This Was NOTS in '58

Looking through the fifty issues of the Rocketeer published in 1958, one may find a quite thorough and accurate account of Station activities, showing NOTS' growth during the year. The issues listed reported major accomplishments of 1958, as noted.

January 10 — Ground-breaking ceremonies for the new $3,500,000 NAF hangar, to be completed by September, 1959. Lynda Elder selected as the 1958 foreign exchange student; she visited Sweden during her summer vacation.

January 17 — Commemoration of the 75th anniversary of the signing of the Civil Service Act by President Chester A. Arthur in 1883, and the first birthday of China Lake Civil Air Patrol Cadet Squadron 84, celebrated with a military ball.

January 24—An account of the anticipated award for "Exceptionally meritorious civil service" to be presented to Dr. Wm. B. McLean, Technical Director, by President Eisenhower on January 27. Final tally of proceeds from the 1957 United Fund drive showed $22,547.34 collected, 56.3% of the goal of $40,000.

January 31—First civic concert of 1958 featured the Robert Joffrey ballet, and "Thinker" statuettes were awarded for the first time to four Public Works Department employees for their participation in the Beneficial Suggestions program.

February 7—Personnel of the Metric Electronics Branch were among the first in the nation to establish recorded data on the Army's "Explorer" satellite on its first pass around the earth.

February 14—RAT—Rocket Assisted Torpedo—was unveiled at a press conference in Pasadena, February 10. Also reported was the accession of the submarine deck hangar from the troop transport SEALION for use as a pyrotechnic test chamber by Propulsion Development Department.

March 7 — The Third Annual Science and Math Fair featuring displays and exhibits produced by students of the elementary schools and Burroughs High School.

March 14 — Twenty-nine CAP chaplains convened at NOTS for a three-day meet.

March 21—Ten Burroughs seniors received Achievement Plaques from the Bank of America.

March 28—Marais and Miranda, folk song interpreters, presented a special "Children's Concert."

April 4—Professional and amateur entries and other hobby exhibits were featured at the tenth annual Kern County Art Festival held March 29-30.

April 11—Station pilots were scheduled to participate in the Fire Power Demonstration portion of the Naval Air Gunnery Meet in El Centro.

April 18—Announcement of new positions for Dr. Howard A. Wilcox, to become Assistant Technical Director for Research and Department Head; Bernard Smith, to become Head, Weapons Development Department, and J. J. O'Brien, to become Head, Central Staff.

April 25—Advance notice of the 14th Annual Wildflower Show held at the Community Center given.

May 2—RAFT Club opened, with over 750 youths and adults attending first night ceremonies.

MAY 9—Opera came to NOTS with the final concert of the year. Dr. Jan Popper directed the UCLA Opera Workshop in their presentation of portions of famed opera scores.

May 17—Souvenir Edition, commemorating Armed Forces Day.

May 23—First of its kind ever held was the three-day Transportation Seminar sponsored by the Bureau of Ordnance, and attracting some 75 delegates.

May 29—NOTS military men get pay raise; thirty-three apprentices from six trades presented with Certificates of Apprenticeship by Associate Technical Director H. G. Wilson. Navy Relief Fund Drive initiated.

June 6 — Burroughs High School graduates 131; NOTS' float, featuring RAT, Sidewinder, Zuni, Mighty Mouse and Mr. NOTS, all depicting "Naval Ordnance through Science, entered in Tehachapi's Lilac Festival. Hilo Hattie and her Hawaiian troup entertained at the Adult Station Dance.

June 13—Installation of natural gas pipeline to supply Station shops, offices and residences completed; state officials confer at NOTS on need for child care center.

June 20—James D. DeSanto received Meritorious Civilian Service Award. Quartets from various Southland communities appeared at the Quartet Parade Benefit Show, a fund raising activity for Desert Area Family Service.

June 27—Polaris demonstrated to newsmen at San Clemente Island in "Operation Pop-up;" 10% raise for classified civil service personnel announced.

July 3—San Clemente Island chosen for site of Navy Missile Training Base; twenty Station inventors granted Patent Awards.

July 11—New Junior Professionals report aboard.

