



NEW COMMODORE of the China Lake Boat Club, Charles "Chuck" Adams, is congratulated by outgoing commodore, Art New (right), at installation ceremonies last Friday evening. Other new officers are (l-r, front) Jeanne

Schaller, recording secretary; Jackie Creasy, treasurer; Blanche Adams, membership chairman; (rear) Ellsworth Everett, program chairman, and Dick Carlisle, vice-commodore.

'Cleanup For Easter' Campaign Gets 'Go' Sign Here March 22

A Station-wide "Cleanup for Easter" campaign, sponsored by the China Lake Community Council, will get the official go-go-go sign from Mr. Easter Bunny on March 22.

Bare-Root Time Is Running Out! Do It Right Now

By Mary Wickenden

It's the last call for planting bare-root trees, shrubs, and roses for this spring. In our desert, as any gardener can tell you, spring often ends abruptly in mid-April or early May and the summer heat is then with us. So if you are planning to plant that tree this year, or try your hand at roses, do it now!

The roots of any plant need lots of water, an improved soil, enough space, and some time to get established. Give a plant a good start and it will reward you for years - but if you aren't prepared to dig a big enough hole to give the roots room to spread out, buy a bag of peat moss or leaf mold to mix with the soil, or water your plant every day until it begins to flourish.

Mix the peat moss or leaf mold into the heap of soil (often just plain sand) which has been dug out of the hole - the ideal mix is half humus and half sand. Then make a cone of the plant-soil in the hole, tamping it down so the plant won't settle to much later, set the plant in and spread out the roots over the cone, fill in the hole, tamping the soil gently over the roots, and soak thoroughly. Don't put fertilizer in the planting hole as it will burn the new roots.

The level of the planting is usually just above the root crown for trees and shrubs, and just below the bud union (where the canes come out) for roses. Look for plump green canes in roses and limber twigs in trees when you are buying bare-root plants. Shrivelled canes and brittle twigs mean a dead or dying plant. Roses coated with wax are always inferior to those sold in their natural state. Look at the plant and not at the pretty pictures in the nursery when you are buying bare-root stock.

Soaking in deep water (the garbage can does nicely) overnight or for several days before planting helps get the plants off to a good start.

'Carnival in Flanders'

The Cercle de la Langue Francaise will meet on Thursday, March 18, at 8 p.m. in Room C of the Community Center. The classic French film comedy "Carnival in Flanders" (French dialogue with English subtitles—1936) will be shown. Members who plan to attend this meeting are asked to notify Gaye Ritter, 71616 or 725514.

A coordinated program has been planned for the Springtime beautification drive, with full cooperation of the Oasis Garden Club and the Public Works Department.

During the work week beginning March 22, Public Works Officer Capt. C. A. Reilly will have men and trucks touring the Station - area by area - picking up all junk and trash which can be hauled away. LCDR R. K. White, Asst. Public Works Officer, is in charge of the campaign, with Jim Greenfield supervising. Representing the Council is Dick Zabelka, chairman of the community improvements committee.

Also, a "Yard Beautiful" contest will be conducted, with awards and recognition citations being presented to winners.

The Garden Club's contribution will be a series of articles by Mary Wickenden on garden and lawn tips and proper plants for the area. Her first article is adjacent to this column.

Garden Club members will also be judges in the "Yard Beautiful" contest. The judging will be conducted after Easter when most blooms are full.

The four-week-long cleanup-and-pickup campaign, beginning on the 22nd, will be divided into four areas, with trash trucks touring one area each week.

Here is the schedule:

Area I (Wherry Housing - March 22-27.

Area II (north of Blandy and Hill) - March 29 - April 2.

Area III (from east of Richmond, west to Lauritsen, south of Blandy) - April 5-9.

Area IV (west of Lauritsen, south of Blandy including south Capehart area) - April 16-16.

Public Works trucks will tour the designated area each day of the week. Residents should place junk and trash at the curb, not in the back alley. Loose items should be placed in boxes which should be stacked as neatly as possible.

These pickups are not for garbage and burnable items, but for excess trash which cannot be handled in the normal pickups.

Community Band To Present Concert

The second in a scheduled series of annual concerts by the Desert Community Orchestra will be given Monday, March 15, at 8 p.m. in the James Monroe school auditorium.

The program, conducted by Albert Warren, will range from Haydn's Symphony XV in B major, known as La Reine, to the Great Gates of Kiev by Modeste Moussorgsky.

The concert will be followed by a reception for the audience and musicians.

From _____

PLACE
STAMP
HERE

TO _____

Anchors Aweigh(t)

Each of the two anchors aboard the carrier Midway weighs 40,000 pounds. The ship is homeported at Alameda, Calif.

NOTS-ONR To Confer On Lab Management

Scientists From Throughout U.S. Here For Confab

A group of distinguished scientists from throughout the nation gathers here tomorrow with its NOTS counterparts for a five-day conference on the Management of a Research Laboratory.

The conference is jointly sponsored by NOTS and the Office of Naval Research. Coordinator of the discussions is Dr. Maynard Shelly from the Logistics and Mathematical Statistics Branch of ONR. He will be acting as a member of the Station's Management Research Group, Central Staff, until the conclusion of the conference on March 17.

Capt. John I. Hardy, COMNOTS; Dr. Wm. B. McLean, Technical Director, and H. G. Wilson, Associate Technical Director, are scheduled to participate in the meetings and urge all other station personnel interested in attending to contact Dr. Shelly on Ext. 71790.

The conference has two principal purposes:

1. To elucidate the problems of the research and development laboratory as problems in a specialized type of system or "society," and to associate whenever possible these problems with those empirical findings and theoretical or formal results in the relevant literature.

2. To suggest possible useful innovations in the management of a research and development laboratory when the laboratory is viewed with a specialized type of system or "society."

The conference as a whole will consist largely of a series of small discussion groups.

For purposes of efficiency, some parts of the conference will bring all participants together into a single group. There may be one or two orientation sessions during the first or second day.

Scientists from off-Station who are planning to attend are Dr. Robert Boguslaw, Systems Development.

(Continued on Page 2)



Vol. XX, No. 10 Naval Ordnance Test Station, China Lake, California Fri., Mar. 12, 1965

'Thinker' Award
Sets New
Record Here
Story on Page 3

First NOTS 20-Year Pins Awarded To Ten



FIRST NOTS 20-YEAR PINS AWARDED - Eight of nine Station employees were awarded the first NOTS 20-year pins Monday. Pioneer employees Hazel Coleman, Marie Kochman, Deleta Munn, and Theresa (Rose) Gonzales (front row, l-r) are flanked by Dr. McLean, Capt. Hardy, and H. G. Wilson. In

back (l-r) are Paul Williams, Gordon Standard, Robert Shaw, and K. H. Booty. Anna K. McDuff, the ninth awardee, was presented her pin shortly before she went on annual leave and was not present for ceremony. Coleman, Kochman, and Gonzales came here as Waves.

Best Rain of the Year So Far

An estimated .70 of an inch of rain fell in the area yesterday, undoubtedly the healthiest downpour of the year so far. Wildflower enthusiasts were "wild" with glee, knowing that the steady moisture would bring a greater profusion of blossoms in spring. Forecaster Don Farnham at NAF expects some widely scattered showers today, mostly in the mountains.

Nine Pioneers Here And One In Pasadena

By BUDD GOTT

Another milestone was marked in the history of the Station when 10 of its pioneer employees were awarded the first NOTS' 20-year service pins last Monday.

Eight of the nine China Lake employees were present for the special awards ceremonies held in the Station Commanders' office, while one award was made at Pasadena. The story of the presentation to Marie C. Broshious in Pasadena appears on page 6.

Each of the early-day employees remembers well helping to pioneer an embryo rocket test facility into the Navy's largest ordnance research and development center, and a desert wasteland into a modern community of some 14,000 people.

They remember, too, the dust, quonset huts, meals in Navy mess lines, and miles of ditches during the wartime years of building a community.

Hazel Sides Coleman, a management analyst with Central Staff, arrived on the scene on July 18, 1944, as a Wave.

"Fresh from boot camp at Hunter's College, N.Y., and yeoman school, I thought I'd reached the end of the world when I arrived by train at Mojave after traveling across the continent and from my hometown of Lusk, Wyo.," she recalls.

"I knew I had when I was journeyed by a Navy bus over dirt roads to the lonely Waves barracks, now the Personnel Building, next to the Station Restaurant."

