### Page Twelve

ROCKETEER



END OF A WILD PARTY?-No, these Murray School music students are returning this accumulation of bottles to the Shopping Bag Market during a bottle drive held January 10, by the Murray School Music Parents Club. Moneys received helped to provide scholarships to Arrowbear Music Camp. Six instrumental and two vocal students will be selected to attend the camp during the auditions held in the Spring.

### **Orchestra Eyes** Second Concert

On Sunday, January 25, the as violin soloist with the or-Naval Weapons Center Theatre will again resound with the fine music of the Desert Community Orchestra in its second concert of the 1969-70 concert sea-

This concert, which is sponsored jointly by the Desert Community Orchestra Association and the Desert Campus of Bakersfield College, will consist primarily of a performance of lighter music, often referred to as "semi-classical."

The compositions for this concert have been carefully selected by the conductor, Comes Marching Home"; the Charles Wood, with two qualifications in mind: universal appeal and genuine musical worth.

The concert will feature a former resident of the Indian Wells Valley, Rosa Lee McKay,

ACROSS

1-Cushion

4-Decorate 8-Humorist

11-Macaw

13-Arabian

seaport

15-Reverence

19-Diphthong

21-Music: as written

23-Equal 25-Sign of zodiac

22-Man's name

26-Food program 27-Organ of hearing 28-Through 29-Young boy 30-Near 31-Followed 33-Greek letter 35-Beam 36-River island 37-Hindu cymbals 38-Reach across 40-High mountain 41-Pellet 42-Number 43-Pronoun 44-Goddess of healing 45-Conjunction 44-Goddess of healing 45-Conjunction 44-Goddess of healing 50-Evergreen tree 52-Falsehoods 54-Man's nickname 55-Base 56-Sicilian volcan0 57-Greek letter

DOWN

1-Equality 2-Exist

17-Attempt

20-Alcoholia

12-Danish island

**CROSSWORD PUZZLE** 

3-Stiletto

4-Mountain lake

9-Cyprinoid fish

5-Communist

6-Prefix: not

7-Slogan

8-Manner

10-Plague

14-Tidy 16-Ventilate

18-Sun god 21-Continue

23-Edible seed

24-Dine 25-Meadow 26-Parent (colloq.) 28-Lift with lever 29-Permit

31-Sunburn 32-Part of face 33-Crony (collog 34-Sick

3 24

chestra. Mrs. McKay, who now lives in the Los Angeles area, will perform a portion of the well-known violin concerto. Symphonie Espagnole, by Eduard Lalo.

This brilliant work has long been a favorite of both concert violinists and the concert-going public alike.

Other selections scheduled for this concert are: the "La Vie Parisienne" Overture by Offenbach: Morton Gould's "American Salute," based on the theme "When Johnny ever-favorite Strauss Waltz "Voices of Spring"; a special medley of past academy awards winning songs arranged by Henry Mancini; and the famous Hungarian Rhapsody No. 2 by Franz Liszt.

Answer to Puzzle No. 6

SORT DIM

44-"Lohengrin" heroine 46-Cut 47-Writing

51-Negative 53-Pronoun

888<sup>36</sup> | | 888<sup>37</sup> |

48-Speck 49-Nahoor sheep

ried

37-Angry outburs 38-Cease 39-Danger

41-Baker's product 43-Exclamation

#### The Desert Community Orchesert Association still is seeking donations and memberships to provide the necessary funds to successfully sponsor this season's concerts. A special appeal is made by the Orchestra's Board of Directors to all community-minded citizens at this time for their continued support.

The fact is stressed that the Desert Community Orchestra Association is a locally-supported, non-profit organization. which is solely dependent upon the community for its exist-

Not only is it an important link in the cultural chain of this area, but it also provides an opportunity for young, aspiring musicians to gain valuable training and experience under a professional conductor. Young students represent approximately one-half of the total instrumentalists in the orchestra.

Many different types of memberships in the Orchestra Association are still available and interested persons are asked to contact any one of the following individuals: Paul Riley (375-5836); John Bugav (375-2610); and Esther Guffy (446-2725).

Memberships, as well as individual tickets, will also be sold at the door on the evening of the performance.

### **New Version Of** 'The Gents' Swing At EM Nitery

Tom Moser, manager of the Enlisted Men's Club, has announced that the newly-reformed "Maxie and the Gents" will play for a dance at the club Friday, January 1 6, beginning at 8:30 p.m., until 1:30 a.m.

"It's the same Maxie, but the group now playing with him are all new," Moser was quoted as saying.

He cordially invites all club members and their guests to come and "rock out to the soul music of the new group.

#### SHOWBOAT NEW RATING PROCEDURES Future ratings for motion pictures hown at the Center Theater will be ased on two different types of ra familiar Parents' Magazine tings, and the new MPAA (Motion licture Association of America) ratings (The Parents' Magazine ratings wil tually be superceded completely by he MPAA ratings.) The rating designations are: MPAA\* (G)-General audiences (M)-Mature audiences, parents use discretion (R)-Restricted, persons under mitted only with parent or guardian. PARENTS' (A)-Adult (Y)-Youths 13-17 (C)-Children 8-12 (M)-Mature for Y & C FRIDAY JANUARY 16 "SOME KIND OF NUT" (90 Min.) Dick Van Dyke, Angie Dickinson 7:30 P.M. (Comedy) A bank teller in a New York

bank (Dick Van Dyke), grows a beard and refuses to shave even though spurned by his fiancee. Fellow workers grow beards and are joined by hippies and other beard supporting cast. Only his ex-wife Angie

Dickinson approves. Fun for all! \*(M) \*\*(A, MY) Short: "Never Bug An Ant" (7 Min.)

SATURDAY --MATINEE---"ATLANTIS THE LOST CONTINENT" (90 Min.)

Anthony Hall, Joyce Taylor 1:00 P.M.

Shorts: "Royal Catnap' (7 Min.) "Canadian Mounted" (No. 7, 13 Min.) --- EVENING---

> "THE SPLIT" (92 Min.) Jim Brown, Diahann Carrol, Ernest Borgnine 7:30 P.M.

(Action/Drama) He wanted to make last score before he retired-so he gathered some experts and robbed the Coliseum of \$500,000 in football receipts! That's when the real trouble started! (Adult)

Short: "Woody Freeloader" (7 Min." SUNDAY-MONDAY JANUARY 18-19

"THE LOVES OF ISADORA" (130 Min.) Vanessa Redgrave, James Fox, Jason Robards 7:30 P.M.

(Drama) The stormy public life of the famed dancer, Isadora Duncan, beautifully portrayed by the talened Vanessa, as the famous innovator of modern dance \*(M) \*\*(A, MY)

#### TUESDAY-WEDNESDAY JANUARY 20-21 "THE UNDEFEATED" (118 Min.) John Wayne, Rock Hudson,

#### Tony Aquilar 7:30 P.M.

(Western) John Wayne is back again in PLENTY of action. He is an ex-Yankee colonel who is driving a herd of wild horses to Mexico and Hudson is an ex-Confederate colonel escorting a wagon train of Southern emigres to Mexico \*(G) \*\*(A, Y, MC)

#### JANUARY 22-23 THURSDAY-FRIDAY "THE DARING GAME" (100 Min.) Lloyd Bridges, Nico Minardos 7:30 P.M.

(Adventure) A professor and his daugh-

ter, Bridges girl friend, are held captive on a remote island by a South American ers set out to infiltrate the island and emancipate its captives. \*\*(A, Y, C) Short: "Rowan & Martin at the

Lt. B. W. minds reside raid warning tested at 12 1 p.m. on th of each mon

From \_\_\_\_

# The Indian Wells Valley missioned Officers' Mess. Members who have not yet renewed are urged to do so by

paying chapter dues of \$3 per year, during the social hour that precedes the dinner, in order that they might vote. Prospective members are

cordially invited to attend, and bring their adult dependents, and may join in the election immediately upon paying of dues.

Any man or woman who has served or is now serving as a commissioned officer or war rant officer in any of the seven services is eligible to join the

requir ordered ns desirion may -8182, or er, 375-

STAMP

Min.)	ROA. Reservations are not		
Cummings re- nts that the air sirens will be noon, instead of e last Thursday th.	ed, and dinner will be from the menu. Persor ing further informatic call Albert Wilson, 375- Mrs. George Schneide 4291.		



NEW LEATHERNECK -Capt., Gerald H. Conner arrived recently to assume the duties of Aviation Ordnance Officer at the USMC Liaison Office. He is a graduate of Park College, Parkville, Missouri, with a degree in Economics. The 27-year Marine veteran enlisted as a private and received his commission in 1956. He and his wife Janie, have three children: Michael, 21; Craig, 13; and Carla, 12. They reside at 31-B Vieweg on the Center.

### **IWV ROA Will Hold Election Of Officers Jan. 21**

Chapter of the Retired Officers' Association will hold an election of officers for the coming year at their January 21 meeting, scheduled to follow a 7:30 p.m. dinner in the Com-

Dwight Atkinson, current first vice-president, will head a nominating committee and present a slate of candidates for the approval of the membership. Additional nominations will be accepted from the floor.

them."

man.

7401.

Friday, January 16, 1970



POSTHUMOUS PRESENTATION - Mrs. Henry H. Wair, mother of Lt.(jg) Rhio R. H. Wair, USNR, who was killed while in training status as a student naval aviator last August 26, holds her sons' wings, presented to she and her husband, Henry H. Wair (2nd from left), along with a Certificate designating Naval Aviator status. The posthumous designation was directed by VAdm. B. M. Strean, CNATRA, in recognition of young Wair's fine record of service. The wings and certificate were presented by Capt. L. A. Dewing, NAF Commanding Officer, at a ceremony held in his office. Capt. M. R. Etheridge, NWC Commander, who commissioned young Wair, was also present for the cere-

### **Many CHAMPUS Benefits Not Being Used By Uneducated Navy Families**

Many military families are vices Administration-are elimissing out on medical benefits be cause they don't know what they are, according to a Defense Department spokes-

The official said, "All of the military population that has rights under . . . CHAMPUS does not realize what these rights are, and as a result people who should be getting the benefits are not receiving

CHAMPUS is the official acronym for Civilian Health and Medical Program of the Uniformed Services. Basically, it means that dependents of service members can get treatment by civilian doctors if military hospitals are not available.

Actually, dependents of members in all of the Uniformed Services-including the Commissioned Corps of the Public Health Service and the Environmental Science Ser-

#### TAX REDUCED

Pay checks distributed today reflect the new reduced tax rates enacted by the Tax Reform Act of 1969. New withholding tax rates released by the Internal Revenue Service have taken into account the reduction in income tax surcharge from 10 percent to 5 percent, and the new low-income allowance. Details on the rates of withholding are being distributed in NAVWPNSCEN

Charity Deduction Changes, and Increased Health Benefits Amounts will be reflected on pay checks distributed January 30. Specific information regarding the latter will be forthcoming in a future issue of the Rocketeer.

gible for CHAMPUS benefits. Also eligible are retired members and their dependents; and dependents of deceased members

CHAMPUS pays benefits under two different plans. For military dependents, the cost is \$25 or \$1.75 per day, whichever is greater. The Government pays the remainder of the hospital charges and professional fees.

A special provision of the program allows the dependents service members serving overseas to use civilian facilities even though military services are available. Officials warn, however, that dependents should be careful to ascertain that the civilian facility is one which cooperates under the CHAMPUS program-not all do

delays in payment of CHAM- new Ford from Doug Butler of PUS claims continues to come from errors on the part of CHAMPUS beneficiaries.

It's important that correct and proper identification infor- a plaque, with photograph, of mation be entered in item 5 the January Bluejacket in the (identification card) of the Station Theatre, and an identiclaim form.

A large number of these pro- Jesus. blems occur simply because beneficiaries indicate the issue tive date. The correct effective date is the date shown in item 5B on the reverse side of the Uniformed Services Identification and Privileges Card (DD-1173).

Additionally, problems arise because beneficiaries simply fail to furnish any identification whatsoever.

gent has no choice but to withof proper identification infor-(Continued on Page 8)



Jan. 'Bluejacket' Honors **Given PN1 W.G.DeJesus** 

### **NWC Sailor Selected For** Excellence

PN1 Wilfrido Garcia DeJesus, known as "DJ" by his friends has been selected 'Bluejacket of the Month" for January. The NWC sailor is the leading Petty Officer in the Enlisted Personnel Office. "DJ" is a native of Plaridel, on the island of Bulacan, in the Phillipine Islands. He became a naturalized citizen of the United States on February 22, 1968

A 14-year Navy veteran, DJ attended the University of the East in Manila, and the College of Commerce. He is a graduate of the Class "P" School in the service.

Prior to his arrival at NWC in October, 1966, he served at NAS Barber's Point, in Hawaii.

As a result of his selection DeJesus will journey to Bakersfield with his wife. He will be met by representatives of the Bakersfield Chamber of Commerce, and interviewed on KERO-TV.

While in that city, the pair will be hosted by the Holiday Inn, 2700 White Lane, where they will receive their rooms and meals.

In addition, DJ will be given gift certificates from Bakersfield merchants, including: Brock's Department Store, 1918 Chester Avenue: Valley Office, 1622 Nineteenth Street; the Cue Ball, 2111 Chester Avenue; and the Kern County Museum, 3801 Chester Avenue.

Discount certificates will be provided the January Bluejacket from other Bakersfield merchants, all contained in a hospitality packet from the C of C.

Prior to leaving the local The largest single cause for area, DeJesus will pick up a Desert Motors, local Ford agency, which will be available for his use on his weekend trip.

Special Services will display cal plaque will be given to De-

DeJesus' selection insures his chance at the "Bluejacket of date of the card as the effec- the Year" Banquet held in October each year.

#### Family Man

DeJesus and his wife Pacita, called "Tita," by their friends, have three children: Roland, 11; Lilibel, 8; and Raymund, 5.

The two older children were recently granted U.S. citizenship. A story on this event was carried in the December 5, The government's fiscal a- 1969 ROCKETEER...

Tita is presently working on hold payment pending receipt her five-year residency so that she might join her family in attaining U.S. citizenship.



JANUARY BLUEJACKET-PN1 Wilfrido G. De Jesus, selected as "Bluejacket of the Month" for January, confers with LCdr. C. M. Bates, Commanding Officer of Enlisted Personnel at NWC, about an administrative problem. De Jesus is married and the father of three children, two of whom recently became naturalized citizens.

### **Commander To Address** Kern Outlook Conclave

Capt. M. R. Etheridge, Naval Weapons Center Commander, will join a panal of ten experts to turn the economic spotlight on Kern County's future when the annual Kern County Business Outlook Conference convenes January 21 at the Casa Royale in Bakersfield, Califor-

The meeting will get underway at 9:15 a.m., preceded by a "meet-the-speakers" coffee at 8:30 a.m. A luncheon session at 12:30 p.m. will conclude the half-day parley.

