

# Bulletin

U. S. NAVAL RADIOLOGICAL DEFENSE LABORATORY  
SAN FRANCISCO 24, CALIFORNIA

20 June 1952 No. 228

"One cool judgment is worth a thousand hasty councils.  
The thing to do is to supply light and not heat."

-- Woodrow Wilson.

## BUDOCKS PROJECTS OFFICER LEAVES

LCDR Clarence A. ("Chuck") Grubb, CEC, USN, said goodbye to the Laboratory today and will leave tomorrow for Washington, reporting to the Commander Task Group 132.3. (Incidentally he will be in the same outfit as "Doc" Carlson.)

CDR Grubb is many times an engineer. A native of Idaho, he finished high school in MacKay, afterwards taking a civil engineering course at the University of Idaho where he received a B.S. degree in 1940. He worked as a naval architect at Puget Sound Naval Shipyard and later for the Bureau of Highways, State of Idaho, where he became District Materials Engineer. In 1942 he entered the Navy and took his second engineering course, this one in aeronautical engineering at "Cal Tech," followed by instruction in assembly and repair of aircraft at the Naval Air Station, San Diego.

In February 1943, CDR Grubb was ordered to the Island of Maui, Hawaii, where he was Operations and Engineering Officer of Carrier Aircraft Service Units, stationed first at Puunene and later at Wailuku. A year later he went to Annapolis for a course in Aerological Engineering with subsequent service at the Patuxent River Naval Air Station. In 1946 he transferred to the Civil Engineering Corps of the Navy and went to Puget Sound Naval Shipyard in the Public Works Dept. CDR Grubb has probably had courses in more different kinds of engineering than any man in the Navy. The first class of Radiological Defense Engineering found him in the "front row," with one year at Annapolis followed by two at the University of California. In 1950 he received a Master's degree

in Bioradiology from "Cal." Soon thereafter he reported to NRDL where he has made a host of friends who will be sorry to see him leave.

When not "engineering", CDR Grubb concentrates on his hobby --woodwork. He has fully equipped two rooms for his little girls, CDR Grubb and Mrs. Grubb and their three daughters, Nancy Louise, Judy Ann, and Jean Rae will drive east via Idaho, Yellowstone and other points of interest.

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## CHEM PHYS HEAD SPEAKS

Dr. F. R. Holden, Head of Chemical Physicals Branch, spoke at the regular monthly meeting of the American Chemical Society at the University of California on 9 June. His subject was "Industrial Aerosols."

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## NRDLER ON TV SATURDAY

Mr. H.L. Seidelman, Administrative Officer, will be interviewed on KRON-TV tomorrow (Saturday) morning at 11:30. "Job Caster" is the title of the program which is sponsored by the California State Employment Service in cooperation with the 12th Regional Office of the Civil Service Commission. Questions asked Mr. Seidelman will probably reveal some interesting facts about NRDL and will publicize some of the Lab's critical personnel needs.

"TEN DAYS" IN LIBRARIES

As his farewell contribution to NRDL, Mr. Glenn R. Maynard made a comprehensive tour of eastern naval libraries the latter part of May. He attended a conference of BuShips Technical Librarians at the New York Naval Shipyard and later the Convention of Special Libraries Association, gleaned from them valuable information such as the use of electronic equipment for bibliographic purposes, the handling of classified reports, bibliography control of technical reports, standardization of forms, administrative problems, processing and simple cataloging of reports for easy availability, controlled distribution of reports, and many others. There are 23 naval libraries in the Washington Area, and Mr. Maynard visited a number of them including the David Taylor Model Basin Library, the Naval Research Laboratory Library which houses 30,000 volumes and 100,000 documents, and has 33 staff employees. This library employs a full-time translator who can read eight different languages, and five analysts whose present job is to index and abstract 500 periodicals received by the library. Another library Mr. Maynard visited was the Naval Ordnance Laboratory which occupies spacious quarters and has a staff of 20 persons.

In addition to naval libraries, Mr. Maynard toured Brookhaven National Laboratory where he saw the Cosmotron, spent some time at the Navy Research Section, Library of Congress, and attended council sessions of the United Nations which he said were interesting and revealing. He heard many interesting library lecturers, one of whom stressed the relief that technical people could receive from librarians in literature searches and bibliography preparations. This lecturer also felt that it was desirable to have new scientific employees introduced to the library soon after employment to apprise them of the services available in their libraries. Mr. Maynard thought the trip very much worth while, not only in point of knowledge obtained, but also in exchange of ideas brought about by personal contact.

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MATHEWS HEADS TECH INFO

Mr. T. J. Mathews has been appointed Acting Head of Technical Information Division since the departure of Mr. Maynard.

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BOWLERS AHOY!

We are definitely underway in establishing the nucleus for a Lab Bowling League. Response to the last call for bowlers was encouraging, and we can look forward to some interesting evenings.