July 18—New Medical insurance plan adopted by Community Council; two employees, one from Pasadena, one from China Lake, receive "Thinker" Statuettes.

July 25—Ridgecrest radio station KRCK expands coverage to include special China Lake news reports; Station on verge of rationing water.

August 1—Changes in Station housing policy announced; summer employment program nears 100 students and faculty members from 35 colleges and universities.

August 8—Final week of 4-week Air and Space Workshop for Oregon teachers held here.

August 15—Lt. Col. R. C. Kuhn assumes command of Marine Barracks; Joe Stone's archery program at NOTS stirs Navy-wide interest.

August 22—China Lake goes on the air, with NOTS NEWS, daily, direct from the Rocketeer office.

August 29—Hans Durckheim, exchange student from Hamm, Germany, arives at China Lake in time for Burroughs' opening day.

September 5 — Cdr. Melvin C. Hoffman reports as Naval Air Facility Executive Officer.

September 12—Cornerstone placed for new Burroughs High School.

September 19—NOTS'-developed "Explosive Press" revealed at special press conference in Los Angeles.

September 26—Construction begins on Murray School; W. D. Giano and J. H. Holton, Supply Department employees, share a $500 Beneficial Suggestions award for "Counter Height Bins" idea.

October 3—NOTS featured at Desert Empire Fair and the Fair parade.

October 10—Successful RAPEC—Rocket Assisted Pilot Ejection Catapult—tests pave way for use of this ejection system by all uniformed services; Nellis AFB features Sidewinder at USAF Weapons Meet.

October 17—NAF plane, with three Naval Air Facility personnel, participated in the U. S. Post Office's Overland Mail Service centennial.

October 24—United Fund drive, for $33,500, opens; second annual NOTS Gem and Mineral Show conducted.

October 31—Ten Station youngsters qualify as NRA "Safe Hunters.

November 7—Souvenir edition of the Rocketeer commemorating the 15th anniversary of the Naval Ordnance Test Station.

November 14—L. T. E. Thompson awards conferred to RAdm. Hayward, Capt. F. L. Ashworth and Dr. H. A. Wilcox; Capt. Harry B. Hahn assumes duties of Station Executive Officer.

November 21—The Roberto Iglesias Spanish Ballet presented as the first concert of the 1958-59 season; Kern County PTA officials and educators attend the gifted child conference held at China Lake.

November 28—Toastmistress Club hosts two-day meet of delegates from surounding communities.

December 5 — New In-Service Placement Policy adopted; Brazilian Minister of Marine and his party visit NOTS.

December 12—NOTS Hobby Shop formally opened; advance notice of presentation of the Christmas portion of Handel's "Messiah;" Linda Shea selected as 1959 foreign exchange student.

December 19 — Synchronized smear camera, for detection and recording of satellites, announced at a press conference in Los Angeles; Cdr. D. E. Bruce, Experimental Officer, cited for Exceptional Meritorious Service; final tally of United Fund proceeds listed at $28,100.

Honorary Membership Presentation

HONORARY MEMBERS—Officers of the China Lake Astronomical Society present Station Commander Capt. W. W. Hollister and Dr. Wm. B. McLean, Technical Director, with honorary membership cards to the Society. Pictured (l. to r.) are: Don Bevis, Major Don Scheller, Dr. McLean, Capt. Hollister, Don Grasing and Jim Deal.

GOOD NEWS—Robert "Q" Jones, Station Chaplain (left) congratulates Salvation Army Area Representative Joe Hebert upon their learning that Indian Wells Valley people had designated $1,828.80 expressly for the Salvation Army during the recent United Fund campaign.

Register Soon for Evening College and High School Classes to Begin February 2

Twenty-nine college and twenty-seven high school night classes are being offered to adults beginning February 5. Registration for all classes will be held at the Burroughs High School library from 7 to 9 p.m., January 19, 20, 21 and 22.

Prospective students are asked to register for courses they wish to take regardless of any previous registration.

