000-ft. level.

then joined five others in climb to the sum-On the Summit

After searching the entire temperature down around 20 comes very violent in the after. The weather that morning below zero. The elevation was noon and if it had closed in on looked good to the climbers for very close to 17,000 feet but I me I would have had to find an assault to the summit. I found breathing no more difshelter under a rock and sur- asked them to let me rest more ficult than at the 10,000 ft level.

vive the night with the bears and catch my breath but they We proceeded to bury an ice and the wolves, which are were determined to go. I tight- ax on top so that those who ened my boots and tried to for- brought flags could tie them However, I dragged into get about the blisters. I had securely. After taking pictures upper camp before dark, much never climbed on snow and ice and congratulating each other, to the amazement of the other before and didn't know how I we headed downward with me five, and collapsed on a rock would function at this very high in the lead. The descent was completely exhausted! I man- altitude. I strapped my cram- much easier, in fact I found that aged to eat half a can of salmon pons on, tied a rope around my running got me there faster. and drink a cup of tea that midrift and eased on the ice But I was soon slowed down by night which seemed to nourish with my two companions who my companions, for had I tripme back into high spirits again. were tied to me with 100 feet ped on the slope we all would have hurled 3000 ft. down the

> how far it was and soon fell though they were carrying upwards to 80 lbs. The sun had set long before I came dragging into camp, where I immediately blindness to a point where we sible. The guides were going triumphantly.

The Hazardous Search

searching the ends of the ing doctor thought it best that We gave the guides sleeping glaciers where deep blue cre- we get our blind friend to a bags and they bedded down with vasses could easily hold the hospital as soon as possible. their horses on the open pasdous task due to the risk of ments for horses and donkeys base camp at night. son had finally turned the en-slides to cross. There were five rusty revolver. tire ice cap into a moving mass of us left in camp and we pre- We finally started down the ginning to appear everywhere. night — sauce and all. It was a good thing we had have been climbed in this melt- two guides. He informed us of ing their flocks up to the high ing condition now.

Enjoy Music Camp

Four new scholarship winners and two previous winners from China Lake returned recently from a 10-day stay at Arrowbear Music Camp.

Attending for the first time this year on scholarships were Wendy Sorensen, Gary Arnold, Steven Fountain and Joe Mallory. The two who had gone there previously and liked it somuch that they returned again this year were Pat Dalbec and Susan McEwen.

The scholarships were provided by the Music Parents Club. During the China Lakers' 10day stay there they gave three performances, at the camp and at Santa's Village. Arrowhead.

Public Works' Men **Attend Safety Meet**

Two Public Works' Transportation Division men, Walt Wilson, Operations Branch Head. and Bobby Brown, Personnel Transport Section Head, attended the 21st Annual Fleet Safety Meet held at the Roger Young Auditorium in Los Angeles last Wednesday.

The meet was sponsored by the Greater Los Angeles Chapter of the National Safety Council. Featured speaker was Nation-

al Safety Council's Edmund Fletcher who spoke on "Driver Selection and Driver Training.'



AFTER THE CLIMB-Back in base camp after their ascent of Mt. Ararat are (I-r, front) Roger Brown of Vail, Colo., and George Silberberg of NOTS; (rear, I-r) Dick Pownall and Dr. John Lunt of Denver; Gordon Mansell of Sherwood Forest, England, who was snowblinded, and Bud Crawford, Denver.

secrets of the ark. This was That evening three left for ture. The temperature gets found to be an extremely hazar- the valley to make arrange- down to 30 degrees F. in the

Told of Injury

Dick Pownall's son being in pastures. Our climbing companion had jured and that he would have to

climbed into my sleeping bag became very alarmed. When I to scout the North Eastern and passed out, but smiling looked into his eyes and saw tribes for evidence of some nothing but masses of infection, stolen articles. Our friend "Al-I was convinced that he would lie" insisted it was other Kurds The next few days were spent go blind. Our mountain climb- who had committed the thievery.

getting down inside and having for us. They had huge packs "Allie" and his brother arthe entire ice wall collapsing on their backs and were quite rived around 6 a.m. with six on you. Huge boulders kept brave to start off at the time burros and two horses. I decrashing down the glacier as (4 p.m.). Walking is treacherous cided to take some pictures and the sun would free them from base camp to the bottom Allie's brother insisted on being their icy prison. The warm sea- with many rocky washes and in them, brandishing an old

of blue ice, and water was be- pared a spaghetti dinner that mountain. I had an old grey mare for my transportation but it was far easier to walk. The climbed the ice cap when we Our Turkish interpretor show- morning was cool and clear and had, for I doubt that it could ed up with four horses and the shepherds were just bring-



I. Leo Ashkenas

Guard Named Editor ist; Anthony J. Durand, Electronic Mechanic; and Roland H. Of Calif. VFW Paper

of special pride to I. Leo Ashkenas, a member of the Pasadena Guard Force for the past nine years. It was his first issue as editor, having recently been ap-Past offices held are too nu-

pointed to this position. merous to mention but a couple The California Veteran, a were Post Commander and Dis-VFW publication, goes to all trict Quartermaster. VFW members in the State of California, 53,000 of them.

