



PROMOTED TO CHIEF - RAdm. W. J. Moran (left), Commander, NWC, reads the CPO Grant to two new Chief Petty Officers: MMC Evaristo Chavez, (center) and SDC Medardo P. Reyes. The ceremony took place in the Chief Petty Officers Club. Chief Chavez has since departed NWC for USS Mars (AFS-1) Alameda NAS, and Chief Reyes is Petty Officer in Charge of the BOQ.

SHOWBOAT

FRI 6 NOVEMBER
"WHICH WAY TO THE FRONT?" (96 Min)
Jerry Lewis, Jan Murray

7:30
(Comedy) Millionaire Jerry is drafted and rejected but wants to fight WWII so he forms his own cockamamie army and goes off to fight in Europe. (G)

Shorts: "Hareway to the Stars" (7 Min)
"Off to the Races" (9 Min)

SAT 7 NOVEMBER

-MATINEE-
"AFRICA, TEXAS STYLE" (109 Min)
Hugh O'Brien
1:00 p.m.

Shorts: "Saddle Sore Woody" (7 Min)

-EVENING-
"TELL THEM WILLIE BOY IS HERE" (98 Min)
Robert Redford, Katherine Ross
7:30 p.m.

(Western-Drama) Powerful, interesting, holding story based on actual fact has a renegade Indian taking to the hills with his woman after murdering her father in self defense. (GP)
Short: "Get in the Swim" (9 Min)

SUN and MON 8-9 NOVEMBER

"A BOY NAMED CHARLIE BROWN" (80 Min)
Charlie, Snoopy, Linus & Lucy
7:30 p.m.

(Cartoon Comedy) Happiness is a 'loser' named Charlie Brown who just can't seem to do anything right, but Snoopy is a winner in the field of stereo or baseball. (G)
Short: "Bear Country" (33 Min)

TUES and WED 10-11 NOVEMBER

"CHEYENNE SOCIAL CLUB" (103 Min)
James Stewart, Henry Fonda
Shirley Jones
7:30 p.m.

(Western-Comedy) A pair of shaggy Texas cowpokes ride up to Cheyenne when one of them inherits an estate. They find it's the town bewdy house where they spend half their time trying to evict the girls and half protecting them! (GP)
Short: "Never on Thirday" (7 Min)

THURS and FRI 12-13 NOVEMBER

"TOGETHERNESS" (101 Min)
George Hamilton, Peter Lawford
John Banner
7:30 p.m.

(Comedy) A millionaire bachelor and a fabulously wealthy prince, both from the free-swinging Jet Set, try to score with a gorgeous Playmate who is an Iron Curtain athlete as Hippie Schultz gets in the way. (GP)
Short: "Sorry Signorina" (9 Min)

Contributions To CFC Lagging Says Chairman

Jesse Bell, chairman of the Combined Federal Campaign committee, has issued an appeal to all employees of the Naval Weapons Center to contribute to the CFC to the utmost of their ability to insure that this year's drive is more successful than that of 1969.

"There is probably not one person who hasn't benefited from the agencies involved in the CFC in one way or another," Bell stated. "A parent with a child in the



Jesse Bell

Scouting movements, persons with elderly relatives with heart disease or cancer, people who have received aid from the Red Cross, and those involved with the many other areas of concern," Bell reminded.

According to Frank MacDonald, Publicity Chairman for the annual fund drive, only \$27,000 has been collected at present toward the \$75,000 goal.

Bell also appealed to keymen and assistant keymen to contact personally each person within their designated areas. "There is only two weeks remaining," Bell said, "so Keymen must make every conceivable effort to accomplish the goals of this year's campaign."

WACOM Sponsors

(Continued from Page 3) efforts to secure information about their husbands.

Barry Goldwater, Jr., Congressional Representative, who visited the China Lake - Ridgecrest area this week has donated four Goldwater mugs and one of his personal ties to the "Reindeer Shoppe". In addition, Grants Store has donated shopping bags to be given away at the Military Wives' POW booth.

Persons who wish to assist by donating white elephants may contact Mrs. Bert Creighton, Mrs. Robert Moore or Mrs. Roy Cobb.

Hall Of Fame Honors Michelson

(Continued from Page 1)
The Hall of Fame for Great Americans is a national shrine which stands at the summit of the University Heights campus of New York University overlooking the junction of the Hudson and Harlem Rivers and the New Jersey Palisades. It is a symbol of our nation's heritage of greatness as exemplified in the achievements of the distinguished men and women honored there. It is fitting that Dr. Michelson's memory should be preserved in these distinguished surroundings.

The news of Dr. Michelson's election to the august shrine was received with great pleasure at the Naval Weapons Center. Since the dedication of the Center's Michelson Laboratory in May, 1948, officials here have been intimately associated with the life and achievements of the noted scientist.

Early in 1970, the Naval Weapons Center was asked by Adm. I. W. Galantin, Chief of Naval Material, and RAdm. E. M. Eller, USN (Ret.), Director of Naval History, to prepare documentation that would support the candidacy of Michelson. NWC's principal response to this request was, to publish in May, 1970, a definitive and attractive 32-page brochure, written by D. T. McAllister, on the life and work of the Nobel physicist.

Under the direction of Dr. William B. Plum until 1963, the original collection was significantly expanded and became known in 1949 as the Michelson Museum. It now includes some 150 pieces of authentic hardware and over 20,000 pages of data records, notebooks, manuscripts, published articles, and other documents associated with Michelson's work. Since 1960, this project has been directed

principally by D. T. McAllister of the Technical Information Department. As the current curator of the Center's Michelson Museum he has been ably assisted for several years by Georgia Cabe, also of TID.

In May, 1969, these efforts paid off handsomely on the occasion of the dedication by the Naval Academy of Michelson Hall at Annapolis. At that time, the Center was highly instrumental in providing advice, exhibits, and expertise on experiments and other work that Dr. Michelson carried out at the Academy while he was a member of the science faculty from 1875-79.

PWOC To Host Farewell To Senior Chaplain

This Sunday evening, at 7:30 p.m. in the East Wing of the All Faith Chapel, the community will bid farewell to Chaplain and Mrs. Harold A. MacNeill and will welcome Chaplain and Mrs. Robert E. Osman.

The reception for the NWC Chaplains will be followed at 8:30 p.m. by presentations and a program. All friends and acquaintances of Chaplain and Mrs. MacNeill are invited to the reception hosted by the Protestant Congregation of the All Faith Chapel. Baby sitting will be available for those with small children in Chapel Annex 1, Room 4.

Requirements. File Standard Form 172 (Supplemental Experience or Qualification Statement) and Supplemental Wage Grade Supervisory Information Sheet with the Special Examiner, Code 652, Naval Weapons Center, China Lake, California, 93555, to be received or postmarked not later than 23 November 1970. Forms may be obtained in the Personnel Building, Room 120, Naval Weapons Center, China Lake, California. However, employees who have been demoted (except for cause or at their own request) from this or a higher level position and who held the position on a permanent basis, must file a Standard Form 172 with Head, Personnel Service Division No. 2, Code 657, Room 210, Personnel Building, Naval Weapons Center, China Lake, California, 93555.

Vol. II To Play At Jolly Roger

Bob Furey, manager of the Enlisted Men's Club (The Jolly Roger), has announced that "Vol. II" will play for a dance Saturday evening, from 9 p.m. until 1:30 a.m.

Furey invites all club members and their guests to partake in the evening of fun and entertainment.

Requirements. File Standard Form 172 (Supplemental Experience or Qualification Statement) and Supplemental Wage Grade Supervisory Information Sheet with the Special Examiner, Code 652, Naval Weapons Center, China Lake, California, 93555, to be received or postmarked not later than 23 November 1970. Forms may be obtained in the Personnel Building, Room 120, Naval Weapons Center, China Lake, California. However, employees who have been demoted (except for cause or at their own request) from this or a higher level position and who held the position on a permanent basis, must file a Standard Form 172 with Head, Personnel Service Division No. 2, Code 657, Room 210, Personnel Building, Naval Weapons Center, China Lake, California, 93555.

