## Rodeo, Barbecue Highlight Gold Rush Days Festivities

Valley will "strike it rich" during a.m. on Saturday, May 5, and head the third observance of "Gold Rush" south on Balsam St. to Ridgecrest Days," which will begin Monday Blvd. The procession will then turn and continue through Sunday, May west on Ridgecrest Blvd. to

A wealth of entertainment will be Ridgecrest park area. provided during the week-long celebration, culminating in a of the rodeo, which is to be held at parade and rodeo to be held on May the Desert Empire Fairgrounds

title of rodeo queen. The contest winner will be crowned on Thur- Gold Rush Days will begin on sday, May 3, at the Ridgecrest Tuesday with an old-fashioned box Plaza Shopping Center. The supper at the Elks Lodge, 201 E. contestants are Susan Bryant, Church St. The festivities will get Beverly Glass, Nancy Grams, Jan under way at 6 p.m. Hines, Carol Miller, Judy O'Connor, Wendy Roberts and

tested tonight at the Bottom Acre Barbershop singing, band en- together. Stables, beginning at 7 o'clock. tertainment, a square dance Each girl will be judged on her skill exhibition, the first eliminations in as a rider in the Western Pleasure the costume contest, and the

Earlier, the rodeo queen can- take place that evening. didates were judged on their More barbershop singing, a personality and poise, and at- professional fiddlers' exhibition tractiveness. In addition, the and country and western music candidates are selling queen program, plus the second contest tickets for \$1 each that will eliminations of the costume contest

8 p.m. on Sunday.

wildflowers to be displayed in only seen every five years.

Kristen Berry and Judy Lind, who Weapons Center.

Residents of the Indian Wells Balsam St. and Las Flores by 10 Warner St. and disperse at the

The parade is the opening event arena between 2 and 5 p.m., on both Eight local girls are vying for the Saturday and Sunday, May 5-6.

> The entertainment planned for Other events planned include a

> public gathering at the Ridgecrest Plaza Shopping Center, beginning crowning of the rodeo queen will

will be on view. According to within the boundaries of the Naval Conservancy Wildflower Projects,

WILDFLOWER MURAL — Ida Davis, president of the Desert Art League, stands beside a three-panel, 8

x 12ft, mural that she painted for the annual WACOM Wildflower Show. The painting depicts a sunrise

over "B" Mountain, as seen from Sand Canyon. The Wildflower Show will take place tomorrow and

Sunday at the Community Center. Other murals have been painted for the show by five other Desert Art

League artists. They are Beth Allen, Vinnie Bodenburg, Maxine Booty, Ruth Mayer and Mary Polk.

Hours of the show are from 1 to 10 p.m. Saturday and from 10 a.m. to 8 p.m. on Sunday.



READY FOR GOLD RUSH DAYS - Capt. D. W. Alderton, NWC Deputy Commander, gets into the spirit of the upcoming western emphasis week in Ridgecrest by purchasing a "Strike It Rich" Gold Rush Days button from Ray Sinnott (at left), president of the Burros Booster Club. Ridgecrest merchants are joining in a week-long Gold Rush Days sales promotion, which begins Monday and will merge into the seventh annual Desert Empire Rodeo on May 5-6.

On Saturday, May 5, there also will be a barbecue at the fairgrounds. Residents will be able to eat all they want for \$2.50 per person. Musical entertainment will be provided during the barbecue, and the finals of the costume

be counted as a vote for them in the will take place at the Sierra Vista week-long sales promotion, spon-Shopping Center on Friday, May 4, sored by Ridgecrest merchants. Participants in the rodeo parade beginning at 7 p.m. The newly- Persons who purchase a "strike will assemble at the corner of crowned rodeo queen will make it rich" button will be eligible to Desert Empire Fairgrounds.

The girls' horsemanship will be at 7 p.m., on Thursday, May 3. her first appearance at this get-receive gift certificates from "gold rush marshalls," which are redeemable in participating the son, Lee, dies. This seriously effects

> Representatives of the Chamber of Commerce, the Desert Empire SAT Fair and the Burros Booster Club, are already selling the buttons at

The Gold Rush Days campaign will kick-off at 3 p.m. tomorrow Gold Rush Days is the theme of a when the Golden Knights, a prescision parachute team of the U.S. Army, will stage a free-fall demonstration of their skill at the

**Annual Wildflower Show Opens Tomorrow** are responsible for identifying the The show will contain something In addition, a color film slide

this weekend, as WACOM stages varieties of wildflowers as executed by local artists, which well-stocked tea room.

its 26th annual Wildflower Show. possible. The areas covered will form natural desert and Also available will be stationery Hours of the exhibit are from 1 to 8 ranged from the Alabama Hills to mountain settings for the flowers." imprinted with desert flowers, p.m. Saturday and from 10 a.m. to Garlock, Randsburg and For the conservation minded, a desert animals and desert scenes venture. Walter Slezak plays the California City, as well as from display featuring the Antelope by Henry R Mockel, an artist who It is anticipated that over 200 Nine Mile Canyon to Homewood Valley Poppy Preserve, Con- is well-known for work of this kind.



Depew Quartet will play for the annual WACOM Spring Dance, set for Saturday, May 5, at the Commissioned Officers' Mess. Reservations will be required. All those interested should call Mary Clinton, 446-7123, as soon as possible to insure getting a ticket. Tickets are priced at \$8 per couple

The largest variety of desert flowers, some of the varieties are of interest for nearly everyone. Pat show of desert wildflowers will be LaBerge, chairman, said "I think shown on both Saturday and many years in the local area will More than 50 pickers travelled visitors will be impressed by the Sunday afternoons.

be seen in the Community Center far and wide to gather as many use of six mural paintings, Refreshments will be served in a

varieties of the colorful flowers Canyon, and some come from servation Education and Nature



General Audiences (PG) - ALL AGES ADMITTED Parental Guidance Suggested (R) · RESTRICTED Under 17 requires accompany ing Parent or Adult Guardian

The objective of the ratings is to inform

content for viewing by their children.

(G) - ALL AGES ADMITTED

CS · Cinemascope STD - Standard Movie Scree Regular starting time - 7:30 p.m.

Matinee-1p.m.

"PETE 'N' TILLIE"

(SC 101 Min.) Walter Matthau, Carol Burnett (Comedy) Carol Burnett relates her story as Tillie. She meets Walter Matthau (Pete) in the early '60s through a friend. The outspoken Matthau and the repressed Burnett don't exactly hit it off right away. Eventually they have an affair which leads to marriage. Burnett gives birth to a son, Lee Har court Montgomery, and contends with Matthau's philandering. Matthau brings up Lee as a partner in his enjoyment of life. Tragedy strikes when the marriage of Pete and Tillie, and almost ruins it. (PG)

-MATINEE-"MAJOR DUNDEE" (STD 122 Min.) Charlton Heston, Richard Harris (G) -EVENING-

"BURN" (STD 112 Min.) Marlon Brando, Evaristo Marquez (Historical Drama) A British agent foments a revolution on the Caribbean island of Queimada to further his country's commercial interests (PG)

SUN. & MON "THERE'S A GIRL IN MY SOUP" (STD 96 Min.)

Peter Sellers, Goldie Hawn (Comedy) Kookie girl moves in on a sophisticated gourmet columnist and disrupts his life. (R)

"TREASURE ISLAND" (STD 95 Min.)

Orson Welles, Walter Slezak (Adventure Drama) Orson Welles as the most colorful-one legged scorpion of a sea devil-pirate "Long John Silver" adds an entirely new dimension to Robert Louis Stevenson's classic ad-"Squire," Lionel Stander as "Billy Bones" and young Kim Burfield as "Jim Hawkins." Everything is here the death mark of Black Spot, the voyage to Treasure Island and the mutiny of Silvers' blood-thirsty crew

THURS. & FRI. "SUMMER TREE" (STD 96 Min.) Michael Douglas, Jack Warden

(Drama) Reality confronts a college nterrupted by the war in Vietnam

### Advisory Bd. . . .

(Continued from Page 1) employees who demonstrate ex-

ceptional creativity through significant inventions that are

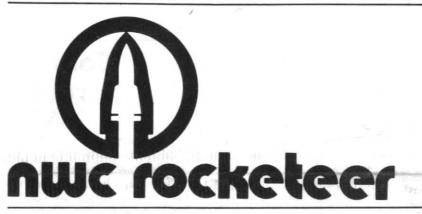
The awards will be presented during a luncheon to be attended by Advisory Board members, their special guests and the honorees that is to be held on May 3 at the Commissioned Officers' Mess. starting at 11:30 a.m.

Reservations which will be required for attending the luncheon may be made by contacting the office of the Technical Presentations Coordinator, phone Ext. 2634.

From	 PLACE STAMP HERE
то	



LAW DAY PROCLAIMED - A joint proclamation designating Tuesday, May 1, as Law Day was signed this week by Rear Admiral Henry Suerstedt, Jr., Commander of the Naval Weapons Center (seated, at left), and by Kenneth Smith, Mayor of the City of Ridgecrest. Present for the occasion were (standing, from left) Cdr. H. Ô. Brickson, NWC's Staff Judge Advocate, and G. E. "Tommie" Thompson, judge of the Indian Wells Judicial District Court. Law Day U.S.A. is set aside annually by both a Presidential proclamation and by a joint resolution of Congress. Theme of this year's observance is "Help Your Courts — Assure Justice." The proclamation signed by RAdm. Suerstedt and Mayor Smith places emphasis on this nation's legal heritage and the role of the courts in safeguarding individual rights.



April 27, 1973

Vol. XXVIII No. 17

## **New Instruments Developed To** Aid Optical Evaluation Work

By Dr. Jean Bennett

The Physical Optics Branch, headed by Dr. Harold Bennett, has been developing new instrumentation with which to better characterize optical surfaces, in particular mirrors used in high optical seeker systems.

With these new instruments, scattered by the mirrors can be measured (both in the infrared and visible regions of the spectrum), shops of Michelson Laboratory.

Finally, the actual mirror sur- Various members of the branch, faces can be observed using a TV particularly Phil Archibald, have scanning system, and differences assisted in its assembly and in height on the surfaces, which are testing. only a very small fraction of a The instrument uses a large energy laser systems and sensitive wavelength in size, can be hemispherical mirror, called a measured. These are much Coblentz sphere, to collect all the smaller than can be observed light scattered from the sample, extremely small amounts of light directly with an electron microscope

Optical Evaluation Facility The Optical Evaluation Facility the properties of mirror coatings was designed by Dr. Harold can be studied, and small changes Bennett of the Physical Optics

## Next NWC Advisory Bd. Meeting Slated May 3-4

NWC Advisory Board has been Advisory Board meeting will be the scheduled next Thursday and presentation of the L. T. E. Friday, May 3-4.

W. E. Fromm, executive vice- Awards. president of AIL, a division of The L. T. E. Thompson Award is Cutler-Hammer, will serve as the Center's highest recognition for chairman of next week's Advisory outstanding individual Board meeting.

for Research and Technology,

The semi-annual meeting of the Among highlights of the NWC Thompson and William B. McLean

achievement. It is presented to In addition to the 11 Advisory NWC employees who have Board members who are scheduled demonstrated extraordinary to attend, there will be two special dedication to the Mission of the guests. They are Rear Admiral L. Center, in addition to fulfilling A. Hopkins, Assistant Commander other demanding qualifications.

The William B. McLean Award is Naval Air Systems Command, and complementary to the Thompson his Technical Director, Dr. F. I. Award and is presented to the NWC

(Continued on Page 12)

**Question of School Unification Will Be Decided on Tuesday** Voters will go to the polls next unification of the 13-member Kern Tuesday to decide whether or not High School District, while Rand

public schools in this northeast School District representatives

Debate Warms Up

The proponents of school

unification see both economic and

Public discussions about

unification have warmed up

principally on the question of

financial feasibility of such a

move. Key figures in this debate

have been John Cissne, principal of

Burroughs High, lined up against

Dr. Marvin Heinsohn, acting

superintendent of the Indian Wells

Valley Union School District, and

Grant Pinney assistant super-

intendent for business of the China

Lake Elementary School District.

Cissne has steadfastly main-

tained that operation of the local

high school is subsidized by tax

funds from outside this area -

(Continued on Page 4)

**Hearing On** 

Annexation

The Kern County Board of

Supervisors has set Monday, May

14, as the date for a public hearing

on the proposed annexation of a

portion of the Naval Weapons

Center housing area to the City of

A total of 1,370 acres of Navy

section of Kern County will be have expressed a desire to retain combined into one unified district the status quo rather than see their for grades kindergarten through lone elementary school (which they now control) become part of a Polling places located at China larger, unified district.