It has been suggested that we form separate leagues--one in San Francisco and one on the Peninsula, and one on East Bay. We need a representative to head the Peninsula and East Bay groups. Who will volunteer? If you are willing to organize the group in your vicinity, contact Hal Hardy, Ext. 2218.

The groups will be divided into three or four person teams which will bowl a series of eight weeks. Then we will arrange a tournament between the "City Slickers" and the "Country Hicks" to establish the NRDL Champs. After teams are formed and captains elected, we will have a meeting to determine handicaps, rules, and trophies.

The cost for bowling three games is \$1.05. Where can you have so much fun for such a small fee? No matter where you live, if you are interested in bowling, call Hal Hardy, Ext. 2218. And do be prompt so we can arrange for alleys. Watch the BULLETIN and your Bulletin Board for further announcements.

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LABORATORY VISITORS

LCDR S. H. Herzog, USN  
NOTS, Inyokem

Mr. Wolfe Mostow  
NOL, White Oak, Md.

Mr. Albert Samuel Cahn, Jr.  
National Bureau of Standards  
Los Angeles

NEW CIVILIAN PERSONNEL

BIOLOGICAL & MEDICAL SCIENCES DIVISION

Morris Sable, a Biophysicist, is a native of Cleveland, Ohio, where he finished high school in 1941. Mr. Sable's higher education was begun at Case Institute of Technology in Cleveland where he obtained a B. S. degree in physics in 1944. Three years later he received his M. S. degree in physics from the University of Michigan. Later he attended the University of California and Stanford Medical School where he has been the past two years. Prior to that he spent two years at the Laboratory of Experimental Oncology, Laguna Honda Home, San Francisco. Mr. Sable and his wife, Ethel Marie, live at 520 Vista Court, Millbrae, phone JUno 8-8523. His outside interests include books, plays, and chess, but he also likes baseball and swimming.

CHEMICAL TECHNOLOGY DIVISION

Robert William Rinehart, a Chemist, is a new member of Analytical Branch. He was born in Braddock, Pennsylvania, but finished high school in Bridgewater, South Dakota, in 1938. Mr. Rinehart's B. S. and M. S. degrees in chemistry were received at State University of Iowa, Iowa City in 1944 and 1950. Before he came to NRDL, Mr. Rinehart was employed as a research physical chemist at Abbott Laboratories, North Chicago, Illinois. He and his wife, Alberta, and children, Robert, Jr., and Grace Mary, live at 1386 -39th Avenue, San Francisco. Mr. Rinehart's interests center on electronics, hunting, fishing, and-- keep it in mind when we have a circus-- weight lifting.

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O & M NAME CHANGED

Organization and Methods Division's move to Building 351-B was announced in last week's BULLETIN. The division is not known as O & M but as MANAGEMENT PLANNING DIVISION. The division is composed of H. F. Lindsay, L. W. Jones, E. L. Feder, Lee Sheridan, Agnes Winfough, Virginia Tage, and Jennie Krebs. Extensions are 2633, 2631, and 2358.

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NEW MILITARY PERSONNEL

ENS Robert Eugene Kay, USNR, has reported for duty at NRDL and will be assigned to Biological & Medical Sciences Division. ENS Kay was born in Missoula, Montana. He finished high school in Los Angeles in 1943 and attended UCLA for the completion of his formal education, receiving a B. S. degree in chemistry in 1948 and a Ph.D. in plant physiology in 1952. Prior to joining the Laboratory staff, ENS Kay was a teaching assistant at the University. His wife, Beverley, is in Buellton and will join him when he finds suitable quarters. ENS Kay's hobby is collecting plants. He is also interested in tennis and basketball.

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FORE!

The Lab Golf tournament hit a slight snag by scheduling the first day of play for Father's Day. Even at that, ten chasers of the pill turned out for the tournament at the San Mateo Municipal Course on Sunday, and some real golfing talent was revealed. Low gross was won by Nick DeLambo with a neat 77. R. J. Holloway came in second with a 92. The low net score was 67 made by D. R. Davis, with Frank Mock second with 73. Others who played Sunday were A. Benedetti, J. D. Teresi, G. F. Leong, L. R. Schouweiler, J. M. Pound, and L. C. Leong.

The League anticipates match play about once a month and about two big tournaments a year. Watch the BULLETIN for announcement of future play. This is a beginning, and the boys hope more enthusiasm will build it up to a real league that takes in most of the Lab golfers.

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LONG RANGE PLANNING

PAYS OFF

Mr. Herbert Lindsay of Management Planning has finally had his plans come true. The plans were laid some time ago, and four boys later, the Lindsays have a girl. Herb's desk is festooned with pink ribbons in celebration. "Miss Lindsay" (they will call her that until a worthy name can be found) was born on 12 June and weighed 8 pounds.