Active Since 1946

War II, in the South Pacific. Leo has been active in the It's a family affair in the VFW since 1946. Besides his Ashkenas household. Leo's wife, current position as Editor, he Sylvia, is past president of holds several other positions- Azusa local auxiliary, and Trus-Quartermaster of Azusa Post tee this year. Their older 8070, Junior Vice Commander daughter, Irene, is Public Relaof District No. 6 (covering from tions Officer of her auxiliary. Pasadena to the San Bernardino Judy, 15, has informed her dad County line and from South she will become active next Whittier to the Kern County year on reaching the age limit line), as well as being with the to join an auxiliary. Public Relations Department Azusa certainly has every for the southern half of Cali- right to be proud of the Ashfornia. He also serves on kenas family of 112 South Sunnumerous youth committees. set.

Winners Told

Bowlers End Play in Summer League

NOTS Friday Nighters Bowlis is held by John Aitchison.
ing League ended the summer On the distaff side, women's season last week in close com- scratch series goes to Jane Cagpetition. Team taking first hagen with 548; handicap series place by one and one-half to Dory Aitchison with 671. marks was the Tigers - Bill Holding high scratch game is and Irene White and Jack and Irene White with 216, who also Dawn Kindred. Second spot was taken by the 258.

El Toros - Leonard and Nova | Trophies for most improved Semeyn, Phil Foster, and Sam bowlers go to Jim Henry and Brown.

Third place winner was the Channel Kats - Jim and Phyllis Henry and Al and Jane Caghagen. Fourth place, the team play in the sweepstakes Beatles — Jack and Norma with Beatles second. Sayre and John and Dory Aitchi- Mixed doubles-Nova Semeyn

Season Honors

Honors for men's scratch Sayre with 1179. series for the season go to Bill Men's singles were taken by White with 605; handicap series Phil Foster, with Al Caghagen to Len Semeyn with 650.

Jim Henry with 234 takes | Women's singles were won by honors for high scratch game. Phyllis Henry, with Nova With 254; high handicap game Semeyn second.

takes high handicap game with

Dory Aitchison.

Sweepstake Honors

El Toros took first place in

and Phil Foster with 1218, with second place to Jack and Norma

second.

NOTS Pasadena

PROMOTIONAL **OPPORTUNITIES**

ROCKETEER

To apply for vacancies, contact Nancy Reardon, Pasadena Personnel Division, Extension 492. A current SF-58 must be submitted when applying.

Guard Supervisor, GS-7, PD: 24922 Am 1, Code P1914 - Incumbent has administrative and technical supervision of a guard force consisting of 5 sergeants in charge of shifts and 14 patrolmen on 24-hour duty. Responsible for physical security of all plant and classified material at Foothill, Morris Dam, Long Beach Range, and San Clemente Island.

PERSONNEL STATISTICS

New Employees

Administration — Franklin Lovell and Pasquale J. Ferraro,

Public Works-William Gentner, Plumber, and John W. Han-

Underwater Ordnance -James M. Alsup, Physicist; Leon A. Barton, Apprentice Machinist; Anthony J. Durand, Elec-Schuh, Jr., Electronic Engineer.

Terminations Supply-Hal Whilhite, Stock-

Public Works -Peter Keuning, Machinist.

Underwater Ordnance - Melvin Sweet, Mathematician,

Seat Belts

manufacturers.

LLOYD C. BERGHAGEN displays sports car race trophy



CHIEF FRANK J. FRENCH (r) is reenlisted by Lt. (jg) R. F. Bell, Assistant Diving Officer at the NOTS Diving Division, Long Beach.

at the NOTS Diving Division,

Frank J. French, BMCM (Dv), Long Beach, and is responsible Front seat belts are now USN, recently reenlisted at for directing and supervising Leo was in the Navy, a Hos- standard factory-installed equip- NOTS Pasadena for four years. diving operations at San Clepital Corpsman, during World ment on all cars made by U.S. Chief French is a Master Diver mente Island and Morris Dam. He entered the Navy in March

1938 and his first sea duty was aboard the USS Portland (CA 33). He completed Deep Sea Diving School, Washington, D.C. in March 1944, then was assigned to the U. S. Naval Mine Warfare Test Station in the Solo-

Chief French reported to NOTS from the USS Florikan (ASR 9) in August 1961.