Lake, in Ridgecrest, Inyokern and the Rand District will be open May 1 from 7 a.m. to 8 p.m. Registered voters have been sent administrative advantages, as well

a pamphlet containing information as benefits to the educational about the school unification plan programs that could be provided that has been prepared by the Kern by the planning and administration County Committee on School of a continuous curriculum from District Organization, the Office of kindergarten through twelfth the Kern County Superintendent of grade. Schools, and the Kern County Counsel.

In addition, this same pamphlet carries an argument against unification of schools in the Burroughs attendance area that was submitted by L. J. Osborn, a trustee of the Rand School District, and arguments in favor of unification signed by trustees of the China Lake, Indian Wells Valley and Rand School Districts.

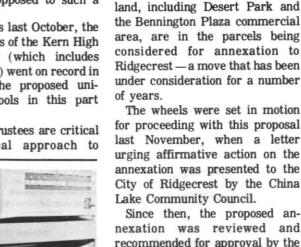
Also prepared for mailing to registered voters are some 4,500 copies of the summaries of reports prepared by a citizen's fact-finding committee that was organized to look into all aspects of the school unification question and come up with impartial information on all phases of this complicated sub-

### **Differences of Opinion**

The issue has brought out sharply divided differences of opinion between spokesmen for the China Lake Elementary and Indian Wells Valley Union School Districts, who favor unification and initiated the action bringing the current proposal to a vote, and representatives of Burroughs High School and the Rand School District who are opposed to such a

As far back as last October, the board of trustees of the Kern High School District (which includes Burroughs High) went on record in opposition to the proposed unification of schools in this part of Kern County.

High school trustees are critical of a piecemeal approach to



Ridgecrest.

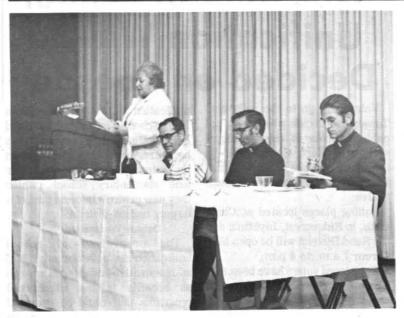
recommended for approval by the Kern County Local Agency Formation Commission and, earlier this month, the Ridgecrest City Council petitioned the Board of Supervisors of Kern County for approval of this addition to the Eventual annexation of Desert

Park homes, the Bennington Plaza shopping complex, the Burroughs High School campus and access road and vacant Navy land east of the Sandalwood Homes development would enable tax revenue that now goes to Kern County to be channeled instead to Ridgecrest.

Such tax money is earmarked for use on development of the 106-acre regional park located adjacent to the Burroughs High School access road and campus, as well as for improvements to and policing of the high school access road.



JEAN BENNETT adjusts the interferometer to obtain sharp FECO interference fringes of a mirror surface. These fringes contour the micro-irregularities on a surface, and show details only a small fraction of a wavelength in size.



INTER-FAITH EXPERIENCE SHARED - A Jewish Passover supper, sponsored by the Catholic congregation of the All Faith Chapel, was held at the Community Center on Holy Thursday (April 19) as an educational ecumenical event. Mrs. Rose Vargas (standing at left) started the ceremony by lighting the traditional candles, while Sam Kopulsky (seated at left), vice-president of the Hebrew congregation, was the reader, Fr. Aguinas J. Smith and Fr. Ermin Von der Stratton (at right) a Benedictine priest from Valvermo, participated in this event. Traditional Jewish foods such as bitter herbs, matzos, chicken soup with matzo malls, baked chicken, lamb, green beans, salad, stewed fruit and sponge cake were served. Chairmen for the supper were Sharri La Pierre, Catherine Donoghue and Harriet Phillips.

## **Library Lists New Books**

Dalrymple--Survival in the Outdoors.

Masefield--Sea Life in Nelson's Time.

ontgomery-Born To Heal.

Paulson-The Great Land Hustle.

Watson--Nutrition and Your Mind.

Swanberg - Luce and his Empire.

Wilkes - Nautical Archaeology

Yates — Sunday Driver

Sunday Worship Service

Sunday School—All Ages

the Center Restaurant

Daily except Saturday

Daily during Lent

First Friday only

As announced

Saturday

Sunday

Saturday

Wednesday Noon Bible Stud

Forrer--From the Nets of Salmon Fishermen

Marine... A Male Guide to Women's Liberation.

O'Neil-Art of the Painted Finish for Furniture

Sleight--Home Book of Smokecooking Meat

Stillman--Doctor's Quick Weight Loss Diet

Randall - The Great American Auto Repair

Reader's Digest - Treasury of American

Thomas - Savior, Savior Hold My Hand

Viscott - The Making of a Psycyiatrist.

DIVINE SERVICES

PROTESTANT

Sunday School Classes are held in Chapel

Annexes 1, 2, 4 (Dorms 5, 6, 9) located opposite

communion Service first Sunday of the month

ROMAN CATHOLIC

MASS

BLESSED SACRAMENT CHAPEL

CONFESSIONS

CCD CLASSES

Above classes are held in Chapel Annexes

JEWISH SERVICES

Sabbath School

UNITARIANS

**CHAPEL ANNEX 95** 

Wednesday Seventh and 8th grades

across from Center Restaurant.

Kindergarten thru 6th grades

1700 fulfills Sunday obligation

1545 to 1645

0800 to 0825

Ninth thru 12th grades

Monthly Youth Rallies

"In Home" Discussion Groups

Fairlie-Kennedy Promise

Finley--Corrupt Kingdom

and Decoration.

Fish and Game.

Cookbook

LIBRARY HOURS Monday - Friday: 2-9 p.m. Saturday: 10 a.m. — 6 p.m Readers are reminded that all employees regardless of residence are most welcome to use the Center Library FICTION

Douglas--Apostles of Light Egleston-Seven Days to Killing Gary-Gasp. Gores-Dead Skip. Hale--Promise of Tomorrow Kempley-The Probility Factor Lofts-Nethergate. McGivern--Caprifoil. Ross--Solomon's Palace. Seifert -- Doctor's Reputation Wallop--Howard's Bag

Balka--Outpost

NON-FICTION Birmingham-Right Places. Bradford--Easy Steps to Successfu Brooks--The World of Gwendolyn Brooks. Coote--Picture History of the Olympics.

Courtney--The Eighth Sea. The Rocketeer

Official Weekly Publication Naval Weapons Center China Lake Lake, California

R Adm. Henry Suerstedt,

NWC Commander H. G. Wilson Technical Director

C. E. Van Hagan



Don R. Yockey Editor

Jack C. Lindse Associate Editor

Jeanne Schreiber Editorial Assistant

PH1 D. C. Manderscheid, PH2 R. D. Cox, PH2 D. W. Yeatts, PHAN Jerry Sizemore, ADJAN Bill Brooks, PHAN Shellie K. Reed PHAN Joe Dunn

Staff Photographers DEADLINES:

Contact Chaplain's Office for specifics. Tuesday, 4:30 p.m FAST WING - ALL FAITH CHAPEL Press Service material. All are official U.S Friday 1st and 3rd ONLY Navy photos unless otherwise identified. Printed weekly with appropriated funds by a commerical firm in compliance with NavExos P35, revised July 1958. Office at Nimitz and pliance with NavExos Saturday Rocketeer does not necessarily reflect t

> 3354, 3355, 2347 Sunday Services

### **PROMOTIONAL** OPPORTUNITIES

ROCKETEER

Applications for positions listed in this column will be accepted from current NWC employees and should be filed with the persons named in the ad. All others desiring employment with the Naval ployment Division, Code 652, Extension 2069. Current applications (SF-171) or Standard Form 1972 should be submitte bringing your work history up to date if one has not been submitted within the last 6 months. The fact that positions are advertised in this column 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 rithout discrimination for any nonmerit

Clerk-Typist, GS-322-3 / 4, PD No. 7150112, Code 5043 - This position is located in Development Division II of the Fuze Departmanuscripts, correspondence, procurement actions, etc.; arranging travel itineraries, making reservations and typing travel orders, receiving visitors and telephone calls; and receiving and distributing mail. Minimum Qualification Requirements: as defined in CSC Handbook X-118. Job Relevant Criteria: must be qualified typist. File application for above with Charlotte

Sieckowski, Bldg. 34, Rm. 204, PH. 3118. Administrative Officer, GS-341-13, PD No. 7270023, Code 7002 — This position is Head of Staff for the Public Works Department and nead, Administrative Division. Incumbent plans, directs and supervises a program to provide administrative services to the department including: systems and procedures analysis, fiscal accounting, budget preparation, personnel records, reports and forms control, plant accountability and procurement. Provides staff services to the Public Works Officers and division head. Represents the department in dealings with other NWC departments and Naval Facilities Engineering Command. Minimum Qualification Requirements: As specified in CSC Handbook X-118. Job Relevant Criteria Must have a knowledge of Naval Facilities Engineering Command directives and policies. Experience in the management of public works type functions desirable. Ability to evaluate and prepare material on public works programs for presentation to Center management.

Supervisory Production Controller, GS-1152-11, PD No. 7370011, Code 7083 — This position is head of the Work Reception and Control Branch, Maintenance Control Division, Public Works Department. Incumbent is responsible for all phases of work reception in the controlled maintenance program. Develops and maintains a continuous shop load plan to allocate manpower, material, and equipment for completion of job orders. Prepares all management reports for the division and serves in an administrative capacity for the division head. Supervises all graded clerical nployees in the division (exclusive of division secretary). Minimum Qualification tequirements: 2 years general experience and years specialized experience as outlined in CSC Handbook X-118C. Job Relevant Criteria: Must have knowledge and experience as a shop supervisor, shop planner, maintenance scheduler or planner & estimator in one or more trades. Must be familiar with basic shop practices including the overall scheduling and planning function. Ability to interpret

methods of accomplishment. File applications for above with Carol Downard, Bldg. 34, Rm. 212, Ph. 2371.

sustomer requirements and select appropriate

Clerk-Typist, GS-322-3 or 4 (1 vancancy) Code 95 — This position is located in the office of Patent Counsel. Duties include typing material of a legal and technical nature, composing and reviewing correspondence, processing invention disclosures, reviewing for proper signatures and completeness of related attachments. Maintains patent case timekeeper for code and as receptionist when necessary. Minimum Qualification Requirements: As outlined in X-118. Job Relvant Criteria: Must be accurate typist, neat in appearance and have ability to effectively deal with officer visitors. Knowledge of technical fields of mechanics, electronics

and chemistry is desirable. File applications for above with Dora Childers, Code 657, Rm. 210, Ph. 2032.

Clerk-Typist, GS-322-3 or 4, Code 12 - Incumbent will provide secretarial and clerical assistance to the Secretary of the Weapons Planning Group, Will type speeches, memos and complex technical reports. Will assist department secretaries as needed. Incumbent is responsible for sorting, logging and distributing the department's incoming mail. Incumbent will also receive visitors, handle telephone calls, schedule meetings, arrange appointments for the department head and senior associate. Minimum Qualification Requirements: As stated in CSC X-118 Job Relevant Criteria: Steno skill desirable, typing

Clerk-Typist, GS-322-3 or 4 (WAE), Code 12 - This is an intermittent position in the Weapons Planning Group. The incumbent will be expected to work in all program areas as needed. Incumbent will provide secretarial and clerical assistance as needed, typing speeches, memos, technical reports, receiving

(Continued on Page 9)



REMINDER — Daylight Saving Time will begin at 2 a.m. Sunday and the staff of The ROCKETEER has taken over the office clock to remind local residents of the event. Upon retiring on Saturday night, the clock should be set ahead one hour, thereby gaining an extra hour of daylight until the Fall, when the hour now being lost will be regained. Photo Lab supervisor Don Manderscheid (hanging from the hour arm) is preparing to crank our clock ahead — don't forget -Created by PHAN Jerry Sizemore

### **Local Musicians To Solo** In Annual Youth Concert

munity Orchestra Association, will She will offer her rendition of be held on Sunday at the Burroughs Vivaldi's "Concerto in C Major for High School Lecture Center. Piccolo." She also plays the flute. beginning at 4 p.m.

Three local students of music will be featured. Priscilla during the concert.

### Naval POW Tribute Day To Be Observed

Naval Prisoner of War Tribute Day will be observed locally by a formal dinner this evening for military officers assigned to the Naval Air Facility, as well as during religious services to be held Sunday at the All Faith Chapel.

Referred to as a "dining out" affair, patterned after the British tradition of a "mess night" or "dining in," tonight's event will differ from the British version (which was strictly a stag affair) by being open to the wives or guests of the officers attending.