#### Military Influence

The Center Commander and Brig. Gen. Alton D. Slay, Commander of the Air Force Flight Test Center at Edwards Air Force Base, will present information on "The Military Sector and Kern County's Economy", as representatives of the military factor in Kern County's economy.

#### Prospects of 1970

Chosen for their insight into all major phases of the economy, the platform of ten informed speakers will discuss such questions as: "What factors will influence the county's growth and development in the year ahead?" and "How will Kern County's economy fare during 1970?" Keynote theme of the 1970 Outlook will be "Spirit of the 70s". The panel will "spell-out" anticipated trends in Kern County agriculture, industry, finance, tourism, education, petroleum and mining. and the military sector.

Held under the auspices of the Kern County Board of Trade, the economic outlook parley traditionally gives business, civic and governmental leaders a chance to look at economic prospects of the year ahead through the eyes of experts in a wide range of private and government enterprise. The 1970 BOC will focus on the opportunities and the problems facing Kern economy in the coming year, and its chief purpose is to help busi ness and civic interests obtain the best available information and opinion for planning more wisely and effectively for the future

Robert Bovee, BOC general chairman and Bryan Coleman, executive chairman noted that this economic congress will be more significant than ever since it will mark the beginning of a new decade-a new era (Continued on Page 8)

IN THIS ISSUE: SPRING SEMESTER COURSE SCHEDULE

The response of the member with

#### Page Two

## CHAPLAIN'S MESSAGE Man, Human **Only** In Community

### By CHAPLAIN GORDON A. READ

The old song says that "no man is an island." The implication is that no man can be truly human by himself; that is, man is only human in community.

I recall hearing recently the story of a chaplain starting a new job in a mental hospital. For the first two weeks, the chaplain reported to work at eight o'clock and went directly to the day room on one of the wards. He left at lunch time. returned after lunch, and remained until quitting time in the evening. He did this for two full weeks. By the end of the first week, some of the other staff members were saying, "He doesn't get around very much. I wonder when he's going to take time to read the hospital regulations and learn our procedures here?'

However, in spite of the grumbling, the chaplain continued. At the end of two weeks the chaplain knew every patient on the ward, and it soon became very evident that his ministry was highly effective. I think in spite of the rigorous academic preparation that most priests, clergymen and rabbis undergo, it calls for something more to be a man of the cloth.

To put this in something more of a biblical symbol, we recall the figure of Ezekiel, sitting overwhelmed and silent among his people by the river Chebar, not daring to speak until he was one in mind and spirit with his parishioners. (Ezekiel 3:15)

Time was when a common mind between minister and people could be assumed. They were all farmers together, or they were all tradesmen together. Today a chaplain or clergyman serves people in a score or more of trades and professions in which he has no experience.

However, the significant and vowed purpose of the ministry comes at the point of bearing witness to a message that is not limited by a particular trade union or a particular body of scientific knowledge. It is a message that has to deal with human values, values that tell who people are, tell what their relationships are with each other and with their creator.

The chaplain's secret of success in the mental hospital was that he took time to know the people with whom he was to work. Perhaps this is a secret that we can apply to our work, and make our work more than an island of activity.

For we must remember that man is only human in community, and only in community does he find the meaning of who he is.

### **Red Cross Announces Details Of** Life Saving Course At Center Pool

Saving course will be offered ing Saturday, January 24. Anyqualifying swimming examina- structors. tion that morning at 0800; the first class session begins immediately afterwards. Minimum age for those interested is 15.

This course will be followed by the only water safety aide/

The Rocketeer

U. S. Naval Weapons Center China Lake, California

Capt. M. R. Etheridge, USN

"J." Bibby Public Affairs Officer

Joan Taylor

Associate Public Affairs Officer (Acting)

Director of News Bureau

William P. Valenteen, Jr

Edito

Jack C. Lindsey

Lucille Edwards

PH1 Gary D. Bird, PH2 Delmar E. Hart,

PH2 Michael F. Krause, PH3 Maurice Dias,

PH3 L. H. Detweiler

Staff Photographers

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1958. Office at Nimitz and Lauritsen.

Tuesday, 4:30 p.m.

Tuesday, 11:30 a.m.

News Stories

Photographs

Editorial Assista

Instructor Robert Mayer an- water safety instructor class to nounces that a Red Cross Life be given this spring. All those who wish to work as life guards at the Navy station pool start- or swimming instructors this summer must be qualified as one interested must pass the either water safety aides or in-

> Anyone new to the area who is either a water safety instructor or aide is asked to call Marlene Crow, 375-7726, Carol Chatteron, 446-6468, or the Red Cross office, 446-2653, to register.

DIVINE

MANA SERVICES

Protestant (All-Faith Chapel)-Morning Worship-9:50 a.m. Sunday School-8:30 a.m., Chapel An-nexes 1, 2, 4 (Dorms 5, 6, 8) located opposite Center Restaurant. Thursday-Service at 5:00 p.m. (Organ Prelude at 4:45 p.m.)

Roman Catholic (All-Faith Chapel)-Holy Mass-7, 8:30, and 11 a.m. Sunday. Daily Mass-11:30 a.m. in Blessed Sac-

nent Chapel. Saturday, 8:30 a.m. Confessions—7 to 8 p.m. Saturday, and 8 to 8:25 a.m. Sunday.

NWC Jewish Services (East Wing All-Faith Chapel)-8 p.m. every first and third

Sabbath School-10 a.m. to noon, every first and third Saturday.

Unitarian Fellowship-(Chapel Annex 95, 95 ... 71354, 71655, 72082 King Ave.)-Sundays, 7:30 p.m.

(Continued on Page 8)

be filled.

ROCKETEER

PROMOTIONAL

**OPPORTUNITIES** 

Employees are encouraged to apply or the positions listed below. Current

applications (SF-171) or Standard Form 58 bringing your work history up-to-

date should be forwarded as described

below. The fact that positions are advertised here does not preclude the use

of other means to fill these positions.

Part of the ranking process of those

rated as basically qualified will be a supervisory appraisal form that will be sent to the employees present and most

recent previous supervisor. Selection shall be made without discrimination

for any non-merit reason and without

favoritism based on personal relation-

The vancies listed below the effective

Secretary (Dictating Machine Transcrib-er), GS-318-4 or 5, Code 4007, PD No.

to the Chaparral Program Manager's Of-

fice, Weapons Development Department

This position provides assistance to the

Program Manager and his Staff by per

ministrative duties related to the man

agement of the office such as, schedul-

phone and receptionist work, receiving

and replying to incoming mail, reviewing

fice. Minimum Qualification Requirements

Two years general experience for GS-4,

experience and 6 mon

cialized in accordance with X-118. Ad-

vancement Potential: GS-4 may be pro-

File applications with June Chipp, Bldg.

Voucher Examiner, GS-540-04 or 05, PD

No. 6925007, PD. No. 6925008, Code 2575-

The purpose of this position is to provide

Voucher Examiner services on Blanket Pur-

chase Agreements, Purchase Orders and De-

livery Orders against GS Contracts for the

payment of suppliers and/or services, which

ncludes processing of documents, follow-up

aison and correspondence. Minimum Qual

ements are one year of general ex-

to perform satisfactorily at the

ification Requirements: At the GS-4 level,

perience which is clerical or office work

grade level of the position and one year

of specialized experience which is supply

vork or closely related activities: (a) which

has required the applicant to acquire and

apply knowledge of the rules, regulations,

procedures and program requirements of

one or more areas of a supply system,

and (b) which has demonstrated the ap-

plicant's ability to perform at the level

of the position to be filled. The GS-5 level

quirements are the same as the GS-

of specialized experience. Advance

File applications for the above with Ca-

Supply Clerk (Typing), GS-2005-03, PD

No. 725021, Code 258-Incumbent estab-

lishes and maintains requisitions and orde

files and related correspondence, processes

procurement and receipt documents, receives

status cards from last holding activity and

takes action as required by the status

code on status cards. Also takes follow-up

action utilizing document identifier/media

and status codes indicated in the EAM for-

mat and acts through the required chan-

nels of teletype, telephone, autovon, etc.

Also maintains contract files of material

ments: GS-3 level-one year of general ex-

perience in clerical or office work of an

kind. Advancement Potential: GS-4 level.

PD No. 825024. Code 2522-Duties

Supply Clerk (Typing), GS-2005-03 or 04,

establishing authority for the shipment or

ssue of government property; preparation

of shipping documents; furnishing complete

shipment data; and maintaining records on all shipments. Minimum Qualification Re-

quirements: GS-3 level-one year of gen-

eral experience in clerical or office work of any kind. GS-4 level-one year of gen-

eral experience in clerical or office work

of any kind and one year of specialized

experience in supply work or closely re-

lated activities (a) which has required the

of the rules, regulations, procedures and

program requirements of one or more

areas of a supply system; and (b) which

has demonstrated the applicant's ability

File applications for the above with Ca-

Mail and File Clerk, GS-305-3 or 4, Code

role Cadle, Bldg. 34, Rm. 26, X-71648.

8514—Position located in Mail, File and Records Branch, Command Administration

Department. Routing of incoming corre-

pondence, filing, and record searching.

Minimum Qualification Requirements: GS-3

(trainee) 1 year of general clerical experi-

ence; GS-4 1 year of general and 1 year

Potential: GS-3 may advance to GS-4.

specialized experience. Advancement

perform at the level of the position to

applicant to acquire and apply knowledge

Minimum Qualification Require-

role Cadle, Bldg. 34, Rm. 26, X-71648.

evel except that it requires one ma

ment Potential: GS-5 level.

of any kind which has demonstrated the

moted to GS-5.

34, Rm. 26, phone 72676.

utgoing mail and other duties as may

ppointments and conferences, tele

ired to maintain an efficient of

GS-5 two and one-half years

forming a variety of clerical and

72-This position is that of Secretary

ships or patronage.

from 16 to 23 January 1970.

### EDITORIAL

## Tears, Fears, and Pride

(Editor's Note: The above composition was written by two Navy enlisted men from NAF who prefer to remain anonymous. The piece was originally published recently in the NAF Plan of the Day.)

Tears, fears, and pride. Three subjects that each and everyone of us are familiar with. To me tears, fears, and pride have a special meaning. The

tears come from joy and sorrow. My joy is when I hear of my country doing something to

improve world relations and trying to insure world peace. My sorrow is when I hear of all the young men of our country who have died because of war. Men who never really

got a chance to live a full and meaningful life. My fears are when I think someone is trying to impress

political ideas that one day may do great harm to our nation. There are a lot of people in this country, who think that we are in need of a change. Granted some changes are needed, but there are some people who try to influence a lot of young minds with a lot of wrong ideas. This is one of my major fears and should be the major concern of everyone in our nation who believes in our form of government.

My pride is when I realize I live in the greatest nation on Earth. This nation insures me of certain rights. These rights, unheard of in many countries, are freedom, justice, liberty, and the pursuit of happiness.

To understand these rights, one must first realize that freedom is not the right to murder, justice is not the right to take the law into one's own hands, liberty is not the right to do as one pleases, and the pursuit of happiness does not mean that a person will be happy.

They all mean that anybody, no matter what race, color, or creed, has the right to live an honest and meaningful life. With this in mind, thank God that I am not ashamed to say, "I am an American!"

### Reminder Special Services issued a re-

minder that January 16 is registration deadline for all those interested in signing up for the cake decorating class to be held in the Community Center beginning January 20.

Mrs. Betty Breitengross will be the instructor. For further information, call Ann Seitz, at Ext. 72010.

According to Lt. (jg) W F. Linsley, Navy Exchange Officer, the Navy Exchange Retail Store and Toyland will be closed for inventory January 24, 25 and 26. Following completion of inventory, both facilities will resume normal hours.



WINS ADVANCEMENT-Poly Cummings pins new LCdr. boards on the shoulders of her husband, LCdr. B. W. Cummings, NWC Security Officer, upon his recent promotion December 22 in Capt. M. R. Etheridge's office. LCdr. Cummings is a 27-year Navy veteran, who received his first commission July 1, 1957. He arrived aboard the Center August 1968, reporting from the USS Caliente, where he served as Operations Officer. The Cummings, who have two married children, reside at 54-B Ringgold, on the Center.

Inventory

substitute

the scoring.





Friday, January 16, 1970

Friday, January 16, 1970

#### ROCKETEER

Page Eleven

### Bryan Schuetze Fires 250-672 As Ace-TV Gains; R. C. Lanes Takes 18

Ridgecrest Lanes took 18 points from a hapless Tom's Place quintet Monday night and gained 5 points on the leagueleading Ace TV team, and 6 points on Boyd's Auto, who still hold down second place.

game and a 2886 series to lead the league in scoring. Ridgecrest Lanes had an even-1000

Bryan Schuetze shot games of 250, 211 and 211 for a big 672 series, 32 sticks ahead of Jack Herbstreit's 248-640. Jim Ball had 236 and 618, and Thad Brightwell shot 212, 201, 189 for a 602

Othe games of note; Sam Schoenhals, 234; R. C. Jones, 222; Joe Koksenski, 217; George Barker, 213-213; Jerry Steele, 211-202; George Bowles, 213; Maury Coleman, 212; and Craig Rae, 203-200.

Standings follow at the end of the page.

**Bantems League** 

Buford Branson had the high series for the boys last Saturday, hitting a 394, followed closely by Michael Lindsey's 370 and Tim Herbstreit's 363. Branson also had the high single boy's game, 148. Kenny Heeke hit 143 and John Barber had a 142.

In the girl's department, Kathy Burkhalter had a 468 to show the way, and Debra Smith won her 400 patch with a 412 series.

Debbie also had the high girl's game, 171. Sherry Ray, secretary of the

league, asked that bowlers not able to bowl on Saturday mornings call her, 375-9003, so that she may arrange for a

Thurs. Aft. Trio

The Grandmas continue to lead the league, a bare 1/2 game ahead of the Bowlaholics. Arrowsmith shot the high team game, 601, and Luana's Dress Shop took high team series with a 1655 effort.

Wilsie Olinger shot a 229 (with handicap) series to lead

Barbara Martin, Lil Elam, Marion Zurn, Maxine Cole and Viv Dalpiaz turned in some difficult split conversions.

Women's Wed. Hdcp. El Rancho Nogot shot 953

Ace-TV shot a 1007 single and Bud Evre Chevrolet 2733 to take the team game and series catagories last Wednesday (January 7).

> Pat Maddux was the big gun shooting a 209 game enroute to a 558 series.

Laurie Halen had a 145 triplicate and Sherry Ray and Mary Jane Clark picked up the 6-7 split.

Supply Dept. Ernie Diede's 226 and 559 were high for the men, and Bonnie Harkey's 199 and 508 led the girls at the meeting January 4.

The Splinters had a 861 game and Beyer's Coolers shot 2709 to lead team scoring.

Aline Fry made a 2-5-7 conversion

### Midway League

The Chillers regained first place after the league-leading Mixers dropped four games last Tuesday night.