College Courses

Courses offered by Bakersfield College are: **American Problems 10a**, Monday, 7-10; **Astronomy 1b**, Tuesday, 7-10; **Business Administration 1b**, (Accounting), Monday, 6-10; **Business Administration 18b**, (Business Law), Tuesday, 7-10; **Class Piano 1a**, Tuesday, 5-7; **Economics 1a**, Thursday, 7-10; **English Xa**, Monday, 7-10; **English Xb**, Tuesday, 7-10; **English 1a**, Wednesday, 7-10; **English 1b**, Thursday, 7-10; **English 51b**, Wednesday, 7-10; **German 3** (Intermediate), Monday and Wednesday, 7-9.

An English Classification examination for Bakersfield College night classes will be given at 7 p.m. on January 14, in Room 2, Burroughs High School. All students wishing to take English 1a (Freshman Reading and Writing), must qualify for the class by passing this exam.

Other college courses include: **Health Education 1**, Monday, 7-9; **History 4a**, Thursday, 7-10; **History 17b**, Tuesday, 7-10; **Math C** (Trigonometry), Monday, 6:30-8:30 and Thursday, 6:30-7:30; **Math D** (Intermediate Algebra), Wednesday, 7-10; **Math 1** (College Algebra), Thursday, 7-10; **Math 3b** (Calculus), Tuesday, 4:45-5:45 and Thursday, 4:45-6:45; **Math 3a (Calculus)**, Tuesday, 4:45-6:45 and Thursday, 4:45-5:45; **Meteorology 3**, Monday, 7-10; and **Music History 21b**, Tuesday, 7-10.

Six more courses offered for college credit are: **Physical Education 31a, (First Aid)**, Thursday, 7-9; **Physics 4a** (Mechanics and Properties of Matter), Tuesday and Thursday, 4:45-6:45; **Public School Art 7a** (Painting Techniques), Wednesday 6:30-10:30; **Public School Music 9**, Thursday, 7-10; **Psychology 1b**, Tuesday, 5-8; **Sociology 1**, Tuesday, 8-11; and **Voice 1a**, Thursday, 5-7.

High School Classes

Twenty-seven courses are offered by the Burroughs Evening High School, including **Algebra**, first semester, Monday, 7-10; **Algebra**, second semester, Monday, 7-10; **Arithmetic and Language Review**, Thursday, 7-10; **Art**, Monday, 7-10; **Astronomical Instrument Design**, Tuesday, 8-11; **Blueprint Reading and Drafting**, Monday, 6-10; **Beginning Ceramics**, Wednesday, 7-10; **Basic Electronics**, second semester, Tuesday, 6:30-9:30; **Plane Geometry**, first semester, Thursday, 7-10; **History of the United States**, second semester, Tuesday, 7-10; **Music in Nursery Education**, Monday, 7:30-9:30; and **Basic Photography**, Tuesday, 7-10.

Other evening high school courses are: **Physical Education, Body Mechanics and Posture**, Wednesday, 7-9; **Physics**, second semester, Tuesday, 7-10; **Pre-retirement Planning**, Monday, Tuesday, Wednesday or Thursday, 7-9; **Beginning Sewing**, Wednesday, 7-10; **Intermediate Sewing**, Tuesday, 7-10; **Advanced Sewing**, Monday, 7-10; **Intermediate Shorthand**, Monday and Wednesday, 7-9; **Conversational Spanish, Beginning and Intermediate**, Monday and Wednesday, 7-9; **Swimming and Life Saving**, Monday and Wednesday, 5-7; **Intermediate Typing**, Tuesday and Thursday, 7-9; and **Woodshop**, Monday and Wednesday, 6:30-9:30.

COMING EVENTS

Children's Film Society

Movies scheduled for members of the Children's Film Society for the January showing will include "Ride 'em Cowboy," "Mexican Children," "Little Grey Neck," "Goggles and Gauntlets," and Walt Disney cartoons. The showing will begin at 10 a.m., tomorrow at the Station Theatre.

Memberships for the remainder of the season may be purchased at the box office for 60 cents immediately before the movies begin. Members who have lost their cards may obtain new ones free by applying at the box office between 9:45 and 10 a.m.

Natural Science Club

Two films, one describing an Antarctic voyage and the other telling of the British fishing industry, will be featured at next Monday's meeting of the Natural Science Club. The public is cordially invited to the meeting to be held at 8 p.m., January 12, in the Community Center.