Requirements: GS-7, 3 years general exp. and 2 years specialized. Job Relevant Criteria: Knowledge of Center, Navy, CNA and etc., regulations for distribution and classification of material is desirable.

PUBLIC INTEREST' Certificates To Two

Horace M. Joseph and John O. Dick, NWC Corona Annex scientists who helped administer the tutor program at the Riverside city schools, were awarded Certificates of Achievement "for outstanding action in the public interest" in a ceremony at the Corona Annex last week. The presentations were made by Cdr. C. D. Brown, Officer in Charge.

The attractive award certificates, signed by Capt. M. R. Etheridge, and encased in NWC folders, recognized the special efforts these men have made to their community in the volunteer Study Center tutoring work. The program is sponsored by the Riverside Civic League.

Cdr. Brown recounted the work of the men in the tutoring program, and concluded, "This is an example of selfless devotion to your fellow man of the highest order... The Navy can be proud to have men of your caliber in its employ."

Attending the ceremony were Harry Batzle of the Civic League;

Center Reorganization Divides Two Departments



NEW CODE 35 MANAGEMENT—Leroy Riggs (c), Department Head of the newly organized Electronic Systems Department, gathered his division heads around him for a recent meeting. Left to right, they are: W. F. Meggers, Jr., W. E. Davis, J. R. Schreiber, W. B. Porter, D. J. Russell, R. M. McClung, and A. C. Sevy. The new department is a compilation of elements of the old Aviation Ordnance and Missile Systems Departments and the Weapons Development Department.



NEW CODE 40 MANAGEMENT—The Weapons Development Department also figured into the technical department reorganization. The management of that organization now consists of: (seated, l-r) Dr. Marguerite Rogers, C. P. Smith, C. M. Dye, F. H. Knemeyer (Dept. Head), Don Totten, J. A. Crawford, and R. V. Boyd; Standing (l-r) are L. L. Dolg, Dept. Consultant, B. F. Connolly, Head of Staff, P. Arnold, and G. F. Cleary. Not present was R. W. Van Aken.

Last Rites For AOD (Pages 4 & 5)

ROCKETEER NWC Vol. XXIV No. 44 Naval Weapons Center, China Lake, California Fri., Nov. 6, 1970

Albert A. Michelson Elected To Great Americans Hall Of Fame

News Announced October 28 By New York Univ.

On October 28, the Hall of Fame for Great Americans at New York University, announced the election to that auspicious body of Dr. Albert A. Michelson, who was the first American scientist to be awarded the Nobel Prize.

Dr. Michelson was elected by a distinguished group of approximately 120 outstanding Americans appointed by the Director of the Hall of Fame. The Electors represent every state in the Union and many fields of endeavor. Active electors include former and present University presidents, scientists, authors, jurists, and other highly respected citizens. Six former electors - Grover Cleveland, Theodore Roosevelt, Woodrow Wilson, Alice Freeman Palmer (educator), Alexander Graham Bell, and Simon Newcomb - have themselves been enshrined in the New York Hall of Fame. Persons elected must secure the majority of the votes of the electors. No more than seven names are chosen at time of balloting which is now held every three years.

(Continued on Page 8)



INSPECT NOBEL CERTIFICATE - Michelson Museum Curator, D. T. McAllister, holds open Michelson's Nobel Certificate which he received when he won the Nobel Prize in Physics in 1907. Viewing the document held by McAllister are H. G. Wilson, NWC Technical Director, and K. H. Robinson, Head of NWC's Technical Information Department.



A. A. Michelson

Reorganization Changes Listed

Effective October 5, 1970, three NWC technical departments were consolidated into two departments and reorganized along the lines of concentrating the effort of the Center's radar-oriented systems work into one area, and the Center's electro-optical oriented programs into another.

Specifically, the Aviation Ordnance Department and the Missile Systems Department of the Corona Annex have been disestablished and their components reassigned to the Weapons Development Department (Code 40) under F. H. Knemeyer, and into a new department called the Electronic Systems Department (Code 35), under Leroy Riggs, former head of the Missile Systems Department.

The Electronic Systems Department now consists essentially of the former Missile Systems Department less the Bulldog Program; the former Aviation Ordnance Department's staff, and Development Divisions Nos. 3, 4, 5, 6, and part of No. 7; plus the Shrike Program, the former Anti-Radiation Guidance Division and the Analog-Hybrid Simulation Laboratory, which were formerly in Code 40. Major weapons programs now under the cognizance of this new department include Shrike, Standard ARM, HARM, HARPOON, and the A-7E Aircraft System.

The Weapons Development Department, with the new reorganization, now includes Development Divisions Nos. 1, 2, and the remainder of No. 7 from the former Aviation Ordnance Department, and the Bulldog Program from the disestablished Missile Systems Department. Otherwise, except for the transfer of the Shrike Program office and the Anti-Radiation Guidance Division, the Flight Simulation Division and an analysis branch, to the new Electronic Systems Department, the rest of the original Weapons Development Department remains unchanged.

The new Electronic Systems Department will conduct applied research in Electronic Systems, and work to design and develop guided missile weapons systems, airborne radio frequency surveillance and homing systems, instrumentation systems, and weather modification systems.

In addition, the new Code 35 will conduct development and (Continued on Page 3)



SUPPORT FOR POW WIVES - A "White Reindeer" Shoppe will be operated at WACOM's Christmas Bazaar by Mrs. Robert Moore, Larry Campbell, W. J. Moran, and R. E. McCall, representing military wives of China Lake commands. Mrs. W. Davis (r), whose brother is missing-in-action, will assist also. The Bazaar will be held November 10 at the COM, and proceeds from the "White Reindeer" Shoppe will be given to the POW Wives' Organization. Persons wishing to assist by donating "white elephants" to the shoppe may contact Mrs. Bert Creighton, Mrs. Robert Moore or Mrs. Roy Cobb. -Photo by PH3 R. G. Mills

PROMOTIONAL OPPORTUNITIES

Employees are encouraged to apply for the positions listed below. Current applications (SF-171) or Standard Form 58 bringing your work history up-to-date should be forwarded as described below. The fact that positions are advertised here does not preclude the use of other means to fill these positions. Part of the ranking process of those rated as basically qualified will be a supervisory appraisal form that will be sent to the employees present and most recent previous supervisor. Selection shall be made without discrimination for any non-merit reason and without favoritism based on personal relationships or patronage.

Secretary (Typing Or Secretary (DMT), GS-4 or 5, Code 023—This position is secretary to Head, Public Affairs Office. Maintains files on correspondence and related materials essential to office operation. Receives incoming calls and visitors. Makes all necessary travel arrangements for supervisor. Receives incoming mail and screens. Other secretarial duties. Minimum Qualification Requirements: 2 1/2 years of general experience and 6 months specialized experience. Advancement Potential: GS-6

Supervisory Physicist, General Engineer or Electronic Engineer, GS-14 or 15, Code 3507—Incumbent is the program manager for the Standard Arm Project. Duty station will be initially in Corona. Function is scheduled to be transferred to China Lake around May or June 1971. Minimum Qualification Requirements: 3 years of professional experience in appropriate subject-matter fields. 1 year of the required experience must have been at a level of difficulty comparable to that of the next lower grade in the Federal Service. File application for the above with Sue Praslowicz, Bldg No. 34, Rm 204 ext 2577.

Supply Clerk (Typing), GS-2005-3 or 4 Code 255—Maintains stock records, receives and processes requests for ordnance material, orders material and reconciles records of daily movement of ammunition with physical inventories. Types messages, reports, letters, etc. Minimum Qualification Requirements: One year of general clerical or office work for the GS-3; one year of general plus one year of specialized work in supply or a related field for the GS-4. Job Relevant Criteria: Typing ability is required. Advancement Potential: GS-5.