He and his wife, Virginia, and their two youngest children reside in San Diego.

Berghagen Wins **Sports Car Race**

Lloyd C. Berghagen, an Industrial Specialist in Engineering's Industrial Process Branch, has another specialty - sports car racing.

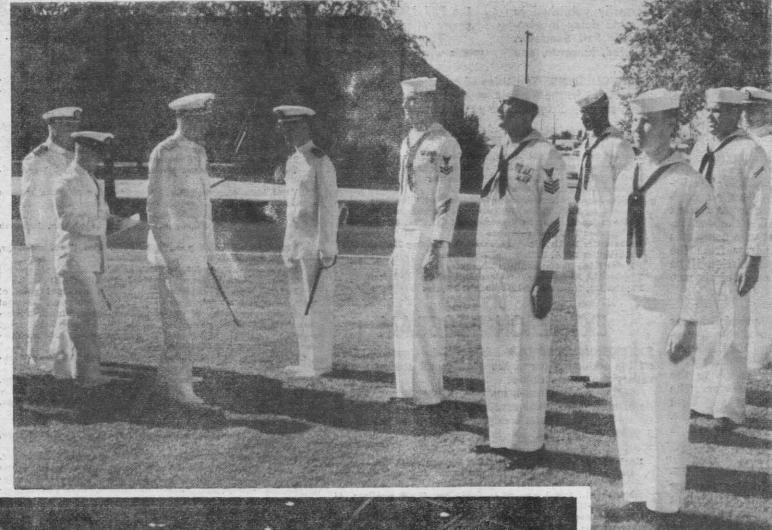
And to show for his newly acquired sport is a tall silver trophy. Lloyd has held his competition driver's license only since last Christmas.

Driving an Alfa Romeo Spider Veloce, Lloyd was recently on the winning relay team in the Olympic Fund Road Races held at Riverside International Race-

Previously, he came in eighth in a field of 20 after a "spinout" at San Luis Obispo the middle of August. He has his sights set now on a win at Laguna Seca in Monterey in Octo-

Lloyd does all his own overhaul and engine rebuilding work.

Three Groups 'Outstanding' in Inspection



MILITARY PERSONNEL underwent inspection by RAdm. M. W. White last Friday morning as a climax to annual admin/military check. (Top) Lt. (ig) M. E. McGovern greets inspection party checking NOTS Enlisted Division personnel. Capt. John I. Hardy (far left) accompanied RAdm. White. (At left) NAF personnel stood Commandant's in spection earlier in the morning. Capt. Robert R. Yount (third in line) escorted visiting flag officer through ranks.

To Salute Military At L. A. County Fair

Armed Forces and America's on the first Sunday of the Los Down 25,400 Since '62 Oct. 4. at Pomona.

the United States armed serv- has announced. ices Sunday, Sept. 20, with spe- The Federal civilian employcial entertainment and free en- ment total last month was 2,479,-

(Continued from Page 1) cited for special contributions. Among those was the Supply Department's Free Bin and Shop Stores systems.

Special Praise

Administration both at NOTS China Lake and NAF were rated 'Excellent," as was NOTS Personnel Department. The Information and Education programs conducted at the Naval Air Facility, rated as "Outstanding," commanded special praise from the inspector and were cited as a material contribution to personnel of that command.

Public Works at China Lake scored an "Excellent" along with component units at Pasadena and San Clemente Island.

A thorough, written critique is scheduled for distribution to appropriate officials here within the next two weeks.

Bluejacket . . .

(Continued from Page 1) lege, Desert Division, when sessions start next month.

"I like the Navy life very much, but I want eventually to return to the University of Nebraska for a degree in agriculture," he commented this week.

Jennings and his wife live at 232 Segundo.

Price in England To Present Paper

E. W. Price, Head, Aerothermochemistry Group, Research Department, presented an invited paper "Experimental Solid Rocket Combustion Instability,' at the Tenth Internation Combustion Institute Symposium in Cambridge, England last week. His paper, a complete survey

of the combustion instability problem, was enthusiastically received.

Because of the current interest among government - sponsored investigators regarding this subject, his paper has also been published as a NOTS report and has been given wide

Angeles County Fair, Sept. 18- Federal civilian employment delined by 25,400 between the The fair will pay special tri- end of July 1963 and the end bute to the men and women of of July 1964, the White House

trance to the grounds for all in 528. This was 19,600 below July 1962.

A 'Well Done' From Capt. Hardy to All

is a summation of the annual Admin/Military inspection conducted by the Eleventh Naval District. I would like to express my sincere appreciation to Civilian and Military personnel who participated in this event, and to all those whose efforts made possible the overall grade of Excellent given

Contrary to a time-honored belief, inspections are not conducted for the purpose of finding fault; instead, the ultimate objective is to determine areas of weakness and establish methods and procedures of improvement. This can be best achieved through the use of inspecting teams from the parent organization. I believe that my command was given the closest possible scrutiny by the COM 11 inspection team headed by the Commandant, RAdm. White, and I am very proud of the final rating assigned.