NAF had high handicap game of 1138, and high game of 993. High individual scoring for single games were as follows; M. Baican, 226; Ed Simmons, 224; R. C. Bauers and Jerry Chambers, 219; A. C. Winslow, 214; C. Richards, 213; Maury Coleman, 209 and a 205.

R. C. Bauers' 589 was high individual series for the night. Prep League

The youngsters in the Prep League turned in some fine scoresscores this past week. Among them were: Annette Heeke, 100; Tony Pfau, 103; Pat Donohue, 104; Linda Herbstreit, 104; David Furstenberg, 104 and 119; Russell Preul, 109 and 119; Ronnie Morris, 128; and Kim McNew, 131.

#### PREMIER LEAGUE STANDINGS

	Won	Lost
Ace TV	204	136
Boyd's Auto	201.5	138.5
R. C. Lanes	182.5	147.5
C. L. Navy	178	162
AV Trophy	177	163
Starlite	172.5	167.5
Tom's Place	163	177
Kirkpatrick's	153	187
Mercury	153	187
Team No. 10	115.5	214.5

JOAD WINNERS-Winners of the various classes in the Junior Olympic Archery Development program archery tournament held recently, proudly display their trophies at the indoor range of the China Lake Bowmen. Left to right they are: Mark Loper, st, Jr. Boys; Kirk Bullock, 1st, Cadet Boys; Pam Bullock, 1st, Jr. Girls; Susan Valenteen, 1st, Cadet Girls; and Bryan Oland, 1st, Under 9. The JOAD program is an activity of the China Lake Youth Center. The trophies were donated by the VFW. The program is coordinated by Dick Bullock and Gordon Oland for the China Lake Bowmen.



ternoon

fuls during a practice session at the Center Swimming Pool. The girls are (I to r), Mary

### **Scores High In Basketball Games** At Center Gym

Loewen's Lions continued to dominate the China Lake Intramural Basketball League, defeating the Chaparrels 126 to 11 in the first game played or Wednesday evening.

NAF won two games, as did Ace-TV, to stay in the race. Scores for the week's past

games are as follows: Tuesday-LDS Church 37, VX-5 89; the Brothers 41, NAF 89; Desert Motors 54, Ace-TV

Wednesday-Chaparrals 11, Loewen's 126; NAF Officers 46, Genge 50; Hustlers 2, Brothers 0 (forfeit game);

Thursday-Hustlers 59, Ace-TV 84; LDS Church 54, NAF 62; Desert Motors 34, VX-5 47. Games are played Tuesday,

Wednesday and Thursday nights at 5:30, 7 and 8:30 p.m., The California Fish Com- quired for trout angling. at the Center Gymnasium.

All interested persons are invited to attend. Admission is free.

### **NWC All-Stars** Win A Squeaker At Barstow MCSC

The NWC All-Star Basketball team narrowly defeated Barstow Marine Corps Supply Center in a game played at Bar- Dope Cover Sheet Contest will stow Saturday, January 10, by a score of 70 to 68.

Local ball players who scorfollows:

Carson, 10; Clark, 6; Lyons, 23; Kissick, 2; Ayers, 6; Burke, 9; Hoagland, 2, and Johnson 12.

The All-Star team will play Norton Air Force Base at Norton, tonight, beginning at 7:30 p.m.



## **1970 Licenses Available For California Anglers**

week.

The new licenses will add a Angling licenses are issued wallets. They are designed in blue and gold and the inland fishing stamps feature the golden trout-California's state fish-in commeration of the 100th annicersary of the establishment of the state's first re- angling stamp (\$1) is required gulatory body to help preserve the state's fish resources.

### C. L. Ski Club **Hold Annual Hot Buttered Rum Fest**

The China Lake Ski Club will hold its annual Hot Buttered Rum Party Tuesday, January 20, at the Knemeyer residence, 508 Lexington Avenue, on the Center, beginning at 7:30 p.m.

Another Warren Miller Ski Film will be shown and a Slope be held.

Members may sign up for a beginner's weekend, which will ed and the point totals are as be held the weekend of January 24.

All prospective new members as well as others who are interested are cordially invited to attend. Further information may be obtained by calling Bill Sweatt, 446-2891, or Extension 72851

Sport fisherman will be able mission, forerunner of today's to purchase 1970 licenses from Fish and Game Commission Department of Fish and Game and Department of Fish and offices and license agents this Game, was established April 2 1870

touch of color to sportsmen's on a calendar year basis, and 1970 licenses are required beginning January 1, the DFG reminded anglers.

The basic resident license entitling the licensee to fish in the ocean, costs \$3. One inland for all species other than trout and a second \$1 stamp is re-

With some 2.2 million licensed anglers, California leads the nation in fishing license sales.

### **Pony-Colt League Schedule Election**

The Indian Wells Valley Pony/Colt League will hold an election of officers Wednesday, January 21, at 8 p.m. at the Las Flores School in Ridgecrest

Parents of boys who will be participating in the 1970 baseball season are urged to attend. Al those wishing to work in the Pony/Colt League this coming year may make their desires known at this meeting.

Anyone having questions regarding the meeting or the operation of the League are asked to call Gordon Peacock. 446-5782, or George Wright, 446-5093, or Clyde Hazen, 446-

#### Page Ten

sign engineers, the course content is extended to include areas of value to production, procurement, standardization, quality assurance and maintenance personnel.

INSTRUCTOR: Mr. Lloyd Gilbert, Corrosion Consultant for Rock Island Arsenal

Digital Processor Units - #106 DATES: To be announced.

TIMES: 0800-1530 Daily

LOCATION: Room 212, Training Center

SCOPE: This course is designed for technical personnel who will be designing, constructing, or repairing digital units. Participants will work with digital computer systems on the theory that a liberal amount of practical application is the best method of training. Upon completion of the course the participant will be able to design, construct, analyze and repair memory control, arithmetic, and I/O control units for digital processors.

Digital Systems Engineering

DATES: 5 days to be announced.

TIMES: 0800-1600 LOCATION: Room 205, Training Center

SCOPE: An intensive five-day program dealing with design of digital systems. The agenda includes typical digital systems; logic design; Binary arithmetic; coding and decoding systems; sampling theory; analog to digital and digital to analog conversion techniques; and mechanical encoding and code conversions. The objective is to provide an overview of engineering techniques for digital systems; point out the advantages and disadvantages of available memory systems; develop knowledge of control circuits and synchronized timing waveforms; and to point out the state-of-the-art of commercially available integrated systems

INSTRUCTOR: This course will be presented by a two-member team from RCA Institute for Professional Development. Hybrid Systems 108

DATES: To be announced.

TIMES: 0800-1500

LOCATION: Room 212. Training Center SCOPE: Designed to cover the aspects of analog computer principles; analog concepts, factors, plotters, recorders, and operations. A comparison of analog and digital systems will be made. Discussions will involve conversion procedures and the development of Hybrid systems and applications such as telemetry and control systems. Upon completion the participant will be familiar with construction characteristics of both analog and digital systems plus the methods for integrating analog and digital systems.

Integrated Circuits, Bipolar and MOS

DATE: 3 days to be announced. LOCATION: Room 205, Training Center

TIME: 0800-1630

SCOPE: This course is designed for design engineers and persons having a need to understand integrated circuits. The course contents will include the following:

The Economic Impact of Integrated Circuits **Basic Materials and Processes** 

Photolithography

Silicon Wafer Processing

**Process** Control

Integrated Circuit Assembly **General Reliability Considerations** 

Thin and Thick Processes

Basic Integrated Design Considerations Photomask Design and Layout

**Digital Integrated Circuits** 

Digital Integrated Circuit Systems

Linear Integrated Circuits Testing and Specifications

Fairule Analysis

Implementing Integrated Circuit Systems

MOS Integrated Circuits **Future** Capabilities

Review and Discussion of Topics of Specific Interest

to Group

**Final Examination** 

INSTRUCTOR: RCA staff members. Management Improvement Techniques III

DATES: To be announced.

LOCATION: Training Building INSTRUCTOR: Wm. Guthrie Associates

SCOPE: The Management Continuum, management work versus operational work, management vocabulary, cost benefit analy- NATURE OF THE PROGRAM - These courses are sis, forecasting, programming, scheduling and budgeting, reiterative process in planning, establishing standards of performance, correcting performance, setting objectives and participants' workshop with problem situations.

**Total Zero Defects** 

DATES: To be announced

LOCATION: Room 205, Training Center

Quality Assurance, Motorola, Inc.

zero defect program; how to initiate a ZD program; how to initiate a ZD program; the limitations of conventional pro-grams; a review of fundamental statistics; vendor zero defects; inspection, design, and management zero defect prin- gins immediately. To enroll, send your completed ciples and applications.

### SCIENCE & ENGINEERING DAY CLASS PROGRAM

Courses offered under this program provide specialized instruction and training in subjects closely related to the Center's mission wherein the material presented and discussed may need to be of a classified nature. The courses deal with the special problems of weapons research, design, development, test, evaluation, production, and use.

Admission is restricted to NWC employees and naval personnel and requires advance submission of the standard Course Enrollment form 11ND NOTS 12410/28 (rev 3-67) bearing the signature of the employee's immediate supervisor, and such additional signatures as the employee's department may require. Departments shall be prepared to list their nominees for enrollment in priority order in the event the number of requests for enrollment exceeds the specified limit.

The courses consist of 16 hours of instruction, Integrated Electronics for Technicians-Linear Integrated scheduled normally as one two-hour session per

ROCKETEER

viewed in relation to the various types of corrosion, water in- week during normal working hours throughout an trusion, galvanic, vapor corrosion, etc. Actual military equip-ment will be used to illustrate the problems which evolve when corrosion protection is not provided. While intended for de- course is recorded in the employee's personnel jacket. WINTER QUARTER

### S & E 6A-Terminal Ballistics

DATES: 3 February-24 March (Tuesdays)

TIMES: 0800-1000 (16 hours-8 meetings) LOCATION: Training Annex #1.

SCOPE: This course will include a survey of design of high explosive warheads and of their target-damaging mech High explosives, their safe handling and detonation. Effects of high explosives, including blast, fragmentation, shock loading. The shaped charge and fragment ballistics. Target effects, including: penetration; structural damage. Warhead design will also be included.

INSTRUCTOR: M. E. Bachman, Code 5007. S & E 24, Problems of Design Unique to Weapons

DATES: 4 February-25 March (Wednesdays)

TIME: 1430-1630( 16 hours, 8 meetings) LOCATION: Room 107, Training Center

SCOPE: This is a general course in design problems unique to the field of ordnance engineering, particularly as they apply to naval armament; the requirement for environmental, compatability, and operational reliability; explosive materials and safety in ordnance design; and human engineering and simplification

#### INSTRUCTOR: Ray W. Van Aken, Code 40603. SPRING QUARTER

S & E 5-Instrumentation and Test Techniques DATES: 6 April-25 May 1970 (Mondays)

LOCATION: Room 107, Training Center

TIMES: 1430-1630 (16 hours, 8 meetings) INSTRUCTOR: R. M. McClung

SCOPE: Survey of optical and electronic trajectory measurement devices; telemetering; thrust stands; instrumentations for measurment of explosive phenomena; data gathering and handling; steady-state and transient measurements; statistical testing vs. demonstration testing vs. destructive testing. S & E 6B-Terminal Ballistics

DATES: 7 April-30 April (Tuesdays & Thursdays)

TIME: 1300-1500 (16 hours, 8 meetings) LOCATION: Room 107, Training Center

SCOPE: This course will include a survey of design of high explosive warheads and of their target-damaging mechanisms. High explosives, their safe handling and detonation. Effects of high explosives, including blast, fragmentation, shock loading. The shaped charge and fragment ballistics. Target ef- Enrollment in the following courses starts immedifects, including: penetration; structural damage. Warhead design will also be included.

INSTRUCTOR: M. E. Bachman.

S&E 10-Technical Report Writing DATES: 7 May-25 June (Thursdays)

TIMES: 1430-1630 (16 hours, 8 meetings)

LOCATION: Room 107, Training Center

SCOPE: This course is designed for NWC scientists and engineers who must write in the normal course of their work. Built around the formal R & D technical reports, it also considers survey reports, progress reports, open literature articles, books, and symposium papers. It touches briefly on the problems of manuals, handbooks, and letter reports; it does not go into proposals, routine test reports, form reports, specifications, and similar documents. Material covered will include principles of communication, writing and publishing within the Government, writing techniques for presenting technical subject matter, authors' styles, preparation of illustrations and tabular matter, and the mechanics of technical writing. Writing assignments will be given to provide practice and individual coaching.

INSTRUCTOR: The course will be taught by C. E. Van Hagen, who for 15 years has been head of the Publishing Division, Technical Information Department. He is a Professional Engineer, was one of the founders of the Technical Publishing Society, has authored many publications including Report Writers' Handbook, has taught technical writing at NWC since 1950, and has presented this course in a variety of forms throughout the 12th Civil Service Region including such sities as San Francisco, Las Vegas, Pomona, and Honolulu

### **JOURNEYMAN & TECHNICIAN** DEVELOPMENT CLASSES

designed to make a variety of development opportunities available to artisans and technicians in a range of skill areas. The NWC courses listed contain a suggestion for suitable participants. These suggestions do not arbitrarily limit the kind of participant INSTRUCTOR: Mr. Keki R. Bhote, Manager of Value and accepted. Each supervisor should determine, with his employee, the courses most needed for each indivi-SCOPE: This two-day seminar/workshop will investigate the dual's development. The Programmed Instruction secphilosophy of zero defects; the planning and organizing of a tion of this bulletin offers many courses that should

> Course Enrollment Form 11ND/NOTS 12410/28 to Code 654. Enrollees will be notified of their enrollment status prior to the beginning of classes.

**Integrated Electronics Familiarization** DATES: 5 days to be announced.

TIME: 0730-1630

LOCATION Training Annex #1.

SCOPE: The course will begin with a discussion of the evolution of Integrated Electronics and its present applications. It will cover the basic principles of this technology and a brief description of the various forms and types of micro- NO. 211 INTERMEDIATE ELECTRICITY (ALTERNATING CUR electronics devices and the techniques used in their develop ment. A display of microelectronics devices will be provided to illustrate typical applications of integrated electronics cir-

Integrated Electronics for Technicians-Digital Integrated **Circuits** A

DATES: 10 days to be announced.

TIME: 0730-1630

LOCATION: Training Annex #1. SCOPE: The course begins by investigating the characteristics of integrated circuit constructinos and components. Specifications, operation, characteristics, applications and testing of various logic types, will be covered. The theory and use of metal-oxide-semiconductor field effect IC's will also be presented. Practical exercises will provide "hands on" experience with actual devices.

Circuits B

SCOPE: This course is designed to provide a useful combina-

Friday, January 16, 1970

tion of theoretical and practical information concerning some of the more commonly used types of linear IC's. Beginning with a comparison of discrete and integrated components, the course goes on to examine some representative examples of the major types of LIC's currently being used in military and nmercial equipment. In addition to the usual Conference-Practical Exercise format, there will be "guided investigations" into certain circuit characteristics.