Unitarians

"The Case for Liberal Religion," a taped sermon by the Rev. Jack Mendelsohn Jr., Minister of the All Souls Unitarian Church of Indianapolis, Indiana, will be heard at the IWV Unitarian Fellowship, Sunday evening, 7:30 p.m., January 11 at the Anchorage.

Mary Ann Moore will have charge of the meeting, to which the public is invited.

Red Cross

Members of the community who have contributed $1 or more to the Red Cross during the last year are invited to attend the Annual January meeting of the China Lake Chapter of the American Red Cross at the Community Center, Room B, Wednesday, January 21 at 8 p.m. Board members for 1959 will be elected and reports from the eight service committee chairmen will be made.

David P. Chandler, one-time Red Cross employee with personal experience of Red Cross disaster activities, will speak.

The merit system established by the Civil Service Act guarantees that any person may qualify for a job on the basis of ability to do the work, without discrimination with regard to race, religion, national origin, or politics.

Need money for a rainy day? Turn in some Benny Suggs!
Navy Incentive Award Program

NAACP Banquet

The Indian Wells Valley Branch of the NAACP will hold a banquet at the Community Center at 6 p.m. on Saturday, January 17, in honor of the organization's new officers, who are: James Sims, president; Horace Stanton, vice-president; Henry Juels, secretary; Henry Sampson, assistant secretary; and Mankin Logan, treasurer.

Dinner donations are $2 per person. The public is invited to attend.

Insurance Premiums Due

PESA insurance policy-holders have until Monday at 5:15 to pay January premiums. The office will be open until 5:15 tonight and on Monday.

A twenty-five cent charge will be made after the closing date for payments.

You can preach a better sermon with your life than with your lips.
—Oliver Goldsmith

When one door is shut, another opens.
—Cervantes

ROCKETEER

TEMPERATURES

	Max.	Min.
Jan. 1	62	27
Jan 2	65	22
Jan. 3	51	24
Jan. 4	52	19
Jan. 5	52	20
Jan. 6	56	39
Jan. 7	52	34

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CONGRATULATIONS!—LCdr. Leon Lewis (left) receives the congratulatory handshake of Capt. W. W. Hollister upon his retirement from the Navy after 24 years active duty. LCdr. Lewis, now temporarily employed with the Security Division, served as Station Security Officer from November, 1956, to December 10, 1958, and was relieved by LCdr. Victor A. Egger. Retirement was effective December 31, 1958.

Applications of NOTS' Explosive Press Studied by Private Industrial Concerns

Some thirty-one private industrial corporations or companies have contacted John Pearson, Warhead Research Branch, regarding the explosive forming of metals since a press conference dealing with NOTS' studies in this field was held September 12 in Los Angeles.

The Explosive Press, developed by Pearson and Edward W. LaRocca, also of the Warhead Research Branch, Weapons Development Department, has an unlimited potential in the production of a huge variety of products. Providing a new and more powerful source of energy for working metals, the Press has proven that explosives may be utilized for peaceful, as well as warlike, purposes.

A recent memorandum, written by John Pearson, and routed through the office of the Associate Technical Director, H. G. Wilson, reads in part:

". . . Immediate interest was evidenced by the fact that the press conference lasted for nearly two hours. The success of that conference has since been evidenced by the number of articles which have appeared in various newspapers and trade journals.

"I believe that even stronger proof of the success of that conference has been the extreme interest shown by industry in the NOTS studies. Industrial interest and the need for such information is demonstrated by the accompanying list of companies which have contacted the Station seeking detailed information regarding this work. It has given me a great deal of satisfaction to personally answer each inquiry.

"By providing these companies with the type of information they were seeking, I believe that the Station rendered an important service to American industry."

The list of companies referred to includes major research and aircraft firms, as well as a number of diversified companies producing various items for public consumption.

Nursery School Music Class for Adults Slated

A new course in Nursery School Music for parents and teachers beginning February 2 will be conducted as part of the Adult Education program by Ruth Newland, director of the NOTS Nursery School.