Because I have served previously at NOTS, and am well aware of the hard work, and excellent results, I would like to add my personal endorsement to the official rating. "WELL DONE!"

CAPT. JOHN I. HARDY, USN ComNOTS



ONE CENTURY OF FEDERAL SERVICE is represented by these Engineering Department employees as Department Head Kel Booty presents them with 20-year pins. Em-

ployees (I-r) are Nellie Fike, Bill Rice, Stan Creasy, and Art Pahkama. Pins were awarded at Department meeting.

CHAPLAIN'S MESSAGE

Salt of The Earth



By CHAPLAIN MARK E. FITE

The 1964 school year opens soon. There will be new classmates, new subjects, new activities and a multitude of exciting things for everyone. There will be opportunities that bid for

I overheard two teenage boys talking seriously. One said, "I have not been very popular this week, I've just been kinda usual." I think what he really meant by this statement was that he had not been in the limelight all the time nor had he tried to be so. He had simply been himself. But he had expressed a thought on a timely theme - the bid for a place in the sun.

It is certain that not everyone will be above average in all things. Nor will any person be constantly in the limelight. There inevitably must be the time one acts "kinda usual." We make a grave mistake when we cater only to the unusual.

There are some things quite common and usual but their value is everlasting. Salt and light are used each day and we are very dependent on them. In his Sermon on the Mount, Jesus refers to these as being like the good qualities in a Christian's life as he lives among other people.

These are abiding qualities that do not fluctuate. They are the ones that make life worth living, while certain popular ideas have their day and pass on.

Incidentally — this may be good reading for you before you enroll in your new class (Matthew 5, 6 & 7).

China Lake Film Society Lists 1964-65 Programs

The China Lake Film Society announced its selection of programs for the 1964-65 season this week. All the films will be presented at the Community Center

comic satire on war.

Second Half of Season

June 7 and 8 - I'M ALL RIGHT,

Drive to World's Fair

beginning at 8 p.m. The ticket-selling campaign starts next DAVID AND LISA, big Ameri-Monday, with full-season tickets can hit. Dec. 7 and 8—RASHO-MON, directed by Kurosawa. going for \$5 and half-season membership at \$3. Military personnel may nurchase season SOLDIER SCHWEIK, German those who have reinstatement rights:

File applications for above with Pat Detsonnel may nurchase season. sonnel may purchase season tickets at \$3.50, and half-season memberships at \$2.

Sales representatives on station are:

Dwight Holford, Code 11; Wayne Melton and Roy Metcalf, Code 12; Eleanor Johnsen and Sandy Schmick, Code 17; Helen Tharpe, Code 30; Bob Young, Code 40; George Handler, Tom Garcia and Len Pemberton, Code 45; Angie Damico, Code 50: Margie Rosenberg and Larry Mesple, Code 55; Jack Webb Code 65; Charles Nardone and If You're Not 18, Don't of Dick Johnsen, Code 75.

In Ridgecrest tickets may be purchased from Deone Ayres New York State law requires ducibility and deviation revisions. Sup at the Bank of America. In- be at least 18 years of age - engineering practices and related military gram is available at Sierra Outin another state. There are no ing and at least one year formation regarding the pro- even though he may be licensed specifico

in front of the Navy Exchange for two weeks beginning August for at least \$10,000/\$20,000 BI

13 - MAN IN A COCKED HAT, wise weakened. Tires must have worth rotation. spoof on diplomacy. Nov. 9 - at least 1/16 inch of tread.

The Rocketeer

"J." Bibby

Jack G. Broward

The Rocketeer receives Armed Forces Press

Office at 50 King St., Bldg. 00929. Phones-

71354, 71655, 72082.

cations should be accompanied by an upto-date Form 58. The fact that positions are advertised here does not preclude the use of other means to fill these vacancies. Clerk-Typist, GS-322-4, PD 18449 Aml-1,

on routin correspondence requesting project data, technical studies and reports, and loan of documents. Reviews and coordinates

lively responsible experience.
Electronic Engineer, GS-855-13, Code 163—
This position is located in Air Force's Systems Command Scientific and Technical Liaianalyzes research and development being erformed by the Station to keep informed in results of all endeavors which may have olication toward meeting Air Force requi

Evaluates status of information relative current capability by the application of broad knowledge of state-of-the-art in weap stems, hardware and processes and tech

iques in associated technical areas.