The Science of Metal Cutting DATES: To be announced.

TIMES: 0800-1600

LOCATION: Room 205, Training Center

SCOPE: This course covers the various aspects and properties of metal cutting. Include dare: Factors of Mechinability. Plastic Properties, Effect of Temperature, Speed of Deformation Work Hardening, Cutting Theories and Practices, Cutting Forces, Analysis of Cutting Tools, Interpretation of all Factors Influencing Machinability; and Practical Applications Optimibed Tool Geometrics, Rough Cutting, Finish Cutting, Conventional Versus Scientific Cutting Techniques and Lubrication and Cooling.

INSTRUCTOR: Dr. Stephen A. Patkay is personally credited with discovering a wide range of metal behavior principles and many of the application techniques he developed have ome standard practice in machine shops. Dr. Patkay received his Masters and Doctorate Degrees in Mechanical and Industrial Engineering at the Technical University of Berlin, and also attended the Federal Polytechnical Institute in Zurich. He served as Assistant Professo ron the Faculty of Prof. Dr. George Schlesinger at the University of Berlin, lecturing on Industrial Engineering and Machine Tool Design. His subsequent work with firms throughout the U.S. and the European Common Market have marked him as an outstanding authority.

Report Writing for Technicians DATES: To be announced

TIME: 0800-1100

LOCATION: Room 201. Training Center

INSTRUCTOR: To be announced.

SCOPE: This 24-hour course will cover reasons for writing reports; style: data collections, identifications of readers and users; grammar, semantics, phrases, and clauses; paragraphs writing styles, formal and informal, technical levels; outlines and formats

### **HOME STUDY COURSES**

ately. Submit a NOTS Enrollment Form 12410/28 to Code 654. For further information call extension 72648 or 72686.

Course includes use of tools and materials, geometry of draw-

ing, lettering, orthorgraphic projections, pictorial and perspec-

Course includes instruction in the use of common hand and

power tools, fastening devices, measuring, laying-out, testing,

This course is intended to impart a basic knowledge of the ap-

plied use of physics in the mechanical field from the simpl

to the complex machines. A knowledge of the Fundamentals of

Machinery should be a requirement for any person entering

the Mechanical field. Review of mathematics, levers, block and

tackle, wheel and axle, inclined plane and wedge, the screw,

the gear, work power force and pressure, hydrostatic and hy-

draulic machines, machine elements and basic mechanisms

internal combustion engine, and, basic computer mechanisms

Course includes an introduction to electricity, voltage, current,

resistance, magnetism and electromagnetism, sources of elec-

NO. 112 BASIC CONTROL THEORY-CONTROL CIRCUITS-10

Course includes a study of basic control theory. electronic con-

trol circuits, pneumatic control circuits, electric control cir-

Course includes sources of water and impurities, elementary

arithmetic, elementary hydraulics, fundamentals of water and

This course is designed to provide the Boiler Operators, Boiler

Inspectors, and Maintenance Personnel with a working knowl-

guide for the proper day-to-day controlled care and treatment

NO. 117A and 117B BASIC AUTOMOTIVE MAINTENANCE AND

Included are handtools, measuring tools, portable power tools,

shop equipment and automotive hardware. Information on

proper procedures for soldering wires and connections is also

Course is designed to give practical information and problems

about the installation, operation, and maintenance of heating

Planning and lay out; plumbing tools; sewer systems and waste

disposal; structural openings, building drains and main vents;

routing-in vents and waste lines, cutting, calking and thread-

updated version of the course "Fundamentals of Supervi-

NO. 185 SUPERVISION AND MANAGEMENT FOR NAVY CIVIL-

Series and parallel alternating current circuits, inductance,

capacitance, motors, generators, transformers and instruments

are discussed in this course. A knowledge of mathematics to

the level of trigonometry and completion of course 212.

NO. 185 SUPERVISION AND MANAGEMENT FOR NAVY

This course satisfies 40 hours of supervisory training required

by the Civil Service Commission for potential supervisors and

new supervisors with less than six months in a supervisory

capacity. Course content includes: organization and manage-

ment; job planning; work simplification; leadership; selection

and assignment of employees; developing cooperation; main-taining discipline; group leadership; supervisor's role in pub-

lic relations; employee-management cooperation; Equal Em-

CIVILIAN PERSONNEL-40 Hours

ployment Opportunity; teaching on the job.

ing pipe; and testing and repairing waste systems.

sion for Navy Civilians" - Fome Study Course.

edge of the basic rudiments of boiler-feedwater. It presents a

sewage chemistry, personnel safety, records and reports.

NO. 111 BASIC PRINCIPLES OF ELECTRICITY-25 Hours

NO. 100 BASIC ARITHEMETIC-30 Hours Course includes positive whole numbers, common fractions.

NO. 103 BASIC DRAFTING-54 Hours

NO. 105 BASIC CRAFT TOOLS-40 Hours

triciy, energy and capacitators,

cuits, and introduction to instrumentation.

NO. 115 BASIC WATER & SEWAGE - 36 Hours

NO. 116 BASIC BOILER FEEDWATER MANUAL

of boilers and their related equipment.

Hours

REPAIR

facilities and systems.

RENT)

NO. 140A and 140B PLUMBING

IAN PERSONNEL

grinding, metal cutting, and safety precautions

**NO. 110 FUNDAMENTALS OF MACHINERY** 

decimals and percentages.

tive projecti

ROCKETEER

Page Three

## **COURSE SCHEDULE – SPRING 1970**

### PREFACE

This Course Schedule provides detailed information about programs and individual courses open to Center employees during the Spring 1970. The Schedule covers all courses that have been formally scheduled to date. It includes accredited university and junior college courses; on-Center short courses in a variety of areas; programmed instruction (Autotutor) and home-study courses.

These courses were developed largely in response to needs identified by the various departments of the Center through their inputs for training requirements during FY 1970. Departments are encouraged to continue working with their Personnel Management Advisers in the identification of training needs and to discuss development plans and courses.

#### WILLIAM R. RILEY Acting Head, Personnel Department

COURSES IN PUBLIC ADMINISTRATION Three graduate courses in Public Administration

USC

will be offered at China Lake by the University of Southern California during the Spring 1970 semester. An undergraduate major in engineering, business, or physical, biological or social sciences is acceptable as pre-professional blackground for Public Administration courses: Single courses can be taken for informa- EE 562 Random Processes in Engineering (3 Units) tion purposes, if an employee so desires.

PA 403 Administrative Systems Analysis (4 units) Dates: To be announced.

Location: Room 101, Training Building

Instructor: Dr. Robert Kistler

CONTENT: Introduction to system and organizational analysis; overview of electronic systems; developing work units and standards; procedures analysis and management planning.

PA 579 Behavioral Problems in Research and Development management (4 units) Dates: Class will meet on Tuesday evenings; starting date to

be announced. Location: Room 101, Training Building

Instructor: Prof. Paul Gruendemann, USC

CONTENT: Effects of R & D environment on interpersonal conflict; group orientations; behavioral change and adaptation; accommodating technically-trained professional men in modern organization.

PA 595 Organization and Management Theory (4 units) Dates: Class will meet on Monday evenings; starting date to

be announced. Location: Room 101. Training Building

Instructor: Mr. Ross Clayton, USC

CONTENT: Organization and management; the executive role; decision making; bureaucracy; authority and power systems; tactics and strategies in effective managemen

Registration: Mr. Philip Hutchins, USC Extension Division, will conduct registration in Room 107, Training Center, on Friday, 30 January 1970 at 1300. Mr. Ross Clayton will be available for consultation in Room 104 of the Training Center on Thursday 29 January 1970, from 1300 to 1630; on Friday 30 January, from 0800 to 1130.

Books for these courses will be on sale at time of registration

For further information contact Cathy de Wolfe

#### (Code 654) at extension 71480 or 71451. GRADUATE PROGRAM IN ENGINEERING

This program is designed to serve two purposes: (1) enable NWC employees to complete at China Lake six of ten courses required by the University of Southern California for a Master of Science degree in either Electrical or Mechanical Engineering and (2) afford those who want to advance their training by taking only certain courses an opportunity to do so. The curriculum as presently laid out spreads six courses over three semesters. The courses to be offered this Spring Semester include the third set plus two of the courses of the first set which was offered initially during the 1969 Spring Semester. Students who are not NWC employees may also enroll in these courses, but subject to availability of space and payment of tuition which is \$60 per unit of credit

NWC employees, whether enrolled in the courses offered last semester or not, must submit ouired signatures.

Students pursuing an advanced degree must take the Graduate Record Examination before they can be admitted to graduate status in the USC School of Engineering. Anyone wanting to take the examination should contact Eva Bien (Code 656) on extension 71577.

Students desiring to enroll in the program or having questions about the courses should contact the Education Director on extensions 72934 or 72926. Registration: Registration will be held in Room 107, Training Center, Monday through Thursday, 12-15 January 1970 from 0800-1100. Text books will be available for purchase prior to the beginning of classes on 29-30 January 1970. Late registration will be by appointment only. Those wishing an appointment can contact R. Fredric Ladda on extension 72686.

Classes Begin: ME Courses, Monday, February 2; X 125 Modern Analysis for Engineers (4 Units) EE Courses, Tuesday, February 3.

COURSE SCHEDULE EE470 Electromagnetics II ( 3 Units

CONTENT: Dynamic field theory and elementary solutions to Maxwell's equations. Introduction to propagation and radiation of electromagnetic fields. Topics covered include: skin effect, phase and group velocity, transmission line analogs, wave polarization, guided waves between plates and in common waveguides, resonant cavities, losses, coupling and Q. TEXT: Ramo, Whinner and Van Duzer-"Fields and Waves

in Communication Electronics" (Wiley, 1965) INSTRUCTOR: C. K. Bullock, Ph.D., Aviation Ordnance Departmen

TIME/PLACE: 1300-1430, Tuesdays and Thursdays, Room 107, Training Center

CONTENT: Random sequences and processes: concept of ergodicity; second moment theory; Gaussian, Poisson and Markhov processes; linear and nonlinear operations on random processes

PREREQUISITE: EE 464 Probability Theory for Engineers TEXTS: J. B. Thomas-"Statistical Communication Theory" (Wiley, 1969)

A. Papoulis-"Probability, Random Variables and Stochastic Processes" (McGraw-Hill, 1965) INSTRUCTOR: R. B. Leipnik, Ph.D., Research Department

TIME/PLACE: 0800-0930. Tuesday and Thursday. Room 107. **Training Center** EE 581 Linear Control System Design (3 Units)

CONTENT: Design of linear continuous and discrete control systems; Z-Transformation; introduction to statistical design. Techniques discussed will include lead and lag compensation based on Bode diagram, root locus design and Nyquist diagram design.

PREREQUISITE: EE 464 Probability Theory for Engineers or equivalent course. TEXTS: Saucedo and Schiring-"Introduction to Continuous

and Digital Control Systems" (Macmillan, 1968) Schwarz & Friedland-"Linear Systems" (McGraw-Hill, 1965) INSTRUCTOR: A. B. Gates, M.S., Engineering Department TIME/PLACE: 0945-1115, Tuesdays and Thursdays, Room 107,

Training Center

ME 518 Advanced Fluid Mechanics (3 Units) CONTENT: Subsonic, supersonic flow, shock waves, one-, two-, and three-dimensional compressible flow through channels and around bodies in equipment and machines; method of charac-

TEXT: Shapiro-"The Dynamics and Thermodynamics of Com pressible Fluid Flow." Vol. I (Ronald Press, 1953) INSTRUCTOR: R. W. Munt, Ph.D., Propulsion Development

TIME/PLACE: 0945-1115, Mondays and Wednesdays, Room 107, Training Center

ME 525a Engineering Analysis (3 Units) CONTENT: Typical engineering problems discussed on a phys-

ical basis. Setup and solution of problems by means of existing mathematical tools, utilizing in particular matrix algebra, vector analysis and complex variables. TEXT: Wylie-"Advanced Engineering Mathematics" (Mc-

graw-Hill, 1966) INSTRUCTOR: J. J. Zenor, Ph.D., Systems Development De-

partment TIME/PLACE: 1300-1430. Mondays and Wednesdays, Room 107. Training Center

ME 575 Advanced Analytical Methods (3 Units)

CONTENT: Solution of engineering problems by methods of variational calculus, integral transforms and asymptotic func-

PREREQUISITE: ME 525a&b Engineering Analysis TEXT: Hildebrand-"Methods of Applied Mathematics" (Prentice-Hall, 1965)

INSTRUCTOR: N. W. Rees, Ph.D., Systems Development De-

TIME/PLACE: 0800-0930, Mondays and Wednesdays, Room 107, Training Center

### UCSB

The courses offered through this program are for the benefit of local personnel wishing to increase at the time of registration Enrollment Authorization their knowledge in specific areas. If the training Form 11ND-NWC-12410/41 (1-69), bearing the re- can be certified as job related, the enrollment fee can be waived.

To facilitate registration personnel are requested to notify the Education Director on extensions 72934 or 72926 of their interest in specific courses prior to the formal registration period. Late registration will be by appointment only. Those wishing an appointment can contact R. Fredric Ladda on extension 72686

NWC personnel may enroll without payment of registration fee if they submit at the time of registration NWC Enrollment Form 12410/28 certifying that the course meets training needed in the performance of official duties.

Students who are not NWC employees may also enroll in these courses, but subject to availability of space and payment of tuition which is \$20 per unit of credit.

### WINTER QUARTER 1970

CONTENT: A two-quarter course in advanced engineering mathematics. This first quarter portion deals primarily with advanced calculus topics such as Naive Set Theory, Real and Complex numbers, Naive topology, sequences and series of

numbers, continuity and derivatives in one variable, Riemann Stieltjes integrals, convergence of sequences and functions. PREREQUISITE: Analytic Geometry and Calculus

TEXT: Simmons-"Introduction to Topology and Modern Analysis" (McGraw-Hill, 1964) Text book order blanks will be available to order books directly from the publisher.

INSTRUCTOR: G. A. Hewer, Ph.D., Research Department TIME/PLACE: 1630-1830, Tuesdays and Thursdays, Room 205,

Training Center, starting 9 January. X418b Introduction to Operations Research II (4 Units)

CONTENT: Integer Linear Programming: Method of cuts, the branch and bound method, the traveling salesman problem. Non-linear Programming: Kuhn Tucker conditions, quadratic programming, general convex programming.

Dynamic Programming: Deterministic problems, including shortest route and separable convex problems. Deterministic Inventory Models: Economic lot size, production

planning and inventory issuing policies. PREREQUISITE: X 418a or consent of instructor.

TEXT: Hillier and Lieberman-"Introduction to Operations Research"

INSTRUCTOR: F. C. Reed, M.S., Research Department TIME/PLACE: 1630-1830, Tuesdays and Thursdays, Room 107, Training Center, starting 9 January.