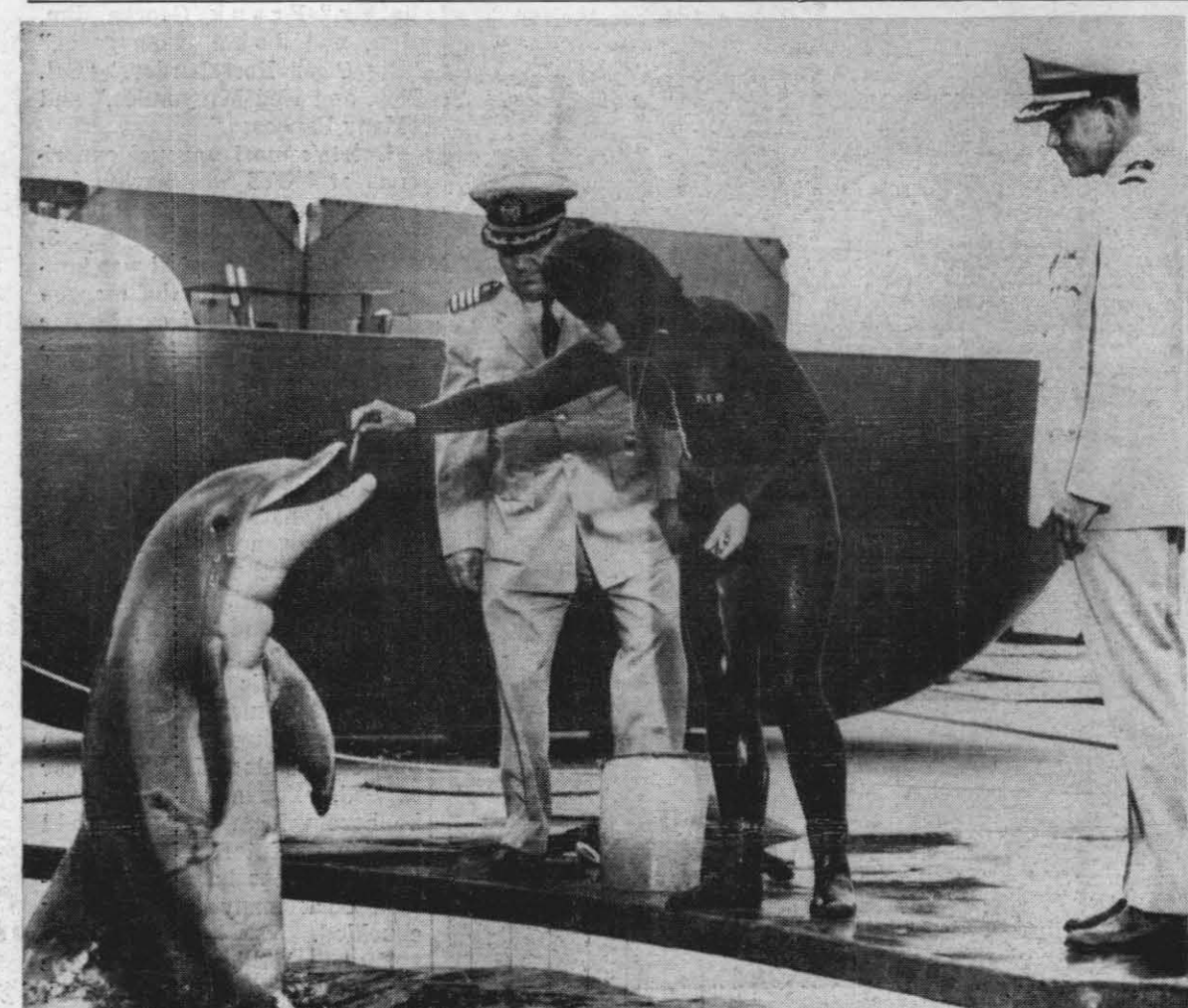
Marie Ortega Kochman, also a Wave, was the next to arrive on Aug. 12, 1944. Like Hazel she was fresh from boot camp and yeoman school at Cedar Falls, Iowa.

Discharged at the end of World War II, Marie went to work for Abraham Lincoln Pittenger at Salt Wells.

In 1946, Marie transferred to TID where she serves as publications assistant.

Gordon Standard, a quartermaster with Public Works, is one of the real "oldtimers." He was brought to the Valley at the age of two when his father, Harley, homesteaded at Inyokern in 1914. He went to work for the Station on July 7, 1944.

He recalls that when the Navy (Continued on Page 2)



"DOLPHINS THAT JOINED THE NAVY" - a "Survey '65" feature on NBC, will be broadcast Saturday, March 20, featuring NOTS conducted porpoise studies. Location still photograph, made at the Pt. Mugu porpoise pool during film's production, caught

trainer-attendant Debbie Duffney feeding one of the film's "stars" while Capt. G. H. Lowe (left) and Naval Reserve Commander Glenn Ford watched. Ford narrates program. Show will be broadcast via KNBC at 7:00 p.m. as half-hour program.

CROSSWORD PUZZLE

Answer to Previous Puzzle

ACROSS

- 1-Cheer
- 4-More recently
- 9-Parent (colloq.)
- 12-Anglo-Saxon money
- 13-Wipe out
- 14-Exist
- 15-Chatting
- 17-Incline
- 19-Foggy
- 21-Conjunction
- 22-Winter vehicle
- 24-Lamprey
- 26-Dispatched
- 29-Fashions
- 31-Cry
- 33-Female deer
- 34-Exists
- 35-Speak
- 37-Tavern
- 39-A state (abbr.)
- 40-Afternoon party
- 42-Damp
- 44-Memoranda
- 46-Is mistaken
- 48-Parent (colloq.)
- 50-Transaction
- 51-Corded cloth
- 53-Part of jacket
- 55-Packed away
- 58-Feel indignant at
- 61-Haul
- 62-Citrus fruit (pl.)
- 64-Recent
- 65-Paid notices
- 66-Sumptuous meal
- 67-Also

DOWN

- 1-Take unlawfully
- 2-Exist
- 3-Damaged
- 4-Allows
- 5-Rugged mountain crest
- 6-Symbol for tantulum
- 7-Worm



- 8-Depend on
- 9-Gasped for breath
- 10-Worthless
- 11-Footlike part
- 16-Helped
- 18-Roman bronze
- 20-Affirmative
- 22-Strike
- 23-One defeated
- 25-Tennis stroke
- 27-Story
- 28-Plague
- 30-Seed
- 32-Prohibit
- 36-Spread for drying
- 38-Flowers
- 41-Darts
- 43-Hindu cymbala
- 45-Natural gift
- 47-Weight of India
- 49-Challenges
- 52-Lure
- 54-Nuisance
- 55-Musical as written
- 56-Bushy clump
- 57-Expire
- 59-Comb. form
- 60-Couple
- 63-Parent (colloq.)



Distr. by United Feature Syndicate, Inc. 24

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A SHADOWBOX-type illustration of the Redeye missile in action is presented to Capt. John I. Hardy, ComNOTS, by Major Dale Huddleston, USMC, in recognition of the station's support in the Redeye flight test program. Until recently, NOTS was the only test site since 1959. It is now also being tested by the Marines and Army at Fort Bliss, Texas.

Dr. Hugh Hunter Returns Monday to Head Research

Dr. Hugh W. Hunter is expected to arrive here this weekend to take over the reins of the Research Department on Monday. He returns to the Station after an absence of more than five years. During this period he served as vice president of the Research Triangle Institute near Durham, N.C.

Dr. Hunter will fill the vacancy created last September when Dr. T. E. Phipps left to join the staff of Dr. Eugene G. Fubini, Assistant Secretary of Defense and Deputy Director for Research and Engineering.

This will be Dr. Hunter's third affiliation with the Station. He was head of the Propulsion Development Department from July, 1956, to Aug. 1959 when he left.

During other tours here he served as Head of Central Staff, Associate Head of the Research Department, on the technical staff under Dr. L. T. E. Thompson, the Station's first technical director, and as a Research staff member at NOTS Pasadena.



DR. HUGH W. HUNTER

NOTS-ONR Scientists in Confab on Labs

(Continued from Page 1)

ment Corp., Falls Church, Va.; Prof. Richard Brandenburg, Graduate School of Industrial Administration, Carnegie Institute of Technology, Pittsburgh, Pa.; C. E. Krutbosch, Space Sciences Laboratory, University of California, Berkeley, Calif.;

Prof. William W. Cooper, Graduate School of Industrial Administration, CIT, Pittsburgh; Dr. Ray Hainer, vice president, Arthur D. Little, Cambridge, Mass.; Dr. Joseph Hanlon, Department of Psychiatry, Stanford University, Palo Alto, Calif.; Prof. Ellis Johnson, Director, Systems Center, Case Institute of Technology, Cleveland, O.; Prof. Gustav Rath, Department of Industrial Engineering, Technological Institute, Northwestern University, Evanston, Ill.;

Prof. Philburn Ratoosh, Center for Research in Management Science, University of California, Berkeley; Prof. Herbert Shepard, Organization Science Division, Organizational Behavior Group, Case Institute of Technology, Cleveland; Prof. Frank P. Sherwood, Department of Public Administration, University of Southern California, Los Angeles;

Prof. Richard H. Willis, Department of Psychology, Washington University, St. Louis, Mo.; and Dr. William E. Wright, Head, Physical Sciences Division, ONR, Washington, D.C.