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LAST CHANCE FOR BUSINESS CARDS

The first order for 10,000 Laboratory personal cards will go to the printer on Tuesday, 24 June, and cards will be printed ONLY for those who place a definite order before that date. If you wish to be included in the first order, please contact Frances Brady, Ext. 3286 or 3078, Room 124, Building 508, where the design may be seen. REMEMBER, your order must be placed by MONDAY, 23 JUNE.

CONGRATULATIONS, LT KUHL!

Word has been received that as of 2 June, ENS Kuhl became LTJG Kuhl.

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PURPLE HEART AWARDED

On 13 June 1952, John E. Calvert, HN, USNR, was presented with a Purple Heart Medal for wounds received in Korea on 2 March 1951. CAPT Bird made the presentation. HN Calvert was with the Fleet Marine Force at Wonju, participating in Operation KILLER. Seven men leading the attack were wounded and trapped in a gully. HN Calvert and another corpsman and a number of stretcher bearers were sent out to rescue them. They completed their mission and had put the wounded men on a tank just as the shrapnel began to fall. HN Calvert received hand wounds.

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TRANSPORTATION TROUBLES

Rides Wanted  
San Francisco

Martha Klein (2697) 136 Guerrero (nr 14 & Market)	Dorothy McDowell (2218) 978 Hayes (nr. Steiner) WA 1-2062
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Car Pool  
East Bay

William L. Finley (2692)  
2725 Ashby Place, Berkeley  
TH 3-6128

MEDICAL DIRECTOR TO SPEAK

CAPT Burkwall will deliver a lecture on "Reasons and Methods of Obtaining Radiological Safety" to the Volunteer Reserve Unit 12-5 Medical Services Corps of 12 ND on 25 June at 7:30 PM at the Federal Office Bldg., San Francisco.

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OLD TIMERS RETURN

Two of the new civilian employees sketched in last week's BULLETIN aren't really new to NRDL. Henry Hunter was a member of our staff from March 1948 to October 1950, and Cornelia Sue Langford also came to NRDL first in 1948. Mr. Hunter left the Lab to go into private industry and Miss Langford to work for the Army. We are glad to see they wanted to return to the Navy and extend a hearty "welcome back."

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RESERVE OFFICER HERE  
FOR TRAINING

Dr. Arthur H. Smith arrived at NRDL this week for two weeks' active Navy duty. Dr. Smith is from the University of California at Davis and is a lieutenant-commander in the Medical Services Corps. He will conduct the Bio-Med Seminar next Thursday, 26 June, speaking on "Radioactive Phosphorus Studies in the Metabolism of the Chick."

LAB TRAVELERS

Mr. Thomas J. Mathews left on Wednesday for a week in Southern California. He will attend an AEC Technical Information Panel Meeting at UCLA, after which he will go to NOTS, Pasadena, to confer with Mr. A. E. Tyler and then to the Pasadena Board of Civil Service Examiners for discussion of Technical Information matters.

Mr. A. E. Schuert is in the east this week visiting the Army Chemical Center, Edgewood, Maryland; Dahlgren Proving Grounds; and BuShips in connection with Operation plans.

Messrs. Wm. G. Neall, Joseph E. Law, Jr., and Francis M. Tomnovec spent a day this week at the Naval Supply Annex, Stockton, re-checking boats for contamination and correlating the decontamination of boats for release.

Dr. R. W. Brauer left this week for Portland, Oregon, where he will visit Reed College and the University of Oregon to discuss training and scientific programs. He will present a paper at a scientific meeting of the AAAS.

Mr. George A. Work has gone to Washington, D. C., to attend the crystal dosimetry conference at BuShips.

Mr. Raymond S. Alger is in the east and will stop at (1) Washington for the dosimetry conference at BuShips, (2) Beverly, Mass., and Callery, Pa., to discuss Alkali Halide Dosimeters, (3) Urbana, Illinois for consultation at the University of Illinois, and (4) Chicago for consultation at the Argonne National Laboratory.

Mr. W. E. Kregar will spend a week in the east visiting Brookhaven National Laboratory, Patchogue, L. I.; White Plains, New York, for consultation with Dr. Goldstein; and the National Bureau of Standards in connection with the Shielding Program.

Dr. Andrew Guthrie left Sunday for Washington to attend the crystal dosimetry conference. He will go to Cambridge, Mass., Hi Voltage Engineering Corp. for discussion of the Van de Graaff; to Corning, N. Y. for discussion of the Handbook of Physics with Dr. E. U. Condon, and to St. Louis, Mo., for recruitment.

Mr. Stephen C. Foti has gone to Boston, Mass., to participate in BuShips tests.

Mr. Norman S. Waner was in Los Angeles this week for consultations at Brown Instrument Company, Hieatt Engineering Company, Bemco Corporation, and Commercial Ref. Company concerning Walk-in Climatic Simulating Test Chamber.