X 437A Infrared Technology (4 Units)

CONTENT: Designed to provide basic understanding of physical background and engineering considerations for design of infrared systsms. Topics covered include: radiation laws; radiation calculations using black body slide rule, radiation tables, etc.; radiation sources: black bodies, carbon arcs, lasers, incandescent sources, globars, line and band sources, theory of infrared optical characteristics of media, Maxwell's equations optical constants, boundary conditions, reflection, transmission, scattering: optical properties of media: solids, liquids, gases; atmospheric optical properties.

TEXT: R. D. Hudson-"Infrared System Technology" (Wiley

Handbook of Infrared Technology, U. S. Printing Office Text book order blanks will be available to order books di-

rectly from the publisher INSTRUCTOR: R. A. Roberts, Ph.D., Research Department

TIME/PLACE: 1630-1830, Mondays and Wednesdays, Room 205, Training Center, starting 8 January. Contemporary Science and Engineering for the Senior Profes-

sional DATES: 9 January-6 March 1970

TIME: 1300-1700

LOCATION: Room 205, Training Center

SCOPE: The areas of consideration during the Winter quarter will include

**INFORMATION THEORY-Information and Sources** 

Noisless Coding Theorem Huffman Coding

Channels' Noisy Coding Theorem

Applications to Communication Systems

QUEUEING-Elementary Queueing Theory Applications to Communication Nets and Time-Shared

Computer Systems CONTROL PROCESSES-THEORY AND APPLICATION -

**Control Processes** 

State Variables

Feedback Control **Optimal Control Processes** 

Stochasitic Control Processes

Man Machine Systems and the Human Controller

The material to be presented breaks in two groups: The first deals with the topics of information theory and coding and is addressed to the problems of understanding the nature of communication and how to obtain reliable commu

After designing entropy as the measure of information, methods for coding noiseless information sources are described.

Following this, models for noisy channels are described and the definition of channel capacity introduced.

Finally, the fundamental coding theorem for discreet mem oryless channels is presented. This theorem describes the limiting performance one can achieve with a communication system. Methods for attempting to achieve this limiting behavior are also given.

The second group concerns itself with the subject of systems of flow with the amphasis on models where queueing delays occur.

A careful model for store and forward communication is developed.

The necessary queueing theory to solve the important meas ures of performance for these communication nets is then Solved are the optimum channel capacity assignments,

routing procedures and questions related to topology.

These notions from queueing theory are then extended

They are then applied to the modeling and analysis of

to develop models for priority queueing discipline.

INSTRUCTOR: Leonard Kleinrock, Ph.D. Associate Professor

of Engineering, UCLA. Degrees received: B.S.E.E., City Col-

lege of New York; M.S.E.E., Massachusetts Institute of Tech-

nology; Ph.D.E.E., Massachusetts Institute of Technology. Dr

Kleinrock is a consultant in the fields of communications sys-

tems, queueing theory and computers. He was formerly a

staff member of the Systems Analysis group at Lincoln La-boratory, Massachusetts Institute of Technology. He is the

author of Communication Nets: Stochastic Message Flow and

Delay, 1964, and 15 publications in the fields of communication

theory, queueing theory, time-shared systems and computers.

He is a member of Operations Research Society of America,

time-shared computer systems.

#### Page Four

IEEE, Association for Computing Machinery, Eta Kappa Nu. Tau Beta Phi and Sigma Xi.

INSTRUCTOR: Gary M. Connell, Ph.D., Assistant Professor Mechanical Engineering, UCLA. Degrees received: B.S.A.E., University of Notre Dame; M.S.M.E., University of New Mexico; Ph.D., UCLA. He has had industrial experience in the area of dynamics and control at Sandia Corporation and Aerospace Corporation. His research interests center around the areas of dynamics, control and attitude stability of areaspace vehicles. He is the author of five journal publications concerned with these topics. He also serves as a consultant to Astro Research Corporation and the Dalbrook Computing and Engineering Company. He is a member of AIAA and Tau Beta Pi.

#### **SPRING QUARTER 1970**

The courses listed are tentative. Additions or leletions will be made depending on requests and pre-registration. To justify the cost of presenting extension courses, a minimum enrollment will be required for each course offered. Registration for the Spring term will be the week of 16-20 March. Late registrations will be by appointment only.

To facilitate registration personnel are requested to notify the Education Director on extensions 72934 or 72926 of their interest in specific courses prior to he formal registration period.

Detailed information about course content will be distributed the week of 16-20 February. Planned courses are:

**TL 147 A Introduction to Metallurgy** 

DATES: Mondays and Wednesdays LOCATION: Room 107, Training Center

TIME: 15-30-1830

INSTRUCTOR: Dr. Hayes

**418** C Introduction to Operations Research III DATES: Mondays and Wednesdays

LOCATION: Room 201, Training Center TIME: 1530-1830

**INSTRUCTOR:** Dr. Roberts

X 406 Structural Design

DATES: Tuesdays and Thursdays LOCATION: Room 201, Training Center

TIME: 1630-1830 INSTRUCTOR: Mr. Werback

Instruction begins 1 & 2 April.

#### CONTEMPORARY SCIENCE AND ENGINEERING FOR THE SENIOR PROFESSIONAL

The Spring quarter will provide a review of nodern physics starting from an introduction to Quantum Theory. The course will be devoted to he fundamentals of atomic, nuclear and solid state physics and will include lectures on atomic structure, nterference spectroscopy, isotope and hyperfine structure, spectroscopy of gas lasers, crystal struc- May 8 ure, cryogenics, semi-conductors, junction transis- May 29 ors, integrated circuits, surface science, plasma physcs and nuclear physics. Experimental techniques and applications will be stressed. Discussion of instrunentation, energy production, power generation hrough fission and fusion, various experimental nethods for the study of matter, semi-conducting levices, ultra violet and infra-red spectra will lead to the practical applications which are of current nterest.

#### PHYSICS OF MATTER WITH APPLICATIONS Historical Introduction to Quantum Theory ..........S. George, Ph.D. Electromagnetic Spectrum and Energy Production;

.S. George, Ph.D.

Instrumentation and Applications; Elementary Spectroscopy

Atomic Structure/Interference Spectroscopy,
Zeeman Effect
Crystal Structure, Elementary Quantum
MechanicsJ. Fredrickson, Ph.D.
solid State Theory; Band Structure and
Electron DistributionsJ. Fredrickson, Ph.D.
Preparation of Semiconducting Materials;
Hall Effects, ThermoelectricityJ. Hutcherson, Ph.D.
jemiconductor Devices: Transport Theory, Diode,
Junction Transistor, FET, SCR.,
Integrated CircuitsJ. Hutcherson, Ph.D.
Cryogenics
Surface Science
Modern Experimental Methods for the study
of Matter
The Atomic Nucleus: Its role in the generation of

power through fission and fusion K. Luke, Ph.D. optical processes in solids. Optical Devices...J. Hutcherson, Ph.D. 125.81 Business 52-Introduction to Business pectroscopy of gas Lasers. Use of spectroscopy

in Plasma Physics U.V. and I.R. spectra,

Nature of the Program: These courses are taught 152.81 Business Administration 1B-Principles of Accounting by personnel from NPOLA. The subject matter is directly related to Government Contract Administration at NWC. If participants wish, they may apply for 155.81 Business Administration 18A-Business Law a certificate in Government Contract Administration after successfully completing eight of the planned courses. University extension credit is awarded. Stu- 641.81 Chemistry 1B-Qualitative Analysis dents are required to take examinations.

Registration: Submit a completed Course Enrollment Form 11ND/NWC 12410/28 to Code 654. For further information contact Code 654 on extension 182.81 Data Processing 50-Introduction to Business Data Proc-71480.

- Sovernment Contract Pricing X408.072 (4 Units) DATES: 9, 10, 16, 17, 23, 24, 30, 31 January 1970
- TIMES: 1900-2300 Fridays; 1800-1300 Saturdays
- LOCATION: Room 107, Training Building
- SCOPE: Pricing methodoligy, Methods of estimating, regulatory provisions limitations and weighted guidlines for various types of contracts. Accounting treatment of such costs as meterial, direct labor, overhead, subcontracting, etc., under varying circumstances. Pricing of spares and contract changes.
- Application of incentives related to the total price package. **Government Construction Contracts**
- DATES: 19-21 January 1970 (Session #1) 21-23 January 1970 (Session #2)
- TIMES: Session #1 0800-1630 Monday and Tuesday
- 0800-1200 Welnesday
- Session #2 1300-1630 Wednesday
- 0800-1630 Thursday and Friday
- LOCATION: Room 211, Training Center

SCOPE: This 21/2 day course will investigate construction contracts and problems unique to construction contracts. Topics to be covered are: how construction contracts differ from supply contracts; unique problems in funding, letting, administration, termination, penalties, and remedies; government rights and obligations with regard to subcontracts: formal advertising vs. negotiated agreements; determination of project goals and objectives; agreements: lump sum, cost reimbursable, redeterminable fixed price, and cost or fixed incentive, contractor performance; penalty, bonus and liquidated damages; contractor liability for non-performance of faulty performance; enforcing rejection and warranty rights and the changes clause in government construction contracts. Government Contract Negotiation X408.03 (4 Units)

DATES: 13, 14, 20, 21, 27, 28 Feb.; 6, 7 March 1970 TIMES: 1900-2300 Fridays: 0800-1300 Saturdays LOCATION: Room 107, Training Building

SCOPE: Management considerations in prime contract and subcontract negotiation. Precontract coverage. Negotiation of all types of cost and fixed contracts including multiple cost, performance, schedule, PERT, and interdependent incentives. Negotiation of changes, terminations, claims and appeals. Team concept of negotiations. Interfacing among the technical, administrative and financial operations. Defense marketing, Case analyses.

#### THE

## **DESERT CAMPUS** BAKERSFIELD COLLEGE

**RIDGECREST, CALIFORNIA 93555** 

### CALENDAR

January 5-27 Counseling and Registration by appointment College Aptitude and Placement Tests: Tues. and Thurs., 7:00-8:23 January 10 School and College Ability Test 8 a.m. Room M43, 3 units ....

Reading Placement \_\_\_\_\_\_ 10 a.m. (Prerequisite: English 1A.) English Classification \_\_\_\_\_\_ 10:30 a.m. 281.81 English 50—Introductory Composition 29 \_\_\_\_\_ Open Registration 5 to 8 p.m. \_\_\_\_\_ Open Registration 9:30 a.m. to 3:30 p.m. \_\_\_\_\_ Bookstore to open in Room C16 10 a.m. to 3:30 p.m. \_\_\_\_\_ Open Registration 9:30 a.m. to 3:30 p.m. January 28 and 29 ..... January 30 ..... January 30 . February 2-18....Bookstore open Mon. through Thurs. 4:30 to 7:30 p.m. February 2 \_\_\_\_\_\_ Instruction Begins English 60 or 62.) English 60 or 62.) English 60 or 62.) English 52—Reading Improvement Last day to drop a course without a recorded grade. Tues. and Thurs., 8:30-9:23 Easter Holidays—No Classes Room B03, 1 unit March 20 ..... March 23-27

..... Midterm Examinations ...College Aptitude and Placement Tests: structor.) School and College Ability Test 8:00 a.m. \*284.81 English 53-Business Correspondence 
 Reading Placement
 9:30 a.m.
 Tues. and Thurs., 5:30-7:00

 English Classification
 10:30 a.m.
 Room B.S.C., 3 units

English Essay Examination 11:30 a.m. , (Prerequisite: Level 2 classification or permission of in-Advanced Mathematics Placement 1:30 p.m. 292.81 English 60-Basic Usage and Grammar (Calculus) ..... ...... Last day to drop a class.

Memorial Day Holiday in lieu of May 30. Final Examinations June 3-9 June 12 ... Commencement Exercises (The Desert Campus reserves the right to make calendar changes

as necessary.) For additional information: Telephone (Area Code 714) 375-1548

### SCHEDULE OF CLASSES

To complete registration forms students need the IBM ticket number, which appears on the schedule at the left of the course title. For example, the IBM number for Biology 10 is 460.80. Also needed are the dates of entrance, which are February 2 for Mon.-Wed. classes, February 3 for Tues.-Thurs. classes, February 4 for Wed. classes, and February 5 for Thursday classes

Bakersfield College Desert Campus reserves the right to make schedule changes and to cancel any class.

\*Classes so marked are classes that may be taken on a creditno-credit basis. Students who are enrolled in courses which have been approved for this type of grading may petition for approval through their counselors. Only 3 units of credit-no-credit class may be taken each semester. The deadline to petition is Friday, March 13, end of the sixth week. A credit-no-credit class is one 666.81 Industrial Drawing 30B-Industrial Drawing which a student can choose to take either for credit or for no credit. All other classes are graded and must be taken for credit. Students may not audit a graded class.

### **EVENING COURSES**

FOR ADDITIONAL INFORMATION - SEE THE DESERT CAMPUS BULLETIN JANUARY 1970

Tues. and Thurs., 7:00-8:23

March 30-April 3 .

April 4

Room D27, 3 units . (Prerequisite: None.)

- Mon. and Wed., 5:30-6:53 Room D27. 3 units ... Mr. Backus
- (Prerequisite: Business Administration 1A.)

Tues. and Thurs., 8:30-9:23

Room D27. 3 units

(Prerequisite: Permission of the instructor.)

- Tues. and Thurs., 5:30-6:23 Lecture-Room D29B Mon. and Wed., 7:00-9:53 Laboratory-Room 4,
- .. Dr. Cleaves 5 units ..... (Prerequisite: A grade of "C" or higher in Chemistry 1A.) essing

Tues. and Thurs., 5:30-6:53

- Room 23, 3 units .
- (Prerequisite: None.) 185.81 Data Processing 56-Card Punch Operation
- Mon. and Wed., 7:30-10:00 Room A.A.S.L.I.
- Mrs. Massaro (Prerequisite: Data Processing 50 or approval of the instructor and ability to type 25 words per minute. May be taken 503.81 Mathematics A-Elementary Algebra concurrently with Data Processing 50 1st 6 weeks beginning Feb. 2 ending March 1.)
- 185.82 Data Processing 56-Card Punch Operation Mon. and Wed., 7:30-10:00

Room A.A.S.L.I. ..

Mrs. Massaro Tues. and Thurs., 5:00-7:23 (Prerequisite: Data Processing 50 or approval of the instructor and ability to type 25 words per minute. May be taken concurrently with Data Processing 50 2nd 6 weeks, beginning 505.81 Mathematics C-Plane Trigonometry on March 16th.)

187.81 Data Processing 60A-Data Processing Systems

Friday, January 16, 1970

Mr. Zaharias

Mr. Butler

Mrs. Grecu

Mrs. Maddox

. Mrs. Maddox

Mrs. Maddox

Mr. Selvera

Mr. Carlisle

Mr. Silva

Mr. Silva

Mr. Silva

Mr. Silva

Mr. Ladda

Mr. Ladda

Mr. Matulef

Mrs. Compton

Staff

Staff

Tues. and Thurs., 7:00-8:23 Room B02, 3 units .