There will be a social hour in the Sun Room of the Executive Dining Room tomorrow 6:30 to 8:30 p.m., in honor of the visitors.

Blue Cross Ins. Agent To Visit Station Wed.

Jacques Gillard, Blue Cross representative from Bakersfield, will be at the Community Center on Wednesday, March 17, between the hours of 9 a.m. and 4 p.m.

'Woman of the Year'



DR. MARGUERITE M. ROGERS, Head, Air-to-Surface Weapons Div., Code 403, receives the "Woman of the Year" award from BevAnne Ross (right), charter president of the China Lake Business and Professional Women's Club. Dr. Rogers was cited for contributions to civic, community, and government affairs. She will be the club's nominee for district, state, and national "Woman of the Year."

First NOTS 20 - Year Pins Awarded to Ten

(Continued from Page 1)

came in 1943 it was one of the biggest boons to the Valley but no one thought it would mushroom into a permanent installation of 14,000 people. They thought it would fold after the war.

Kelvin H. Booty, Engineering Department Head, came to the Station on Sept. 1, 1944, from head of Chicago's Central Scientific Company's engineering department.

Highlight of his NOTS career came in July, 1947, when he was

the first to occupy an office in Michelson Laboratory after some three years of buying machine tools and laboratory equipment during construction of the lab. Since coming to China Lake, he has seen two decades of growth at NOTS, community-wise, engineering-wise, in addition to great technical progress.

There were blanketed Indians everywhere. They were contractor employees.

She recalls such colorful names as "Mark Sodapop," "Willie Elk," Frank, George, Jim, Ken, and John "Manygoats," "Big Cigar Horseherder," "Cal, Key, and Ned Manyules," and "Many Papooses."

Deleta's most unusual experience at NOTS was having her appendix removed in the Station morgue! It occurred on Jan. 3, 1945 while the hospital was temporarily housed in the morgue during its move from former quarters (the present Rocketeer Office) to the present site of the Station Hospital.

Robert E. Shaw, a quarterman electrician with Public Works, hired in at NOTS on Oct. 16, 1944. A native of Gainesville, Mo., he began his Civil Service career with the Puget Sound Naval Shipyard, transferred to Terminal Island, then came to NOTS.

Shaw recalls cautioning Station horticulturist Oscar Glatz against planting trees under the power lines along Halsey. Oscar replied, "You and I will never be here when they get tall enough to interfere." "Since then the trees have been trimmed back many times," Shaw chuckled.

Paul D. Williams, a Public Works' structural inspector, came here on Nov. 18, 1944, in the midst of a China Lake sandstorm! "The sand-storms in those days," Paul reminisced, "were man-sized. The wind

(Continued on Page 3)

Slate Little League Meeting for March 23

The China Lake Little League Association announces an organizational meeting for 1965 to be held at the SeaBee Building, corner of Lauritsen and Nimitz, on Tuesday, March 23, at 7 p.m.

SPORTS QUIZ

1. Zoilo Versalles of the Minnesota Twins led the American League in what category in 1963?
2. In 1957 which Washington Senator pitcher set an American League record by chucking how many "gopher balls?"
3. What 1963 National League team allowed only 95 home runs; the fewest in the majors that year?
4. The Chicago Cardinals beat the Chicago Bears, Nov. 28, 1929, by a score of 40-6. Which member of the Cardinals scored all 40 points for his team?
5. How many National League players saw action during the 1964 season?
6. The New York Yankees set an American League record by winning how many games in succession from the old St. Louis Browns?
7. When the Washington Redskins beat the Philadelphia Eagles, 7-6, Nov. 5, 1939, what pro football record did Sammy Baugh set?
8. By how many lengths did Man O'War win the Belmont Stakes and the Lawrence Realization?

Answers to Quiz

1. 100 lengths.
2. 10.
3. 10.
4. 10.
5. 10.
6. 10.
7. 10.
8. 10.

Volleyball Schedule March 16

- 6:30 P.M.
Washouts vs. NOTS Div. 1
Chukars vs. NAF Blue
8 P.M.
Terriers vs. NAF Gold
NOTS Div. 15 vs. VX-5
March 18
6:30 P.M.
Washouts vs. NOTS Div. 15
Chukars vs. NAF Gold
8 P.M.
NAF Blue vs. VX-5
NOTS Div. 1 vs. Terriers

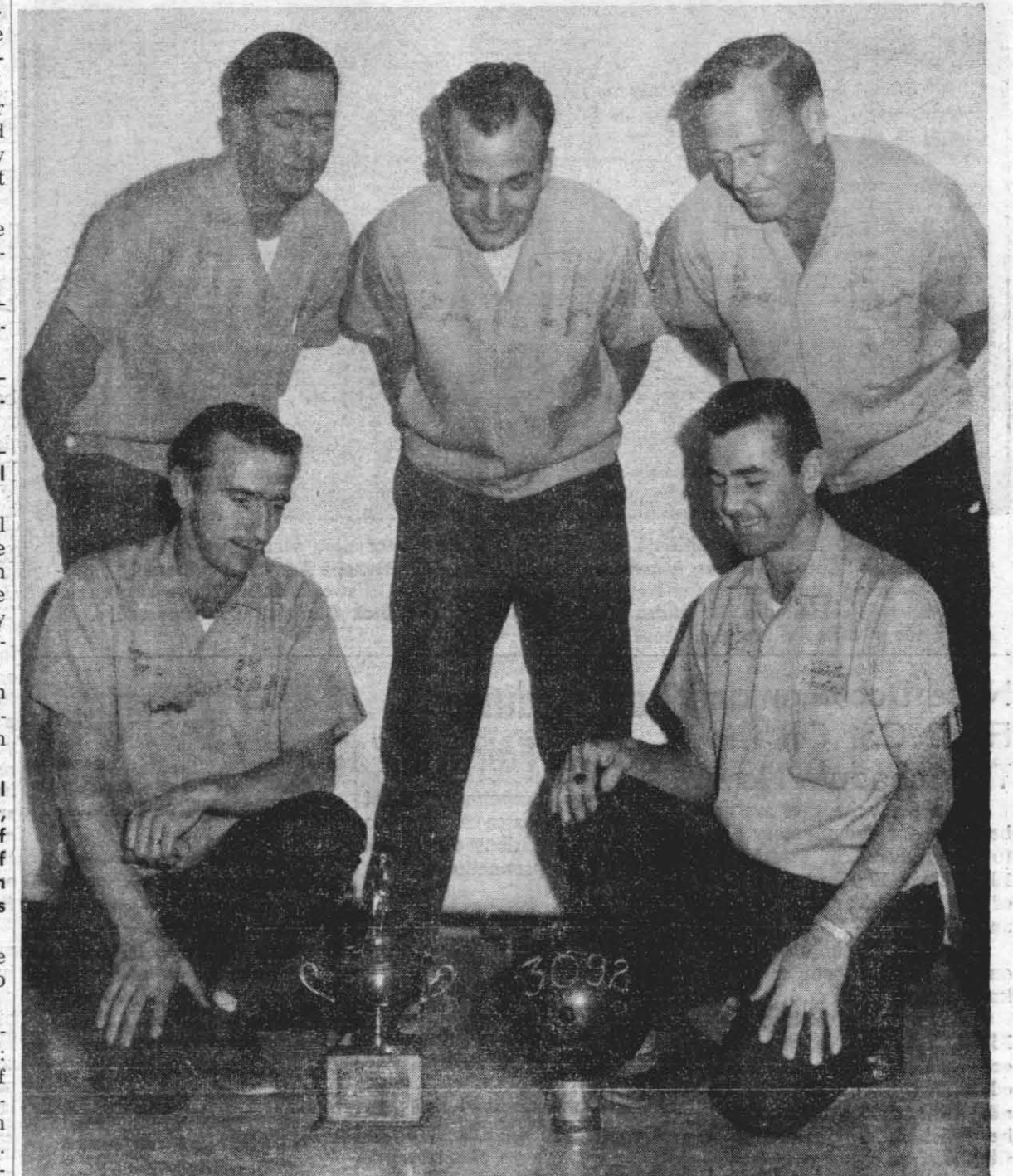
Millett To Head IWV Navy League

Robert B. Millett of Genge Industries was elected president of the Indian Wells Valley Council of the Navy League at the Council's meeting held Monday night at the Hideaway. He will succeed William B. Puckett.