Makes the determination of what techn al data is of interest to the Air Force orga ations based on the thorough knowledge o olication in Research and Technology Note

in the Central Station Mail Room, Supervis the routing, distribution, and filing of all official incoming and outgoing correspond-ence, assumes difficult research problems, makes studies, trains new employees, and determines disposition of obsolete records. Qualifications Required: In addition to 11/2functions, applicants must possess 11/2 year

r issuance of supplies. Receives, checks stows, counts, or assembles supplies of all types in accordance with established supply

Systems, procedures and methods.

Qualifications Required: At least six onths' experience in duties described above.

General Engineer, GS-801-11 or GS-12, PD 055068, Code 5564—Makes engineering evalu-ations of drawings and specifications to in-sure function and producibility of newly de-Feb. 8 and 9 - LA STRADA veloped weapons systems and items. Main-tains liaison with vendors regarding pro-(The Road), (Frederico Fellini). March 8 and 9 - THE YOUNG ducibility and deviation revisions. Supe rsonnel who prepare drawings and speci-AND THE DAMNED, a Mexican classic. April 14 and 15 - EVE

erials, design and specifications. Must be JACK, a spoof on British trade and in-house personnel.

GS-802-9 or GS-11, PD 13989, Code 5564 sure function and producibility of newly deand Lynda Bussolini, employees that a motor vehicle operator personnel who prepare drawings and specifications. Must be familiar with aerospace

exceptions being made to this ence or if a technician should have at least Tickets will also be available rule. Also, New York law refive years engineering technician experience of the Navy Evenance quires that you carry insurance

and \$5,000 PD. Also, New York ders, Bldg. 34, Room 32, Phone 71393.

Police Supervisor, GS-7, PD 284013-2, Code Following is the schedule of films: Sept. 14 and 15 - RIFIFI, requires tires which are not line Worth, mointains order, enforces low a French mystery. Oct. 12 and worn, damaged, cut, or other- makes arrests. Incumbent is subject to

File applications for above with Pat Detfling, Bldg. 34, Room 28, Phone 72676. Dead-

SERVICE Official Weekly Publication U. S. Naval Ordnance Test Station Christian Science (Chapel Annex) Capt. John I. Hardy, USN

Morning Service—11a.m. Sunday School—11 a.m. Public Information Officer rotestants (All Faith Chapel) Morning Worship—8:30 and 11 a.m. Sunday School—9:30 a.m., Groves and

Richard Grueneberg Richmond elementary schools. toman Catholic (All Faith Chapel) **Budd Gott** Holy Mass-7, 9:30 a.m., and 5:30 Frederick L. Richards 6 a.m. Monday through Friday, 8:30 a.m. Bill Borgstadt, Sports
DEADLINES

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

Confessions-8 to 8:25 a.m., 6 to 8:30 p.m. Saturday. Thursday before first Friday-4 to 5:30 p.m.

photos unless otherwise Identified. Printed Every first and third Friday, 8:15 p.m ance with NavExos P-35, Revised July 1950 initarian Fellowship (Parish Hall) Fellowship Meeting-Sundays, 8 p.m.

NOTS Hebrew Services (East Wing All Faith

PROMOTIONAL **OPPORTUNITIES**

· VOCKETEER

apply for the positions listed below: Ap-

Code 1760-Incumbent provides general office services for the Accounting Division. Acts

Required Experience: Two years progre

26, Bldg. 34, Phone 72723. ...Mail and File Supervisor, GS-5, PD 17340, Code 8514—Responsible for the product and day-to-day operations of the employ

to mail room operations.

Warehouseman, \$2.62 to \$2.84 per hour,

Code 2591—Performs a variety of tasks in
connection with the physical receipt, storage,

WANTS TO SLEEP (from Poland). May 10 and 11 - THE ing and at least three years aerospace en gineering experience covering processes, may

Annual Catholic Picnic Tomorrow

The congregation of the NOTS Catholic Chapel will enjoy their Annual Picnic tomorrow at the Inyokern Park, from 4 to 10

The affair is sponsored by the Rosary Altar society and the Holy Name Society to promote parish sociability.

All you can eat and drink of a menu of hamburgers, hot dogs, home baked beans, potato salad and drinks of beer, coffee and soft drinks for \$1.00 for adults —50 cents for children.

DESERT PHILOSOPHER

Bristlecone Pine Facts



The ancient Bristlecone Pine Forest in the White Mountains of the Inyo National Forest is of worldwide interest; because in this forest are the oldest known living things on earth.

Not the biggest - but the oldest. The giant Seguoias in the Sierra are the biggest. The dwarf Bristlecone Pines are much older than the giant Redwoods.

Many are over 4000 years old. One is over 4600 years old. In 1953, Dr. Edward Schulman, Associate Professor of Dendrochronology, Laboratory of Tree-Ring Research of the University of Arizona, with Professor Frits W. Went of the Earhart Plant Research Laboratory of the California Institute of Technology (CalTech to you), went into the White Mountains of California to check on rumors of old trees there.