This evening's dinner, which is scheduled to start at 7 o'clock at the Commissioned Officers' Mess, H. Wood, of Bakersfield College. will be preceded by a social hour and followed by musical entertainment and dancing to the music of the COMNAVAIRPAC hand from San Diego.

During services on Sunday at the E. Osman and Chaplain Aquinas Smith will call upon members of the Protestant and Catholic congregations to join in prayers of thanksgiving for the return of U.S. prisoners of war and remember, as well, the ser- not hold DCOA season tickets. vicemen still listed as missing in They will be on sale at the box action and their families.

The annual Youth Concert, and the Desert Community Orsponsored by the Desert Com- chestra, for the past three years.

Shacklett, who is a senior at BHS, has scheduled the difficult "Piano Concerto," by composer Richardson, on the piccolo, Kerry Saint Saens. The versatile youth, Shacklett, pianist, and Bart Moore, who also plays drums, guitar and vocalist, will each perform solos organ, has been a member of several rock bands in the local Miss Richardson, a junior at area. In addition, he is a member Burroughs, has been a member of of the Burroughs choir, the area's the Burroughs High School band Honor Choir, and the Madrigal

> Bart Moore, who, like Shacklett, is a student of Mary Highberg, will sing "Evening Star," from the opera "Tannhauser," by Richard Wagner. Moore also plays the piano, has been active with the Community Light Opera and Theater Association, the Madrigal Singers, and is a vocal soloist at the Church of the Nazarene, in Ridgecrest

In addition, the talented vocalist is a member of the Southern California Youth Chorale, which will give four performances in Los Angeles in the early summer prior to leaving the U.S. for performances in England, Holland and Russia.

The soloists will be accompanied by the orchestra, under the direction of conductor Dr. Charles

The Youth Concert is the final offering of the 1972-73 season by the DCO. Now completing its 13th season, the DCO is supported in part by the Desert Campus of Bakersfield College and Burroughs All Faith Chapel, both Chaplain R. High School through courses in music and band, use of rehearsal facilities and assistance.

Tickets for the Youth Concert, priced at \$2 for adults and \$1 for students and enlisted personnel, are available for all those who do office prior to the Sunday concert.

### Labs Must Take Strong Role In Cost Analysis

While designing to cost has always been a critically important consideration at NWC, recent policy statements coming out of the Department of Defense and Navy Headquarters have made it evident that the laboratories must take an even stronger role in cost estimating and cost analysis.

In particular, an in-house ability to develop useful cost estimates total program cost, and production -unit flyaway cost - even before the conceptual system has reached the advanced development stage will be needed.

In recognition of this, Center Management has reaffirmed support for a cost estimating capability at NWC, and has directed that resources devoted to this area be augmented.

The cost estimating function will be built up in the Central Staff under the direction of M. B. Sorge, head of Central Staff. Basic staffing procedures and definition of the functions of the cost group proper handling of liquid oxygen, are well under way.

since this group will ultimately long list of special recognition. serve, and influence, most of the larger technical development projects at the Center.

up, Fix-up campaign currently

from the IWV Lawn and Garden

Center, Mean's Nursery and the

Camera Award" at the U.S. Industrial Film Festival, held recently in Chicago, Ill. The award represented first place in the category. The prize-winning film has also

won first place awards at the San

Falkenburg, and the outstanding

location camera work, performed

responsible for the great reception

countered," Shelton elaborated.

film are Liz Babcock, who was a

production aide, and Verla Pieper,

Completed approximately one

ilm to instruct enlisted Navy

personnel on the proper handling of

More recently, the U.S. Air

Force and Army have ordered

on the NWC Ranges, at NAF and at

Cine Sound Studios in Hollywood.

film librarian.

liquid oxygen.

Festival (first in class): the Information Film Producers of America's "Golden Cindy" award (first in class); the "Chris" award from the Columbus (Ohio) Film Festival, for best of category; and

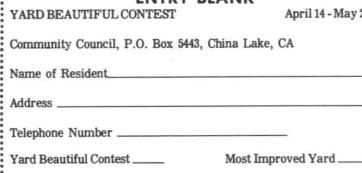
'Yard Beautiful' Contest the "Indy," which was first place in the annual contest held by the Still Open to NWC Tenants U.S. Industrial Photography Magazine's award festival. Marty Shelton, the branch head, Entries are still being accepted Department's Housing Division,

"On April 18, the first day we under way at the Naval Weapons issued materials, 110 different tenants took advantage of the An entry blank is printed below offer," Ray said. Fencing for tenants of NWC housing to use materials and paint are being in entering one of two categories - issued on Wednesdays, from 11:30 most improved yard, or yard a.m. to 4 p.m., during the cambeautiful (which will be awarded paign, which ends on May 25. The those homes on the Center with the materials are issued at Warehouse most beautiful yards and gardens). 28, located north of Blandy Ave.,

sponsored by the China Lake made a "great response" to the

During the first week, the Housing office distributed 195 of Raintree Nursery, will be awarded the 4x4 in. posts, 147 2x4 in. posts, to the first three places in each and 518 1x6 in. fence panels. In addition, 434 gallons of fence paint Entrants in the most improved also were issued to tenants.

yard category must call either 446- Regarding the small lawn and 3764 during normal working hours, garden care hand tools that are or 446-2219 after 4:30 p.m. A available to tenants at the Housing photographer will be sent to the office, Ray stated that all of them address to take "before" photos, have been checked out to tenants. which will aid in judging the im- "However, NWC tenants who wish provements that have taken place to borrow such tools, or who want when the contest period ends. to requisition fencing materials, Gerry Ray, head of the should check in with us, as these Operations and Maintenance tools become available at different Branch of the Public Works times," Ray explained.





AN 'AWARDING' EXPERIENCE - The four persons most responsible for making the prize-winning safety film, "Man From Lox," pose with some of the first prize awards the motion picture has garnered in the past year. They are (I-r): Bill Beasley, cameraman; Gail Falkenburg, sound recorder; Marty Shelton, director and editor; and John Dunker, who wrote the script. They are all employees of the Technical Information Department's Film Projects Branch, headed by Shelton.

## 'Man From Lox' Keeps On Winning 1st Place Honors

'Man From Lox,'' the Co., the local entry took the "Gold motivational safety film on the produced by the Film Projects Branch of the Technical In-Code 17 welcomes comment on formation Department's Presentathe mission and staffing of the cost tions Division, has added another estimating group, particularly first place award to its already

Entered in the "safety, welfare and insurance" category, in competition against similar films Such comments may be directed from such large firms as shell Oil to Sorge by calling NWC ext. 3605. Co. and the Hartford Insurance

who was the producer and director for the "Yard Beautiful" contest, reports that NWC tenants have

Community Council in conjunction Housing Division's offer of free with the annual Clean-up, Paint- fencing materials and paint. by Bill Beasley, are mostly to the film that we have en-

Trophies and gift certificates and west of Argus St.

..... ENTRY BLANK ..... April 14 - May 25

Social Security number or apply research tool," he said. for Social Security benefits can do so at the Community Center bet- is to pass on his data to a student at the first female "supergrade" ween 8:30 and 11 a.m.

## Employee In The Spotlight

"I am probably the best example on the Center of a man who has progressed on the basis of educational support supplied by NWC.

"Rocky" Rockwell, a Burroughs High School graduate, WEPCOSE scholarship recipient, NWC Fellowship student, and a man who was allowed to take leave of absence for other schooling, was paying tribute to the fine educational programs available at NWC for those who diligently seek

Rocky is head of the Systems Simulation Branch of the Electronic Systems Department's Systems Sciences Division. That's a long way from a GS-2 mathematician aide. That's how he began his Civil Service career in 1954 for the old Test Department (now the Systems Development Department).

Returns to Berkeley

Given leave of absence by NWC, Rocky returned to the University of California at Berkeley and completed the work for a bachelor's degree in physics. He then rejoined the Test Department, working as a physicist for Steve Lee, and then later on as a project engineer for Red Lattig.

Francisco International Film In 1962, Rocky transferred to Code 40 and went to work on exterior ballistics connected with various free fall programs and Shrike. The lure of education made him apply for a WEPCOSE fellowship, which was granted, and in 1963 he entered Stanford University, at Palo Alto, to seek a master's degree. Rocky switched his field of study at that time from

physics to aeronautics and of the film, also did the editing. astronautics. 'This was a branch effort, After earning the degree he Shelton pointed out. rejoined Code 40 as a systems "The excellent script by John analyst. In 1966 he returned to Dunker and professional sound Stanford to work on his doctorate recording (on location) by Gail

> degree was granted in 1970. After switching to aeronautics and astronautics, Rocky took a biomechanics option for his Ph.D. research and this opened up a whole new life for him.

Other branch employees who **Blood Flow Study Begins** had a hand in the making of the

He began a mathematical study of the human body's arterial blood flow while doing work for his Ph.D. His research was the first by year ago, "Man From Lox" was anyone to accurately model the entire arterial system by including produced as a motivational safety the effects of blood viscosity, leakage of blood through side branches and elasticity of vessel

Rock has associated himself with prints of the film for presentation Dr. Max Anliker, a fellow scientist to liquid oxygen handlers in those and former professor at Stanford for this work, which is purely The film took approximately five theoretical. Dr. Anliker heads a months to complete and was shot bio-medical institute in Zurich, Switzerland, which has a medical school and medical data available that is useful in the study.

### Social Security Man To Visit China Lake zerland next month for some in-

A representative of the Social Security office in Lancaster will pay another in his regular series of Wednesday, May 2. Persons wishing to obtain a therefore more valuable as a

Dr. Robert L. Rockwell

available to me that is necessary to complete this project," Rocky said. At the Bio-Medical Institute, the work can be completed, he

His work on the artieral system has made Rocky a recognized scientist in the field. However, he shuns any attempts to cover himself with glory. "The real goal of the study can be measured in its worth to humanity," he explained. "The more we understand how the system works, the closer we are to designing instruments that can detect abnormalities and diseases less traumatically than now," he

Married Local Girl

Rocky is married to a local girl, Sheila Williams. She was graduated from BHS in 1960 and the couple was married soon after.

They have three children -Kurt, 10; Bruce, 9, and Jennifer, 3. "We lost a lot of friendships in the Zero Population Growth group when Jenny was born," Bob kidded. "I am in sympathy with ZPG, but I'm glad we have her," he said. under a NWC fellowship. The

Bob, who was a Phi Beta Kappa at Berkeley, still enjoys reading and studying, but claims his first love is mountaineering. He is president of the China Lake Mountain Rescue Group and each day, during the lunch hour, can be seen running up "B" Mountain. "That keeps my legs and wind in shape," he said.

He is a hi-fi "nut," dabbles in photography and loves to cook. "I do spend a lot of time researching the bio-medical field," Rocky

Sheila takes a strong interest in the schools and has served on various school committees over the years. With Rocky, she dabbles in the garden and yard of their new home in Ridgecrest.

### High Post Goes To Ex-NOTS Employee

Lillian Regelson, a physicist formerly employed as associate head of the Weapons Planning Rocky will journey to Swit-Group at the Naval Ordnance Test Station, was appointed recently to tensive research in the bio-medical fill the post of deputy assistant field. "My main purpose is to finish administrator for water planning up work on a visco-elastic model of monthly visits to China Lake next the arterial system. I will make the and standards in the U.S. Government's Environmental present model more realistic, and Protection Agency.

> The newly created post is a GS-17 Another purpose of Rocky's trip position, making Mrs. Regelson Zurich. "I no longer have the time employee in EPA.

> > .กมระบบร





Pat McDonald, currently competing on the Western Tournament Golf Association tour, picked up \$825 this week for a steady 73-73 146 score in the stop at Hesperia Country Club.

Pat's score was good for a fifthplace tie.

Jimmy Lee, superintendent of the China Lake Golf Course, is throwing a little tournament. Well, he's not really, but his peers are.

The Hi-Low Desert Golf Course Superintendent's Association, or something like that, is sponsoring a tournament to be held at Mission Hills CC in Palm Springs this coming weekend, and Jim has invited a few of his friends to play as his guests. Forty of them have accepted.

They will all get together at the it is rumored they will bash a bit, and during the daylight hours on Saturday and Sunday, they will repair to the course where a little the China Lake Intramural friendly competition will take Volleyball League, the rich got

like what occurs at the CPO Golden Anchor tournament here locally, swamping all Division A opnobody, repeat, no-body will shoot ponents, kept their undefeated a dang thing.

on down to Hall Memorial Lanes 11 before losing one game, 7-15. teams knocking on the first-place record.