Freight Rate Assistant, GS-2131-4 or Clerk (Typing), GS-301-3 Code 2598—Accomplishes Government Bills of Lading and maintains files on same; provides technical assistance and guidance in implementing regulations and procedures for proper documentation covering losses, damages or overages in shipments; performs some routine clerical work for the Branch. Minimum Qualification Requirements: One year of general clerical or office work for the GS-3; one year of general plus one year in general traffic or transportation work which required application of practical knowledge in the use, operation, cost or regulation of transportation. Job Relevant Criteria: Must have knowledge of receipt, delivery, claims and shipping functions. Advancement Potential: GS-5.

Clerk (Typing), GS-301-4 or 5, 251—Duties consist of typing; ADP, budget and general filing; preparation of travel orders and time cards; preparation of periodic reports generated in the Division, including budget-extract reports. Minimum Qualification

(Continued on Page 8)



GEM AND MINERAL SHOW PLANNED—Dick Fulmer (r), of the Board of Directors, Indian Wells Valley Gem and Mineral Society, discusses with Max Brown of Public Works Dept. the aspects of a typical gemstone that will be displayed at the forthcoming Gem and Mineral Show to be held at the Community Center November 14 and 15. -Photo by PH2 Delmar E. Hart

All Hands Memo

Numerous group-organization sponsored events held here at the Weapons Center for the benefit of the entire community require special security arrangements to be made to provide basic gate security for large groups of personnel without passes who are invited to participate in, enjoy or have purchased tickets to, special events. Special events gate security in the past has provided minimum gate security. Under the new security directives, more stringent controls must be exercised. Henceforth special events provisions will be limited to official Center sponsored events such as change of command, Armed Forces Day, Navy Day etc.

All persons without passes attending group-organization events will have to be sponsored. Special sponsoring arrangements will be made to provide for the orderly processing of authorized group functions. Groups-associations planning to hold special events at the Naval Weapons Center involving or inviting by any means, personnel without NWC passes, must submit a letter request to the Security Department, Code 84, for authorization and special security provisions no later than two weeks prior to the special event. Detailed implementing procedures will be outlined in forthcoming changes to the basic instructions.

This is another security measure taken to provide better security for this Center, its mission and our community.

R. M. ST. GERMAIN
LCdr., USN
NWC Security Officer

AOD Disestablished In Dept. Reorganization

(Continued from Page 5)

one Acting Deputy Technical Director, and one Education Director. Furthermore, Dr. Ward enjoyed the longest tenure in office of any other department head on the Center.

Outstanding Record

The technical program through the years was distinguished by its continuous creativity and productivity in guided missiles, airborne navigation and bomb delivery systems, weaponry for specialized conventional warfare, infrared radiation theory and its application to the military, laser technology and its military application, and target discrimination, identification, and detection.

It is estimated that 75 per cent of the airborne weapons and 40 per cent of the free world's conventional weapons used by the allies in the Vietnam theatre have come from the Center. Both the Sidewinder and Walleye missiles, originating in the Aviation Ordnance Department, are of course recognized as major weapons used in that conflict. In extensive use also are a great variety of ingenious and innovative devices, gear, and systems that likewise have originated and developed from the scientific manpower pools and teamwork of the former Aviation Ordnance Department. From all this, one would draw the conclusion that from this one department at NWC has come a large portion of the significant weapons used by the allies in the Vietnam conflict.

Over a period of 20 years such

outstanding weapons and system components for the defense of the free world as the Aircraft Fire Control Systems MK16 and EX 16, the Sidewinder missile, the Walleye missile, the CP 741-A Weapons Release Computer, the "heart" of the Antisubmarine Rocket (ASROC), the AN-FPS-102 System Pilot Training Ranges, and rocket and missile launchers - all owed their origins and development to the scientific acumen, the technical skills, and the teamwork that were concentrated and mobilized in the former Aviation Ordnance Department.

A nucleus of five men was the basis of the organization even before this great Center rose out of the desert. These 6 men, Dr. William McLean, Dr. Albert G. Hoyem, Dr. Henry Swift, Joseph Hibbs, Dr. L. Ward, and Robert Allen, were wrestling in those early days with the problems of bombardiers before they came to China Lake. Bomb directors and rocket fire control systems became the concern of the department and the outgrowth of their early efforts was of course the CP741-A Weapons Release Computer and the AFCS Mk 16 and EX 16.

Throughout 1950 and immediately thereafter, Dr. "Bill" McLean and a handful of fanatically dedicated assistants virtually hand-built the first Sidewinder. The midnight oil burned constantly, and legend has it that Dr. McLean was perhaps more thoroughly engrossed in those days with the "fitting together" of Sidewinder components after midnight than he was with the problems of management by day. It was during this period that Dr. Ward, as Associate Head of the department, acquired a lot of his disciplinary and basic training in department management.

Ecclesiastes, the Preacher, wrote:

"To everything there is a season, And a time to every purpose under the Heaven: A time to be born and a time to die; A time to plant, and a time to pluck up that which is planted -"

So, the time finally came for the old Aviation Ordnance Department to be plucked up, but not to die, since its work lives on and contributes to the technological harvests of new generations. The scientific and technical groundwork laid over the past 20 years by the Department, the insights, the breakthroughs in the state of the art, the solid accomplishments in terms of hardware and systems in being, indeed are by no means "phasing out". They constitute an illustrious record and a firm base for the work that must continue to be accomplished at the Center to meet the harsh new challenges to the freedom of man in various parts of the world.

The Navy Relief office will be closed November 12 and 13. In case of an emergency the Chaplain's office can be contacted at Ext. 3506. The Red Cross office will also be closed November 13.



HAIL AND FAREWELL - Capt. J. K. McConeghy, Jr., (center, foreground) and Mrs. McConeghy, (left), sit with Capt. A. E. May (center, rear) and Mrs. Jean May, (right) at the Hail and Farewell party given Monday, November 2 at the Commissioned Officer's Mess. Capt. May relieved Capt. McConeghy as Deputy Com-

mander, effective November 3. The new Deputy Commander comes to NWC from Norfolk, Virginia where he was Commander, Oceanographic Systems, Atlantic. Capt. McConeghy will report to Pearl Harbor, Hawaii, where he will be Commander, Destroyer Division 112. -Photo by PH2 D. E. Hart

Receive 'Public Service' Awards . . .

(Continued from Page 1)

He labored tirelessly recruiting tutors and doing the liaison work with teachers, school administrators, school board, tutors, and for the next three and a half years, performed the same function at Casa Blanca School. He directed approximately 30 tutors at Ramona, and an average of ten per session at Casa Blanca, with over thirty separate tutors serving during the year. It is estimated that in excess of 500 man-hours

were contributed to the improvement of the youngsters at the two schools by Mr. Joseph. Witnessing the awards were management and supervisory personnel from the laboratory. They included Leroy Riggs, Head of Electronics Systems Department; Fred Alpers and William West, Consultants; Richard Talbot, Head of Countermeasures Division; and William Meggers, Head of Electronic Development Division.

approved by the Naval Facilities Engineering Command. The utility rates are evaluated by the Public Works Department and set by the Facilities Engineering Command. Persons who are now on a scheduled rent payroll deduction do not need to reapply.

New Shelter Rents And Utility Rates Listed

The Commander, Naval Weapons Center, has announced new shelter rents and utility rates for Center housing, effective December 1, 1970. These increases, listed below, represent the first increase in total charges since April, 1967.

Rates are divided into two

classes: those for shelter; and those for utilities. Rates for shelter are based on an appraisal of rates charged in a comparable, civilian community. Utility costs are based on rates charged by a comparable local utility, and can be no lower than the actual cost to the government.