They study tree rings to make a chart of the changing climatic conditions over past millenia to predict what the climatic conditions will be in the future. This study was made possible by a grant from the National Science Foundation.

NOT SO OLD IN NEIGHBORING STATES

There are Bristlecone Pines in Utah, Nevada and Arizona but none so far discovered to be as old as this White Mountain

Dr. Schulman worked in the White Mountains for several years. He worked so hard at the high altitudes that his heart gave out, but I think he must have died happy, since he found and dated the oldest living thing. The Forest Service named the grove as a memorial to him.

The age of trees is determined from the growth rings trees add a growth ring each year. In dry years, a thin ring; in wet years, a thicker ring.

CORE BORED FOR STUDY OF AGE

A core is taken from the tree with a special tree boring instrument made in Sweden - about 1/4" in diameter. This doesn't do the tree any harm. The core is then glued to a wooden stick — shaved with a razor and the rings counted and studied under a microscope. Also Carbon 14 tests are made,

So — California retains the championship of the oldest known living thing on earth. And the biggest living thing is the giant Sequoias in the Sierra.

The oldest Bristlecone so far discovered - 4600 years plus - began growing before the Egyptian pyramids were built. It's been right there all the time. And it still produces pine cones occasionally and the seeds grow.

California seems to have a sort of monopoly of bigness and oldness. And it's only about 80 air miles from the oldest Bristlecones to the biggest Sequoias. Interesting!

BRISTLECONES LIKE ALKALINE SOIL

Bristlecones grow in a calcarious or dolomitic lime stone soil which is very alkaline. Nearly all other pines grow in acid soil — that's odd. The limestone is very white in color — that's the way the White Mountains got their name.

In a rain forest the biggest trees are the oldest. But the biggest Bristlecones are not the oldest.

One 700 year old tree is 30 inches high and 3 inches in diameter - It is growing under most adverse conditions. The core borer will leave no permanent hole in the bark - the tree's resin heals the wound.

Another, 100 years old, is several times as big. They add about an inch of tree rings each 100 years - on the average. The oldest tree is at 10,000 ft, elevation. The biggest at 11,200 ft. elevation. The most vigorous trees are much more resinous than the others. Something to think about

HOW TO GET TO SCHULMAN GROVE

It's 110 miles to Big Pine. Turn east ½ mile north of Big Pine onto Westguard Pass Road. Twenty-three miles after leaving Highway 395 you come to Schulman Grove — elevation 1000 ft. It takes about 31/2 hrs. from China Lake to Schulman

Batchelder Spring is the only water source along the road.

Half way up the mountain at 9000 ft. elevation there is a magnificient view of over 100 miles of the Sierra Nevada. It's a steep grade, but passenger cars in good condition can make it easily to Schulman Grove. Beyond there the road is rough sharp rocks chew up tires - take spares.

Recent Maturango Museum safari — 25 cars — all made it - five cars had flats from rocks above the Grove.

Area closes for winter soon, because of snows. The normal season is July, August and part of September. There is one Forest Service campground — dry camp — wonderful view



SPORTS REVIEW

BY BILL BORGSTADT

FIRST MATCH ON LOCAL COURSE

The Eleventh Naval District Seniors Golf Tournament sponsored by the District Recreation Office was completed recently and the NOTS entry of Captain B. L. McCreery and Don Fraser, PNC, took several honors.

There were matches at four different courses throughout the Eleventh Naval District and the China Lake course was selected for the first. The next match was played at Long Beach and from there play shifted to the San Diego area, first at the Admiral Baker Recreation Area Course and then to the Coronado Municiple Course in Coronado, California.

Participants in addition to the NOTS team included those from San Diego, Long Beach, Fleet at Long Beach, Marine Corps Recruit Depot and Camp Pendleton.

NOTS TEAM UNDEFEATED

The NOTS team distinguished themselves early by winning the first match and then continued to dominate tournament play by winning each succeeding match.

FRASER TOURNEY STANDOUT

Captain McCreery and Chief Fraser won the overall meeting in medal play, as well as capturing the low gross and low net honors. Chief Fraser was the tournament's outstanding golfer and received the trophy for individual low gross.

CLUB CHAMPIONSHIP BEGINS SOON

Paul Someson, PGA, urges all local golf members to sign up for the club championship tournament as soon as possible. The tournament begins on September 12 and the deadline for entering is September 7. It will be a match play, seven flight, elimination tournament, in which you play against golfers of equal handicaps, all competing for trophies of equal size within each flight. See the Pro for particulars and to sign up.

ATTENTION GOLFERS

One final note to local golfers - please repair your ball marks and replace all divots, (This request paid for by golf pro Paul Someson.)