### **Trout Season Opens**

California's general trout season 17-15, 15-13 and 15-1. will open Saturday and continue The race in Division 2 remained through Nov. 15 in most parts of the close as Knee Knockers and the

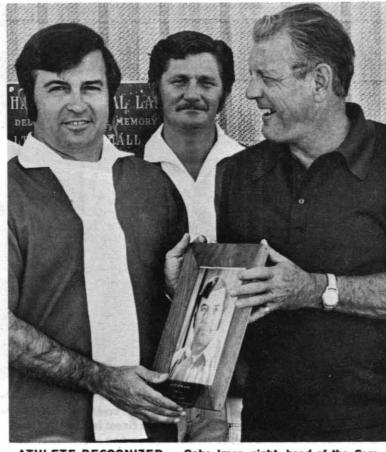
ossession, but not more than 10 lb. place. The Knee Knockers stayed and one fish.

are required to have a basic fishing trampled the Spaghetti Fingers. license (\$4), an inland waters Other results during the past license stamp (\$1) and a trout and week follow. salmon license stamp (\$2).

While most lakes and streams in the High Sierras will be under ice and snow, Lake Crowley is expected to be ice-free and ready for an overflow crowd of anglers seeking some of the 150,000 rainbows planted there last August and now close to a pound in size.

The Department of Fish and Game has stocked all accessible roadside streams and lakes from the West Walker River in northern Mono County to Olancha Creek in southern Inyo County.

The Kern River has been open to winter fishing above Democrat Dam to Johnsondale bridge, and has received catchable-sized trout where water conditions are suitable



ATHLETE RECOGNIZED - Gabe Imer, right, head of the Command Administration Department's Special Services Division, presents a plaque to Earle Roby, March "Athlete of the Month." Bill Driggs is seen in the background. The presentation took place at Hall Memorial Lanes at the same time trophies were awarded to those who finished in first place in the recently concluded Men's City Bowling Tournament. Driggs and his partner, Chuck Roulund, won the doubles event. John Revels, who took scratch all events, and Thad Brightwell, who recorded the scratch high game (268), were also honored. Roby won the singles category. Others present were Benny Whiteside, Pat Keegan, Maury Coleman and Tom Zurn, Roby's teammates, who won the team event in the annual tour--Photo by ADJAN Bill Brooks

## El Morocco Hotel in Indio, where Volleyball Results Reported

In last Tuesday night's action in In Division B-1 competition, the team from richer and the second place teams If the goings-ons are anything fell farther back in the standings.

The Hatchetmen, currently match record intact as they belted Looking for action? Then troop the second place Yahoos, 18-16, 15-

Monday evening, beginning at 7 Maharlika, leaders of Division Bo'clock. Members of the Women's 2, faced the Snorts and dropped Scratch Bowling League are laying them to win the match, thereby it all on the line as the final three taking over undisputed possession games of the season find three of first place with a perfect 5-0 Diamond No. 4 last Monday night.

Playing in Women's Division-1, the Ifs remained undefeated as they swatted the Roach Pile squad,

Net Climbers each won their The limit is 10 trout per day, 10 in matches to remain tied for first in contention by defeating the Anglers 16 years of age and older Maybes and the Net Climbers Tuesday, April 24

The Bouncin' Boobs dropped three games to the Sweet Things in Division 1 play. Action in the mens' Division B-2 saw the Sandfleas take three games from Central Staff.

Division A Loewen's lost three to the Yahoos; the VX-5

netmen took two from Loewen's; the Bouncers blanked the Cudboors all three games Softball Meeting Set

## The High Desert Amateur Soft-

ball Association officials will hold a meeting on Monday at 7 p.m. at 403-C McIntire St. All ASA members are requested to attend. The meeting also will be open to

anyone interested in the rules and mechanics of softball. ASA members who cannot attend

are asked to call either Tom Fortney, 375-8536, or Lowell Radcliff, 446-7494.

## **NWC Sports Notes**

Coming down to the wire in the Monday Night Women's Scratch League, Team No. 1 leads Crestline Motel by 11/2 games.

in third place only two games behind the leaders, will meet Team No. 1 this coming Monday in the final three games of the season. The outcome should be interesting. Crestline draws Nell's Belles, a

squad that has won 421/2 games this season, and resides in sixth place. Last Monday, Sue Emde led the scoring with a 588 series that included games of 210 and 211. She was followed by Pat Brightwell, who recorded a 200-564. Doris Boyack notched a 560 set that included games of 201 and 202. Peggy Ames rolled a 530 series and a 211

Farm Team Tryouts Tryouts for Little League Farm teams and T-Ball registration will take place tomorrow at 9 a.m. on

Boys 8 to 9 years of age may sign up for these teams at that time. Proof of age will be required.

### Camping Issue Hours

Camping Equipment Issue Room, doubles play on Sunday. located near the Electronics Hobby from 2 to 5 p.m.

check out equipment for camping The gymnasium doors will open and fishing trips from this facility.

## Women's Softball

The women's softball program gets under way at Reardon Field on Wednesday, May 2. There are seven teams entered in the program this season. Game times are 6 and 8 p.m. each Wednesday.

### Varsity Tennis

Friday, April 27, 1973

Tryouts are still under way for the NWC varsity tennis team. Interested persons should contact The AV keglers, who are LCdr. Bob Castle, NWC ext. 5254 or

> May 10 is the deadline for submission of team rosters to the Mojave Desert Inter-Service League, and all those wishing an individual tryout are welcome to

This team will compete in the MDISL tennis tournament May 18 to 20 at Norton AFB in San Ber-

### Last Call!

The final week to register in the NWC Intramural Softball program is coming up. Deadline for sign-ups is next Friday, May 4, at 4:30 p.m. game. Carol Andrew posted a 215 in the Center gymnasium. Call Marty Denkin, NWC ext. 2334, for further information.

### **Pro Slates Clinic**

Dennis Ralston coach of the U.S. Davis Cup team and tennis coach at Cal State, Bakersfield, and celebrated tennis professional, will bring his Cal State squad to Ridgecrest to give an exhibition Effective Monday, May 7, the and hold a clinic in singles and

The clinic will begin at 2 p.m. in Shop on S. Lauritsen Rd., will be the Burroughs High School open for business Monday through gymnasium. A donation of \$1.50 for Friday from 9 a.m. to 1 p.m., and adults, \$1 for high school juniors and seniors, and 50 cents for all Military personnel are invited to others, will be asked.

at 1:30. All are invited.



## Season Begins for Local Little Leaguers

By Leo Rickmers

NAF took two games from the Net Hangers,

while Goofs' Gophers, of Division B-2, blanked

Women's Action

the Sweet Things; the Knee Knockers took a

pair of games from the Volleybelles, and the

The Court Clowns swept their match against

the Heavy Duty netmen.

The opening of yet another China spring. Lake Little League season was ceremonies, held at Little League

Following the introduction of Major Division players by Chuck Dye, league president, two games were played by that division's

begin their season later in the win

The Yankees and the Tigers staged a real barn burner at ushered in by brief, low-key battled it out on Diamond No. 4, Diamond No. 3, where the Dodgers with the Yanks emerging vic- pulled away to win, 8-7. While not torious, 13-1. Although the score as decisive a victory as that of the sounds lopsided, it is misleading, Yankees, the Dodgers looked good as the Tigers staved close until the enough to take it all this year. final two stanzas.

The Dodgers and the Giants

Top-notch fielding was the key to Utilizing the fine pitching of Rich the Dodgers' victory, although teams. The Minor Division, Farm Drake, the Yanks blew the game they employed a balanced hitting Division and T-Ball teams will wide open in the final innings to attack to keep the Giants off stride.



LITTLE LEAGUE SEASON OPENS — Officials of the China Lake Little League were introduced to a large crowd last Monday evening as the Major Division held its opening ceremonies. At the microphone is Chuck Dye, Little League president. The others are (I.-r.): Ray Schiltz, executive vice-president; Ray Caruso, umpire-in-chief; Joan Chartier, secretary; Peg Johnson, head of the women's auxiliary; Ed Parks, major division vice-president, and Les Saxton, minor division vice-president. Two games were played the first evening — the Yankees defeated the Tigers, 13-1, and the Dodgers edged the Giants, 8-7.

## Hack Wilson Ends Notable Civil Service Career Today

Today marks the end of an active Civil Service career for H. G. "Hack" Wilson, a man who (in his own way) has had a profound and beneficial effect on the Naval Weapons Center, its operations and accomplishments for more than 20 years.

The legion of co-workers, friends and associates of the Wilsons will assemble next Thursday, May 3, at 6 p.m. at the Community Center to attend a farewell reception honoring the NWC Technical Director and his wife, Jane — making plain as they do their affection for the Wilsons and appreciation of the way Hack Wilson has handled his increasingly responsible duties since coming to China Lake in July 1950.

Born and raised in the small town of Ashdown, Ark., "Hack," as he likes to be called by everyone, displays an especially warm and human touch in his dealings with others that is exemplified by his knack of putting others at ease. He is at his best when it comes to conferring with his associates and co-workers on a one-to-one basis.

Not one to stand on ceremony, Hack possesses a vast fund of practical knowledge and is always ready to pitch in - offering his considered judgment on complex matters on any of a wide range of skills he has acquired in pursuit of an engineering career that began formally following his graduation from the University of Arkansas with a BS degree in chemical engineering in 1932.

A registered professional engineer, he worked during the '30s as an inspector and later assistant highway engineer for the State Highway Department in Arkansas before becoming involved in ordnance work as a loading engineer at the Arkansas Ordnance Plant in Jacksonville. That was in 1942.

#### Joined BuOrd in 1946

Two years later he became an ordnance engineer for the Army Service Forces and returned to work briefly as an assistant highway engineer for his home state following World War II - before joining the Navy's Bureau of Ordnance as an ordnance engineer for the Research and Development Division late in 1946.

Already singled out as a man of exceptional capabilities, Hack was the recipient in 1946 of a Meritorious Civilian Service Award for the work he performed as an employee of the Field Director of Ammunition Plants for the Army Service Forces in what was then called the Office of the Chief of

This wartime work, related to the engineering of fuzes, explosive components of fuzes, exploder mechanisms and firing devices, laid the groundwork for the many years in allied fields of endeavor that followed. Four years in Washington, D.C. preceded his transfer to China Lake in 1950 at the urging of then Technical Director Dr. L.T.E. Thompson. For Hack, the move filled a desire to get closer to the scene of action in the

line of work that he had chosen for his lifelong pursuit. Although slated for a scientific staff assistant post in what was then called the Technical Division of the Station Commander's Staff, Hack proved his versatility shortly after his arrival here by turning to as a draftsman in order to prepare some drawings that were urgently needed on a key project - the development of a new anti-tank rocket for

use against Russian-built tanks in Korea. This willingness to pitch in and help earned him the respect and admiration of the man he had been told to contact for what had been intended as a briefing on the RAM rocket program, and that feeling has persisted until this day — the NOTS pioneer who provided this thumbnail sketch of his first meeting with NWC's Technical Director was quick to confirm.



A SINGULAR HONOR - Hack Wilson, who retires as NWC's Technical Director today, is shown with his wife, Jane, nearly a year ago when he was awarded the Navy Superior Civilian Service Award. Mrs. Wilson is fixing the insignia to his collar. Their expressions tell all.



rendering of Hack Wilson is Jones' second for The ROCKETEER. Previously, he did a similar sketch of Dr. Newton Ward. He is an instructor of illustration at Cerro Coso College.

The ladder of success which Hack Wilson climbed at China Lake included three years as associate head of the former Test Department, a year as head of Central Staff, and 151/2 years (January 1955 to August 1970) as Associate Technical Director. During one six-month period (July 1967 to January 1968) Hack was the Center's Acting Technical Director - a post which he stepped into with full authority more than 21/2 years prior to his retirement today.

### **Judgment Highly Valued**

His proven knack for molding together the civilian and military components of the Center's research and development organization through sound leadership, wise delegation of authority and skillful cultivation of managerial talents in others earned Wilson the Center's L.T.E. Thompson award in 1957.

This exceptional ability was recognized again a year ago when he received the Navy Superior Civilian Service Award, as well as in 1971 when he was singled out to receive the Capt. Robert Dexter Conrad Award for outstanding achievement in the planning and administration of research and development, particularly in the field of air-launched weapons. The latter is one of the highest awards that the Navy can bestow on a civilian scientist or engineer.

It's the consensus that everyone connected with the Center valued Hack's opinion and wanted to know what his views would be prior to embarking on a particular course of action - so stated one former longtime administrator at China Lake, "When people wanted an answer in regard to a course of action they were pondering, they talked it over quietly with Hack, who was always available," was another's comment.

### Good Hand at Helm

"He's the sort of fellow you can depend upon. You can be sure there's a good hand at the helm when he's in charge," stated a third top NWC official who adied, "He's a tremendously talented man."