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Mr. Arthur H. Redmond recently left for Washington for discussion at BuShips of the Radiac Program. He will visit Antone Electronics in New York in connection with the Tubes Program, and Oak Ridge in connection with the Neutron Program.

Mr. Norman Vogel is spending part of this week at the USN Proving Grounds, Dahlgren, Va., on a BuShips project.

Miss Paulyne Machus is at David Taylor Model Basin and Naval Research Laboratory this week for discussion of budgeting and funding problems.

Mr. Walmer E. Strobe was in Washington this week to attend a conference at BuShips and AFSWP.

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NEW MEMOS AND NOTICES

The Secret Document Control Clerk, Communications Section, is now located in Room 220, Bldg. 508, Ext. 3091. Incoming and outgoing Secret Communications will continue to be handled by Communications Section, Code 3-286A who will also receive mail and file letters, et cetera, pertaining to current field operations (until all final reports are published). Secret publications will continue to be handled by Library Branch, Code 3-222, Bldg. 351, Ext. 2655. Outgoing Secret correspondence enclosing Secret publications under control of the Library Branch must be transmitted by properly cleared messenger via the Library Branch for attachment of the publication. Responsibility for mailing letters and enclosures rests with Communications Section.

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CONGRATULATIONS, COMMITTEE

Orchids to the Committee who organized the first Lab-wide cocktail party honoring outgoing and incoming personnel! Because some dates of departure were sooner than expected, they had to move quickly. This took a "bit of doing" but they managed to get the Marine Memorial Club, made all other arrangements, and sent hand-written invitations to the honor guests. LCDR Busby, Peggy Brooks, and Betty Hile are the geniuses who accomplished the feat.

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PUBLIC RELATIONS

Public Relations are something no one can avoid. You have them just as you have air to breathe and without good public relations you can feel smothered even as you would without air.

Public Relations are good according to the degree of regard you hold for the other fellow--his feelings, likes, dislikes, fears, loves, hates, position, desires, and ideas. Good public relations make friends, avoid misunderstandings, build good morale, maintain high performance, and make the daily job pleasant. Good public relations aren't whitewash splashed on misdeed, misconduct, or discourtesy. Nor are they attained by creating an air of superiority, by neglecting to smile, barking out orders, criticizing associates, discussing subordinates with their teammates, screaming at them or trying to be a Napoleon.

It is possible to acquire good public relations, but you must earn them. You earn them the same way you acquire friends--the same way you save money--the same way you keep your good health--the same way you win happiness--YOU WORK AT IT.

There is no magic to good public relations. These are the fundamentals:

Don't just think "thank you" -- say it, write it, and, most important, mean it.

Give credit when and where it is due to others who help make you look good.

Share common plans and planning with others rather than expecting them to guess your mind.

Watch your telephone manners. Identify yourself initially, listen patiently, get facts accurately, answer questions politely, and suggest helpfully.

Inspire confidence by using a speaking pitch medium to low, a speaking rate medium to slow, a speaking quality warm with interest and kindness.

Hold subordinates in high regard. Their job classification may be lower than yours, but they are members of your team "shaking the same apple tree" as you.

Learn all you can about your job and those of others and then learn some more. You will get fewer "no's!" the more you know.

Remember! It's the little things that count-- "hello," "goodbye," "thank you," "good luck," and "may I help."

It's as simple as that.

--Adapted from the Management Digest, Sept. 1951, DAB-10 Apr. 1952.

ONE YEAR AGO AT USNRDL

Farewell luncheon given for Dr. Sullivan by 70; Dr. Sanigar gave a clever resume of "Life with H;" Dr. Sullivan presented with a handsome desk set with clock and a "NRDLGRDL"... Col. Wolfe presented the Lab with a son... CAPT Bird visited BuShips... Messrs. Hong Lee, H. Rinnert, J. Sartor, J. Sherwin, G.L. Smith, and H. Wellhouser attended the Heat Transfer and Fluid Mechanics Institute at Stanford... Mrs. Nordquist attended the Library Association meeting in St. Paul... Mr. Jack Washkuhn went to Moscow, Idaho, for consultation on the analysis of soils to determine dispersion characteristics...

New Employees a Year Ago:

Lloyd Schouweiler (Bio-Med)

Perry H. Vartanian (Nucleonics)

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50 LITTLE-KNOWN FACTS ABOUT THE ATOM

--By Dr. Ralph E. Lapp

(Published through Courtesy of COLLIER'S)

36. Why wasn't the A-bomb used in Korea? Fundamentally because there were no really good targets for it. North Korea did not present any appropriate strategic cities as targets and the battle front stretched over many miles of mountainous terrain. Chinese Communists and North Koreans were strung out in valleys and on hillsides, very often well protected in deep shelters. It would have been a waste of atomic ammunition to use the A-bomb. Furthermore, it would have added fuel to the Communist propoganda fire about the American "aggressor."