Others elected to Council offices were Nick Zissos, first vice president; Robert Balcom of China Lake, second vice president; George Hucek, secretary; and Leo Simonton, treasurer.

The electees will assume their new posts at the Council's annual installation dinner to be held on April 8.

China Lake Bowlers Win Team Event Championship



TEAM EVENT CHAMPS admiring their trophy are (front) Tom Zurn and Dick Zinke, (rear) Jim Poore, Ed Donohue and Bob Dausch. They broke 1952 record.

China Lake bowlers in the Men's Annual City Tournament won the team event last Saturday by shooting games of 904, 978 and 970 for a 2852 scratch series, and a 3092 with handicap.

Members of the championship team, who are officers of the Ridgecrest-China Lake Bowling Association, are Bob Dausch, Ed

Donohue, Jim Poore, Dick Zinke and Tom Zurn.

The association secretary reports that their 2852 and 3092 scores are the highest bowled in the team event since 1952! The previous high was 3033.

The second place team, Fosters Freeze, also topped that mark with a 3050 (handicap) and

2670 scratch. Of the champs, Ed Donohue also walked away with individual honors by rolling a 247 in a 602 series! Other high scorers were: John Dragovich, 237; Charles Roulund, 237; Earl Roby, 237; Ralph Pinto, 235; Jay French, 234; Bob Kochman, 233; Alex Iorillo, 231 and Joe Winter, 230.

Top series over 580 were bowled by Clinton Green, 593; Dick Zinke, 590; Tom Short, 588; Earl Roby, 586; Jim Poore, 584, and Frank Grober, 582.

Forty-eight teams participated in Saturday's event and now look forward to this weekend's single and double events at the China Lake Alleys. The windup will be next weekend.

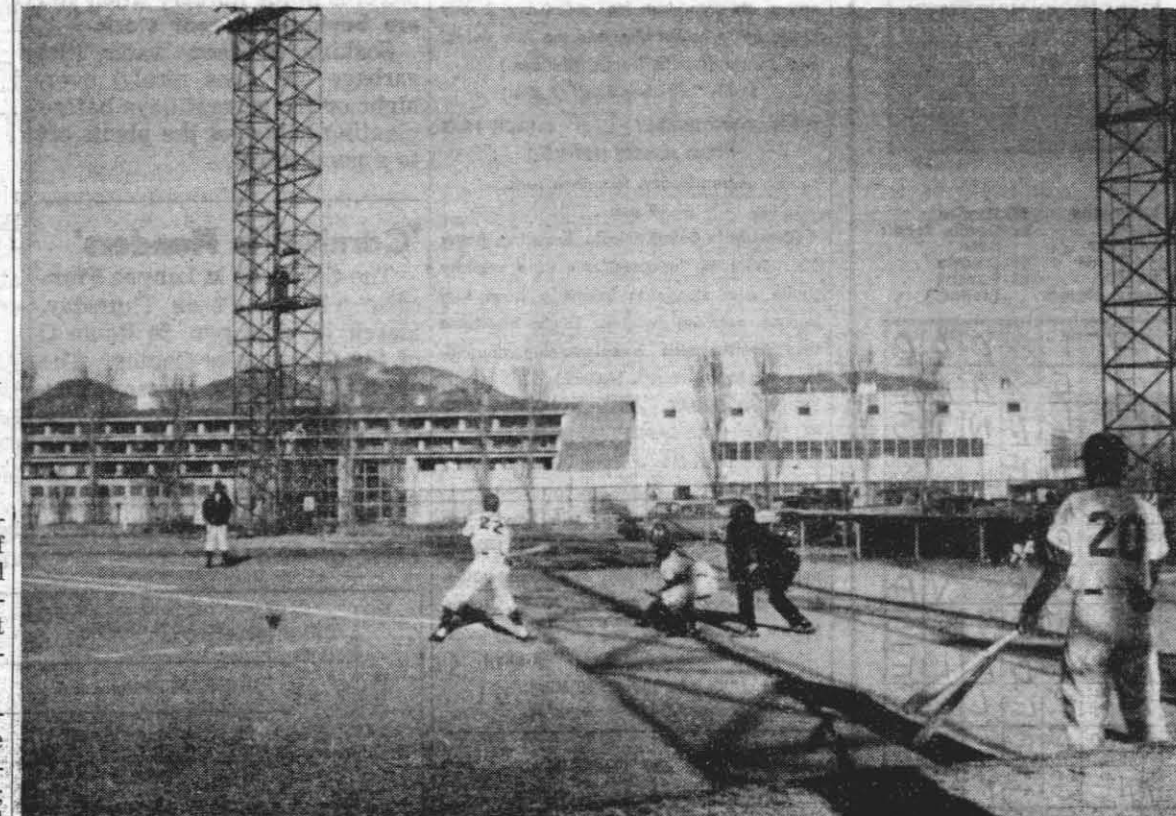
The Team Event placings from third to tenth were as follows:

| Team | Scratch | Hand. |
|------------------|---------|-------|
| 3. Team 8 | 2578 | 2952 |
| 4. Metal Trades | 2613 | 2949 |
| 5. Ridgecrest | | |
| Bowl | 2641 | 2941 |
| 6. Miners Trad. | | |
| Post | 2414 | 2938 |
| 7. Lions Club | 2450 | 2928 |
| 8. CPO Club | 2579 | 2917 |
| 9. Strikers | 2740 | 2916 |
| 10. Merc. Movers | 2629 | 2905 |

First Aid Class Starts March 23

A five-week class in the Standard First Aid course commences here Tuesday, March 23, to be conducted each Tuesday thereafter in two-hour sessions. To be held at the Safety Building from 7 to 9 p.m., the course will be taught by Tom Chapman. Those wishing to enroll in the course may call Chapman at 72215 or 71386.

Sure Sign of Spring!



SPRING TRAINING got underway for Burroughs High School players last week at Shoeffel Field on Station. Here's Richard "Duke" Martin (22) at bat, with Bill Stokes

(20) waiting his turn. In practice games, the Burros beat Lone Pine, 17-4, and then also defeated Desert High School of Edwards AFB, 10-1.

Reports to VX-5



NEW VX-5 OFFICER, Ens. Ronald G. Cable, has reported for duties here as Ass't Legal Officer for Squadron, from Naval Justice School at Newport, R. I. Born at Chicago, Ill., the newly reported officer holds a degree in business administration and marketing from Drake University. He is to relieve Lt(jg) T. L. Kumpf who is slated for a June transfer.

Young Presidents Eye Facilities At China Lake

China Lake was host this week to the visit of some 22 Young Presidents who toured Station facilities, witnessed demonstrations and listened to presentations on key NOTS programs.

The group was led here by Frank Gard Jameson, former National President of the Navy League of the United States.

Met by Captain John I. Hardy on its arrival early Thursday afternoon, the visitors were to have witnessed a weapons delivery demonstration presented by VX-5; listened to a presentation on the NOTS Weather Modification Program by Dr. Pierre St. Amand; and seen the movie, "The Presidential Visit."

A reception at the Commissioned Officers Mess (Open) and an additional presentation was to follow late Thursday evening preceding the program's conclusion that night.

The Young Presidents, accompanied here by their wives, represent men under 40 who serve as presidents to firms which gross in excess of one-million dollars annually and have more than 100 employees.



CODE 40'S GENE PFUND RETIRES — Harold Metcalf presents Gene Pfund (left) with 20-year Federal Service pin at his retirement party. Pfund is the first Code 40 employee to retire after serving 20 years in the department. He came to the Station in February 1945. He now retires to a trailer-vagabond-life of fishing, hunting, and boondocking.

ESO Doings

By Wes Fisher

The Gillett oil paintings exhibit will remain in the Building 7 Conference Rooms through the month of March.

Any inquiries about the paintings should be directed to Elmo Gillett, Station 23.

The ESO is open to suggestions from employees as to outings or parties to be sponsored by the ESO. It is requested that information as to availability of boats for charter or mountain lodges with capacity to accommodate large groups be forwarded to your ESO representative or Wes Fisher, Station 21, before the next ESO meeting.