"Adjectives about Hack Wilson that come to mind re knowledgeable, able, unruffled and cool under ressure. He knows when to be forceful and positive, nd when to back off," stated still another. "You'll ever see Hack lose his sense of what is apt to be the most effective step to take and become panicked into making the wrong move. These are the kind of things NWC will miss most when he departs," another longtime observer of the China Lake scene stated when asked to comment on Hack Wilson's retirement.

"Gracious, down-to-earth, a thoroughly understanding man" are the words yet another used to describe the NWC Technical Director. "His door has always been open to anyone and everyone - no matter how big or how small," yet another close associate added.

The respect and admiration co-workers and friends have expressed regarding Hack are equally matched by the affection that is felt toward his wife, Jane, who has been part and parcel of the China Lake community for nearly 23 years.

The Wilsons' two daughters Caralyn and Judy (both now married) were students in high school and elementary school when they accompanied their parents here in 1950, and are now parents themselves with youngsters (a boy and girl each) of their own.

### **Active in Community**

Over the years, Mrs. Wilson has been active with the Women's Auxiliary of the Commissioned Officers' Mess. In addition to holding the post of vicepresident, her WACOM participation revolved principally around the operation of the Thrift Shop and its philanthropic activities.

She also served as a Girl Scout leader, as president of the Ceramic Club, taught Sunday School classes, was a home service director for the Red Cross, and was one of the original members of the Ridgecrest Hospital's Pink Ladies Auxiliary. In addition, through Mrs. Wilson's leadership connection with the American Field Service program here, the Wilsons hosted the first foreign exchange student assigned to Burroughs High.

Membership in and support of the AAUW, Friends of the Museum and service on the Desert Counseling Clinic board also occupied a portion of Mrs. Wilson's time here over the years, and she was employed for 10 years by the China Lake Elementary School District as a teacher of primary grade level youngsters.

Reading and puttering around in his workshop are the hobbies that Hack will have more time to enjoy in his retirement years. The Wilsons' principal abode will be in Oceanside, but they will be passing through the Indian Wells Valley from time to time enroute to their cabin in the vicinity of Bishop, where they hope to be able to get away from the heat during the warm, summer months.

The Wilsons' retirement plans also call for traveling to England and Europe - something they have (until now) been forced to postpone.

## Nature at Its Finest on View in Panamint Mt. Area Trip

A leisurely four hour trip through Trong, over to Panamint Springs and up Highway 190 to Olancha can be very rewarding to geology buffs, amateur photographers, naturalists and desert

Along the way, side trips through Homewood Canyon to the Ruth Mine, or to the Minnietta Mine west of the Panamint Springs Rd., or east to Ballarat and Panamint City, may be taken.

The trip begins by taking the Trona Rd. east, past Trona and toward the Panamint Valley. Approximately 15 miles beyond Trona, a turnoff to the left into Homewood Canyon will take the sightseer through fields of wildflowers to reveal a small community that is not visible from the main road. The paved portion of this side road ends at the Ruth Mine, where reddish-colored tailings, taller than some buildings, give visible evidence of the age of

An interesting part of this side trip are the many old-time sluice boxes still to been seen standing at the edge of the large wash that runs down the middle of the canvon, where miners panned for gold many years ago.

Proceeding east, the traveler may elect to turn right up Wildrose Canyon to Emigrant Pass and Aguerreberry Point, both spectacular beauty spots. The turnoff to Panamint Springs may be found Canyon.

The road to Panamint Springs passes a dirt road on the left that will take the sightseer to the old Minnietta Mine, one of the first mines in the closed to the public. Panamint Valley. An unusual aspect of this part of

eruption during the Pre-Cambrian era and this area south of Highway 190 seems to be filled with the ash from that eruption.

After reaching Highway 190, a turn to the left toward Panamint Springs is indicated. From this site, where gasoline, souvenirs and refreshments may be purchased, the motorist will travel steadily upward, through a series of switchbacks filled with

During the spring, wildflowers are abundant and the colors of the volcanic rock, often covered with a light green moss, adds a wild beauty to the countryside. Many times during the trip a long valley, leading toward the Death Valley National Monument, may be viewed to the northeast. At the top of the climb is Father Crowley Point, a favorite spot for photographers. The lookout site is named for the Catholic priest who was killed in an automobile accident some years ago on Highway 6 (now Hwy. 14).

Three old towns with colorful pasts — Darwin, Keeler and Olancha — are to be found off Highway 190. Darwin is located 30 miles east of Olancha and there are many cabins, mine workings and a pumping plant still standing in the vicinity. A view of Panamint Valley, 12 miles away and 3,000 ft. below, is a rewarding part of the trip.

About eight miles east of Keeler is the old Cerro Gordo Mine. This mine has been idle since approximately 20 miles further east of Wildrose the early 1940s, however, in 1874 more than \$2 million worth of silver-lead bullion was hauled from the mine. There are still many buildings that can be seen from the road, although the mine itself is

Keeler was involved in the mining, milling, the trip is the ground area, which is covered by a teaming, shipping, woodcutting and charcoal fine ash. The entire area looks as if it was the burning connected with operation of the Cerro bottom of a lake many millions of years ago. The Gordo Mine. There are still many photographable Panamint Mountains were formed by a volcanic sights at Keeler, which is located on the north shore

NOW AT NAF-Ltjg. Robert C.

Englehart reported for duty

recently at the Naval Air

Facility and has been assigned

the duty of fuels and salvage

officer. Ltjg. Engelhart entered

the Navy through the NROTC

program at Illinois Tech in

Chicago, where he received a

bachelor's degree in mech-

anical and aerospace engin-

eering, before reporting to

Pensacola, Fla., for basic flight

training. While at Pensacola, he

also picked up a master's

degree in aeronautical systems

from the University of West

Florida prior to moving on to

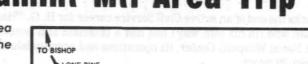
Kingsville, Tex., for advanced

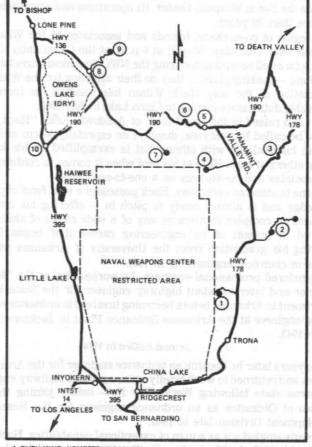
flight training. Ltjg. Engelhart,

who came here from Kingsville,

was accompanied to China Lake

by his wife, Patricia.





- I. RUTH MINE-HOMESTEAD CANYON 6. FATHER CROWLEY POINT MONUMENT

Olancha is the western end of the trip. It was also the "other" end of the shipping from Keeler to Olancha across Owens Lake. Motorists may turn down Highway 395 (left) for home, or they may elect to turn right and travel to Lone Pine and the gateway to the Sierras. But, that's another trip.

## Radiothon Scheduled As Golf Center Fund Raiser

in order to complete construction Kern Desert Business and Proon the golf center, currently being fessional Women's Club. erected east of the rodeo arena at the Desert Empire Fairgrounds.

Architect George Pomeroy has ters. Collection of phoned-in estimated that the golf center, donations will be handled by the when completed, will be valued at High Desert Citizens Band Radio \$175,000 when it is donated to the City of Ridgecrest. A pro shop and snack bar, connected by a covered breezeway, are nearing completion, but much work is yet to be

Planned for the 18-hole miniature golf course are replicas of Scotty's Castle, Lake Isabella and

Residents of the Indian Wells Valley will be asked to donate needed funds during a Radiothon over Radio Station KLOA, which is to be broadcast Sunday from 2 to 6 Volunteers for the Ridgecrest

Improvement Committee, spearheaders of the golf center, will be stationed at the Bank of America, phone 375-1311; Security Pacific Bank, 375-4425, and at Ridgecrest City Hall, 375-1321, to take telephone pledges from donors. Staffing the telephones will

#### Unification . . . (Continued from Page 1)

something which administrators and trustees of the two local elementary school districts posite is true since they have found that (taking 1971-72 as an example)

The Elks Lodge, in Ridgecrest, will be the Radiothon headquar-

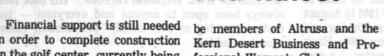
train during the Radiothon.

and Miss Johnny Horizon, Jennifer Hignite and David Walsh. Others who will ride on the train as it makes scheduled stops on the Naval Weapons Center and in Ridgecrest will be Kenneth Smith. Mayor of Ridgecrest, and members of the Ridgecrest Improvement Committee, including

housing area.

and Rowe Sts. to S. Lauritsen Rd., east to the Bennington Plaza area where it will circle the block before counter with reports that the op- proceeding along Halsey Ave. and

out the main gate. Boy Scouts, Girl Scouts, Camp between \$200,000 and \$600,000 in tax Fire Girls, 4-H Clubbers, Little revenue generated locally for Leaguers, and others who would Burroughs High was spent else- like to ride on the train during the where in the Kern High School Dis- Radiothon are asked to call Young



Roger Young, chairman of the Radiothon for the RIC, is inviting local youth groups to climb aboard the American Legion 40 and 8 train in support of the Radiothon. Blaine Davies, KLOA announcer, will be . making live broadcasts from the

On board the train will be Mr. Ted Edwards, chairman.

The train will enter the Center's Wherry housing site on Dorado St. at 12:40 p.m. Sunday and travel through the back gate and down through the Site B Capehart

It will then journey up Rodman

at 446-5884.

## Silent Film Program Slated Saturday at Lecture Center

A revival of interest in silent warzbach noted. films is currently under way at large college campuses in the of the "Golden Film Era" is \$1.50 United States.

Not to be outdone, Cerro Coso College's Associated Student Body has engaged Chauncey Haines, internationally renowned organist and silent film scorer, to present a program at the Burroughs Lecture Center at 2:15 and 8:15 p.m. tomorrow.

Haines has brought three silent films with him. D. W. Griffith's unforgettable "Way Down East," a Laurel and Hardy comedy, and one of Harold Lloyd's silent classics.

Haines has been associated with silent films and their scoring for 45 years. "This is entertainment the entire family can enjoy," said Sandee Schwarzbach, president of the student body. "Mr. Haines has met with great success everywhere that he has performed. He brings with him his own, oldfashioned theatrical organ and the scores that he has written are preceded by a brief verbal synopsis of the history of the film makers, themselves," Miss Sch-



Admission to see these classics

Chauncey Haines

for adults, \$1 for students, children and enlisted military men, and 75 cents for Cerro Coso student body

Tickets can be purchased at the Gift Mart in Ridgecrest, the Station Pharmacy, from members and stories of the silent film of the China Lake Rotary Club, or from Student Council members.

### Annual Meeting Set by Red Cross

Plans were announced this week to join a group of experts to inspect

will be Dr. Pierre St. Amand, head which must be received no later of the Earth and Planetary than Friday, May 4, may be made Sciences Division in the NWC by calling Mrs. Clarence Renne, at Research Department.

Dr. St. Amand, who was invited Cross, P. O. Box 5618, China Lake.

for the annual Red Cross luncheon damage caused by the devastating meeting, which is to be held on earthquake that struck Managua, Wednesday, May 9, starting at Nicaraugua, last Dec. 23, will 11:30 a.m. at the Chief Petty Of- discuss earthquake preparedness.

The meeting is open to all in-Guest speaker for this occasion terested persons. Reservations, 446-2426, or by writing to the Red

## **BHS Dramatists Prepare** For Opening of 'George M'

George M. Cohan, who billed mother, and maid, respectively. himself as "The Yankee Doodle Kid," and "The Man Who Owned and Phyllis Boyd is the production Broadway," will be brought to life pianist. Additional accomon the local stage when the Burroughs Players present "George M!" on May 4, 5, 6, 11 and 12 in the high school's Lecture

Friday, April 27, 1973

Acting, singing and dancing his way into the role of the title character, George White will lead an all-star cast of Burroughs High School thespians in the musical extravaganza.

White, who is a junior at BHS, made his dramatic debut in "Damn Yankees," produced in 1970. Last spring he played opposite his sister, Susan in "Once Upon a Mattress," and then at 2:15 p.m. on Sunday, May. 6. recreated Tommy Steele's role in "Half a Sixpence." His most recent role was in "The Student Gypsy."

Other experienced high school dramatists in the show include Debbie Wood and Stacy MacGregor, as Cohan's parents; Nancy Miller, as Josie; Patti Farris and Angie Lindsey as Cohan's first two wives; Mike Walker, in the role of Sam Harris; and Pam Renner, as famed Broadway star Fay Templeton.