37. What is meant by "atomic fission"? Atomic fission is the splitting of a uranium atom into two fragments. It is this process which releases energy in the form of heat. The heat thus produced can be emitted in a flash (atomic explosion) or it can be controlled (atomic power).

## HAVE A HEART, SCIENTISTS!

The science reporter has a tough time of it. In "Reporting Science" (SCIENCE, 18 April 1952) Frank Carey, Science Reporter for Associated Press, points out the obstacles a science reporter must clear to do his job. "If you don't think a science reporter is called upon to work under conditions of stress," says Mr. Carey, "watch one trying to interview a gun-shy scientist."

Competition, too, is keen, with more than 100,000 words a day flashing over the wires of AP alone. It's a selective business and to get printed the science story must have news interest or vast human appeal.

"An AP story on the discovery of "hooked-tailed mice" was published in a lot of newspapers recently, even though it was written on a day when political, international, and other news was running a high temperature. And it wasn't just a gag story about an oddity of nature; it was intended to illustrate, in an eye-catching way, some of the unusual aspects of research on heredity.

"Sometimes scientists shudder at the "hooked-tailed mice" type of story, or at least some of them say they do. They don't object to the scientific content, but to the approach a reporter makes. They maintain reporters go out of their way to emphasize the bizarre. Yet they forget that, if it weren't for the publication of this type of human-interest story, a lot of people might forget that scientists are working on many fronts to solve unanswered questions. And scientists, whether they admit it or not, need the interest of the people, because the people, directly or indirectly foot the bills for much of research.

"Thanks to accurate reporting of news in newspapers and magazines during the past few decades, the general public should be fairly well informed on such matters--to the extent that it can ask intelligent questions. The Science man must train himself in ALL the fields of activity about which he'll be called upon to write. These fields extend literally from A-to-Z-- from atomic energy to zoology and from astronomy to the physical properties of zirconium.

"It was indicated earlier in this article that good science reporting could help science itself by explaining research projects to a public that ultimately pays many of the bills.

"Good science reporting can also alert the public to health hazards and to early symptoms of diseases such as cancer and diabetes.

"Some scientists still have the impression that science writers think--and write--only in terms of the melodramatic and the bizarre, generously sprinkled with inaccuracies. Rarely, however, can they cite specific instances. Actually, the reporter's one thought is to present them in the most readable fashion from the standpoint of a layman. He hopes that the scientists will like his story, too, but he's writing primarily for people who do not necessarily have any background in the subject discussed.

"It has sometimes been stated by scientists that popular presentation of science should be done by the scientists themselves, not by laymen.

Most scientists simply cannot write the type of article that makes for good reading by the laity. It's not that they can't handle the English language; it's just that they are accustomed to talking in scientific jargon. Even some of the down-to-earth men are occasionally inclined to throw in a few "one-to-the-minus-tenths."

"Now and then I get a so-called abstract of a scientific paper from a scientist who tries to be helpful by writing it in what he thinks is good journalese. Invariably, it's not so hot, to put it mildly. The technique of the science reporter, who attempts to make his articles understandable to everyone of average intelligence, might well be adopted by the scientists in their own league. In fact, it might step up circulation.

"Many scientists try to cooperate with the reporters. Some of them have sincere fears about being made to appear to be publicity seekers merely because they talk to reporters. They forget that reporters may be just seeking additional information on something the scientist has already reported at a scientific meeting or in a technical journal. If their scientific colleagues condemn them for that, scientific organizations should do something about protecting their men from such criticism."

(Condensation of Mr. Carey's article)

CALENDAR OF EVENTS

At USNRDL

THURSDAY 26

11:00 AM Bio-Med Seminar in Conference Room, Bldg. 351-B

Speaker: Dr. A.H. Smith, University of California, Davis Calif.

Subj: "Radioactive Phosphorus Studies in the Metabolism of the Chick."

In the Bay Area

THURSDAY 26

6:00 PM Am. Soc. of Mech. Engrs., at (dinner) Engineers' Club, 206 Sansome, San Francisco

Speaker: Stanley Hiller, Jr., President of Hiller Helicopters

Subj: "The Development of the Helicopter Industry: What Can We Expect in the Next Ten Years?"

7:15 (meeting)

Speaker: Heat Transfer & Process Division Prof. Richard A. Fayram, University of California

Subj: "Character of Nuclear Power." (Discussion of basic factors in development and use of nuclear reactors. Power production and other effects of engineering importance will be treated)

Speaker: Applied Mechanics Division Mr. G. W. Brown, Asst. Prof. of Engineering Design, Univ. of California.

Subj: "Laboratory and Industrial Practice in Experimental Stress and Load Analysis."