It is a requirement of Bureau of the Budget and DOD regulations that shelter rates be re-evaluated every three years and utility rates whenever significant rate changes occur in the locality used for comparison. Shelter rates are set by a commercial fee appraiser and then

approved by the Naval Facilities Engineering Command. The utility rates are evaluated by the Public Works Department and set by the Facilities Engineering Command. Persons who are now on a scheduled rent payroll deduction do not need to reapply.

Table with columns: TYPE, SHELTER RENT, UTILITIES, TOTAL, and another set of TYPE, SHELTER RENT, UTILITIES, TOTAL. Includes various housing units like SOO (4), SSQ Sage (3), Sierra (4), etc.

The following additional monthly charge will be made for units provided with Government-owned furniture: 0 Bedroom - \$3; 1 bedroom - \$4.50; 2 bedroom - \$6; 3 bedroom - \$7.50; 4 bedroom - \$9.

The following additional monthly charge will be made for back porch enclosures. The charges will not apply to back porch enclosures on units assigned prior to 1 April 1958 or to those constructed by present occupants: Up to 80 sq. ft. - \$2.10; 80 to 120 sq. ft. - \$4.20; 120 to 160 sq. ft. - \$6.30; over 160 sq. ft. - \$8.40.



CATHOLIC YOUTH AID LEUKEMIA FUND - The Catholic Youth Organization, represented here by (l-r) Vanessa Zurn, Mary Vernon-Cole, and Maria Garrett, will operate a photo booth at WACOM's Christmas Bazaar, November 10 at the COM. They will be taking color photos of children

and family groups at reasonable prices for Christmas giving as photographs or as Christmas greeting cards. Photography will be professionally done by the CYO Advisor. Proceeds will go to ALSAC (Aiding Leukemia for Stricken American Children). -Photo by PH3 Tony Curiale

The Rocketeer

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U. S. Naval Weapons Center
China Lake, California
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DEADLINES:
News Stories - Tuesday, 4:30 p.m.
Photographs - Tuesday, 11:30 a.m.

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DIVINE SERVICES

Protestant (All-Faith Chapel)—
Morning Worship—10:00 a.m.
Sunday School—8:30 a.m., Chapel Annexes 1, 2, 4 (Dorms 5, 6, 8) located opposite Center Restaurant.
Thursday—Service at 5:00 p.m. (Organ Prelude at 4:45 p.m.)

Roman Catholic (All-Faith Chapel)—
Holy Mass—7, 8:30 and 11:15 a.m. Sunday.

Daily Mass—11:30 a.m. in Blessed Sacrament Chapel. Saturday, 8:30 a.m.

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

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

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

Unitarian Fellowship—(Chapel Annex 95, 95 King Ave.)—Sundays, 7:30 p.m.

Wilma Johnson Hits 660 For WIBC Season High

Wilma Johnson, bowling in the Monday night Women's Scratch League, put together games of 223-263 and 174 for a 660 series, the highest rolled this season in the WIBC locally.

Wilma's 263, which came in the middle of the high series, is also the high single game for the ladies this year.

Unfortunately, other scores for the Women's Scratch league were not available by deadline time Tuesday.

All secretaries of bowling leagues on the Center are notified that the ROCKETEER now has a Tuesday, 11:30 a.m. deadline for all bowling news. Anything received in the ROCKETEER office after that hour will be held for the following edition of the ROCKETEER a week from the

coming Friday).

Desert League

Larry Peabody rolled a 625 series which included games of 207, 215, and 203, while Randy Morris hit the triple-200 spotlight on the strength of a 203-203-214 for a 620 series.

Other fine games: Dave Glover, 224; Bob Vorwerk, 222 and Hal Moore, 222.

Friday Mixed 4-5ome

There were many fine games bowled in this league last Friday. Among them: Jack Brown, 247; Chuck Cutsinger, and Ralph Brewer, 246; Ray Smith, 214-234; Allen Smith, 230-210; Dean Ray, 210-234; Ed Plante, 223-200. Dean Ray led the 3-game scoring with a 619, followed by Cutsinger's 612.

Among the ladies, Maggie Branson led with 575 and Wanda Billings had a 569. L. Johnson hit 557, Wilma Johnson, 546, and Alice Cutsinger, 520. Other fine ladies scores: Wanda Billings, 225; Myrl Plante, 212 (516); Jean Crom, 208 (516) and Maggie Branson, 202.

Junior-Senior

David Branson rolled 187 and 506 to lead the scoring, followed by Charles Sartorius with 189 and 492. Don Heeke had a 500 and 218, David Dillier, 193 and 495, and Dale Diede, 170.

Kathy Burkhalter had a 154 game and a 411 series while Barbara Faye fired a 140 and Betty Clark had 174 and 449, to lead the league.

Ding-a-Lings

Lou Richno was high for the night, shooting 191 and 544 while the Nine-Ers had a 771 game and a 2207 series to take team events.

Midway

Ralph Brewer shot 233, 170 and 203 for a 606 series to lead individual scoring while the Live Five team dominated team scoring. The Live Five shot games of 1070, 974 and 1067 (all with

handicap) for a 3111 series.

Wed. Nite Hdcp.

Some good scores rolled October 28 included: Mary Jane Clark, 540; MarLyn Heeke, 510; Pat Maddux, 567; Wilma Johnson, 541; Connie Evans, 200; Pat Maddux, 234; Wilma Johnson, 207. Marlys Bowles converted the 3-7-10.

Prep League

In the Tiny Preps, many bowlers rolled above 100, including: Kurt Rockwell, 147; Elaine Senn, 117; Marvin Titus, 115; Amy Petach, 114; Lori Bowles, 103; Kristin Latimer, 107; Paul Colbert, 113-104; Richard Hoffer, 102.

Premier League

The Premier League has a new leader. B&F Liquor, tied for the lead with Allied Vending, lost two games to an aroused Dean's Pro Shop to sink to second place, tied with Ace-TV. Allied won two from NAF to move into first place by themselves.

Scoring was high with 7 men above the 600-mark, led by Joe Kokosenski, the cigar-smoking affable secretary of the League, who rolled games of 237 and 234 and a 641 series. Allen Smith had a 621 series which included a 222 game and Jack Herbstreit rolled a 236 enroute to a 618. Ev Yelland and Thad Brightwell each rolled a 234 and series scores of 604 and 600 respectively. Ralph Brewer had a 604 series and Bill King a 613. Chuck Cutsinger hit a 228, AC Winslow 224, Jim Kincheol 222 and Ed Donohue 222 to round out the high scores for the night.

PREMIER LEAGUE STANDINGS

Team	W	L
Allied Vending	16	8
B&F Liquor	15	9
Ace-TV	15	9
NAF	14	10
R.C. Lanes	12	12
Boyd's Auto	13	11
Mercury Movers	10	14
Arden's Dairy	10	14
Tom's Place	8	17
Dean's Pro Shop	7	16



TENNIS WINNERS - Standing with the trophies they won are the winners of the recent China Lake Tennis Club fall tournament. Front row (left to right): Janie Cleaves, winner of women's singles, and Pat Snopkowski and B. J. Peck, who teamed to take the women's doubles crown. Back row: Dick Boyd, winner in men's singles and doubles; Roger Peck, men's singles runnerup; and Nick Schneider, Boyd's partner in men's doubles.

CL Golf Club Introduces New Greens Super

The China Lake Golf Club held its October meeting recently to introduce the new club greens superintendent and make nominations for the 1971 elections next month.

Art Warren, a greenskeeper with 25 years experience, was introduced by club president Curt Bryan.

Warren began his career in Canada and has been the greens superintendent at Antelope Valley Country Club since 1962.

"The Antelope Valley Country Club has been recognized as one of the top five courses west of Denver for the last eight years. I'm pretty proud of that. And I think the course here at China Lake can be comparable," Warren said.