Judy O'Connor and Teresa Orr will play Miss Templeton's

a background in engineering, physics

mathematics or other physical sciences and

(2) experience in or demonstrated ability for

File applications for above with Mary

Aerospace Engineer, GS-861-9, 11 or 12, or

Mechanical Engineer, GS-830-9, 11 or 12, or

Physicist, GS-1310-9, 11 or 12, PD No. 7345049,

Code 4575 — This position is located in the

Systems Division of the Propulsion

Development Department. The incumbent

must investigate, devise and implement state-

of the art pressurization systems into controls

in the application of modern pressurization

(solid and liquid gas generators and stored

gas) systems, and a working knowledge in th

theory and systems; actuators and power

supplies. Job Relevant Criteria: Experience in

the design and maintenance of solid and liquid

gas pressurization systems; knowledge of

analog computer simulation; experience

designing control systems. Minimum

Qualification Requirements: Four years

general and three years of specialized ex-

perience in accordance with CSC Handbook X-

Grossman, Bldg. 34, Rm. 204, Ph. 2925.

File applications for above with Linda

Computer Programmer, GS-334-7, PD No.

7340059, Code 4042 - Provides digital

programming support for the Avionics

Division programs, utilizing both large scale (UNIVAC 1108) and small scale computers.

rogramming efforts on small scale machines

require the incumbent to act as both machine

operator and programmer during program

Responsible for adequate documentation of

programs in both source annotation and

descriptive user instruction forms. Job

Relevant Criteria: Experience in computer

programming, including direct hands-on

experience in operation and assembly leve

programming of small scale machines. Ex

perience in magnetic tape file handling and

Univac 1108 job control language. Minimum

Qualification Requirements: As defined in

File applications for above with Elizabeth

Sodergren, Bldg. 34, Rm. 206; Ph. 2676.

assembly phases of typical assignmen

preparation, assembly, debugging, and

Applied Technology Branch, Propulstor

Morrison, Bldg. 34, Rm. 210, Ph. 2393.

operations research analysis.

Opportunities... (Continued from page 2) visitors and scheduling meetings. Minimum Qualification Requirements: As stated in CSC X-118. Job Relevant Criteria: typing required Operations Research Analyst, GS-1515-9, 11 or 12 (2 vancancies), PD No. 612009, Code 12-

These positions are located in the Weapons Planning Group. The primary functions of the Weapons Planning Group are (1) weapons systems analysis, (2) study of new weapon concepts, and (3) injecting into weapons design studies predicted future state-of-the-art characteristics of weapon components. In cumbents will perform analysis on models and weapon systems, synthesizing models and relating them to the problem in a general conceptual framework. Incumbents will Inyokern at 9:20 p.m. prepare written reports. Incumbents will be assigned responsibilities commensurate with their professional growth. Minimum Qualification Requirements: Minimum requirements as stated in CSC X-118. Job Relevant Criteria: (1) Applicants should have

at China Lake.

A special matinee (for which all tickets will be \$1) will be presented READY FOR SALVAGE YARD—Careless driving incidents, such as the one that produced the damage shown above, are putting a crimp in the Center's inventory of usable motor vehicles. Speed too fast for

### Golden West Air Flights Now Available to All

Alan Kubik will direct the show

paniment will be provided by

the BHS stage band, conducted by

Michael Garrett. Miss Miller is the

Tickets, priced at \$1.50 for

general admission and \$1 for

students can be purchased from

cast members, at the Station

Pharmacy, the Gift Mart, John's

Pizza Parlor or at the box office

prior to each performance. These

ticket prices will be for the May 4,

5, 11 and 12 performances, slated to

show's choreographer.

begin at 8:15 p.m.

Beginning Monday, regular civilian travelers - in addition to those on DoD travel orders - will be able to book flights on Golden West Airlines planes traveling between Inyokern and Los Change To Be Effective on Tuesday

The Public Utilities Commission has granted Golden West Airlines a certificate of public conveyance and necessity to transport passengers to and from Los Angeles and Invokern on week

The departure time Monday through Friday is 6:50 a.m. from Inyokern (Flight 903) - arriving in Los Angeles at 7:50 a.m.

Flight 904 departs from Los Angeles International Airport on weekdays at 8:25 p.m. and reaches

Travel arrangements by those not traveling on government or Navy business may be made by calling either Hucek's Travel Service in Ridgecrest or the Scheduled Airlines Traffic Office

NOW REGULAR NAVY - Ltjg. James C. Richards (right) holds a

certificate designating his augmentation into the Regular Navy

while (I.-r.) Capt. D. W. Alderton, NWC Deputy Commander, Capt.

T. R. Hendershot, Director of Supply, and Cdr. R. B. Nygaard,

Deputy Director of Supply, look on, Capt, Alderton officiated at the

ceremony during which Ltig. Richards was transferred from the

Naval Reserve into the Regular Navy. Currently the Food Service

and Retail Clothing Officer at NWC, Ltig. Richards reported here for

duty in May 1971, after attending the Navy Supply Corps School at

Athens, Ga. He enlisted in the Navy in September 1969 and was

commissioned an ensign upon completion of Officer Candidate

School at Newport, R.I., in April 1970. Ltig. Richards and his wife,

Verda, are the parents of three children — two sons and a daughter.

than NWC, China Lake

**NWC Adopts Standard Decal System**;

has announced a change from the present system of issuing decals, to the new standard decal system sporate members of the public established by the Department of

the driver who was responsible for damage to the vehicle shown above.

This change will be effective on Tuesday, May 1. The new system - The present method employed at will consist of four decals as

The NWC Director of Security

BLUE — denotes officer personnel (active duty, ready reserve,

(active duty, ready reserve, GREEN - denotes civilians whose official duties create a frequent

BLACK - denotes all other civilians and individual / cor-

the conditions of the road led to a single car accident last week on the T range road. In this instance, the

driver was fortunate to escape serious injury when excessive speed caused him to lose control of the

pickup truck he was driving and the vehicle went off the road. The driver over-corrected in an attempt to

get the machine back onto the pavement with the result that the vehicle went off the other side of the

road and overturned. Three similar accidents in the first quarter of this year have resulted in injuries to

five NWC employees, three of whom required hospitalization, in addition to the loss of the vehicles for

which there are no replacements due to the scarcity of funds. Administrative action is pending against

whose vehicles are authorized to be operated at NWC only and not other activities.

NWC requires an annual renewal them. of all decals other than those issued to active duty military.

The new system will permit RED — denotes enlisted personnel year period for NWC Civil Service year period. employees. One year periods will

be required for most other categories. Procedures have been estabneed for their vehicles to be lished which will permit an

driven on Department of orderly changeover with the least Defense installations other disruption by issuing the new decals on a one-to-one replacement basis to coincide with the ex- operated. piration of the decals currently used. In the majority of cases this will be accomplished through the

During the changeover period the present renewal notices will

### Visit Scheduled By USC Profs

Two professors from the University of Southern California are scheduled to visit NWC on Friday, May 11, to counsel currently enrolled and prospective students in the on-Center, USC Graduate Program in Engin-

The two advisors who will be here are Dr. Nasser Nahi, of the USC Department of Electrical Engineering, and Dr. C. R. Freberg, from the Department of Mechanical Engineering.

A general meeting is scheduled on May 11, beginning at 10:30 in Room 211 at the Training Center.

The afternoon of May 11 is being reserved for the counseling of individuals. An appointment for a counseling session with either advisor can be made by calling the NWC Education Office, ext. 2641, no later than Wednesday, May 9.

continue to be mailed to the registered owner(s). At the time individuals receive their renewal notice, they will be asked to enter any changes in registration information and mail the preaddressed card as indicated. The new decal(s) will then be mailed to

Detailed instructions as to how the decal must be affixed, will be sent with the decal. Most decals decals to be effective for a three will now be effective for a three

> Changes to the issuance requirements will result in a certification by the registered owner that his/her insurance policy meets the minimums established by the Department of the Navy, and or the state or locality where the vehicle is



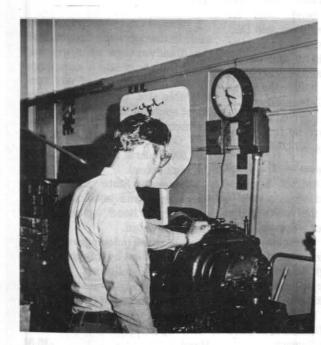
AT GARDEN CLUB - A talk entitled "Herbs - the Plant and the Spice" was presented at a recent meeting of the Oasis Garden Club by Mrs. Maria Wilkes. A master flower show judge, Mrs. Wilkes, who is 80 years old, lectures extensively on many garden subjects and is a garden consultant and critic for many estates in the Los Angeles area. For her local talk, she brought along a large collection of herbs and explained the uses of each plant as a ground cover, garden plant, food and drink, as well as for medicinal purposes. ROCKETEER



ADJ2 Robert Burch and ADJ1 Fred Mansfield (under engine) work on a jet engine in the Power



Paper work is important in the Quality Assurance Shop. Here, AZAN Steve Mendenhall fills out some forms related to the shop's work.



AMS1 Larry Peck operates a lathe in the Airframes Shop. Structural damage is repaired at this facility.



ADJ3 Denny Callaway removes the wing locks on an A7 Crusader on the NAF Hot Line. Lt. Eric Vanderpohl, an NWC pilot, can be seen in the background after returning from a flight.



RECORD ESTABLISHED — Ens. Frank Santoni (in pilot's seat) is greeted by Capt. R. S. Moore, Commanding Officer of NAF, at the completion of the historic flight. ADRN Kenneth Bush, an A-4 plane captain, stands on the ladder.

On April 10, Ens. Frank Santoni, a pilot at the Naval Air Facility, took to the air in a TA-4F Skyhawk on a routine project flight.

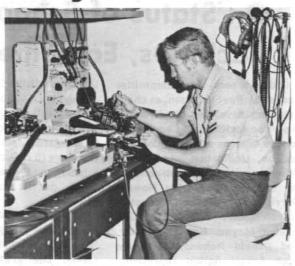
When he returned, he was greeted by Capt. R. S. Moore, Commanding Officer of NAF, and Lt. Truman D. Ware, NAF's Safety Officer. Ens. Santoni had flown the final increment of a 21,000 hour flight safety record that began in

Since that time, NAF pilots, airborne between 600 and 700 hours per month, have flown their birds without a chargeable accident. According to an NAF spokesman, this is the highest number of accident-free flight hours yet to be compiled by personnel of the Naval Air Facility.

On this page are photographs taken in various shops (by no means, are all of the shops represented here) at NAF. According to Lt. Ware, the men who work in the shops are as responsible for the safety record as are the pilots, and it is these men and their supervisors that NAF salutes for this milestone safety achievement.



CELEBRATION CAKE — Ens. Santoni wields a saber to cut a special cake, baked for the occasion. Capt. Moore, left, and Lt. T. D. Ware, NAF's Safety Officer, look on.



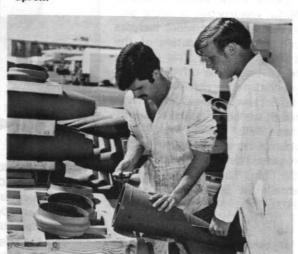
AT2 W. B. Angle checks relays in electronic gear down for maintenance. Angle works in NAF's



ACAN Jefferey Peterson gives landing instructions to an NAF pilot. Peterson's job in the control tower involves a knowledge of weather and



ADR3 D. R. Jones and ADJ1 Charles Malear (left and right, respectively) operate a tow truck, which pulls aircraft to parking positions on the



AO3 Charles Souza (left) and AO3 Rodney Patterson mount a tail fin on a bomb in the NAF Weapons Shop. All ordnance for aircraft is han-

## **New Program Encourages** Civilian Exposure to Fleet

The Chief of Naval Material on cruises of four to seven days in initiated a program last year for duration. During that time they are exposing volunteer CNM civilian exposed to the daily workings of

manders-in-Chief of the Atlantic support of the Fleet.

no previous exposure to the Fleet rized. and its at-sea environment, the NWC employees wishing to 5723.1A, which updates the program.

To date the program has been Crash Safety restricted to the Washington/ Norfolk area, but expansion to the Program Slated other areas is anticipated.

On the West Coast, the Combillets offered by the Commander, Engineers (IEEE). Third Fleet, who has been

Volunteers are usually included

### Searchers Join **Effort To Find** Missing 'Cyclist

Twenty members of the Indian Wells Valley Search and Rescue Team, headed by Capt. Sam Wyatt, took part Monday afternoon in the search for a young motorcyclist who disappeared while participating Sunday afternoon in a motorcycle endurance race.