CALENDAR OF ENTERTAINMENT

M. H. DeYoung Museum Exhibits

Contemporary Hand Weavers of California-- Opening June 25

Roy Ami Hamlin--Pen and Ink Drawings-- Closing June 29

Thirteen Watercolorists-- Closing June 29

San Francisco Museum of Art Exhibit

Jewelry by Peter Macchiarini, Vera Allison, and Irena Byrner -- Through June

The Art of Henri Matisse - Through July 6

Television

"The Photographer's Eye"--of the series "Art in Your Life" - Sunday June 22 at 1:30 PM

Music

Chamber Music Concert - Tuesday, June 24 at 8:30 PM

Lectures

"Matisse, His Place in the Art Tradition" - Sunday, June 22 at 3:00 PM

Title to be announced by Thos. C. Howe, Director of Calif. Palace of Legion of Honor - June 25 at 8:00 PM

Movies

"Aubusson Tapestries" and "Paris des quatre saisons," also "Visit with Henri Matisse," June 21 and 22 at 2:00 PM and 4:00 PM.

California Palace of the Legion of Honor

Movies

Three Men on a Horse - June 21 at 2:30 PM

Music

Organ Recital - June 21 and 22 at 3:00 PM

ARMED FORCES PERSONNEL NEW PAY RATES

The following tables illustrate the new pay grades for all Armed Forces personnel. Figures are based on the new four percent increase in base pay which will be retroactive to May 1.

COMMISSIONED OFFICERS

Pay Grade	Under 2	Over 2	Over 4	Over 6	Over 8	Over 10	Over 12	Over 14	Over 16	Over 18	Over 22	Over 26	Over 30
O-8	963.30	963.30	963.30	963.30	963.30	963.30	963.30	963.30	963.30	963.30	936.30	963.30	992.94
O-7	800.28	800.28	800.28	800.28	800.28	800.28	800.28	800.28	800.28	800.28	800.28	829.92	859.56
O-6	592.80	592.80	592.80	592.80	592.80	592.80	592.80	592.80	607.62	637.26	666.90	696.54	726.18
O-5	474.24	474.24	474.24	474.24	474.24	474.24	489.06	503.88	518.70	548.34	577.98	607.62	607.62
O-4	400.14	400.14	400.14	400.14	414.96	429.78	444.60	459.42	474.24	503.88	518.70	533.52	533.52
O-3	326.04	326.04	340.86	355.68	370.50	385.32	400.14	414.96	429.78	444.60	459.42	459.42	459.42
O-2	259.36	274.18	289.00	303.83	318.64	333.46	348.28	363.10	363.10	363.10	363.10	363.10	363.10
O-1	222.30	237.12	251.94	266.76	281.58	296.40	311.22	326.04	326.04	326.04	326.04	326.04	326.04

WARRANT OFFICERS

Pay Grade	Under 2	Over 2	Over 4	Over 6	Over 8	Over 10	Over 12	Over 14	Over 16	Over 18	Over 22	Over 26	Over 30
W-4	332.90	332.90	332.90	348.04	363.17	378.30	393.43	408.56	423.70	438.83	453.96	469.09	484.22
W-3	302.64	302.64	302.64	310.21	317.77	325.34	332.90	340.48	348.04	363.17	378.30	393.43	408.56
W-2	264.82	264.82	264.82	264.82	272.38	279.95	287.51	295.08	302.64	317.77	332.90	348.04	363.17
W-1	219.42	219.42	219.42	226.98	234.55	242.11	249.68	257.24	264.82	279.95	295.08	310.21	310.21

ENLISTED PERSONS

Pay Grade	Under 2	Over 2	Over 4	Over 6	Over 8	Over 10	Over 12	Over 14	Over 16	Over 18	Over 22	Over 26	Over 30
E-7	206.39	206.39	214.03	221.68	229.32	236.96	244.61	252.25	259.90	275.18	290.47	305.76	305.76
E-6	175.81	175.81	183.46	191.10	198.74	206.39	214.03	221.68	229.32	244.61	259.90	259.90	259.90
E-5	145.24	152.88	160.52	168.17	175.81	183.46	191.10	198.74	206.39	221.68	236.96	236.96	236.96
E-4	122.30	129.95	137.59	145.24	152.88	160.52	168.17	175.81	183.46	198.74	198.74	198.74	198.74
E-3	99.37	107.02	114.66	122.30	129.95	137.59	145.24	152.88	152.88	152.88	152.88	152.88	152.88
E-2	85.80	93.30	101.40	109.20	117.00	124.80	124.80	124.80	124.80	124.80	124.80	124.80	124.80
E-1	83.20	91.00	98.80	98.80	98.80	98.80	98.80	98.80	98.80	98.80	98.80	98.80	98.80

(Over 4 months) (E-1 under 4 months, 78.00)

Basic allowances for quarters for officers and enlisted members of the Armed Forces have been increased 14 percent on the following scale:

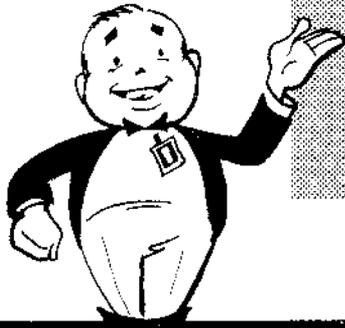
Commissioned and Warrant Officers

Pay Grade	With Dependents	Without Dependents	Pay Grade	With Dependents	Without Dependents
O-8	\$171.--	\$136.80	O-2	\$ 94.20	\$ 77.10
O-7	171.--	136.80	O-1	85.50	68.40
O-6	136.80	119.70	W-4	119.70	94.20
O-5	136.80	102.60	W-3	102.60	85.50
O-4	119.70	94.20	W-2	94.20	77.10
O-3	102.60	85.50	W-1	85.50	68.40

Enlisted Persons

Pay Grade	Not Over 2 Dependents	Over 2 Dependents	Pay Grade	1 Dependent	2 Dependents	Over 2 Dependents
E-7	\$77.10	\$ 96.90	E-3	\$51.30	\$77.10	\$96.90--
E-6	77.10	96.90	E-2	51.30	77.10	96.90
E-5	77.10	96.90	E-1	51.30	77.10	96.90
E-4	77.10	96.90				

Basic allowance for subsistence has been increased 14 percent for officers and enlisted personnel. There has been no increase in commuted rations for enlisted personnel.



# N R D L E R S' H A N D B O O K

CODE 6

## HEALTH INSURANCE (Part II)

### CALIFORNIA PHYSICIANS' SERVICE

CPS is California's non-profit Blue-Shield Plan for health protection. It exists to enable families to budget in advance against the economic shock of illness, accident, and operation. Organized in 1939, it is the oldest state-wide medically sponsored health plan in the Nation. More than 10,850 physicians support it; more than 1,000,000 Californians enjoy its security. Membership is available to married people and their unmarried dependent children over 30 days and under 19 years.

### SUBSCRIBER BENEFITS ONLY

(These apply at Hospital, Doctor's Office, or Home.)

1. The first visit to doctor for an accident.
2. The 3rd visit for illness (subscriber pays for first 2 visits for each illness).
3. Medical care for 1 full year for cancer, tuberculosis, brain tumors, polio, severe burns, leukemia, coronary occlusion, Paget's Disease, Hodgkin's Disease, stroke, brain concussion, sub-acute bacterial endocarditis.
4. Medical care in all other cases provided for 3 consecutive months for non-surgical professional services.
5. X-ray and radium treatments for malignancies for one year beginning with 3rd visit.
6. When necessary for diagnosis of illness or injury outside the hospital:
  - (1) Up to \$10 each contract for laboratory services including allergy tests.
  - (2) For female employee, maternity allowance up to \$50, if a member for 9 consecutive months.

### SUBSCRIBER & DEPENDENTS BENEFITS

- I. In Any Licensed Hospital
  1. Fifty days' care for each period of disability provided in 3-or-more-bed room. This includes:
    - (a) dietary service
    - (b) general nursing
    - (c) use of operating room
    - (d) surgical & anesthetic supplies, splints, casts & dressings
  2. Use of emergency room for accidents if used within 24 hours.
  3. Use of cystoscopic room.
  4. Hospitalization allowance of \$50 each contract year for maternity care if family member for 9 consecutive months. Hospital benefits for ectopic pregnancy and repair complications arising from prior pregnancy.

### SURGICAL BENEFITS -- provided up to 1 year.

- I. In the Hospital, Doctor's Office or at Home.
  - (1) Operations
  - (2) Care of fractures & dislocations
  - (3) Suturing of wounds & lacerations
  - (4) Caesarean & other pregnancy surgery
  - (5) Post-operative care
  - (6) Services of physician ass't. & anesthetist
  - (7) When a bed patient in a licensed hospital and illness or injury for which hospitalized necessitates, following are provided:
    - (a) X-ray examinations
    - (b) Urinalyses, blood counts, simple smears, coagulation times
    - (c) Basal metabolisms and electro-cardiograms.

II. Outside the Hospital.

(1) X-rays up to \$25 each contract year provided for fractures or dislocations and in all accident cases.

EXCLUSIONS

General -- Workmen's Compensation cases, free services provided by governmental agency, congenital malformation, alcoholism, radiation therapy (except as listed), cosmetic surgery, dental services, physical therapy.

Hospital--Rest cure, mental conditions, observation, tuberculosis, quarantinable diseases.

Medical-- Eye refractions, psychiatric examination & treatment, preventive inoculations & vaccinations, routine physical examination.

Surgical--Any pregnancy service except as listed under "Surgical Benefits."

DEPENDENTS BENEFITS PROVIDED FOR HIGHER FEE

1. Medical service up to 201 days for each non-surgical illness or injury when a bed patient in a licensed hospital.

(a) Begin with THIRD visit of doctor to the hospital.

(b) After first 21 days must be continuously registered as bed patient.