Nominated for the club elections were: Max Smith and Bob Young, director; Curt Overstreet, secretary; Ed Nelson, treasurer; Gary Wydra, vice president; Larry Gire, president.

Other nominations may be made before elections at the November meeting. The meeting has been set for Tuesday, November 24, at 7:30 p.m. in the Club House.

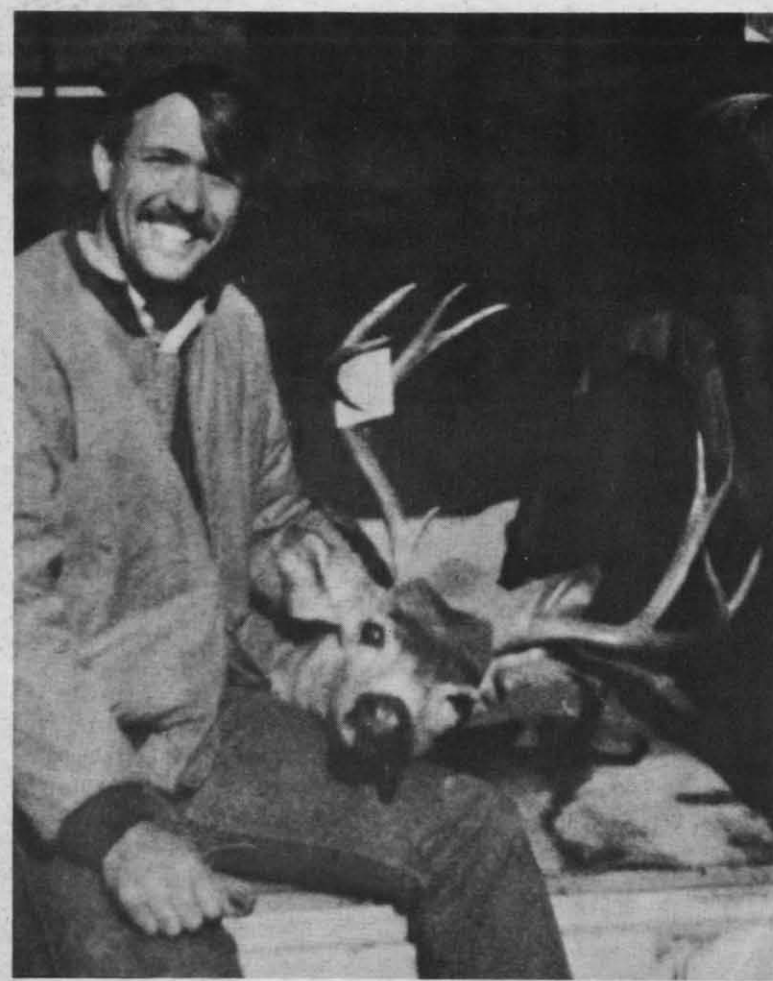
Roundballers Must Sign Up By November 20

The 1970-71 Intramural Basketball season will begin December 1, according to Ray Gier, recreation director, and team entries are now being accepted by Special Services.

Team rosters are not to exceed 10 persons, and entries are open to both military and civilian employees of the Naval Weapons Center, Gier stated. Deadline for entries is 4:30 p.m., November 20, and no late entries will be accepted.

There will be a meeting of team captains in the Center Gymnasium November 24 at 4:30 p.m., November 20, and no late entries will be accepted.

There will be a meeting of team captains in the Center Gymnasium November 24 at 4:30 p.m. to discuss the coming season. In addition, Gier stated that team practices may be scheduled by calling the Intramural Sports Director at NWC Ext. 2334.



FIRST BUCK, FIRST TIME -- Jerry Pixler smiles as he holds onto the first buck he has ever downed. And that's not surprising, as this is the first time the NWC sailor has ever been deer hunting. The buck weighed 172 lb. (undressed) and measured 21" across its 8 point span. Pixler got the prize in Troy Meadows at a distance of 75 yards with a .30 caliber military-type carbine. The elevation of Troy Meadows is 8,600 feet.



Lead Parade VX-5 Dominates Football Stats

Defense. That is the reason the VX-5 Vampires are leading the China Lake Football League as the season enters its seventh week.

The Vampires lead in rushing defense, passing defense, total defense and defense against scoring. In only one game has VX-5 given up more than one touchdown, and twice the Vampires have shut out opponents.

Complete statistics for the first six weeks of the season are as follows:

Team	W	L	T	Pts For	Opp Pts
VX-5	5	1	0	95	33
Ace TV	4	2	0	87	63
Wolves	1	4	1	53	89
NAF	1	4	1	28	78

Team	Att.	Yds.	TD	Av.
Cozucoli, Ace	49	184	3	3.8
Toste, NAF	34	137	2	4.0
Fernow, VX-5	24	122	1	5.1
Harris, Ace	26	103	2	4.0
Smith, VX-5	28	93	0	3.3

Team	No.	Yds.	TD	Av.
Harris, Ace	15	234	2	15.6
Rathiff, NAF	13	162	1	12.5
Walden, NWC	0	13	0	6.5
Herr, VX-5	9	184	3	20.4
Smith, VX-5	9	135	1	15.0

Changes Listed For Dept. Reorganization

(Continued from Page 1)

evaluation flight test programs; operate the Analog-Hybrid Simulation Laboratory; perform analyses and evaluations of airborne R&D weapons systems; provide test ranges for development of air-launched weapon delivery techniques (and train pilots in these techniques); and provide technical support for special devices and operations.

The new department has been organized into six functional divisions under the direction of Leroy Riggs, Assistant Technical Director for Development (Weapons Systems), who is the Department Head, and W. B. Porter, Associate Department Head for Programs. The functions of the six divisions are as follows:

Administrative and Technical Services Division (Code 351) - under W. E. Davis, this division provides staff services in administrative matters, contracts and procurement, reports and visual arts, and facilities support. Additionally, it operates the Calibration Laboratory at the Corona Annex.

RF Development Division (Code 352) - under D. J. Russell conducts applied research, development and R&D evaluation of airborne, passive and active radio frequency surveillance and homing system.

Airborne Projects Division (Code 353) - under R. M. McClung performs feasibility studies and designs, develops, and tests instrumentation systems for guided missiles, aircraft, ranges, and laboratory use; designs and develops systems for weather modification; provides model making, electronic assembly, and related facilities; provides experimental installation services on aircraft; develops chemiluminescent devices for air-sea rescue, marking, identification, and target marking devices; and conducts development and evaluation flight test programs.

Missile Design Division (Code 354) - under A. C. Sevy, conducts broad theoretical studies of guided missile weapon systems; establishes weapon system design parameters and determines missile airframe and propulsion system requirements; designs, develops and evaluates flight control systems for guided missiles; performs system integration, assembly, check-out, flight test and evaluation; and develops and maintains the Analog-Hybrid Simulation Laboratory for the Center.

Weapon Systems Evaluation Division (Code 355) - under J. R. Schreiber, provides an outdoor laboratory that is highly instrumented with electronic and photographic systems that is capable of providing data for the precise analysis and evaluation of air ordnance R&D weapons systems, provides test ranges (Baker, Charlie and Coso) for the development of airborne weapon delivery techniques and the training of Navy pilots in these tactics; and provides technical services and development support for special devices and operations.

Electronic Development Division (Code 356) - under W. F. Meggers Jr., investigates new concepts in the sensing, and

development of directional or other information from natural and man-made electro-magnetic radiations emanating from natural and man-made objects; develops necessary technology to demonstrate feasibility of these new concepts for various purposes; e.g., guidance for missiles, target recognition, and surveillance; carries technology through the fabrication and testing of prototype systems to accomplish specific tasks; and provides technical support to department programs.

Weapons Development Dept. The Weapons Development Department, Code 40, under F. H. Knemeyer, is organized into eight functional Divisions, four Program Offices at the Department level, and a Department staff.