(Prerequisite: Data Processing 50 or permission of instructor.) \*240.81 Drama 27-Theatre Laboratory: Acting, Production and Management

Tues. and Thurs., 7:00-9:53 Room Multi-Use, 1 unit .....

- Mrs. Schwarzbach (Class begins on Feb. 3 and ends on April 2, first 9 weeks.) (Prerequisite: None, Drama majors may not take on creditno-credit basis.)
- 830.81 Economics 1B-Principles of Economics Tues. and Thurs., 5:30-6:53
- Room D27, 3 units ...... .... Mr. Backus Prerequisite: Economics 1A.)
- 951.81 Electrical Technology 54B-Fundamentals of Electricity Mon. and Wed., 5:00-6:23 Lecture-Training Building, Room 212 Mon., 6:30-9:23 Laboratory-Training Annex 2 ...... Mr. Wood
- (Prerequisite: Electrical Technology 54A or permission of the instructor.) 957.81 Electrical Technology 66A-Vacuum Tube Theory-Com-
- munication Electronics

Tues. and Thurs., 5:00-6:23 Training Bldg., Room 203, 3 units .. Mr. Rieger (Prerequisite: Math 53A-B, Electrical Technology 54A-B, or

- permission of the instructor.) 001.81 Electrical Technology 50-Shop Practice
- Thurs., 6:30-9:23 Training Annex 2, 1 unit .....

structor.)

Tues. and Thurs., 5:00-6:23

Tues. and Thurs., 7:00-8:23

Tues. and Thurs., 5:30-6:53

grade in English 080.)

Mon. and Wed., 5:30-7:00

grade in English 080.)

Mon. and Wed., 7:00-9:53

Mon. and Wed., 7:00-9:23

(Prerequisite: None.)

Mon. and Wed., 7:00-9:23

Mon. and Wed., 7:00-9:23

Mon. and Wed., 7:00-9:23

Training Annex 2, 3 units

Training Annex 2, 3 units

Tues. and Thurs., 5:00-7:23

(Prerequisite: None.)

Mon. and Wed., 5:30-6:53

504.81 Mathematics B-Geon

Room M48, 3 units .....

\*303.81 English S-Spelling Improvement

927.81 Aeronautics 51-Instrument Flying

\*357.81 Journalism 11A-Principles of Editing

permission of the instructor.)

\*358.81 Journalism 11B-Editing Practices

\*359.81 Journalism 11C-Editing Practices

\*360.81 Journalism 11D-Editing Practices

(Prerequisite: Machine Shop 53C.)

964.81 Machine Shop 53B-Elementary Machine Shop

966.81 Machine Shop 53D-Advanced Machine Shop

Room M43. 3 units .....

Thurs., 7:00-7:53

students.)

Mon. 7:00-9:53

Room M44, 3 units .

Room 3, 2 units ....

Room 3, 2 units .

Room 3, 2 units

Room 3, 2 units

Mon. 5:00-9:53

structor.)

Wed., 5:00-9:53

Room 3, 3 units

Room 3. 3 units

tor)

Mr. Backus

Mr. Backus

.. Mr. Fryer

Room M45, 1/2 unit

294.81 English 62-Developmental Reading

\*299.81 English 67-Readings in Modern Fiction

Room M45, 3 units ...

English (80.)

Room B03, 3 units

English 080.)

Room B03. 3 units .

- ... Mr. Weir (Prerequisite: Permission of the instructor.) 002.81 Electrical Technology 61AB-Theory of Transistor Circuit Analysis
- Mon. and Wed., 5:00-6:23 Training Building, Room 203, 3 units ... .. Mr. Hughes
- (Prerequisite: Electrical Technology 59A.) \*253.81 English 1A-Expository Composition Mon. and Wed., 5:30-6:53
- Room M43, 3 units ....
- . Mrs. Hewer (Prerequisite: Level 1 classification or a grade of "C" i English 50.)
- Mrs. Hewer

- Staff (Prerequisite: Level 2 classification or a grade of "C" in English 60 or 62)

(Prerequisites: Level 2 classification or permission of in-

(Prerequisite: Level 3 classification or a grade of "B" in

(Prerequisite: Level 3 classification or a grade of "B" in

\*297.81 English 64-Language Study and Vocabulary Development

(Prerequisite: Level 3 or higher classification or a passing

(Prerequisites: Level 3 or higher classification or a passing

(Prerequisite: None (Required of students in English 50 or

1A who fail the spelling classification test. Open to all

(Prerequisite: Industrial Drawing 30A or two years of high

(Prerequisite: Aeronautics 50, an aviation background or

(Prerequisite: Journalism 11A or permission of instructor.)

(Prerequisite: Journalism 11A or permission of the instruc-

(Prerequisite: Journalism 11A or permission of instructor.)

(Prerequisite: Machine Shop 53A or permission of the in-

(Prerequisite: Math A or one year of high school algebra.)

(Continued on Page 9)

school drafting with grades of "B" or higher.)

#### (Continued from Page 4)

Room 3, 3 units ..... Mrs. Compton (Prerequisite: Plane geometry and grade of "C" or higher in either advanced high school algebra or Math D.) 506.81 Mathematics D-Intermediate Algebra Mon. and Wed., 7:00-8:23

Mr. Matulef Room M42, 3 units ..... (Prerequisite: Grade of "C" or higher in either one year of high school algebra or Math A.)

507.81 Mathematics 1-Mathematical Analysis Mon. and Wed., 5:30-6:53

Room D26. 3 units ....

Dr. Cleaves (Prerequisite: Math D or equivalent and Math C.) 512.81 Mathematics 6B—Analytic Geometry and Calculus II Tues. and Thurs., 5:00-6:53

Mr. Dinsmore Room M46. 4 units ..... (Prerequisite: A grade of "C" or higher in Math 6a, or permission of the instructor.)

527.81 Mathematics 53B-Advanced Math for Electronics

Tues. and Thurs., 5:00-6:23 Room 203, Training Annex 2, 3 units .... Mr. Patterson

(Prerequisite: Math 53A.)

\*532.81 Mathematics 080-Basic Arithmetic Tues, and Thurs., 7:00-8:23

. Mr. Butler Room 3, 3 units ..... (Prerequisite: None. If taken on a credit-no-credit basis,

it will not qualify the student for Math A.) 210.81 Office Skills 50B-Intermediate Typing .

Mon. and Wed., 5:00-7:23

Bus. Skills Center, 3 units .

(Prerequisite: Office Skills 50A with a "C" or higher or a year of high school typing with a "B" or higher or Office Skills 54 with a "C" or higher.) 600.81 Orientation 1-Educational Planning

Mrs. Cox

Mr. Rilev

Tues., 8:30-9:30

Room L34, 1/2 unit

(Prerequisite: None. Class begins on Feb. 3 and ends on Mar 31, 9 weeks.) 746.81 Physical Education 31A-Standard Red Cross First Aid

Tues., 8:00-9:53 Mr. White Room L36, 1 unit .

(Prerequisite: None. Class begins on April 7 and ends on June 9, 9 weeks.)

681.81 Physics 2B-General Physics Mon. and Wed., 5:00-6:53 Lecture

Tues., 7:30-10:15 Laboratory

Room D29A, 4 units ... Mr. Matulef (Prerequisite: Physics 2A.) 804.81 Police Science 52-Criminal Law

Wed., 7:00-10:00

Room L36, 3 units Mr. Fike (Prerequisite: Permission of the instructor.)

003.81 Police Science 67-Visual Perception As Applied to Law Enforcement Wed., 7:00-9:00

Room L38, 1 unit Dr. Harris (Prerequisite: Current employment in a law enforcement

agency or permission of the instructor.) 222.81 Secretarial Training 50B-Intermediate Gregg Shorthand Tues. and Thurs., 7:30-9:53

Bus, Skills Center, 4 units .... . Mrs. Grecu (Prerequisite: One year of high school stenography or Secretarial Training 50a with a grade of "C" or higher and concurrent enrollment in Office Skills 54, 50b, 60a or completion of 60a or equivalent.)

974.81 Welding 53A-Oxy-Acetylene Tues., 5:30-10:15

Room G03, Metal Shop, 3 units ..... Mr. Martin (Prerequisite: None.)

### **ON-CENTER SHORT COURSES**

Due to enrollment limitations nomination by a department does not necessarily guarantee admission to a course. Final selection will be determined by the Employee Development Division in cooperation with the cognizant training facility. Employees accepted for a course will be notified by their departments.

Digital Computer Maintenance Programming #104 DATES: 12-23 January 1970

TIME: 0800-1500

LOCATION: Room 212, Training Center

SCOPE: To introduce the participant to computer maintennace programming and to have him apply this knowledge by sucessfully writing machine language programs. The course is organized to make the student familiar with various types of computer programs, be able to document and flow chart programs, understand and apply programming considerations for both variable and fixed word length computing systems, and be able to write valid machine programs.

INSTRUCTOR: Personnel from Control Data Institute.

**Advanced Clerical Training** DATES: 13, 14, 15, 16 January 1970

LOCATION: Room 211, Training Building

INSTRUCTORS: Dr. Bertram Barer, San Fernando Valley State College; David Lewis, Management Center of Cambridge representatives from various Center Departments.

SCOPE: Techniques of Listening; Memory Training; Work Simplification; Common Sense and Your English; Human Relations; Telephone Procedures; Disbursing, Personnel; Travel and JAMTO.

Effective Reading Seminar

tories.

DATES: 12, 23, 30 Jan., 6, 13, 20, 27 Feb., 6, 13, 20 Mar. 1970 LOCATION: Room 107, Training Building INSTRUCTOR: Chester Jensen, Program Technology Labora-

SCOPE: Section - - Basic

Section II - Laboratory Section III - Advanced

This seminar has been designed to improve reading skills. Stress is placed upon techniques which develop greater comprehension and increased reading rates. Since enrollment is limited to 25 participants in each section, selection for the Basic Class will be based upon testing prior to the actual seminar presentation

Technical Writing for Engineers and Scientists

DATE: 16 January 1970 TIME: 0830-1600

LOCATION: Room 205, Training Center

SCOPE: This Workshop/Seminar is designed to cover WRIT-INK PROBLEMS: Why is writing English so difficult, how to improve, what management expects in technical writing. PREWRITING PLANNING: Determining objectives, analyzing the audience, choosing the best approach. HOW TO GA-THER AND ORGANIZE FACTS: Sources of information, preparing an outline, handling technical data. EFFECTIVE WRIT-ING: Bridging the writer-to-reader gap, readability formulas and how to use them, making the most of available time. EDITING: How to spot gobbledygook, adding emphasis, imROCKETEER

proving continuity. LETTERS AND MEMOS: The 4-5 formula, avoiding unnecessary letters, your letter as a "salesman." REPORTS: The function and importance of modern reports, classifying reports by format function and flow characteristics of good reports. TOOLS OF THE TRADE: Production aspects of writing, what engineers and scientists need to know about grammar.

INSTRUCTOR: Mr. Terry Ci Smith has a long record of professional experience in the technical friting field. He is presently an engineer at Westinghouse Defense and Space Center and is a staff member of the Radar Systems Department. His current duties include editing all engineering reports and proposals and serving as a writing consultant to all departments at the Defense and Space Center. He teaches effective writing in the Westinghouse educational program and lectures for the Management Center of Cambridge. He holds a B.S. in Aeronautics, has completed studies throughout the field of technical writing, is a Senior Member of the Society of Technical Writers and Publishers and the author of three books and numerous papers.

Managing Management Time DATES: 80, 21 January 1970

LOCATION: Room 205, Training Building

INSTRUCTRO: Wm. Oncken. The Wm. Oncken Company. SCOPE: A two-day seminar designed to help the manager better understand what is meant by "management time" and how better use of his time can be accomplished. Nine differend kinds of management time are defined and discussed. Management Improvement Techniques I

DATES: 26 Jan., 2, 9, 16 Feb., and 2 Mar. 1970

LOCATION: Room 101, Training Building **INSTRUCTOR: Wm. Guthrie Associates** 

SCOPE: MIT I is designe dto achieve improved job performance of participants by developing their abilities to be both better subordinates and better supervisors. Concepts of the Managerial Grid are employed to develop a workable philosophy of management. **Basics of Digital Integrated Circuit Systems** 

DATES: 26 January-20 February 1970

TIME: Morning Session: 0745-1130 (approximately 80 hours) Afternoon Session: 1230-1615 (approximately 80 hours) LOCATION: Room 205, Training Center

SCOPE: This training course will include numbering systems; digital codes, binary, octal and BCD mathematics; boolean algebra; graphical reduction techniques; mil std 806B; logic circuits; logic building blocks; logic design; basic computer systems programming; integrated circuits; IC specifications; large scale integration; practical exercises on digital logic trainers.

COURSE OBJECTIVE: To provide students with partical training in the fundamental concepts and state-of-the-art techniques required to effectively design, evaluate, test and apply IC systems.

INSTRUCTORS: Sylvania Electronics Systems will use the services of two professional instructors with the combined experience that is required to properly prepare and present the theoretical and workshop portions of this traniing program. The instructors, Mr. Robert M. Brown, Jr. and Mr. Paul E. LePore, have taught both digital fundamentals and large scale digital systems. Their teaching experience includes Digital Electronis, Solid State Digital Systems Fundamentals, Integrated Circuits, Minuteman Weapons Systems, Communication Satellite Earth Stations AN/FRD 10 and Integrated FAA Maintenance Monitoring Equipment.

Management Improvement Techniques II DATES: 27 Jan., 3, 10, 17 Feb., and 3 Mar. 1970

LOCATION: Room 101, Training Building INSTRUCTOR: Wm. Guthrie Associates

SCOPE: MIT II blends together the concepts of the latest researches (Theory X and Y, Managerial Grid System, 3 and 4). Concepts are developed through guided group discussion and job oriented problem solving. Topics included are: Management and society and the manager's job, planning, directing and controlling, supervisory economics, work measurement and wor ksimplification, systems and procedures.

Techniques of Listening

DATES: 3, 5, 10 February 1970 LOCATION: Room 211, Training Building

INSTRUCTOR: Dr. Bertram Barer, San Fernando Valley State College.

SCOPE: This 3-day workshop examines how we retain and comprehend information by our ability to listen. Special emphasis is placed on ho weffective listening influences the productivity and performance of technical and non-technical personnel. Participants will become award of the techniques of effective listening and how to use these techniques. Lecaure material will investigate the major factors affecting our tttention span, such as: Peripheral and Central attention, Visual Elements of Communication Listening Environment, Emotional Barriers, Appropriate Organization of Material. The Workshop will be two-pronged in its approach: Investigate how information is organized to induce listening. Investigate how to discipline our attention to receive information aurally.

**Decision Making for Supervisors** DATE: 9 February 1970

LOCATION: Room 205, Training Building

INSTRUCTOR: Edward Pickett, Management Center of Cambridge

SCOPE: Introduction to Decision Making Vital Gan in De cision Making, The 7-Step Decision Making System, Developing Skill in the 7-Step Method, Communicating Between Management Levels, 10-Second Decision Making System, Summary and Analysis.