Subjects to be studied will include practice in rhythms, use of simple instruments, the use and limitations of records, the auto harp, the piano for accompaniment, choice of music, and singing, emphasizing the importance of music in the Nursery School and in the home life of all young children.

Mrs. Newland holds an A.B. degree in music and did advanced work in New York where she had the opportunity of observing music in many fine nursery schools. She also has had considerable experience as instructor in music workshops conducted by the Southern California Nursery Association.

This class is recommended for teachers and all parents who have children of nursery school age. Registration will be held at Burroughs School library on January 19, 20, 21, and 22 from 7 to 9 p.m.

'Name the Theme' Contest Announced by WACOM

Recently announced by the Women's Auxiliary of the Commissioned Officers Mess is the contest, open to the public, to provide a theme for the 15th Annual Desert Flower Show, tentatively scheduled for the last weekend in April. The prize for the winning entry will be a subscription to either "Sunset" or "Desert Magazine." Not only flowers, but small desert animals, specimens of insect life, rocks and desert artifact, will be included in this year's Flower Show.

The contest will close January 23. The Flower Show Committee will judge the contest and are, therefore, ineligible to compete.

Jean Bruce and Elizabeth Sears are co-chairmen of the event.

Repertory Players To Present Unique Drama January 24

Indian Wells Valley residents will have the unusual opportunity of watching the dramatization of Alan Paton's "Cry, the Beloved Country," on Saturday, January 24, at 8 p.m. at the All-Faith Chapel.

Beyond the intense and insoluble personal tragedy of the drama's characters is the story of the land of South Africa—or any land where racial ferment and unrest breaks the harmony of men—presented by the Bishop's Company of Santa Barbara, a professional repertory group touring the country for the fourth year.

The English theater, as most people know, was born at the altar of the church. The long separation between church and stage ended with the efforts of The Bishop's Company—first modern American company to reunite the forces of religion and theater. Asking the audience to share in the creation of the play is part of the technique of the Company, whose outstanding record includes 300,000 miles of travel in 42 states and Canada, with interracial and inter-faith cast members.

Begun in 1952, the Bishop's Company is named in honor of Bishop Gerald H. Kennedy of the Methodist Church, and their appearance here is sponsored by the Indian Wells Valley Ministerial Fellowship.

Worldwide Charitable Groups to be Aided by Joint Fund Campaign

Herbert T. Lotee, Head, In-Services Weapons Support Div., Engineering Dept., has been appointed as chairman of the Station's 1959 Joint Charities Campaign.

The joint Charities Campaign includes two inclusive charitable groups—the Federal Service Joint Crusade and the Federal Service Campaign for National Health Agencies. The campaigns will be conducted concurrently on the Station during the two-week period from January 26 through February 7 to secure research and operational funds for nine separate agencies.

Agencies operating under the Federal Service Joint Crusade are the Crusade for Freedom (Radio Free Europe, and Europe Free Press); CARE and the American-Korean Foundation.

The Federal Service Campaign for National Health Agencies encompasses local chapters of: American Cancer Society, Inc.; American Heart Association; Muscular Dystrophy Association; National Association for Mental Health; National Multiple Sclerosis Society and the National Society for Crippled Children and Adults.

National Visitors

14th Annual AOA Meet Convenes Here Jan. 14

The Station will act as host for some 125 members of the Standards and Metrology Division of the American Ordnance Association as they hold their 14th annual meeting here January 14 and 15.

The visitors will arrive by Pacific Airlines at the Inyokern Airport Wednesday morning and will be conveyed by bus to registration headquarters to be assigned quarters.

After luncheon at the Commissioned Officers Temporary Dining Room, the visitors will convene at the Community Center to hear Louis Polk, Chairman of the Standards and Metrology Division of AOA, give the opening remarks. Following this, the group will be officially welcomed to the Station by Capt. W. W. Hollister.

On conclusion of the welcoming address the meeting will launch into a strenuous program which calls for the presentation of eight papers by eminent authorities in their field. A discussion period will follow the presentation of each paper.