PROMOTIONAL OPPORTUNITIES

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

Physicist or Mathematician, GS-9 or GS-11, Code P8028 — Incumbent will conduct analytical investigations to determine torpedo performance. Qualifications required: Experience in programming of digital computers and knowledge of the application of analysis techniques.

Quiet Five Hold Lead

By Ray Hanson

While the Quiet Five continued to maintain their gigantic lead in the NOTS Wednesday night bowling league "race," the scramble for second and third places provided the major interest.

The Side Winders have achieved a tie with the Alley Kats, both with won-lost records of 54-42. But let that's not all. The Hunees, El Toros, and Jacks and Better are all knotted up for third with 50-46 apiece.

Since the Quiet Five are 13 games ahead, it is most unlikely that any of the second-tier teams will get within even yearning distance of the title. But with the splendid little Balkan war they're putting on, who cares?

High scores for the 23rd week were as follows: team series, Side Winders, 3078; team game, Jacks and Better, 1049; men's series, Al Lamens, 673; women's series, D. Aitchison, 664; men's game, Dick Talbot, 262; women's game, Elayne Colson, 250.

Dangerous Skidding

Just how dangerous is skidding? In 1963 (latest figures available) some 2,000 persons lost their lives and nearly 100,000 were injured in skidding accidents.

NOTS Pasadena

VIRGINIA E. LIBBY — EXT. 638



A DISTINGUISHED BUWEPS visitor, RAdm. Emerson E. Fawkes, Asst. Chief for RDT&E (Code R), was hosted at Pasadena Annex by Capt. J. I. Hardy, ComNOTS; Dr. Wm. B. McLean, Technical Director; Capt. G. H. Lowe, OINC, Pasadena; and D. J. Wilcox, Head, Underwater Ordnance Department. Left to right: RAdm. Fawkes, Capt. Lowe and

D. J. Wilcox are shown in the Chem Lab where they were briefed on the chemistry of drag reduction polymers by Dr. Robert H. Wade (r), and Dr. J. W. Hoyt, Head, Propulsion Division (not shown). Capt. Hardy and Dr. McLean discussed current China Lake Projects with the Admiral.

Four Honored For Twenty Years

Representing 80 years of federal service, four members of the Systems Operations Division were honored at length-of-service ceremonies recently.

W. G. Clark, a Project Engineer concerned with management of missile development testing programs, has been with NOTS for 13 of his 20 years in government service.

Born in Nebraska and reared in Long Beach, Clark served two periods in military service — WW II and the Korean conflict.

His career at NOTS began at China Lake in 1952. In 1958 he transferred to Pasadena.

Twenty-five year residents of Long Beach, he and his wife, Miriam, are members of the Emmanuel Presbyterian Church. The Clarks have a 14-year-old daughter, Susan.

Bob Graf, Head Mechanic in the test cells at Morris Dam, is a 19-year NOTS man.

Originally from Iowa, Graf began his government career with the Divisional Engineers, working a year in Corozal, Canal Zone.

Graf and his wife, Marguerite, reside in Altadena. Active in the Masonic Lodge, he has been a resident of that city for 40 years.

Robert J. Evans, employed at Morris Dam for the past eight years, is a Test Mechanic participating in the assembly of torpedoes, ordnance items and various launching equipment. He prepares ranges related to all types and phases of tests conducted at Morris Dam Torpedo Range.

A native of St. Louis, Mo., Evans worked for eight years in

the Adjutant General Publication Center in that city. He served in the U.S. Navy from 1941-1945.

Evans and his wife, Katherine, have three sons—Bob 20, Mike 18, and Tim 16. The family resides in Azusa.

Thomas Chavez, Jr., a Test Mechanic (experimental ordnance) at the NOTS Long Beach facility, works on underwater research and recovery and the development of the CURVE vehicle. Chavez came to NOTS at China Lake in 1947.

During WW II he served with the Army Combat Engineers in the Asiatic Pacific Theater from 1943-1945.

Born in Jerome, Ariz., he presently resides in Huntington Beach and is active in the VFW Post No. 8615, Long Beach.



CAPT. G. H. LOWE, Officer in Charge, NOTS Pasadena (r), presents the new NOTS 20-year pin to Marie Broshious. Cdr. H. F. Burns, Assoc. Director of Supply, Pasadena Annex, offers congratulations to Marie who is the first employee at Pasadena to receive the new pin which symbolizes 20 years at NOTS.

Pay #00010 Honored With a NOTS First

Marie Broshious was in the limelight last week with a NOTS Pasadena "First."

Marie, a Supervisory Procurement Assistant, was the first Pasadena recipient of the NOTS 20-year pin, indicating all 20 years government service at NOTS.

With Pay No. 00010, Marie was the tenth civilian employee to enter on duty at China Lake. This all took place in June 1944. Marie is the only remaining employee of the first ten. She transferred to Pasadena in March 1951 and is the first person eligible at the Annex for the new NOTS pin.

Originally from Fremont, Ohio, Marie first entered federal service in February 1941 when

she joined the Navy and served until February 1943. She then worked a year with the U.S. Marine Corps Air Station at Mojave, Calif., just previous to beginning her career at NOTS.

She has garnered two Outstanding Performance Ratings, a Sustained Superior Performance Award and a Quality Step Increase during her years at Pasadena.

It is not all work and no play. Marie is an avid bowler. She has been a resident of Arcadia for the past year.

Retirement Data Due Dec. 1, 1965

President Johnson has asked a Cabinet-level committee for its final report on Federal retirement programs by Dec. 1, 1965.

President Johnson appointed the committee to "establish up-to-date guides for use in the executive branch in considering proposed changes and further

improvements in retirement plans."

The President requested a thorough review of retirement policies as to objectives, civilian and uniformed personnel coverage, benefit patterns, financial soundness and overall consistency.

First NOTS 20-Year Pins Awarded to 10

(Continued from Page 2)

picked up sand, pebbles, and rocks, and even the jackrabbits seemed to acquire flying powers."

"Those winds separated the men from the boys. New personnel hired in the morning sometimes left at evening. I planned to stay only a week!"

Anna K. McDuff of Central Staff, a native daughter, transferred to NOTS on Nov. 23, 1944, from the Naval Air Station at Alameda.

She took educational leave from 1945 to 1946 to attend the University of California at Berkeley.

On her return to NOTS she advanced rapidly through various jobs in the Accounting Division to her present position as management analyst.

During the process she garnered several outstanding ratings, a Sustained Superior Accomplishment Award, and a Group Superior Accomplishment Award.

In addition, she has received letters of commendation from Central Staff, the Supply Department, and the Office of the Commander.

Therese Jackopisch Gonzales, better known as Rose, came to the Station as a wave on Sept. 6, 1944.

Rose recalls that her first impression of the Station belied the tall "Foreign Legion" tales which had been circulated about NOTS at Camp Elliot, Wave distribution camp in San Diego.

The desert immediately appealed to Rose despite the fact she was a Minnesota girl.

As a Yeoman, Rose was secretary to the Safety Officer. On her discharge she became secretary to Fire Chief Al Wright. She is now a management analyst with Central Staff.

12th Foreign Student Visit Due March 22

Students from 11 nations will be guests of NOTS for a day-long tour of Station facilities March 22, marking the 12th annual program under co-sponsorship of the China Lake and Pasadena Rotary Clubs.

The Republic of China, England, France, Germany, Greece, Hongkong, India, Israel, Japan, Malaysia and Sweden will be represented by the group of students.

Numbering 22, they are enrolled at the California Institute of Technology.

A reception and buffet will be held at the Commissioned Officers Mess (Open) the evening of March 22, honoring the visiting students in addition to a group of Josephine County (Oregon) school administrators who will also be on the Station that day.

Members of the Executive Dining Room desiring to attend the evening event are asked to call L. G. Garman at 712553 during working hours, at 725332 evenings.

Conservation Lecture

Ardis M. Walker of Kernville will be the guest speaker of the Maturango Museum and the American Association of University Women on Tuesday, March 23.