Information Retrieval Systems

DATE: 13 February 1970

TIME: 0900-1600

LOCATION: Room 211. Training Center SCOPE: This seminar will cover the DEFINITION RE-TRIEVAL REQUIREMENTS: What is being done, what is wanted/need, formulating time phased systems goals; INFOR-MATION RETRIEVAL MECHANIZATION: manual and semimanual systems, computer systems, microfilm systems, integrated systems; VOCABULARY CONSIDERATIONS IN CON-TROLLING INFORMATION: indexing, classifying, coding or marking information for retrieval, searching for information; **INFORMATION SYSTEM DESIGN\*:** selecting mechanization based on requirements, establishing optimal information flow, using the system. \*Applications to be selected by the partici-

SEMINAR LEADER: Basis "Bill" Doudnikoff is a leading national authority in the field of information retrieval, and has been a major contributor to advances in systems designs. He has taught Information Systems Design at the University of Maryland and Systems Design for Business Operations at the American University. He has also conducted seminar at Westinghouse Electric, the FAA and the Army Research Office. He holds a BS in Industrial Engineering and an MS in Engineering Administration. Mr. Doudnikoff was the Director of Information Systems at Jonker Corp. and responsible for the Corporate Market Planning of Documentation Inc. Today he is president of DataFlow Systems Inc. and has been responsible for the development of a wide variety of information retrieval

systems. He is also the author of many articles in his field and currently president of the Potomac Valley Chapter of the American Documentation Institute.

Applied Theory of Radar Resolution

DATES: 2-6 March 1970

LOCATION: Room 205, Training Center INSTRUCTOR: Dr. August Rihaczek, Senior Scientist with Technology Service Corporation

SCOPE: This course is designed to provide an orientation as well as a working knowledge of resolution theory with emphasis on those developments that have practical significance. The course brings out the potential and the inherent limitations of high-resolution radar, and is oriented toward providing the background needed to interpret existing and conceive advanced radar systems. Frequent illustrations of the principles will be given in terms of practical radar problems. The primary topics to be discussed will be based on the text "Principles of High-Resolution Radar," McGraw-Hill 1969.

Digital Input/Output Mediums 105 DATES: 2-4 March 1970

TIMES: 0830-1530

LOCATION: Room 212, Training Center

SCOPE: This course is designed to teach the principles of digital input and output mediums and devices. Mediums such as tapes, cards, discs, drums, degegraphic and optical units as well as printed mediums will be explained. Devices such as readers, punches, printers, storage units, displays, communications units, and interface equipment will be covered. Operations will be with two (2) 160-A Digital Computer Systems. INSTRUCTOR: Robert J. Clausen of Control Data Institute Automatic Data Processing (ADP) Orientation

DATES: 9, 10, 11 March 1970

LOCATION: Room 205, Training Building **INSTRUCTOR:** Civil Service Commission

SCOPE: The three generations of computers (hardware and software). Data Processing requirements study, system analysis and computer programing, integration of resources by the ADP manager, overview of Federal ADP policies, review of terms and trends in ADP, how ADP is changing our ways of working.

SCOPE: Participants will learn the principles and applications

of Geometric Dimensioning & Tolerancing and the application

of USASI Y14.5; MIL-STD-8C; ABC; and ISO TC 10. Through

audio-visual lecture and discussion participants will learn the

fundamentals: then workshop sessions and discussions will

ensure that every step is clear. The textbook, A Treatise on

Geometric Dimensioning & Tolerancing, as based on USAI 14.5

will be used to explain the differences between the new USA

INSTRUCTOR: Mr. Dan Bibeau, member of USAI Y14.5 Com-

mittee; Y14.5 liaison to Canada; and U.S. Representative to

SCOPE: This advanced lab is intended for persons who have

ness of participants both as leaders and as members of a work

group of those in responsible supervisory and administrative

positions, and improve their abilities in diagnosing and treat-

INSTRUCTOR: Civil Service Commission SCOPE: A two-day seminar designed to improve and facilitate

communication and feedback between the boss and his (her)

secretary. Topics include: effective listening, dictation, psy-

chology of communication and supervision, effective use of sec-

SCOPE: The course provides an opportunity to experience

yourself more fully in your relations with others; to learn

more about yourself and your impact on others; to understand

your own feelings and how they affect your behavior toward

others; to become more sensitive to the ways people communi-

cate with each other; to learn active listening for meanings

and feelings; to learn how people affect groups and groups

affect people and to learn how to help groups function more

SCOPE: This one-day seminar will cover the following topics:

Definitions of Reliability & Maintainability; Historical Review: Gallio to Present Data, World War II; Underlying Causes of

Maintenance Requirements: Sources of Failure, Physics of

Failure; Design Principles: Maintenance Strategy, Safety Mar-

gins, Complexity, Storage Effects, Standardization, Tesfability;

Manufacturing or Process Reliability: Process Variables Ven-

dor Controls, Screening (LET-PET), Corrective Actions; Users

and Their Effect: Training, Tools; Managing the Program:

Program Planning, Assessment of Technical Progress, and Risk

INSTRUCTOR: Mr. William P. Wood Chief of Reliability En-

SCOPE: A three-day program planned to develop and/or im-

prove communication, counseling and feedback skills of su-

pervisors or counselors. Video-taping and playback of partici-

pant performance will be included in addition to lectures and

SCOPE: A course designed to provide participants with the

skills, knowledges and techniques necessary for leadership

of conferences. Emphasis is on learning by doing and cri-

SCOPE: The course will review the state of the art of cor-

rosion abatement. The importance of selecting materials and

coatings with a view towards the natural or man-made envir-

onment in which it operates will be stressed; selection based

on function alone is not enough. Design principles will be re

Reliability/Maintainability for Project Engineers or Managers

DATES: 30, 31 Mar., 1, 2, 3, 21, 22, 23, 24, 25 April 1970

attended a previous lab. It is designed to increase effective-

Geometric Dimensioning & Tolerancing

LOCATION: Room 211, Training Center

DATES: 9-13 March 1970 TIMES: 0830-1630 Daily

STANDARD and MIL-STD-8C.

LOCATION: To be announced

Advanced Leadership Training Laboratory

DATES: 16, 17, 18, 19, 20, 21 March 1970

INSTRUCTOR: Dr. George Lehner, UCLA

LOCATION: Room 205, Training Building

retarial skills, and delegation of authority.

INSTRUCTOR: Dr. George Lehner, UCLA

LOCATION: Room 211, Training Center

gineering Department, Martin Marietta Corp.

**INSTRUCTOR:** Civil Service Commission

**Communication and Counseling** 

DATES: To be announced.

workshop sessions.

**Conference** Leadership

tiquing.

**Corrosion** Control

DATES: To be announced.

DATES: To be announced.

TIME: 0800-1630 (40 hours)

LOCATION: Training Building

**INSTRUCTOR:** Civil Service Commission

LOCATION: Room 205, Training Center Building

LOCATION: Training Building

Basic Leadership Training Laboratory

LOCATION: To be announced.

ing human relations situations in an organization.

ABC Unification Program.

**Boss-Secretary Seminar** 

effectively

Analysis.

DATE: March 30, 1970

TIME: 0830-1630

DATES: 25, 26 March 1970

### Page Eight

#### ROCKETEER

#### Friday, January 16, 1970,

### **COMNWC** Will Speak At Kern **Outlook** Conclave (Continued from Page 1)

of opportunity **Conference Keynote** 

The panel of authoritative speakers will be led by one of the nation's leading business executives-John V. Vaughn. president of Dartell Laboratories, a pharmaceutical manufacturer of ethical biochemical specialties with nation-wide distribution. As the keynote luncheon speaker. Vaughn's topic will be. "Where Do We Grow From Here?"

Vaughn has been prominent in Southern California business, industry and civic affairs for more than three decades. President of Los Angeles Area Chamber of Commerce, he also serves as an officer in a score of state and national organizations. A graduate of UCLA, he has resided in Los Angeles since 1917. He began his distinguished career in 1935 with the National Lead Co., and is listed in Who's Who in the West and Who's Who in Commerce and Industry.

#### **Tells Navy Impact**

In a recent news release reviewing the Kern County economy. the Kern County Board of Trade listed the expansion of the Naval Weapons Center. China I ake with 635 additional iobs and an annual pavroll of more than \$54 million through consolidation of the NWC Corona Laboratories, among the significant contributions to the county's economic posture during 1969

The idea for an "Outlook Conference" was approved by the Board of Directors of the Kern County Board of Trade in mid-1957 and the first BOC was presented on January 29. 1958. The BOC is recognized as one of the outstanding meet ings of its kind on the San Joaquin Valley business calendar. The Board of Trade considers that no other conference affords the opportunity for conferees to obtain in a half day the best possible summation of business prospects.

The conference is open to all persons desiring to gain facts and perspective on future trends in the county's economy. Kern Outlook

**CHAMPUS Not Being Used By Navy Families** 

(Continued from Page 1)

mation. Completion of the first 13 items on the claim form is the responsibility of the patient or the sponsor.

Retired members are reminded that their dependents must have been issued identi-Sea.on tickets for the bal- fication cards (DD-1137) which ence of the season have been reflect their eligibility for CHAMPUS benefits. Such enand \$9, depending on seat sel- titlement is shown in item 15B

Officials point out that there are many sources of detailed information about the program. One is the Department of Defense pamphlet entitled "Uni-Board, or from Board members formed Services Health Bene-This full symphony, well the door on the night of the Executive Director, OCHAMP-US, Denver, Colo. 80240.

## **Details Of Recent School Board Meetings Include Policy Actions**

At an adjourned meeting of as soon as possible. the China Lake Elementary January 5, Grant Pinney, as- on Animals on School Campus. sistant superintendent of the The policy proposal was slated school district reported on the to be on the agenda of the next status of the current school year federal income.

Pinney reported that the U.S. Senate had recently approved the appropriation bill which in- Pupils was recommended apcluded money for federally impacted areas such as China Lake and Ridgecrest. Since the Senate approval was for 100% funding, the bill went directly to a conference committee. This committee must return the bill to the Senate for action before it is sent to the President of the United States for his signature.

However, Pinney reported, the President of the U.S. indicated in a letter to Congress on December 18, 1969, that he would not sign the appropriation bill as passed by the Senate, and if this happens the next step according to the report is to solicit enough Congressional help to override the President's veto

The China Lake School District receives 40% of its income from federal funds. The school district is entitled to an amount of money for each child whose parent works on a federal installation but lives off the installation, the school district receives one-half as much since the taxes from the residence is a source of income for the school district.

The current entitlement in federal funds to the China Lake School District is in excess of \$800,000 for one year.

of the Board of Trustees, the board adopted three policies to become effective immediately: Paternity Absence; Cer- Lake School District Office to tification, Textbook Usage; and Professional Growth, Certificated Personnel. Copies of these policies and the administrative regulations to accompany them will be distributed Groves School

Rear Admiral John E. Clark,

USN (Ret.), Deputy Director of

Jet Propulsion Laboratory, will

be the featured speaker at the

The board also heard its first School Board held Monday, reading of the proposed policy

regular meeting. In further action, the membership of the advisory committee on Program for Gifted proved. The members are Mrs. F. R. Phillips, Mrs. Leona Osborne, Mrs. R. H. Knipe, Mrs. Dorothy Jackson, Mrs. Roberta Ward, Mrs. Carolyn Hockett, and Mrs. Sylvia Tillitt.

#### **Summer Salaries**

A salary schedule for sum mer program director, assistant director, teachers, and student aides was adopted by the board. The hourly rate for teachers was raised to \$6.50. Aides found their hourly rates increased by 10 cents. The pay for the director and assistant is to be based upon the hourly rate for teachers, plus additional hours and a responsibility factor

January 28 was declared a minimum day for pupils in order that the District might offer a compulsory workshop for certificated personnel on drug abuse. The workshop will be held at Murray School. Further details will be available at a later date.

The board called a special meeting to take place at 7:30 p.m. on January 19, in order to discuss items of mutual concern with the Boards of Trustees of the Indian Wells Valley and the Rand School Districts. The place of the meeting was At the January 12 meeting decided at the January 15 special meeting. Persons interested in attending the January 19 meeting may call the China learn the meeting place.

Regular meetings in February will be held on February 2 at 8 p.m. at Richmond School, and on February 16 at 8 p.m. at

RAdm. Clark will speak on

the "MARS Fly By," and the

bers of the AOA are cordially

invited to attend the dinner.

Tickets may be obtained from

Bill Arnold, ticket chairman,

Engineering Department; John

Black, Genge; Walt Kuzmin,

CAI; Fred Chenault, Code 55;

Jim Smith, Code 4005; Jack

Sherman, Code 4562; Lynn

Barker, Code 3561; Ray Reed,

Code 555; George Cleary, Code

Effective immediately, the

phone number for ordering

forms stocked in the Supply

Department has been

changed to 72975.

the following:

4003

dinner at 7:30 p.m.

in X-118, for Series GS-322-3. On 'Mars Fly By' At AOA Dinner host reception will preceed the

ing Division, Engineering Department. The incumbent is responsible for administrating and planning programs assigned to the Branch. This includes cost estimates, budget estimates and test plans on work to be performed by Branch personnel. As supervisor of the Branch, the incumbent reviews personnel performance, advises on advancement, directs training and recruitment. He provides technical supervision on all This includes production support.

ment of Defense activities and private industry, fleet engineering, and consultation regarding solutions to fleet problems. Minimum Qualification Requirements: A degree in engineering or the equivalent, and several years experience in design, project ement, and some engineering supervision. Applicants must meet the requirements of Civil Service Handbook X-118. Relevant Position Elements: Experience in mechanical, chemical and electrical aspects of propulsion units, warheads, fuzes, airframes, and weapons handling equipment. A general knowledge of total weapons ems, including aerodynamics, interna and external ballistics, launchers, electrical mechanical aircraft installations, electrical firing circuits, weapon support equip ment production techniques and documentation requirements is necessary File above applications with Pat Gaunt

Bldg. 34, Rm. 34, phone 71514. Competitive Promotion Exam for Fore-man, Model Maker (Machining), Announce-ment No. NWC-1(70), issued 19 January 1970. Applicants must be Career or Caree Conditional employees of the Naval Weap ons Center, China Lake or Corona, California. The closing date on this exam is 2

# For Balance of Concert Series

Civic Concert Association sea- cert season in the Valley. son," states F. A. Chenault, Sales Manager. Three outstanding programs are still to come in 1970.

On January 28, the Vienna Academy Chorus, now on their seventh tour of the United States, will present a varied program from the music of Europe. On February 19, the Center will host the outstanding young pianist David Bar- Mrs. B. A. Breslow, Mrs. L. R. fits Program." Local military illan and on April 30, the na- Housden, Mrs. R. A. Jones, K. installations will also have intionally prominent Utah Sym- Okauchi or H. E. Bennett. formation a bout CHAMPUS, phony Orchestra will be here. They may also be purchased at or individuals may write to the

known to record buffs and lis- performance.