PHILLIES A SHOO-IN?

After a slow second half start the Phillies have zoomed into a commanding 71/2 game lead. It will take a streak by the Giants, Reds or Cards like the Cards of last year (19 of 20) to make it interesting. Again, the Cards are most likely to do it.

It looks like the Yankees are out. Baltimore and Chicago show no signs of folding and since the Yanks have completed play with both these clubs, they will have to depend on other teams to do their work for them, certainly not the class of previous Yankee Teams.

Scene and Heard

ARMY SPORTS WRITER PICKED PHILLIES

An Army sports writer for "The Ranger" at Ft. Lewis, Wash., writes under the pseudonym "Horsehide Harbinger" and this is a year that could prove the name a worthy choice. Horsehide had plenty on the ball, indeed, to be the only one among 252 Armed Forces sports editors to pick the team-Philadelphia-that looks like a winner in the National

Horsehide's vote came out in an Armed Forces Press ed in playing football this sea-Service poll conducted when the first harbingers of the baseball season-spring training notices-began to draw the nation's attention. His contemporaries in the Navy, Air Force, Marine Corps, Coast Guard and on other Army posts apparently ignored the fact that the Phillies were the hottest club in either league the second half of the 1963 season. Horsehide remembered, however, and he also saw that Philadelphia had eager young ballplayers and potentially the best pitching staff in either league. The club, he writes, is reminiscent of the Phillie Whiz Kids who eked out a pennant victory in 1950.

In the poll, the editors tapped the Dodgers to repeat in '64 and the Giants to finish a close second, but you had to run down the ladder to sixth place before you found the Phillies. On record as the Armed Forces' only "official" Phillie backer, Horsehide is now in the books as saying, "I told you so."

With the season now about three-fourths over, Philadelphia still has plenty of time to fall apart and let another club win, although there isn't enough time for that other club's winning margin to be overwhelming. If the Phillies do fold, Horsehide and those who unofficially picked the Phils could still achieve a measure of glory for coming so close.

Actually, this could be a banner year for the military limbclimbers who took part in the baseball poll. In the National League, if third-place Cincinnati should sneak in, there are six Armed Forces sports editors who could say "I told you so." If Pittsburgh-another season-long first-divisioner, should turn torrid and win it-there's only one among 252 who can pound his chest. Of course the team with the best chance to wreck the Phillie wagon is San Francisco, but the Giants numbered 63 backers in the services. How must the 147 people who voted the Dodgers first in the poll feel these days?

PICKED YANKEES In the American League, 202 service sports editors made the Yankees a runaway choice. But, lo and behold, Baltimore and Chicago have occupied the top spots most of the season. The Yankees, being the Yankees, are far from out of it, but the chances of their losing out are frightening or excellent, depending on which side of the pin stripes you're on.

And if either the White Sox or the Orioles become the American League champs, each club has a select group of six backers wearing the uniforms of their country. at Lancaster, 8 p.m.

Local Woman Bowler Sets New Valley Record

ord for the Valley was set for man's league. Montana separated the women the action was centered around 525 men out of which 15 memfrom the boys. Della had a Chub Johnson and Jack Brown bers participated in the A.B.C. terrific night of bowling with last week as both had an excep- National Tournament held at



BRIEF PAUSE - English bal-Ierina Margaret Webb pauses before taking a dip in the pool. Lovely Miss Webb is a dancer in a Las Vegas night

Physicals Slated for BHS Gridders Monday at 7 p.m.

Reuben Tysell, Burroughs High varsity football coach, announced this week that physical examinations for boys interest- Sunday son will be given at 7 p.m., Mon- Daily . day, Aug. 31, in the school gym by Drummond Medical Center Daily physicians.

Season tickets for Burros home games are now on sale and can be obtained by contacting Mrs. Dorothy Monson at the high school office. The price is \$3.

listed for September and Octo- featherweight? ber below: sity vs. Bishop at Burroughs, 8 a point after deuce?

Saturday, Sept. 26, Burros called barnyard golf?

p.m., followed by varsity game can League first baseman to hit or more.

Saturday, Oct. 10, Burros varvarsity game at 8.

varsity game at 8.

Friday, Oct. 23, Burros Bees 3. Horseshoes. p.m., followed by Burros varsity Boston Braves, National League, We had a good turnout for ior varsity, 8 p.m.

games of 208, 215 and a 193, esting to recap last years bowl Another league bowling rec- That's great bowling in any ing.

her 616 series (scratch) with tional good night of bowling. Oakland, Calif.

of the night was "We Five" roll- Zinke.

1963-1964 Bowling Recap Before we start another sea- Tournament

Special Services **Activities Hours**

...... 9 a.m.-5 p.m. Noon-5 p.m. Bowling Alley No. 1 Open for League play after Labor Day.