Object of the search, which was coordinated by Sgt. Don Glennon, officer-in-charge of the Ridgecrest sub-station of the Kern County Sheriff's Department, was 14-yearold Tony Papa from Claremont.

Local search and rescue team members, riding in seven privately-owned 4-wheel drive vehicles, fanned out from search headquarters located at Government Peak, overlooking Rand-

The searchers covered portions of the route of Sunday's motorcycle race from California City to Ridgecrest and back - also checking as they did a number of other motorcycle race routes in the belief that the missing youth probably had gotten off the beaten path for Sunday's event.

A helicopter from Edwards Air Force Base also joined in the search, as did members of a Search and Rescue Posse from Bakersfield.

The search was called off at 6:30 p.m. Monday when the missing youth was found by a group of motorcyclists as he was attempting to push his out-of-gas machine toward Highway 14. Although tired and hungry, he was reported to be in good shape.

In addition to Wyatt, other IWV Search and Rescue Team members who responded to the call for assistance were Fred Camphausen, Bob Wilhelm, Bill Burns, Clyde Parker, Dick Aldrich, Ches Clark, Rick Davis, Ron Smith, Joe Paiement. John Pappon, Gary Peek, Jim Peachee, Al Pena, Homer Witwer, Al Flood, Hulen Frageman, Larry Thompson and Bob Padgett.

employees to Fleet operations. the ship. It is hoped that this ex-Called Face to the Fleet Cruises, posure will give them an insight the program was instituted with that may aid them and their the concurrence of the Com- commands to improve their

Since participants are volun-"It is the intent of the subject teers, any travel is at no expense to program to give Naval Material the government and no per diem or Command civilian personnel with other reimbursement is autho-

opportunity to observe and develop participate in a Face to the Fleet a basic knowledge in this area," Cruise should contact Joan Taylor, states NAVMAT Instruction Code 0232, for further information.

# Talk on Auto

Don Friedman, president of manding Officer of the Naval MINICARS, Inc., Goleta, Calif., Supply Center at San Diego will aid will be the guest speaker at the as the CNM's West Coast liaison next meeting of the Institute of and control for the assignment of Electrical and Electronics

The luncheon get-together is set designated agent for the Com- for next Friday, May 4, beginning mander-in-Chief Pacific Fleet for at 11:30 a.m. in the Mojave Room of the Commissioned Officers' diameter. The scattered light very

> Friedman will describe the automotive crash safety program is not found in most other inconducted by his firm for the struments that measure scat-Department of Transportation. tering. tank-type automobile protection to tremely sensitive one. softer, energy-absorbing

also discuss the stratified engine very accurately. concept and electric devel-



INTEREST SHOWN IN NWC PROGRAMS - Two State of California officials were at China Lake earlier this week for a briefing on possible civilian applications of military know-how. Information about weather modification, fire protection and anti-pollution programs, as well as research on geothermal power was presented to A. Earl Davis (at left) Science and Technology Coordinator for the State of California, and Dr. Gordon Snow (second from left), assistant to the state's Secretary of Agricultural and Services Agency. The visitors are shown with Dr. G. W. Leonard, head of the Propulsion Development Department, and George Linsteadt (at right), head of the Technology Utilization Branch in Code 45. The arrival here of Davis and Dr. Snow followed up a recent visit to see Gov. Ronald Reagan in Sacramento that was made by Rear Admiral Henry Suerstedt, Jr., NWC Commander, in order to acquaint the governor and his staff with activities currently being carried out here that have a potential for civilian use.



HAL BENNETT (right) and Dennis Burge examine the Modulated Ellipsometer mounted right and left

## Optics Lab Gets New Instruments...

(Continued from Page 1) which can be either a plane or concave mirror up to 16 in. in close to the specular direction can also be measured, a feature which

ROCKETEER

Because of MINICAR's extensive Since lasers are used as light testing at their sled facility, the sources, very small amounts of Department of Transportation has scattered light can be measured, changed its emphasis from rigid, making the instrument an ex-

In addition to being able to structure which produces lower measure light scattered by very shocks and decelerations on smooth mirrors, the Optical properly restrained passengers. Evaluation Facility can also This trend is particularly im- measure the amount of light portant in the case of very small reflected by the mirror being tested. In particular, extremely If time permits, Friedman will high reflectances can be measured

Both the scattering and opment for environmental clean- reflectance measurements can be made at a whole series of laser All interested persons are invited wavelengths ranging from 0.35 micron in the ultraviolet to 10.6

Physical Optics Branch, in con-dertaken. sultation with Jasperson.

The Modulated Ellipsometer material can be obtained.

### Advantages Cited

The ellipsometer is mounted on an ultrahigh vacuum system so are fed into a minicomputer and that it can make measurements on automatically processed. When mirror coatings in situ, before they are exposed to the atmosphere. The principal advantage of this new instrument is that once it is properly aligned, none of its parts have to be moved or adjusted. In conventional ellipsometers, at least one component has to be set in order to obtain the necessary information.

Because of a unique design employing a quartz transducer, the changes necessary to make two independent measurements are built into the light itself by modulating its state of polarization. This is part of the reason why the precision of this system is an order of magnitude better than that of unmodulated ellipsometers, and its accuracy is comparable.

Currently the Modulated the effects of small concentrations of contaminants (such as oxygen, techniques used.

microns in the infrared. Currently, water vapor, hydrogen and carbon measurements are being made at dioxide) on the reflectance of a the 0.6471 micron red krypton laser freshly prepared mirror surface such as silver. Preliminary results When fully operational the of these studies suggest that even Optical Evaluation Facility should small amounts of water vapor may be a very versatile instrument and have quite a harmful effect on the the most sensitive one of its kind in reflectance of silver when the highest reflectance is desired.

The system is presently being Another unique optical in- modified to allow heating and coolstrument, called a Modulated ing of the mirror either during or Ellipsometer, has recently been after the deposition of the reflectassembled and put into operation ing coating. This modification will in the Physical Optics Branch. The extend the capability of the original version was developed by system, particularly enabling Steve Jasperson, a consultant at studies of annealing and quenching NWC who is currently teaching at effects to be made. Also, studies of Worcester Polytechnic Institute in the temperature dependence of the optical properties of materials, The present instrument has been surface plasmon effects, and modified and improved by Dennis oxidation effects in amorphous Burge and Bob O'Handley of the semiconductors can be un-

### **FECO Scanning Interferometer**

In order to quantitatively automatically analyzes the state of characterize the microroughness polarization of a beam of light on mirror surfaces, the FECO reflected from a sample. When this Scanning Interferometer has been is compared with the known state developed by Dr. Jean Bennett, of of polarization of the light before the Physical Optics Branch. With reflection, the effect of the sample this unique instrument, multiple can be deduced. Thus, valuable beam interference fringes, which information about the optical contour the irregularities on properties of the reflecting mirror surfaces, can be observed visually or recorded using a special slow scan TV camera.

The data from the TV camera fully operational, this instrument will yield the root mean square roughness, height distribution function, mean slope, and other statistical properties of mirror

This system can detect extremely small amounts of roughness. For example, the root mean square roughness of the best polished fused quartz mirror surfaces produced by the bowl feed polishing process (also developed at NWC) is about 8 angstroms less than one five-hundredth of a wavelength of light.

Dr. Bennett has found that the infrared reflectance of mirrors can be decreased for roughnesses as small as 20 angstroms rms, and typical commercially polished mirrors range from 20 angstroms Ellipsometer is being used to study to 80 angstroms rms depending on the mirror material and polishing

unified and non-unified situations

(b) Only Federal income

connected pupils (pupils whose

parents both live and work on

consideration has been given to

income which might be received

parents work on but do not live on

874 is not as certain as income from

state and local sources. The ac-

companying tables are designed to

show these two sources separately

so the voters may determine the

impact of Public Law 874 funds.

No detailed analysis of projected

expenditures has been made by

this committee. All available in-

formation on expenditures for each

of the component school districts

includes expenditure of income

cannot be related to the income

projections that were analyzed.

The expenditures of a school

**Property Tax Rates** 

In 1972-73, the taxable residents

in the Indian Wells Valley, China

the following for elementary and

high school education (including

bonds): IWV, \$6.4060; China Lake,

\$6.2066, and Rand, \$4.5562. The

high school rate figured into each

In 1974-75 the projected rates

(still subject to some minor

changes) are IWV, \$4.9205; China

Lake, \$5.6087, and Rand, \$5.0014.

The high school rate figured into

each of those totals would be

\$2.4254. These rates would be in

effect, according to projections, if

If unification passed, the

maximum allowable rate (in-

cluding bonds) would be \$6.5293.

The projected rate if a unified

district board decided to use one-

half of PL 874 federal impact aid

funds to reduce the tax rate would

of those totals is \$2.6066.

unification failed.

be \$3,7023.

within these limits

federal property)



TOP PERFORMANCE CITED — Employees in the Pipe Shop Section of the Public Works Department's Maintenance-Utilities Division were the recent recipients of a group superior achievement award that was presented by Cdr. James L. Uhe, assistant Public Works Officer. The award, for fiscal year 1972, was in recognition of the record time set and outstanding manner in which Pipe Shop employees carried out the task of acid flushing and changing heating valves in 106 old duplex buildings (all equipped with individual boilers), and changing heating valves in an additional 218 old duplex housing units and 29 JOQ buildings. New tools were manufactured and new methods introduced to expedite the work. The employees whose performances merited the group superior achievement award are shown with Cdr. Uhe. They are (I.-r.) Clarence Bartholemew, Don Rodgers, Loren Chadwick, James Branch, Myrl McClain, Cdr. Uhe, Max Norris, James Crista, leadingman on the project, and John Dollman. Two other Pipe Shop Section employees unable to be present for the photo are Jimmy Dabbs and Basil

## Committee Studies Budget, Financial Matters Pertaining to School Unification

financial matters pertaining to school unification were studied by a sub-committee headed by Tony Squillace, as chairman. Others who served on this sub-committee and had a hand in compiling the following information were Patricia Kleinschmidt, Jim Heck, Mariana Vander Werf, Kenneth Holan, Miriam Martin, Lydean Garretson, Jackie Pappas, Walton Simmons, Charles Schultz and Sue Kinney, Burroughs High School liaison representatives were Alan Kubik and Michael McGrath.)

After an analysis of all available information the committee has attempted to clarify for the voter a very complicated situation in terms of all income sources as calculated by the various school handicapped, gifted, summer districts involved in this schools, driver training, vocational unification vote. The figures education, and transportation.

(Editor's note: Budget and reliable projected State and local available to districts in both income figures available.

> Included are the funds which on the basis of programs offered. would be available locally from state, local, and federal support for projections for Public Law 874 unified and non-unified districts, funds for category "A" federally with these exceptions: (a) State and Local income

projections used are from the State federal property) are used. No Department of Education and include only state basic, equalization, and supplemental aid, and local income from property taxes. They DO NOT include sources of income to school districts which are variable from year to year, such as federal grants for specific projects, state income for special education programs for physically handicapped, retarded, educationally reported represent the most These additional incomes will be

Estimated State, Local and Federal Funds Available for 1974-75 (excluding funds from variable sources)

IF NOT UNIFIED			
District	State & Local	Federal	Totals
Rand	65,000	0	65,000
IWV	1,947,000	0	1,947,000
CL	1,843,000	1,018,000	2,861,000
BHS	2,315,000	: 65,000	2,380,000
Totals	\$6,170,000	\$1,083,000	\$7,253,000

IF UNIFIED \$1,695,000 district \$8,237,000 \$6,542,000

### Estimated enrollments and funds per pupil for 1974-75 school year

District	Enrollment	Funds Per Pupi
Rand	66	\$ 980
IWV	2,346	830
CL	2,220	1,289
BHS	1,977	1,204
	IFUNIFIED	
Unified		
district	6,609	\$1,247

Estimated Combined Income Under Four Funding Alternatives For Burroughs Attendance Area (Elementary & Secondary School Districts)

Alternative 1: Nonunified component districts with no PL 874 Alternative 2: Nonunified component districts with full PL 874 category "A" student funding \$7,253,000 Alternative 3: Unified district with no PL 874 funding Alternative 4: Unified district with full PL 874 category "A" student

For comparison, note that the combined BHS, IWV, Rand, and China Lake actual expenditures for 1971-72 were approximately \$6,411,000.