Eminent Authorities Speak

The titles and the authors are as follows:

- "Some Significant Aspects of the Reliability Development in Nuclear Weapons" by L. J. Paddison, Director of Reliability Development, Sandia Corporation, Albuquerque, New Mexico.
- "Modern Weapons Systems Demand Dynamic Calibration Programs" by Col. J. G. Schneider, USAF, Chief of Quality Control, Air Material Command.
- "The Basis of Our Measuring System" by A. G. McNish, Consultant Director, National Bureau of Standards.
- "Missiles and Quality Assurance" by Robert W. Cuthill, Chief Engineer, Army Ordnance Missile Command, Huntsville, Ala.
- "Navy-Contractor Integrated Gage Programs" by Cdr. Herbert L. White, Chief, Gage Control Division, Naval Gun Factory.
- "Navy Ordnance Calibration Program" by Lt.(jg) Clyde R. Brewer, Assistant Gage Officer, Inspection Equipment (Gage) Division, Naval Gun Factory.
- "Army Ordnance and American Gage Design Standards Report" by M. L. Fruechtenichts, Manager, Gage Department, Frankford Arsenal.
- "Large Scale Metrology Report" by I. H. Fullmer, Chief, Engineering Metrology Section, National Bureau of Standards.

The meeting will recess at 5:25 p.m. for dinner and will reconvene at 8:30 p.m. to hear Dr. H. A. Wilcox, the Station's Associate Technical Director for Research, speak on "Deep Ocean Research."

At 8:30 Thursday morning the group will assemble in the Community Center Conference Room for briefing by Station Technical Director Dr. Wm. M. McLean on Station facilities and technical programs.

At 9 o'clock the group will travel to the ranges to witness guided missile firings and aircraft bombing. At the conclusion of the firings, the visitors will have luncheon and depart from the Station at 12:30 p.m.

Augmenting the attendance at the 14th annual meet will be members of the China Lake Chapter of the American Ordnance Association, 170 strong, according to John Cox, chairman of the NOTS group.

Chemical Society Will Tour U. S. Borax Plant

Tomorrow's tour of the U. S. Borax and Chemical Company at Boron, California will serve as the January meeting of the Mojave Desert Section of the American Chemical Society. Reservations are required for the luncheon to be served in the plant's recreation hall and are available from W. R. McBride, Ext. 72831. A short discussion of the mining and plant operations will precede the tour, which will last about an hour and a half.

U. S. Borax's borate deposits in California constitute the largest known body of boron minerals in the world. The recent completion of the new Boron plant and the beginning of the strip mining operation markedly increase the availability of borate.

Public Works Men Finish EPS Course

Twenty-three Public Works Department employees received instruction during October, November and December in Engineered Performance Standards from the three-man team from the 11ND Public Works Office.

Engineered Performance Standards are an estimating technique based on Methods-Time-Measurement procedures. Using EPS, the Planner and Estimators completing the orientation will be able to accurately estimate the labor requirement for each job. This will permit valid judgments of shop performance in order to pinpoint needs for better techniques, materials and equipment. It will also provide a basis for accurate scheduling and firmer job completion dates for Public Works customers. This is intended to provide more productive work with the same number of men without speed-up.

The 14-week course was conducted by Bob Connell, team leader, Steve Hoffer and Joe Speciall.

Accompanying this article is the picture below showing twelve of the thirteen men who completed the entire session. Attending a two-week training session were Joe Sakraida, Head, Inspection Branch; Ed Gifford; Russ Johnson; James Hughes; Earl Smiley; C. D. Kirby; Ben Eubanks; Gerald Ray; Harry Sidewand; and A. L. Waid, all of the Inspection Branch.

EPS Installation Completed in Public Works Department

GRADUATES — These Public Works Department Planners and Estimators recently completed the orientation in Engineered Performance Standards. Shown (front row, l. to r.) are: Manuel Bonnaud, Ray Kreighbaum, George Hartzell, Leo Lane and "Andy" Andreasen. Second row (l. to r.) are: Hubert Ross, Monty Pryor, Larry Sullivan, Ed Attkinson, Tommy Bost, Bill Reynolds and Howard Auld. Completing the course but not pictured is Bill Parks. EPS is a money-saving technique based on accurate estimates.