The Divisions and their functions are, as follows: Technical Services Division, (Code 401) - under G. F. Cleary provides support to the rest of the Department in Documentation, Procurement, Editorial and Illustrating Services, Reliability and Human Factors;

Air-to-Surface Weapons Division, (Code 403) - under C. M. Dye performs Exploratory, Advanced and Engineering Development of unguided, free-fall weapons systems. Recently completed or about-to-be-completed systems include Briteye, Fireye and Rockeye II. Deneye, Advanced General Purpose Bomb and Advanced Incendiary Weapon are newer efforts currently being prosecuted in this Division.

Guidance and Control Systems Division (Code 404) - under R. V. Boyd performs Exploratory, Advanced and Engineering Development on Airborne Fire Control, Navigation and Missile Guidance and Control Systems. These efforts may be on systems or sub-systems under Division cognizance (the Angular Rate Bombing System - ARBS - the Advanced Tactical Inertial Guidance System - ATIGS - and Modern Control Theory Investigations are current examples) or in support of other Center programs either within Code 40 (the Night Observation Gunship) or outside (AGILE and a Ship's Reference System in Code 30 and HARPOON and A-7E Avionics in Code 35.)

Infrared Systems Division (Code 405) under C. P. Smith performs Exploratory, Advanced and Engineering Development of Guided Missiles and Airborne detection, identification and tracking systems utilizing infrared and laser technologies. Current "in-house" programs include the Night Attack System, the Target Designating System - TDS - and Advanced Point Defense. Supporting effort is also provided to such programs as Chaparral and Bulldog (Code 40), Sidewinder (Code 55), and Agile (Code 30).

The Aeromechanics Division (Code 406) - under R. W. Van Aken performs Exploratory Development studies and provides supporting effort to all Center Development Departments in Aerodynamics, Aerodynamic Heating, Structural Dynamics and Design, and Aircraft Com-



RETIREMENT INSPECTION -- RAdm. W. J. Moran, NWC Commander, inspects the Division of CWO-2 P. Moore (directly behind RAdm. Moran) during Personnel inspection held for the retirement of LCDr. W. W. Poole, Assistant Technical Officer Friday, October 30. LCDr. Poole (left of RAdm. Moran) retired, effective November 1, with 30 years in the U.S. Navy. The USMC Band from Barstow is seen in the background. --Photo by PH2 D. E. Hart

Veteran's Day Operating Hours

China Lake facilities open for business on the Veterans' Day Holiday, Wednesday, November 11, will observe the following hours. All other facilities will be closed.

FACILITY	VETERANS' DAY HOURS
Employee Services Board:	
Malt Shop	9 a.m. to 10 p.m.
FEDCO Service Station	7 a.m. to 7 p.m.
FEDCO Parts House	9 a.m. to 6 p.m.
Pharmacy	9:30 a.m. to 6 p.m.
Beauty Shop	9 a.m. to 5:30 p.m.
Dry Cleaners	9 a.m. to 6 p.m.
Shopping Bag	10 a.m. to 7 p.m.
Special Services:	
Auto Hobby Shop	12 p.m. to 5 p.m.
Theater	Regular hours
Gym-Pool	1 p.m. to 5 p.m.
Bowling Alley	11 a.m. to 11 p.m.
Golf Course	Regular Hours
Youth Center	2:30 p.m. to 5 p.m. 7 p.m. to 9 p.m.
Navy Exchange:	
Snack Bar (Bowling Alley)	10:30 a.m. to 11 p.m.
Enlisted Men's Club	11 a.m. to 12 a.m.

Residents of Ridgecrest and China Lake who would like to host military men from the Center to Thanksgiving dinner, are asked to contact Special Services, NWC Ext. 3791, to inform Special Services of the fact. In addition, any military person interested in attending dinner in a private home for Thanksgiving, should also contact Special Services.

Program Office Code 4007 - is directed by J. W. Lamb. The Advanced Aircraft Systems Program Office (Code 4008), with F. H. Knemeyer acting as Head, is a relatively newly established group still in the formative stage. This group is being organized as part of an attempt to bring total-system management concepts to the definition of Advanced Aircraft Systems programs.

The Department Staff, Code 4002, under B. F. Connolly, provides administrative and management services to the Department Head and the rest of the Department. The Bulldog Program Office (Code 4004) - is headed by D. R. Totten; the Night Observation Gunship Program Office, (Code 4006) - is under the direction of P. G. Arnold; and the Chaparral

WACOM Sponsors 'White Reindeer' Sale For POW's

Military wives of the Naval Weapons Center, the Naval Air Facility and Air Test and Evaluation Squadron FIVE (VX-5) at China Lake will sponsor a "White Reindeer" shoppe in Santa's Village at WACOM's Christmas Bazaar to be held on November 10, at the Commissioned Officers' Mess.

Proceeds from the sale of "white elephants" - or "white reindeer", to put it in the Christmas vein - will be given to the Prisoner of War Wives Organization to assist their efforts to achieve official identification of American prisoners held by North Viet Nam.

Governor Ronald Reagan has declared November 11 as POW Wives' Day in conjunction with Veterans' Day in California with attention being drawn to the plight of POW or MIA wives and their (Continued on Page 8)

Memories Stirred At Requiem For Aviation Ordnance Department

Dr. Ward Feted At Comm. Center AOD Farewell

Members of the former Aviation Ordnance Department gathered at the Community Center Friday afternoon, October 30, to bid a symbolic farewell to Dr. Newton E. Ward, who for 16 years was the genial and productive Head of that Department. The event likewise symbolized in good spirit the "phasing out" of the department at the Center, to be supplanted (but not replaced) in part by two new departments (See Story, page 1).

That this farewell to Dr. "Newt" was merely symbolic, and not in the nature of a wake, is attested to by the fact that Dr. Ward will continue to be the Deputy Technical Director of NWC until after his scheduled replacement occurs.

The happy spirit and goodwill of the occasion at the Community Center characterized as usual the remarkable esprit de corps of the organization throughout its existence. Dr. Ward, in speaking to all his former charges, said he would absolutely avoid saying anything sad, because there was