## **Employees' Rights Under School Unification Outlined**

Study sub-committee on or- reorganization not occurred. ganization and staffing headed by Eva Bien, as chairman. Others who assisted in preparing this report were Jenny M. Allred, Clara Erickson, Kathy Hayes, Jeanice Hofer, Mariam Lambert along with Paul Coulter and Myra Terheun, liaison for Burroughs

Questions with Factual Answers Q. What are the employment rights of teachers in the present

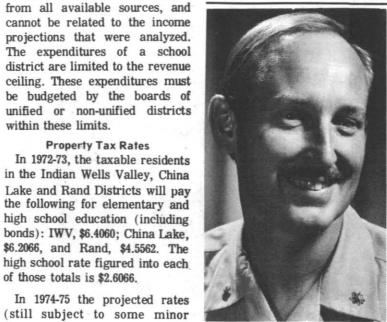
districts if unification is approved? A. A teacher of the elementary school districts who has tenure must be retained as a permanent employee of the unified district. A tenure teacher of Burroughs may choose between remaining with the Kern High School District or becoming an employee of the unified district.

Q. What are the employment rights of classified employees?

A. The Educational Code provides that classified employees are guaranteed employment for not less than two years. The governing board of the new district has the right to make reasonable reassignments. Elementary school district employees would become employees of the unified district. Employees regularly assigned to Burroughs would become employees of the unified district.

for category "B" pupils (whose Q. How would unification affect salary, sick leave, and other Federal income from Public Law

A. Teachers: Certificated emoloyees of the elementary districts or Burroughs who transfer to the unified district would retain all sick leave, sabbatical leave, and other leave rights (including vacation) which had been accumulated by service prior to transfer. The governing board of a new unified district must recognize these rights as fully as though there had been no change in the



LCDR. JAMES R. DARWIN reported aboard on March 1 to assume the duties of Point Defense Officer in Code 3009. The Albuquerque, N. Mex., native's last tour of duty was as the executive officer of the USS Hoel, a guided missile destroyer. LCdr. Darwin holds a bachelor's degree from Southern Methodist University, Dallas, Tex., and a master's degree in international affairs from George Washington University, Washington, D.C.

Classified Employees: All employment rights of teachers and employees would retain the salary, classified employees were dealt sick leave, and other benefits with by the School Unification which they would have had had the

Friday, April 27, 1973

Questions for which there are no factual answers. These answers are based on past experience of other unified districts and are Q. What is the effect of

unification on teachers' salaries? A. The salary policy of a unified district would be decided by the school board which the people elect. Past practice, in new unified districts, has been to adopt a salary schedule equal to or better than the best schedule of the original districts. This has been accomplished in every unified district formed in the state.

Q. Who will decide who gets reassigned and what is the potential impact of reassign-

A. The board of the unified district, like the present boards, would have the right to make reasonable reassignments. However, unification should create no new reasons for reassigning employees.

Q. Will the staffs be consolidated after unification? A. The only consolidation that is

certain is that there would be a single District Superintendent where we now have one for the China Lake and one for the Indian Wells Valley Elementary Districts. The superintendent of Kern High School District is not affected Rand District has no superintendent position.

Other areas which lend themselves to possible consolidation under one district are: Business office, maintenance service. supplies and warehouse service, food service, library service, transportation service, and special services. This list is not inclusive, nor should it be concluded that all these services would be consolidated.

Q. What happens to surplus

A. Surplus employees are dismissed in the reverse order of their seniority. Past experience indicates that dismissals are usually not necessary, since attrition and reassignments take care of most of the need for personnel reductions.

Q. What is the effect of unification on teacher recruitment for the high school?

A. The recruitment policy will

have to be determined by the new board. The question really becomes whether the drawing power of a smaller district (for secondary teachers) is equal to a larger district. Supply and demand affects the recruitment policy as much as district size and availability of funds. Presently the supply exceeds the demand, but it could change in the future. The high school teachers will lose the opportunity to transfer to other high schools in the district without any loss of benefits. On the other hand, with unification, high school teachers could have opportunity to transfer to either of the junior highs in the new district without any loss of benefits and junior high .teachers (with full secondary credentials) could have opportunity to transfer to high school

## **Subcommittee Reports** On Status of School Facilities, Equipment

(Editor's note: A subcommittee headed by Paul Erickson, as chairman, has developed the following report on facilities and equipment for the Citizens Advisory Committee on Unification of Schools. Others serving on this sub-committee with Erickson were Howard Derrickson, Frederick Johnston, Joseph Cloonan, Robert McGill, Evelyn Mayne, Kenneth Weiser, and Donald Romine. Burroughs High School liaison representatives were Charles Humphreys and

#### Population Forecast

It is fundamental to the question of school needs to anticipate the requirements in sufficient time to fund and construct the necessary facilities. The penalty for inadequate response is over-crowded classrooms, decreased morale, impaired quality of education. The need for facilities is based on present and expected population in the area served by the schools.

Rapid population growth has already had its effect on class size and scheduling in the Indian Wells Valley Joint Union School District and shortcomings in the distribution and location of classrooms have become apparent.

### Population on Increase

Estimates from the City of Ridgecrest Planning Department indicate that the present population is 10,325, rising to 14,000 in 1976. Continental Telephone Co. projections coincide with this estimate of the 1976 City of Ridgecrest population. This company's estimate of the current population of the Ridgecrest, China Lake, Inyokern, and Randsburg areas is 24,800 currently, rising to 27,500 in 1976 and to 30,000 by 1980.

All of these areas are predicted to rise at the same rate, except for China Lake where the present population of 10,900 is expected to decrease to 9,900 by 1976.

It is apparent that the growth rate of the area, which is exceeding the state and county rates, will require remedy of the expected shortcomings in the distribution of school facilities and will require a continuing re-examination of the needs for school facilities.

Status of Existing Facilities Rand School District: Construction will soon commence on a new 100 student capacity school building. Present enrollment is 63 students (March 1973)

China Lake School District: Major construction is being performed at present which includes complete rehabilitation of the existing buildings. This planning began before the current student population decrease began. This district now has vacant classrooms which are being rented to the Indian Wells Valley Joint Union School District. The outlook is for a continued decrease in students in the China Lake District. Present enrollment is 2,109 (September

### **IWV Union School District**

Inyokern attendance area - An architect is preparing the plans for a new building and rehabilitation of another. Funds are available for construction. Invokern attendance area needs for kindergarten through sixth grade are being met. Ridgecrest attendance area - Las Flores and Ridgecrest Heights Schools meet the earthquake safety standards. James Monroe has 5 buildings (5 classrooms, cafeteria, kitchen, and counseling offices) which do not meet earthquake standards

A need for classrooms is indicated for Ridgecrest Heights School by population distribution (K-6). The greatest need for classrooms in the district is indicated to be specialized classrooms for the educational program at the 7th and 8th grade level (intermediate level). An intense and continuing study of population growth and its distribution is needed to arrive at

Although the IWV School District is renting classrooms from the China Lake District, it has the disadvantage that this is an expense in the operating budget which reduces the amount available for the educational program. The outlook is for increase in student enrollment in the when comparing the school IWV School District, over the districts. To correct this inequality present (September 1972) total of

Burroughs High School: Present District if formed. facilities at Burroughs are in good condition and meet all standards. stock district office equipment and education facilities.

crease. Desired maximum size is possible (single item), cash 2,100 to 2,200 students at which equivalent of the appraised value

the Kern High School District next. classified as a "small high school" (less than 300). Located in two buildings recently purchased by immediate need. Bond issue of the district (former church and \$95,000 and State Aid of about church school buildings). There \$84,500 (precise amount not yet are some immediate construction available) was used to meet the

PATENT AWARDS PRESENTED - Dr. Hugh Hunter (at left).

head of the NWC Research Department, recently presented initial

holding patent awards to (from left) Anthony San Miguel, Alan

Woodman and Dr. Arnold Adicoff-all employees of the Chemistry

Division. San Miguel's invention, "Analog Gun (Selection of Con-

sumable Cartridge Materials)" provides a device for the selection of

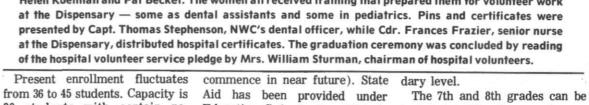
consumable cartridge materials by simulation of the condition of an

actual gun. Woodman and Adicoff's invention entitled "A Method for

Reducing the Viscosity of Aluminum-Gelled Fuels" is a method for

degelling or lowering the viscosity (thickness) of a hydrocarbon fuel

which has been gelled by an aluminum soap.



and other teaching equipment no bond indebtedness. Needs facilities. Special need at all available bond funds anywhere will be an immediate funding the 7th and 8th (intermediate within the new district. requirement for the Unified School level). Could partially meet needs

Equipment, warehouse material, operating budget funds. In September 1971, the IWV

Audio-visual, Other Equipment

in the availability of audio-visual

There is considerable inequality

Rand School District: Has met \$134,583 low bid for construction (to

80 students with certain re- Education Code Section 15518 to included at either the secondary or build new school so as to comply elementary levels whichever will with earthquake standards.

China Lake School District: funding program. Outlook is for excess facilities. Has

IWV Union School District: by renting from China Lake using

locker room facilities, expansion of are common property. If there is a and in February 1972, they unified district. library and faculty room, yes vote on unification, these authorized the borrowing of replacement of shop machines, properties will be divided, based on \$2,000,000 from the State "Public additional vocational a ratio of about 6.58 per cent to School Building Loan Fund." The Burroughs and 93.42 per cent to the first issue of bonds was for Present enrollment is 1.874 Kern H. S. District (still tentative). \$1,160,000 and they were sold Dec. (October 1972). Outlook is for in- Where division of property is not 1, 1971. Improvements and major repairs at Inyokern and James Monroe Schools are currently time a second high school facility of the property will be prorated. being designed using the bond School construction programs of sales proceeds. Estimated cost of Mesquite High School: One of the the future under non-unified or all projects being planned to date is 'continuation high schools in unified conditions are considered \$486,912. There are no firm plans for the remaining \$673,088.

> High School Level — The Kern High School District is contemplating a bond issue question to be submitted to the voters in the Fall of 1973 or Spring 1974. Burroughs and Mesquite High Schools will be included.

Burroughs High School also has an approved project construction eligibility for \$956,000 in federal funding under Public Law 815 Section 5. These funds may become available in 3 to 5 years.

### **Unified District**

According to the terms of this election, the unified district would assume all of the existing bonded indebtedness of the components. All taxable property in the unified district will be taxed as necessary to meet the combined (all in one total) obligations existing at the time of formation of such district -(July 1, 1974).

Kern High School bonded indebtedness will be prorated to the new district on a ratio of the total assessed valuation existing in the three elementary districts during the year 1971-72 to that existing in

The new district will then have legal limits of bonded indebtedness level and 5 per cent at the secon-

READY TO SERVE - Nineteen Red Cross hospital volunteers were graduated recently during a ceremony that took place in Ward 1 of the NWC Dispensary. Shown in the photograph are 13 of those who completed the 15-hour course. They are (seated, I.-r.): Mary Clinton, Gail Connell, Martha Levenberg, Rene Tate, Carol Morris and Barbara Hinman, and (standing, I.-r.) Maria Sediak, Shirley King, Mary Gibbons, Karin Hull, Mary Ann Kaufman, Myrna Covert and Kay Adams. Other graduates, unable to be present for the photograph, were Joan Ellefson, Lorrie Van Hagan, Sharleen Carrell, Doe Keihner, Helen Koelman and Pat Becket. The women all received training that prepared them for volunteer work

establish the least overall costly By having assumed the bonded

indebtedness of the component districts, the new district may use

With respect to the approved project construction eligibility of \$956,000 in federal funding under Public Law 815, Section 5, for Needs include improved food other portable (non-built-in) assets School District's voters authorized Burroughs High School, assurance service facility, additional gym of the Kern High School District the issuance of \$2,000,000 in bonds was given it would still apply in a

> Alternatives for funding school construction in a unified district

1. "Pay as you go" with funds set aside in the operating budget. Has the disadvantage of requiring much time to create a sum large enough for a project of any considerable size. Has the advantage of not spending money for interest

2. Continue to work for the \$956,000 Federal fund eligibility at the high school.

Meet the State requirements for planning and justification and enter the "Bond" plus "State Loan" program.

### **Bonded Indebtedness**

Investigations by this committee project the following probable bond tax rates:

Non-Unified in 1974-75 per \$100 assessed valuation - \$0.55 I.W.V

Unified in 1974-75 A rate of \$0.5953 per \$100 assessed valuation is the projection given in the "Statement of Information by County Superintendent of Schools" which is included with the election ballot. This committee concluded that if the growth in the assessed valuation continues, the rate could

In addition, this committee found that the unified district would acquire the obligation to repay the State Aid provided to the Rand District to build a new school meeting earthquake standards. the High School District during the This would be in addition to the General Fund Tax Rate computed in accordance with Senate Bill 90. It is expected it would only be on of 5 per cent at the elementary the order of \$0.03 per \$100 assessed

be as low as \$0.52.