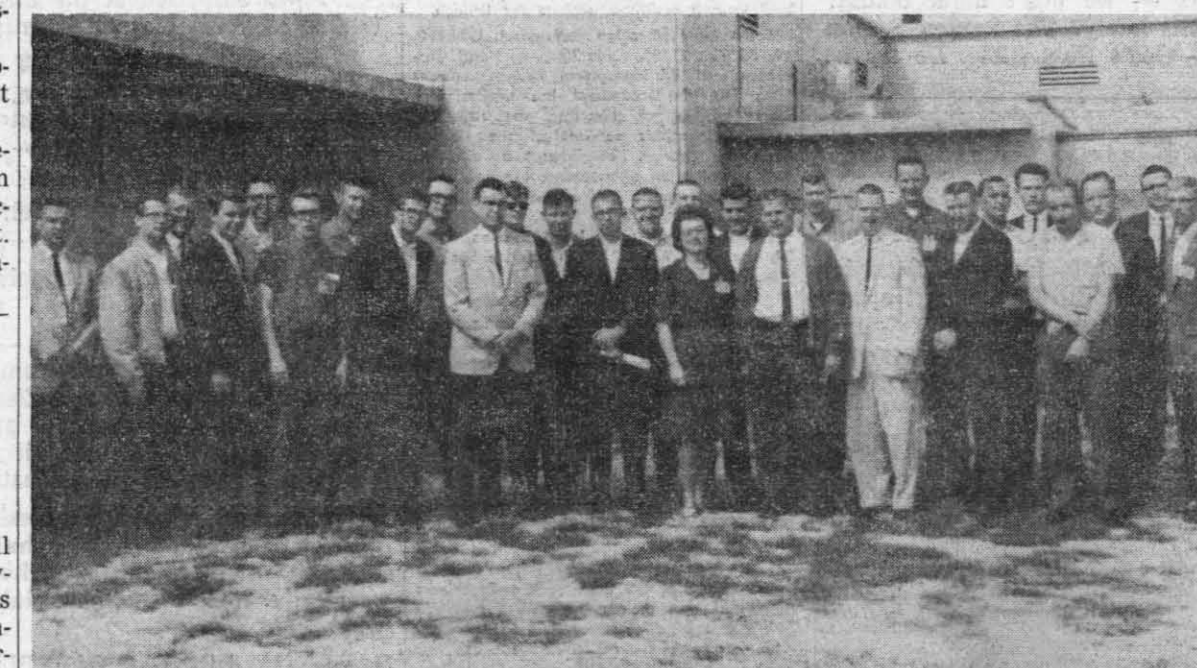
His talk, at the Weapons Display Center, will be on the botanical conservation problem, on a national and local basis.

Presidential and 'Thinker' Awards Won By Harry Myers and Lloyd Holt



"THINKERS" reaped rich rewards this week with presentation by Capt. Leon Grabowsky, Station Executive Officer (right) of Presidential Citation plus Station's "Thinker" statue, symbolic of 1964's most significant benefi-

cial suggestion made here. Recipients of awards were Lloyd J. Holt and Harry L. Myers, both attached to NAF. Capt. Robert R. Yount, CO, NAF, was there to congratulate his men on their achievement.



JUNIOR PROFESSIONALS employed at China Lake and Pasadena completed a three-day orientation tour here last Wednesday and

will visit the Pasadena Annex facilities next Monday. Here's the group at the Propulsion Development Dept.



DR. NICHOLAS T. SAMARAS (front), Asst. Director (chemical technology), DDR&E, and two colleagues were briefed on NOTS projects during two-day visit here. With him were Dr. William W. Dorrell (right), technical coordi-

nator, Director of CBR and Nuclear Operations, HQ, U.S. Army, and Dr. Albert E. Hayward, OSD-DDR&E. At left is H. G. Wilson, Asso. Technical Director.

Benny Sugg Sets All-Time High On the Station

A recovery system developed here by two Naval Air Facility employees was cited this week as the basis for awards that include the Presidential Citation for Economy and the NOTS originated "Thinker Award," symbolic of the Station's highest recognition for annual cost reduction through a beneficial suggestion.

Harry L. Myers and Lloyd J. Holt, both attached to the Drone Target Division at NAF, received their awards from Captain Leon Grabowsky, Station Executive Officer, Tuesday morning.

The "Pod Recovery System," utilized in the recovery of aircraft pods containing either "expensive electronic equipment or hard-to-get items," was submitted as a beneficial suggestion in 1962.

Since that time, at least one instance of its use has saved \$24,000—the cost of a television system employed in remote dual target presentation.

Awards Explained

The Presidential Citation, recognizing achievements on the part of individuals and commands in areas related to economy and cost-reduction programs, is being awarded in conjunction with observance of the tenth anniversary of the Federal Employees Incentive Awards Act.

The "Thinker Award" gives recognition to individuals whose beneficial suggestions are most significant to the Station for the year. Myers and Holt were awarded \$650 for the savings represented by their beneficial suggestion, an all-time high for the Station's program.

Prior to adoption of the recovery device, target plane destruction also meant the loss of electronic equipment used in instrumenting tests. This equipment is generally carried externally in a wing pod.

Parachute and Signal

The recovery system developed here by Myers and Holt employs the use of a parachute which deploys automatically when power failure exists in the aircraft for more than six seconds.

A soft-sheet blossoming pattern was also developed to protect sensitivities of the equipment when deployment occurs at high speeds. Other refinements of the system include a locator beacon signal that transmits automatically once the pod descends to earth.

Though developed here for exclusive use in conjunction with target drone aircraft, the system has vast potential in all situations involving the use of "external stores" carried by aircraft.

Myers, an engineering technician who came to NOTS in 1950 and now heads the Target Aircraft Instrumentation-Evaluation Branch, pointed to similar systems employed in space capsule experimentation, noting that the local development was not "entirely original."

The "originality" aspects involved in the local program pertain only to the recovery of val-

(Continued on Page 5)



OFFICIATING at length-of-service ceremonies, Capt. G. H. Lowe presented lapel pins denoting 20 years of federal service to (l-r)

W. G. Clark, Bob Graf, R. J. Evans, and Thomas Chavez, Jr., all members of the Systems Operations Division, UOD.

CHAPLAIN'S MESSAGE

A Bouquet To Our Librarians

By CHAPLAIN ROBERT W. ODELL



Edgar Guest, the people's poet, says:
 "Books are quiet friends who wait
 our presence upon shelf or rack.
 They're glad to see us soon or late,
 But never slap us on the back."

Someone has made a comparison between the similarity of a drug store and of a library. The gist of the comparison suggests that the drug store has lotions, irritants, stimulants, narcotics, balms, sedatives and poisons all able to create definite effects upon a person's physical nature; whereas the library has volumes containing material which can produce analogous effects upon an individual's mind. Doesn't this make sense?

Our station library at NOTS is a wonderful place. I always like to visit it, stay awhile and then walk out with an armful of well-chosen books to read at home.

At a dinner party one evening the venerated Columbia University professor, Raymond Weaver, was asked by a bright young thing, in her most buffed and polished finishing-school voice "Mr. Weaver, have you read So and So's book? (And she mentioned a modish best-seller of the moment!) Mr. Weaver confessed that he hadn't. "Oh, you'd better hurry up—it's been out over 3 months."

Mr. Weaver, an impressive gentleman with eye and wit to match, inquired of the lady, "My dear young woman, have you read Dante's *DIVINE COMEDY*?" "No," came her swift reply. Then you'd better hurry up — it's been out over 600 years!!"

Next time you and I stop at the NOTS station library wouldn't it be nice to thank our station librarians for their modest but effective work of managing such a pleasant place and thoughtfully ordering, handling, reviewing and displaying those good books and magazines? Indeed I concur with one of the old Egyptian Kings who had this sign painted over his own library: "The Medicines of the Soul." Isn't this one kind of medicine — books — we don't mind taking? How are your deep reading habits lately? The Lenten Season is the time to read the best — God's Holy Bible. Do try it!

Retreat to Open Five-Day Study Series for Protestant Members

Beginning with a one-day retreat at Weldon this Saturday, the Protestant Congregation of the All Faith Chapel will open a five-day spiritual study series for its adult members.

The Rev. Donald P. Buteyn, minister of outreach at the First Presbyterian Church in Berkeley, will conduct the five-day series and the one-day retreat.

In addition, he will be guest minister at the 8:30 and 11 a.m. Protestant services at the All Faith Chapel this Sunday. At 4 p.m. he will address a Parent-Youth Rally in the East Wing.

Unique in the adult spiritual emphasis series will be the "home group meetings" each night starting tomorrow at 8 p.m. and continuing through next Wednesday.

Ten homes will be open each night by the hosts and hostesses for "Conversations About Christ," with five or six couples attending.

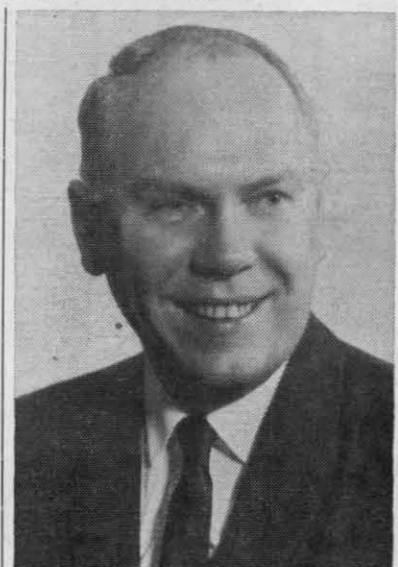
Eight Chapel Lay Leaders, Chaplains Odell and Fite as well as Pastor Buteyn, will moderate these sessions involving over 600 adults.