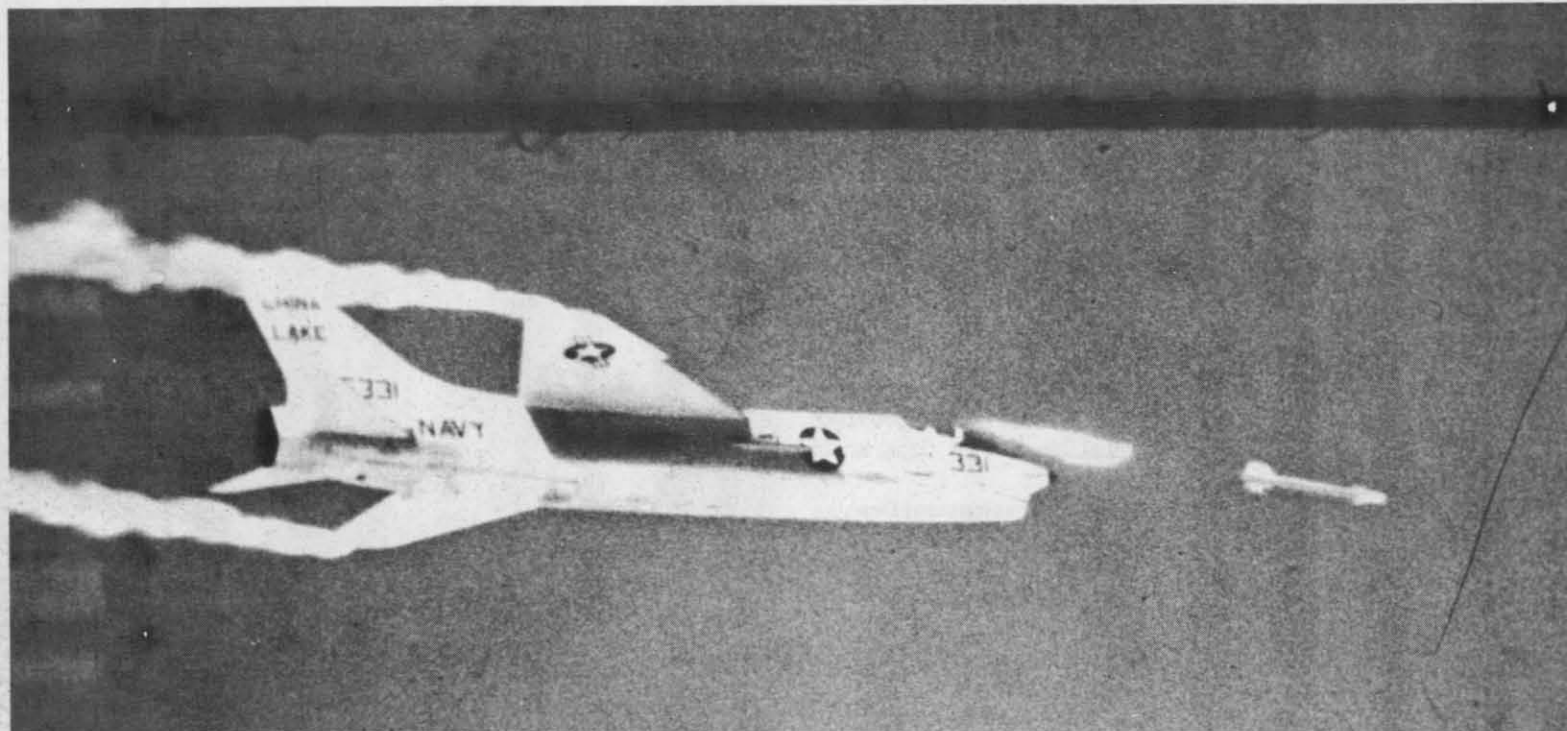
Dr. N. E. Ward

nothing sad about the occasion in view of the continued challenge and promise of the NWC technical program. His change of status after some 16 years of solid-packed administration merely represented a normal transition in the scheme of things, he maintained.

That the department possessed "a little something extra" by way of individual cooperativeness and warmth of spirit, has already been recognized by others in high places on the Center. It is also known that this esprit de corps is a reflection of the personality of Dr. Ward himself.

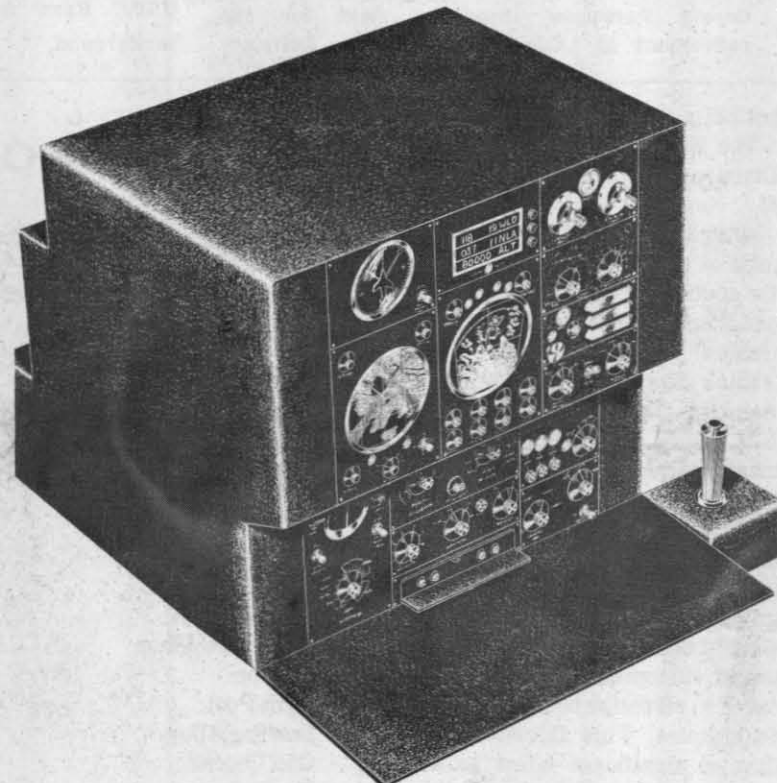
In the parlance of the times, "he got to his people somehow," and this ignition was contagious. This group feeling manifested itself in the teamwork and the productivity of the people in the programs over which he presided. He knew all of his people, all about their children, and astonishingly enough, quite a bit about their grandchildren - over the course of the years.

In addition to his consuming interest in people, he turns out a good quip at a moment's notice. For instance, he recently noted that "the old Aviation Ordnance Department is the only one that had only two heads during its natural lifetime, making it less of a "hydra" than other departments,"



EARLY PROGRAM - Under the leadership of Dr. Wm. B. McLean, who was the first head of the Aviation Ordnance Department when it was established in March of 1950, Sidewinder was conceived and

developed. Released to the fleet in 1956, the weapon became the most widely used air-to-air guided missile in the free world.



AIRCRAFT ARMAMENT CONTROL - The AN-ASB-8 Bomb Director Console (above) is an example of the responsiveness of AOD to the problem of providing new supersonic all-weather aircraft with accurate, lightweight armament control equipment during the years since the Department's inception. Other AOD systems included the CP-741-A and CP-841-A, and the MK16 and EX-16 Aircraft Fire Control Systems.



WALLEYE FIRING - AOD received complete responsibility for the development of the Walleye weapon in 1963. The weapon, a television-guided system designed to home on visually acquired targets, was released to the fleet in 1967. The system was a direct result of feasibility studies that were begun by AOD in 1959.



SWAB - The Shallow Water Attack Boat (SWAB) was developed by the department in 1964. An experimental device, the craft is designed to be deployed in areas requiring coastal interdiction.



ASROC ASSISTANCE - The Range and Separation Programmer (RASP), the heart of the ASROC Missile, was originated and developed in the Aviation Ordnance Department.

Awards Ceremony Main Attraction At AOD Disestablishment Event

A department may be phased out here on the Center, but its technical contribution to society can never be erased, nor can the memories of the department in the minds of those who worked for it. Certain long-term members of the department have a rich store of years at their disposal for the mining of memory.

For instance, at a recent ceremony, 21 individuals received awards, presented by the new Commander of the Center, RADM. W. J. Moran, commemorating their 20 and 30-year tenure in Federal Service.

To illustrate the "people orientatedness" of the department, 265 employees had over 5 years of service with the department in 1969; of these, 182 had 10 years of service. Fourteen department members had 20 years of service with NWC, and 96 members had 30 years of Federal service. Two employees, William Munns and Phillip Matthews, with the department had 40 years of Federal service, and their bodies are still warm.

Many of these old timers recall the earliest history of the Aviation Ordnance Department. The department traced its origin to the Research and Development Department, Ordnance Division, in 1945.

In its ensuing 5-year period of gestation, this embryonic AOD experienced a metamorphosis in identity and configuration that might have heached a little ship of less hardihood and tenacity for remaining afloat in the storms of a rough passage.

Finally, in March of 1950, the Aviation Ordnance Division of the Experimental Operations Department, became the Aviation Ordnance Department. It consisted of the Evaluation Division and the Development Division, with Dr. William B. McLean as its Head and Dr. Newton E. Ward its Associate Head.

In 1954, Dr. McLean was appointed Center Technical Director, and Dr. Ward was named Head of the Aviation Ordnance Department.

Top Awards Made
The department roster is studded with the names of those

who have distinguished themselves through the years in the performance of extraordinary services to the department, to the Center, and to the nation.