Equipment Issue Room . 11 a.m.-1 p.m Thursday, Friday ...

Golf Course Daily to Sunset Gym & Weightroom 9 a.m.-6 p.m. Woodworking Shop Station Library Monday through Friday Station Theatre Station Swim Pool

SPORTS

1 - 5 p.m. edition. Weightlifting Room

Bowling Tourney

A handicap Moonlight Doubles bowling tournament will be held on Friday and Saturday 1. In boxing divisions which nights, Sept. 4 and 5 by the The 1964 football schedule is is heavier, bantamweight or China Lake Bowling Association at the China Lake Bowl.

2. In tennis, what is the Entrants may sign up for Friday, Sept. 25, Burros var- score when either side has won either a 6 p.m. or 8 p.m. shift on date preferred. Entry fee 3. What sport is sometimes is set at \$4.50 per couple. The handicap will be based

Bees vs. Bishop at Bishop, 2 4. For what team, in which on 80 per cent of 200 on the league and where did Babe Ruth entrant's high winter league Friday, Oct. 2, Burros varsity play his last major league average. If one was not estaband B teams vs. Tehachapi at game? Did he hit a homer? lished, a summer league average Burroughs. B clash starts at 5:30 5. Who was the only Ameri- may be used based on 15 games

.420 for a complete season? Answers to Quiz China Lake Bowl or call to resity and B teams vs. Pomona 1. Featherweight. Bantam-serve your preference as to date Catholic at LaVerne. B contest weight is not more than 118 lbs. and time at Ext. 72006. starts at 5:30 p.m., followed by and Featherwight is not more Tournament prize fund will

than 126 lbs. Saturday, Oct. 17, Burros var- 2. Advantage, to the one persons entered. sity and B teams vs. McFarland making the point. The umpire For those not familiar with High at McFarland. B contest calls "Advantage server," for a Moonlight bowling, all the

home runs. Friday, Oct. 30, Burros varsity 5. George Sisler with the St. guarantee you'll find it quite a Louis Browns.

The China Lake Bowling Aswomen last week when Della In the Sagebrush League all socation had a membership of

Chub rolled high game a very They are as follows: Burt fine 244 and Jack came through Andreason, Dave Boyd, George with high series which totaled Burden, Coy Chaddick, Maurice Coleman, Ken Dalpiaz, Bob Much attention was also Dausch, John Dragovich, Bob drawn by Russ Semore and we Lockwood, Floyd Maxwell, Jack salute him for the feat of con- Newman, Jim Poore, Howard verting the 4 - 6-10 split. Team Rutledge, Karl Wright and Dick

ing high game of 848 and Des- There were also 25 teams or ert Motors with a 2492 series. | 150 members that went to Bakersfield to enter the Calif. State

son of bowling it might be inter- The Indian Wells Valley Women's Bowling Assoc. had a membership of 355 this past year, eight of which live in Trona.

This year 13 teams of five women and 68 single and doubles were entered in the 5-9 p.m. California State Tournament for women.

Junior Bowlers

For the junior bowlers, Youth Bowling Assoc., membership is 3-11 p.m. divided into two groups. The 10 a.m.-11 p.m. Juniors age 13 to 18 enrolled Noon-11 p.m. 36 members forming eight 5-10 p.m. boys teams and six girls teams ... Noon-5 p.m. and the Bantams, age 8 through Community Center
Monday through Friday 8 a.m.-5 p.m., 6:30-10:30 p.m. eight boys teams with six members per team making a total ... 6-10 p.m. membership of 147 youths.

1,027 Valley Bowlers To sum up for all active or-3 p.m.-5 p.m. ganized league play, membership for the Valley registered 1,027 bowlers turning out week-. 6:30-8:30 p.m. ly and a number of keglers be-

long to more than one team. This is Bowling Week in south-6-10 p.m. ern California and time to warm 9 a.m.-5 p.m. up that pitching arm for the winter season. The alleys indicate there are still vacancies for winter league teams.

The success or failure of this column depends on your league 6:30 - 8:30 p.m. secretary reporting league closed news to Dick Zinke by Friday 1-5 p.m., 6:30 - 8:30 p.m. evening for the following week's

3-10 p.m. Moonlite Doubles Slated for Sept. 4,5

Couples may sign up at the

depend upon the number of

starts at 5:30 p.m., followed by service point, and "Advantage lights are turned off with exstriker," for the receiving side. ception of foul lights and on the pin deck. This is quite a chalvs. Quartz Hill at Burroughs, 8 4. Babe Ruth played for the lenge for the spot bowlers.

vs. Bakersfield High School jun- in Pittsburgh and hit three the last two tournaments, won't you join us in this one? We'll different tournament.