Also unusual will be the "homemakers' Bible Study," at 10:30 a.m., and an "adult Bible seminar" at 11:30 a.m. for working members of the congregation, Monday through Wednesday.

A men's prayer breakfast will be conducted Wednesday at 6 a.m. in the Station Restaurant's banquet room.

Both military and civilian personnel are invited to attend these events which are geared to more than the Lenten season but which are most appropriate for the Lenten season.

For further details phone the Chapel office, Ext. 72247 or 71586.



REV. D. P. BUTEYN

GENERAL MESS

TODAY, MARCH 12
 D—Corn chowder, seafood platter, potatoes, spinach, beets, sandwich, salads, lemon pie.
 S—Simmered corned beef, potatoes, cabbage, carrots, mustard sauce, mince meat cookies, ice cream.

SATURDAY, MARCH 13
 B—Fruit, cereal, juice, fried eggs, crisp bacon, waffles, syrup.
 1000 Add: Stuffed peppers, potatoes, succotash, salads, ice cream.
 1000 Omit: Crisp bacon, waffles, syrup.

SUNDAY, MARCH 14
 B—Fruit, cereal, juice, fried eggs, grilled pork chops, waffles, syrup.
 1000 Add: Braised beef and noodles, mixed vegetables, salads, ice cream.
 1000 Omit: Grilled pork chops, waffles, syrup.

MONDAY, MARCH 15
 B—Fruit, cereal, fried eggs, pork sausage links, hot cakes, syrup, coffee cake.
 D—Creole soup, baked ham, sweet potatoes, raisin sauce, brussels sprouts, cauliflower,

PROMOTIONAL OPPORTUNITIES

Present Station employees are encouraged to apply for the positions listed below: Applications should be accompanied by an up-to-date Form 58. The fact that positions are advertised here does not preclude the use of other means to fill these vacancies.

Clerk-DMT, GS-316-3 or 4, Code 4541—Performs administrative and clerical duties for the Explosive Research Branch including transcribing from a Dictating Machine Transcriber; receiving visitors, distributing mail to the branch, typing correspondence and reports for the branch, maintaining Branch Head's schedule, and filing correspondence.

Ordnanceman (Ammunition & Explosives—Test), 5324 p/h, Code 4037—The incumbent performs a variety of duties in the set up, firing and control of tests and experimental operations on explosives, missiles, projectiles, and propellants; plus range clean-up operations requiring use of automotive equipment to grade, level, bank and trench or excavate.

Test Mechanic (Experimental Ordnance Equipment), 5324 p/h, Code 4037—The incumbent performs duties of assembling, loading and disassembling ordnance items. Conducts and assists in conduction of tests. Records and reports test results.

File applications for above with Lynn Standard, Bldg. 34, Rm. 28, Phone 72676.

Laborer (Heavy), 5253 to 5275 p/h (two vacancies), Code 2595—Performs non-skilled work of an arduous nature within the Supply Department. Loads and unloads material, palletizes, stores, etc.

File applications with Pat Detting, Bldg. 34, Rm. 28, Phone 72218.

Electronic Development Technician (General), GS-9 or GS-11, Code 5521—Design and development of electronic circuits associated with missile control components and test equipment.

File applications with Dora Childers, Bldg. 34, Rm. 32, Code 657, Phone 71393.

Physicist or General Engineer, GS-11 or GS-12, Code 3533—Incumbent will be responsible to the Branch Head for one or more specific projects involving foundational research and/or exploratory development relating to object detection, classification and identification by electro-optical means.

Duties will include feasibility determination and experimental development of new concepts, devices, or systems for enhancing target contrast and background suppression by both analytical and empirical means.

File applications for above with Loretta Hetherington, Bldg. 34, Rm. 34, Phone 71514.

Technical Writer-Editor, GS-1083-9 or 11, (1 vacancy), Code 7511—Position is located in Editorial Branch, Publishing Division, TID. Incumbent has the responsibility of editing and writing technical reports for branch.

Supervisory Librarian (Reference), GS-1410-11, PD No. 29130, Code 7531—As Head, Reference and Bibliographical Branch, Library Div., TID, the incumbent has major work responsibilities of directing the reference and bibliographic services of the library, including over-all administrative direction and coordination of reference services, cataloging or reports and selection of library materials, etc.

File for above with Janet Thomas, Bldg. 34, Rm. 26, Phone 71577. Deadline for applications is March 19.

PLANNER-ESTIMATOR

Amendment No. 1 to Announcement No. NOTS-IV-5(65), Planner and Estimator (Public Works Mechanical Systems). The purpose of this amendment is to: 1. Amend the closing date from March 15, 1965, to March 22, 1965. 2. Add the following trades to the list of "Qualifying Trades": Modelmaker (Machining), Modelmaker (Metal Components), Modelmaker (Sheet and Plate Metal), Toolmaker. 3. Delete the following trades from the list of "Qualifying Trades": Pipefitter, Plumber, Welder.

CLOSING DATES LISTED

The Board of US Civil Service Examiners announces that the closing date for receipt of applications under the following listed announcements for the US Naval Ordnance Test Station, China Lake, Calif., will be the close of business on March 15. Applications received after that date will not be accepted unless received by mail and bearing a postmark on or before March 15, 1965.

Armature Winder, Cable Splicer (Communications), Central Office Repairman, Electrician (Lineman), Electrician (Lineman) Limited, Gas Heating Equipment Mechanic, Glass Apparatus Maker.

Heat Treater, Joiner, Letterer and Grainer, Machinist (Maintenance), Pumping Plant Operator, Refrigeration and Air Conditioning Mechanic, Saw Filer, Structural Iron Worker.

'DESERT PHILOSOPHER'

Just a Flash In the Pan!

By "POP" LOFINCK



Gold - gold - gold - gold.

So the poem goes . . .

"Bright and yellow; hard and cold"

But gold isn't bright — it's dull.

And it's not yellow — it's gold color. And in international relations it's pretty hot!

I suppose that comes under poetic license.

I went to observe the World Champion gold panning contest March 6 and 7 at Burton's Tropico Gold Mine.

I had supposed there might be some special trick or basic technique or procedure that all expert gold panners have in common. But No!

CHAMPS HAVE THEIR OWN TECHNIQUES

Each champion or near-champion had developed his own technique or motion or manipulation for washing the muck out and leaving the gold dust or nuggets in the pan. The only thing they had in common was rhythm and concentration.

The champion this year was Bob Cheshire — an insurance man of Phoenix, Arizona. (He was second in 1962 and 1963).

Second was Harold Woodruff of Sylmar, California. Third was Murray Hirota of Azusa, California.

Hirota would have been first but was penalized 20 points for losing two nuggets.

The rules are — all material must be removed from the pan except eight nuggets about the size of a pea — in the shortest time. If the time runs over three minutes the contestant is disqualified.

The Hard Rock contest rules are different. The idea is to get the most gold out of one pound of crushed gold ore. Time limit is three minutes and the one with the most gold left in his pan after all the muck is washed out is winner.

Each bit of gold ore has been previously assayed by a reliable assayer.

I was surprised at the efficiency of some of the juniors (under 16 years old) in Saturday's contest.

PROSPECTORS DON'T WORK AGAINST TIME

I don't see why the timing is so important — if a prospector is panning a creek he is out to get all the gold he can — he isn't working against time — but that is the championship rules of the contest.

You can check on yourself by using lead shot instead of gold dust and nuggets.

Prospecting for placer gold is a good hobby. Good exercise close to nature.

Placer gold is free gold — in the form of gold dust or nuggets. It has been freed from the mother lode, higher up in the mountains by rains and flash floods. It isn't dug out of a mine with drill and hammer and powder and put through a cyanide process to separate it from the country rock. Placer gold has been processed by nature.

Follow up a dry creek bed. Dig down on the upper side of a boulder. When it rains the rushing water carries the gold from the mother lode, hits the boulder and slows down momentarily. Some of the gold sinks down into the sand. So that's where you dig.

BRING A BARRELFUL (OF WATER)

Of course if there is no water in the dry creek bed, you take a barrel of water with you in your pick-up and a tub to wash into. Use the same water over and over.

A better way is to take a dry washer. That separates the sand from the gold by vibration. Ken Miller on the base has perfected one — weighs 15 pounds.