EXCLUSIONS

Conditions arising from pregnancy, physical therapy, rest cures, observation, tuberculosis, quarantinable diseases, psychiatric exam. & treatment, & routine physical exam.

MONTHLY FEES FOR MEMBERSHIP

Male employee	\$4.00
Female employee	5.40
Male employee & 1 dependent	7.50
Female employee & 1 dependent	7.90
Male employee & 2 or more depend.	9.20
Female Employee & 2 or " "	9.70
Registration fee of \$1.00	
Additional benefits for 1 dependent	.80
" " " 2 or more dependents	1.20

PAYMENT

I. To Physicians

If you choose one of the 10,850 member physicians, he will accept CPS fees as payment in full for:

(1) Families of 2 or more persons whose combined gross income is less than \$4200 a year.

(2) Single persons whose gross income is less than \$3600 a year.

When gross income exceeds income ceiling, or when services are rendered by a non-member physician, CPS payments will be applied to the physician's usual charge.

II. To Hospital

CPS makes payments directly to the hospital for full cost of all listed services. For extra services, member pays the difference directly to the hospital.

OTHER FACTORS

1. No red tape. No claim forms. CPS pays directly to physicians and hospitals.

2. No age limit--if you join in a group when first eligible. Membership may continue for life.

3. Benefits for illness existing at time of enrollment, if you join when first eligible.

4. Benefits begin on effective date of membership.

5. No physical exam.

6. Choose your own doctor.

7. May use any licensed hospital.

8. World-wide protection.

ADDRESSES OF CPS, NORTHERN CALIFORNIA OFFICES:

450 Mission, San Francisco, SU 1-4633

337 -17th, Oakland, TW 3-8000

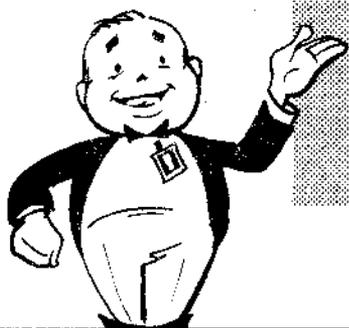
119 So. Ellsworth, San Mateo, DI 4-0988

215 Bank of America Bldg. San Jose, CY 2-5152

546 Georgia, Vallejo, VA 3-3181

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Other types of Health Insurance will be covered in an early BULLETIN.



# NRDLERS' HANDBOOK

## NOTEWORTHY NRDLERS

### MEET -- BETTY ANN KISH

You would never suspect that the soft-voiced, pretty secretary for Chem Tech Division is the adventurous type, or that she had been chased by Russians (plural and literally!)-but let's not get ahead of our story. . . .

Betty Ann Kish was born in Boardman, Pennsylvania, but from the tender age of one year until she finished high school and business college, lived in Norwalk, Connecticut. Of eight children, Betty is the only one with wanderlust. When the Big World called, Betty brightly answered, "Coming!" Her first move in 1942 was not far afield--Washington, D. C. where she worked with the Air Transport Command. In 1944 she transferred to Morrison Field, West Palm Beach, Florida, and that was only a hop from San Juan, Puerto Rico. Betty knows every inch of the West Indies--Jamaica, Haiti, St. Thomas, Antigua, even Trinidad. In 1948 the world started paging her again, and this time she crossed the ocean she'd been splashing around in for eighteen months.

She drew a lucky assignment with the Allied Kommandatura, the Quadrapartite Government of the City of Berlin with headquarters in the Gruenwaldstrasse. Betty visited the ruins of German cities and most of the European capitols. An opera enthusiast, she attended performances several times a week; she also saw the 1948 Olympics at St. Moritz,

It was about this time that the Russians began their walk-outs from Committee meetings--the beginning of the Cold War. Relations were strained, zones restricted, Potsdam was "verboten," but by dressing in peasant costumes, Betty and her colleagues managed to see a good bit of the Russian area. Through German friends, Betty learned of some particularly fine Dresden figurines in a Potsdam shop. She set out in an official car and, for some strange reason, it was unobserved until she started back. Suddenly a Russian guard spotted the American car! For fifteen blocks the American driver and a very frightened Betty Kish darted in and out of back streets with the Russians in hot pursuit. The little German car, unused to such violent treatment, began to heat up. Betty could imagine all sorts of dire consequences--prison--torture--embarrassment, to say the least. They made the American Zone just in time. As if satisfied with having cleared the border, the little engine coughed and died. Even yet, Betty shudders at the thought of what might have happened.

Returning to the USA in the summer of 1948, Betty stayed in the family nest until October 1949 before the "call" came again--this time from the west. Betty worked in Los Alamos for 18 months before she came to NRDL in March 1951. Dr. Ed Tompkins fears that Europe is sort of in her blood--"she often threatens to go back," he said. However, the next call may come from Japan--and, again, perhaps she has found Shangri-La right here. We can only hope!