Dr. William B. McLean received the Presidential Award for Distinguished Civilian Service for his services to the nation in originating and developing the Sidewinder missile;

Maurice Hamm received the Navy Superior Civilian Service Award for his extended services in behalf of a classified NWC project in Vietnam;

Duane W. Mack and Steven M. Little both received the Navy Meritorious Civilian Service Award, Mack for his outstanding performance in overseeing flight training programs for squadrons of the Fleet, and Little for his extraordinary services in behalf of a classified NWC project in the Vietnam area;

For his outstanding performance in the field of management, William E. Davis received one of the very few Fellow in Management Awards presented by the Center;

Both William H. Woodworth and Robert H. Forster were presented the NWC Fellow in Ordnance Science Award, Woodworth being cited for his unusual productivity in the NWC technical program, and Forster for his ingenuity in originating and developing specialized weaponry.

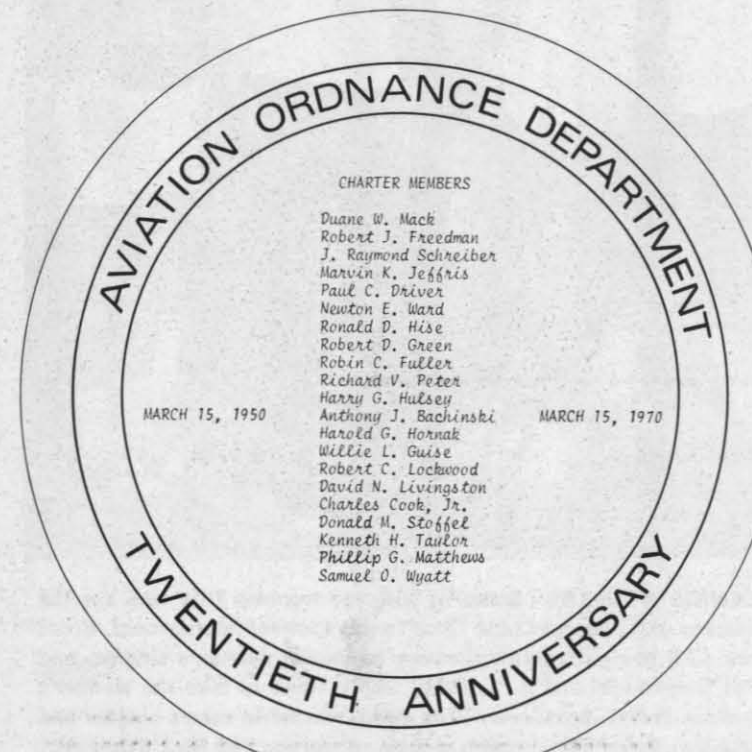
Mr. Woodworth was also the recipient of the second William B. McLean Award for his distinguished record in the field of inventions. The first of these awards was presented to Dr. McLean himself;

Receiving the L. T. E. Thompson Award for outstanding contributions to the NWC technical program made in their various individual disciplines, were Dr. William B. McLean, Larry W. Nichols, Dr. Newton E. Ward, Duane W. Mack, Jack A. Crawford, and David N. Livingston.

Provided Top Staffers

The department can make even further claims to the fact that, during its lifetime it gave the Center two Technical Directors,

(Continued on Page 7)



CHARTER MEMBERS

- Duane W. Mack
- Robert J. Freedman
- J. Raymond Schneiber
- Harwin K. Jeffries
- Paul C. Deiver
- Newton E. Ward
- Ronald D. Hise
- Robert P. Guise
- Robin C. Fuller
- Richard V. Peter
- Harvey G. Hulse
- Anthony J. Bachinski
- Harold G. Hornak
- Willie L. Guise
- Robert C. Livingston
- David N. Livingston
- Charles Cook, Jr.
- Donald H. Stoffel
- Kenneth H. Taylor
- Phillip G. Matthews
- Samuel O. Wyatt

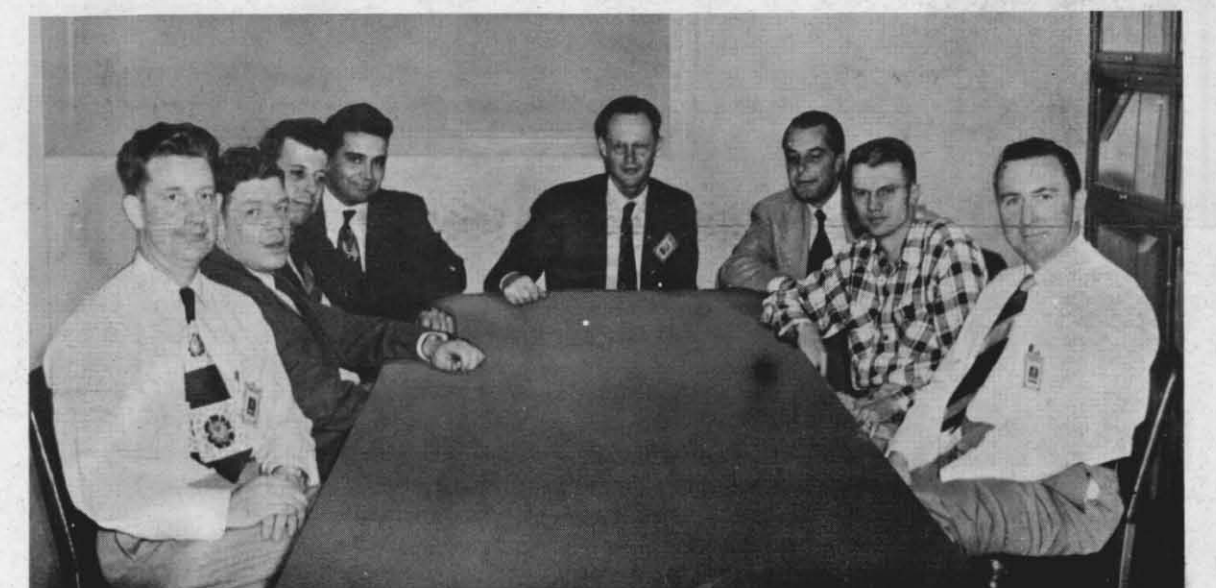
MARCH 15, 1950

MARCH 15, 1970



LAST MEETING-On September 21, 1970, Dr. N. E. Ward, then head of AOD, gathered his division heads together for the last time. Because of the Center's recent technical department reorganization (See story, page 1), elements of AOD were consolidated into the new Electronic

Systems Department and the existing Weapons Development Department. Seated (l-r) are: E. F. Park, J. R. Schreiber, R. M. McClung, W. E. Davis, and Dr. N. E. Ward. Standing are: W. C. Ward, D. J. Simmons, L. W. Nichols and J. Crawford.



EARLY MEETING - When AOD was formed back in March, 1950, it was headed by Dr. Wm. B. McLean, (c), who was to become the Center's Technical Director. The Department was also

organized into divisions run by the following (l-r) Dr. N. E. Ward, Associate Department Head, Dr. I. H. Swift, J. R. Schreiber, R. F. Keuper, S. R. Crockett, R. M. McClung, and J. H. Gregory.



CHARTER MEMBERS - At a recent awards ceremony that marked the demise of the Aviation Ordnance Department, Dr. N. E. Ward, former Department Head, presented a plaque inscribed with the artwork at the left to the following persons: (front row, l-r) Sam Wyatt, R. Fuller, Dr. Ward, Billie Hise proxying for R. Hise), D. Stoffel,

and R. Lockwood; (second row) P. Driver, R. Freedman, P. Matthews, W. Guise, M. Jeffries, H. Hulse, and C. Cook, Jr.; (Back row) Duane Mack, A. J. Bachinski, D. Livingston, R. Schreiber, K. Taylor, R. Green, and H. Hornak. The plaques were presented Oct. 30. -Photo by PH3 Tony Curiale