"Good season tickets are still teners to KFAC for their reavailable for the balance of the cordings, will climax the con-

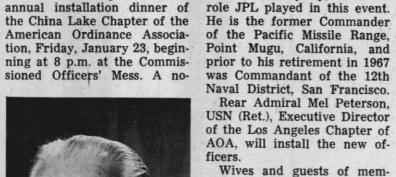
> prorated and are now \$13, \$11 ection, with half prices for stu- on the reverse side of the card. dents and enlisted personnel and their wives.

Tickets may be obtained from Mr. Chenault, Mrs. David Chapman, President of the

Season Tickets Still Available



is that of Head, Weapons Installation and Support Equipment Branch, Fleet Engineer-



RAdm J. E. Clark To Speak

RAdm. J. E. Clark



HELP FOR RETARDED CHILDREN-D. Robert Hooper (r) and C. E. Miller, Jr. (I), journeymen in the Refrigeration and Air Conditioning Shop of Public Works Maintenance Utilities Division, present a check for \$157 to Mrs. Susan Fisher, president of the Indian Wells Valley Council for Retarded Children. For the past five years Public Works employees have donated money to the local Retarded Children's Council in lieu of sending Christmas greeting cards to each other. Attractive posters, prepared by PW painters, and collection containers are located throughout the Public Works Department by the Maintenance Utilities Division, sponsors of the campaign.

### **PROMOTIONAL OPPORTUNITIES** (Continued from Page 2)

asolowicz, Bldg. 34, Rm. 28, Ext. 71577. 718009, Code 1825-Position is located in the Operations Maintenance Division lo cated at the Naval Air Facility. The incumbent will type official correspondence, process and file correspondence, answering phone and general clerical work. Minimum Qualification Requirements: A. One

for the above with Sue Clerk-Typist, GS-322-2 or 3, PD No. Friday, January 16, 1970



AWARDED CROSS OF GALLANTRY-During morning quarters at NAF last week, Capt. L. A. Dewing, NAF Commanding Officer, presented the Vietnamese Cross of Gallantry to Lt. Gerald L. Hall (r), for 153 combat missions flown while based aboard the USS Coral Sea from June 1967 to October 1969. Lt. Hall is the Aviation Safety Officer at the Naval Air Facility.



JOINT MEETING-Dr. Paul F. Romberg, President of the California State College in Bakersfield, addressed a joint meeting of the China Lake Branch of ASPA, and the local AAUW. His topic was "Making the College Campus Relevant." Hs also spoke about plans of the new campus in Bakersfield, scheduled to open in September, 1970. More than 60 persons attended the luncheon meeting, held January 6 at the Commissioned Officers' Mess, in the Mojave Room. The said of the said of the

#### ROCKETEER

### Dr. E. L. Davis Featured Speaker At Maturango Museum Annual Meet

tor of Archeology, Museum of petroglyphs Man, in San Diego, will be the featured speaker at the annual meeting of the Indian Wells Valley Maturango Museum, Tuesday, January 20, in the Mojave Room of the Commissioned Offeicers' Mess.

Dinner will be served at 7, preceded by a no-host cocktail

Dr. Davis will speak on "The Search for Ancient Man in the Mojave Desert." She is currently involved with "MOSARC" in a two-year study of early man on the Naval Weapons Center.

Highlighting the business meeting, with President James W. Baird as master of ceremonies, will be election of three members to the Board of Trustees. The nominating Committee, headed by Kenneth D. Miller, Past-president, has announced that Charles Van Hagen, Maturango Press Publisher, and Donald W. Moore, wellknown amateur naturalist, long associated with museum activities, will be candidates.

Present Trustee Barbara Sewell will stand for re-election. Further nominations will be entertained from the floor, with the understanding that any candidate so proposed must be a member in good standing of either the museum or the archeological society, or both, and must have given prior consent. As is customary, awards to

those who have rendered significant service to the museum will be presented.

Attention has been drawn to the museum ever since dedication of the Petroglyph Landmark several years ago by tours to the Petroglyph Area guided and escorted, in collamand, by museum personnel, the annual meeting.

Dr. Emma Lou Davis, Cura- principally featured the local

As a result of this article, requests poured in from all over the southwest for participation in such a tour; and consequently the director, Baird, and Pringle, escorted over 650 people on five different weekends to the Petroglyph Area. Each group was brought back to be shown the Visitors Center by the curator. The favorable impression generated has brought in many new members and stimulated a number of projected associations in scientific and public relations circles.

In accordance with corporation by-laws, invitations have gone out to all members in good standing as of the first of the year, and reservations for the dinner at \$4 a plate are now in order. However, this is a final opportunity to pay renewal dues for 1970 for 12 full months of membership; and it is not too late for new members to join by mailing a check to the museum (P.O. Box 5514. China Lake) covering dues and dinner costs, and thus have a voice in naming trustees to fill the three vacancies for the coming administrative year. Dues remain the same: \$10 Family; \$5 Individual; \$1 Student

The Archeological Society dues are the same. Any member of either the museum or MOSARC can pay an additional \$2 and become an associate member of the other with full privileges.

Anyone preferring to pay at the door should make reservations by calling the museum-NWC ext. 72368-by Friday, January 16. An open gate policy will be established for new boration with the Center com- and old members the night of

### Servicemen On Active Duty Are **Eligible For VA Educational Aid**

Servicemen on active duty may be eligible for educational assistance up to \$130 a month, according to the Veterans Administration

Citing the provisions of U.S. Title 38, the VA says servicemen who have been on active duty at least two years are eligible for benefits. Those who had prior service may establish eligibility by proving they were discharged or released under conditions other than dishonorable. However, the prior service must have lasted for more than 180 days, and some part of that must have occurred after Jan. 31, 1955. If the prior service was for less than 181 days, eligibility could still be established if the discharge -after Jan. 31, 1955 - was for a service connected disability.

Allowances are designed to help the active duty serviceman meet the cost of tuition, fees, books and other education costs, at least in part. Payments will be computed at the rate of \$130 per month for a full time course, whichever is less.

In-service educational benefits are accrued at the rate of eligibility for each month of active duty. The maximum period of entitlement is 36 months. but the VA says that can be extended to 48 under certain circumstances.

There is virtually no limit on

program selection under the new law, according to the VA. The serviceman's goal "may be purely educational, such as obaining a college degree; professional, such as becoming a lawyer; or vocational, such as becoming a barber or air conditioning serviceman."

VA form and detailed information on this and other inservice benefits are available at local education offices

### PTA To Discuss Drug Abuse, **Sex Education**

The China Lake Elementary PTA will discuss drug abuse and sex education at their next at Groves School, beginning at 7:30 p.m.

lative Chairman for the Seventh District in Bakersfield, will be the guest speaker. Following his presentation he will answer questions from the audience.

An opportunity will be made for parents to purchase the School Record Books following the meeting.

Coffee and cookies will be served.



NEW ARRIVAL-LCdr. S. G. Johnston reported aboard re cently to assume the duties of Commanding Officer of Enlisted Personnel at NWC. The newly arrived officer has been in the Navy since 1941 and received his commission in 1961. He and his wife Huguette have four children: Helen, Michael, David and Louise. The Johnstons reside at 100-A Richmond Rd. on the Center.

### **Euripides'** 'The **Trojan Women Opens Jan. 22**

"The Trojan Women," a tragedy by the great Greek dramatist Euripides, will be presented by Theatre 27, Desert Campus, Bakersfield College on January 22, 23 and 24 in the Burroughs Multi-purpose Room beginning at 8:15 p.m.

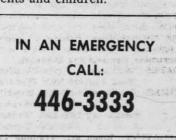
The play, translated by Edith Hamilton, was first produced in 415 B.C., and since has come to be known as one of the finest pieces of anti-war literature ever written.

The setting of the play is outside the gates of Troy following the defeat of the Trojans by the Greek armies. The women of Troy are waiting to be taken to ships and hence to Greece where most of them face a life of slavery. Their suffering is the basic theme of the play.

Members of the cast include Leroy Carson, Joan Leipnik, Sherry Parker, Don Savelle, Pam Hemingway, Art Schaper, Diane Dickinson, Randy Carson, Jean Cadmun, Debra Duncan, Jack Lindsey and Nancy Hoyem

The play is under the direction of Pat Schwarzbach, instructor of speech and theatre at the local college. Other members of the staff include: Jack Chandler, student director; Mark Goza, technical director; Nancy Hoyem, costume design, and Jeanne Gritton, set design.

Tickets are now on sale at meeting, Tuesday, January 22, The Gift Mart, the Station Pharmacy, and from members of the cast. Admission is \$1.25 Robert Hamilton, PTA Legis- for adults and 75 cents for students and children.



Page Six

ROCKETEER

the men in the Para Loft and Raft Shop.

BELOW-PRAN Fred Krebs and PR3 Tom

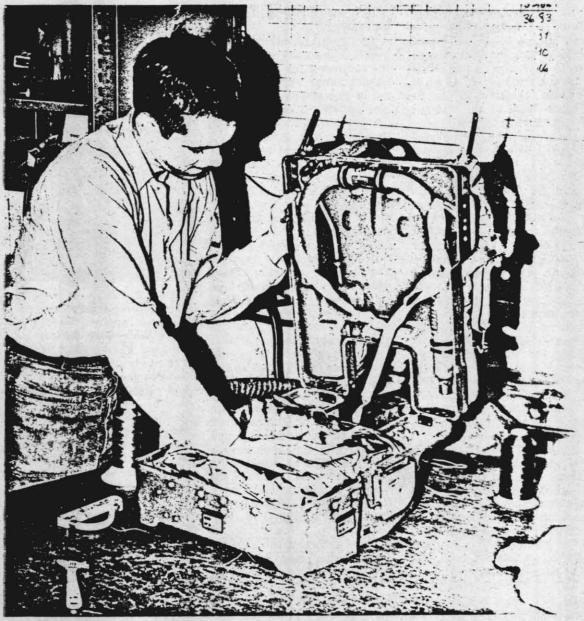
Parrish check shroud lines for proper order

in the Para Loft Shop of the AMD Aviators

Friday, January 16, 1970

Friday, January 16, 1970





ABOVE-PR3 Ronald Buchanan installs a

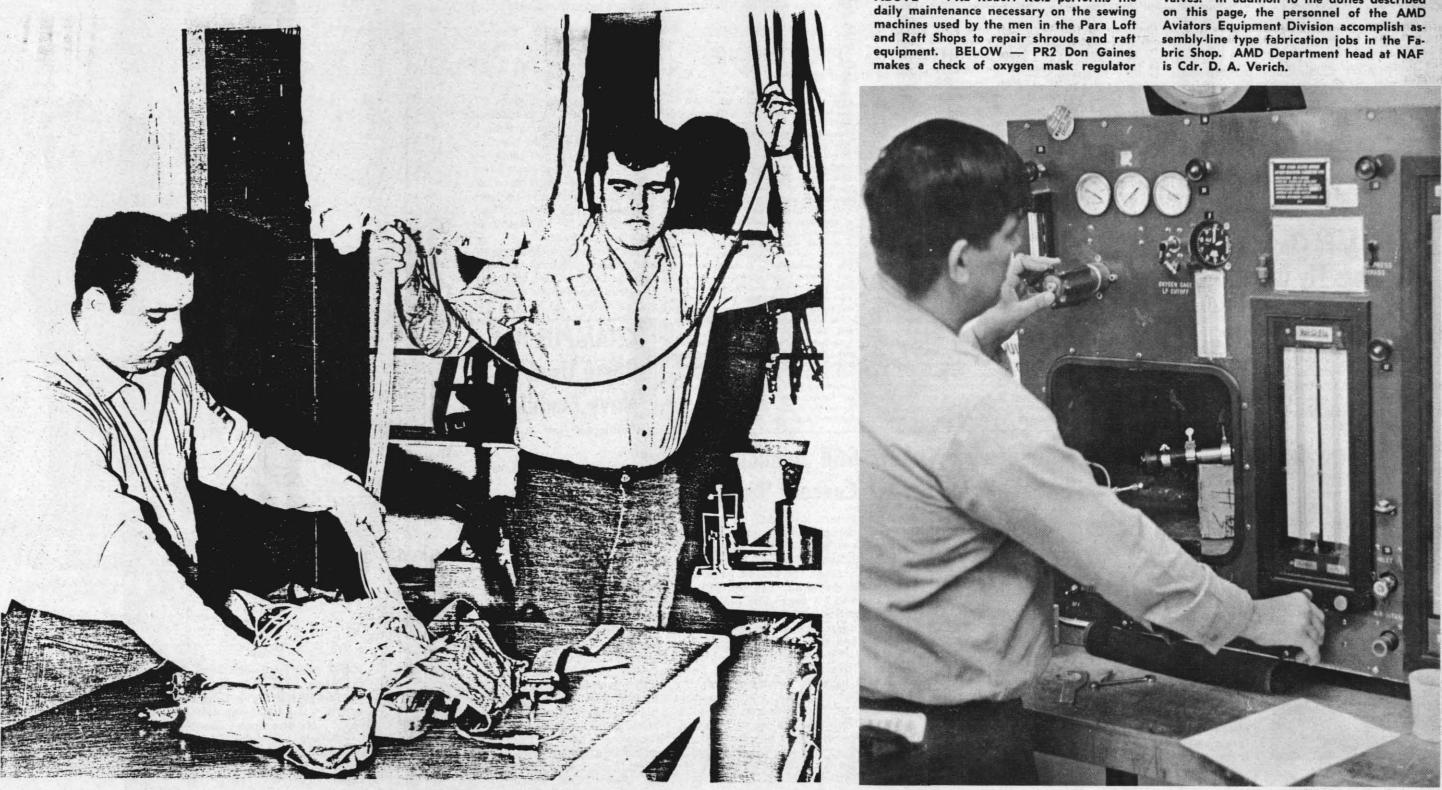
life raft after having run a 48-hr. check on

it by inflating it to 2 psi for the time period. The chute, which is ejected with the pilot,



ABOVE-PR3 Ronald Buchanan, of the Raft Shop, a part of the and PR3 Tom Parrish drop a chute from the drying tower in AMD Aviators Equipment Division, deflates a LR-1 Life Raft prior preparation for repacking. The men in this shop are responsible to checking it by inflating it to 2 psi for a 48-hour period. The Raft goes into the container on the right. After being packed, the chute is a part of the ejection seat and is ejected with the pilot in case of an emergency. BELOW—PR1 Fred Mackal (foreground) The preparation for repacking. The men in this shop are responsible for the repack and modification of all types of parachutes and life rafts used in both reciprocating and jet aircraft. PR1 John Malan is the Shop Petty Officer. —Photos By PH2 M. F. Krause





ROCKETEER



ABOVE - PR2 Robert Ruiz performs the

valves. In addition to the duties described

Page Seven