Be sure to visit the Tropico Museum of antiques and old Indian artifacts. An old miners store, etc.

The Rocketeer

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

Capt. John I. Hardy, USN Station Commander

"J.I." Bibby Public Information Officer

Jack O. Broward Editorial Advisor

Richard Gruenberg Editor

Budd Gott Staff Writer

Frederick L. Richards Special Assignments

Staff Photographers

Jerry Williams, PH1; Paul Seaton, AC2PH;

Dennis Smith, PH3; Seth Rossman, PH3; and

Ralph Robey, PH2 (Pasadena).

DEADLINES: Tues., 4:30 p.m.

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

The Rocketeer receives Armed Forces Press Service material. All are official U.S. Navy photos unless otherwise identified. Printed weekly with appropriated funds in compliance with NAVEXOS P-35, Revised July 1958. Office at 50 King St., Bldg. 00929. Phones—71354, 71655, 72028.



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

Protestant—(All Faith Chapel)—Morning Worship—8:30 and 11 a.m. Sunday School—9:30 a.m., Chapel Annexes 1, 2, 3, 4 (Dorms 5, 6, 7, 8) located opposite Station Restaurant.

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

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

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

NOTS Jewish Services (East Wing All Faith Chapel)—8 p.m. every first and third Friday.

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

Unitarian Fellowship (Chapel Annex, 85 King St.) Fellowship Meeting—Sundays, 7:50 p.m. Sunday School—10:45-11:45 a.m. Dorms 7 and 8.

'Thinker Award' Presented To Myers and Holt

(Continued from Page 3)
 uable equipment currently being used in target drone aircraft operations, he commented.

Holt joined the Naval Air Facility five years ago and works now as supervisor of the Target Metal Shop.

Triggered Three Ways

One of the more ingenious characteristics of the system they developed is the dual-control factors governing deployment of the parachute mechanism.

It can be "triggered" from the ground by the Drone Control Officer, by the pilot of the drone "chase" plane, or through its own sensing device.

It was the Myers-Holt team that also provided the Station with a fuel sensing device utilized in the Q2C target drone program. Before its implementation, the expensive targets were frequently lost after fuel exhaustion occurred. Implementation of the fuel sensing device now warns the control officer by flashing a light on the control panel, and the drone can be flown into a recovery area before its fuel is exhausted.

The award was first established here in 1958.

COM Calender

The wee ones will be out in force on Saturday night when your club celebrates St. Patty's Day with a real wing-ding of an Irish party. Happy hour starts at 6 p.m. and will feature green? beer and Irish coffee.

Then to the buffet for the best spread this side of Erin highlighting, of course, corned beef and cabbage. 'Tis enough to make St. Patty himself green with envy.

Then to top off a grand and glorious evening, a prize will be given the fastest steppers in an Irish-jig contest. So dig out your Kelly-green and your Grandpa's shillelagh and we'll be seeing you where the shamrocks grow in the desert.

DANCE TONIGHT with Chuck Messenger and don't forget . . . champagne cocktails are served at 25 cents from 7 'til 9.

Every Tuesday night your club serves a special family night dinner from 6 thru 9. Good food and enjoyment for the whole family, and all at special family prices.

—Pat Shannon

'Instant Information' Unit Here Saves Data... and Money, Too!



DATA RETRIEVAL system is now in operation at China Lake's Technical Documents Section, Engineering Department. Librarian Marcia Carrier teams up with Robert W. Weak-

ley, one of those implementing system here, to demonstrate use of device which can save Station up to \$77,000 annually, according to Department of Defense.

'Bank' Holds 100 Cartridges Of Filmed Answers

An Engineering Data Retrieval System that involves as its key feature a mechanism for instant reference and retrieval of countless thousands of items—at an estimated savings of thousands of dollars for its users—is now in use at China Lake.

Officials here say it is helping pave the way for the introduction later this year of a long range system now in pilot stages.

Key to it all, at its present stage, is a microfilm viewer-printer, a two-unit device that catalogs, identifies and presents instant data on tangible items at a rate that was previously impossible.

One of those responsible locally for its introduction and implementation, Robert W. Weakley, called the device a "tool" to be used in the overall system to come.

Projects From Cartridges

The device projects microfilm information, illustrations and drawings contained in cartridge form. The stowage bank holds 100 cartridges, each with 2200 to 2500 units of information on film.

The Navy Department currently has 19 system units in use at facilities throughout the country.

One Department of Defense source estimates the device could save \$77,000 annually at each of these facilities.

While computerized stowage and retrieval systems have been implemented at various levels within the scientific engineering industry, this system represents at least one step further in the processes of retaining data as it is generated.

Each of the items in the information "bank" here is one of a tangible nature, referring to source of item, equivalencies, and guides for its use or application.

How It Works

For example, a NOTS engineer engaged in the development of a new weapon might require information related to reinforced plastics. By turning to the system for this information, and utilizing the cross references index in the microfilm cartridge bank, he learns instantly that one source is a reliable brand listed from January through May 1965.

Its technical data sheet lists the forms in which it is produced, shelf life, resin content, mold release, liner removal, molding procedure, cure and general properties. Cross referenced information will reflect even more refined information from numerous other sources.

In an age of accelerated technological advance—when data storage and retrieval is the key to continued progress—the introduction of this system could prove to be one of the most valuable tools in existence.

Like any tool, however, its value is directly related to proper and constant usage.

Maintained as a facility for Station-wide use by the Engineering Department, the system use is supervised by the Design Disclosure Branch, Technical Document Section.

SB Garden Club Members to See Wildflower Show

California wildflowers will be blooming on-screen Tuesday at the Commissioned Officers Mess for the members of the San Bernardino District of California State Garden Clubs, Inc., when Fay Couch, photographer and world traveler, presents her 45-minute program of colorful slides complete with recorded narration and background music.

Mrs. Marion Winslip, state president, will head the list of 40 out-of-town guests expected for the district meeting, luncheon, and wildflower program, according to Mrs. Roger C. Wickenden, president of the Oasis Garden Club, hostess club for the district event.

The business meeting will begin at 10 a.m. with Mrs. W. E. McCombs, district director from San Bernardino, presiding. Mrs. Stanley Mutchler will be in charge of serving coffee and rolls to all visitors before the meeting.



SEABEES' 23RD BIRTHDAY CAKE CUT—Station Commander Capt. John I. Hardy cuts first slice of cake at Seabees' Anniversary Ball as newly promoted Chief Lewis C. Minter holds plate. Unit's skipper LCDR. Paul O. Erickson is at right. Seabees celebrated event Saturday at Acey-Deucey Club.

It's a great life if you know when to weaken.

HOUSING ASSIGNMENTS

| Type-Housing Priority Group | Hiral Date or Date of Rank |
|-----------------------------|----------------------------|
| Panorama (4)—CB | 1-26-59 |
| Panorama (3)—None | |
| JOQ (2)—None | |
| MOQ (3)—None | |
| Unit Duplex (3)—CA | 1-5-53 |
| Hill Duplex (2)—None | |
| Wasp Circle Duplex (3)—None | |
| Joshua (4)—CD | 1-25-65 |
| Yucca (4)—None | |
| Tamarisk (4)—None | |
| Juniper (3)—CC | 6-9-60 |
| Old Duplex (3)—None | |
| Old Duplex (2) (LBP)—CF | 1-11-65 |
| Old Duplex (2)—CH | 9-25-58 |
| Old Duplex (1)—None | |
| Normac Duplex (3)—CC | 2-4-63 |
| Normac Duplex (2)—None | |
| Wherry (4)—CF | 5-2-60 |
| Wherry (3)—CG | 2-10-65 |
| Wherry (2)—CI | 10-13-62 |
| Normac (3)—CH | 8-14-56 |
| Normac (2)—None | |
| Normac (1)—SG | 8-1-64 |
| LeTourneau (2)—None | |
| Hawthorne (3)—CI | 3-3-58 |
| Hawthorne (2)—None | |
| Hawthorne (1)—SG | 8-1-64 |
| Apartment (3)—None | |
| Apartment (2)—CI | 3-23-56 |
| Apartment (1)—CD | 10-13-62 |
| Apartment (0)—CH | 4-7-49 |
| Motel (1)—None | |
| Motel (0)—CI | 12-1-44 |



TID AWARDS 20-YEAR FEDERAL PINS — Department Head Ken Robinson presents Fay Couch with her 20-year Federal Service pin

while Charles Van Hagan holds his pin. Other 20-year pin recipients are (l-r) William Nash, August Paeyeneers, and Charles Henry.