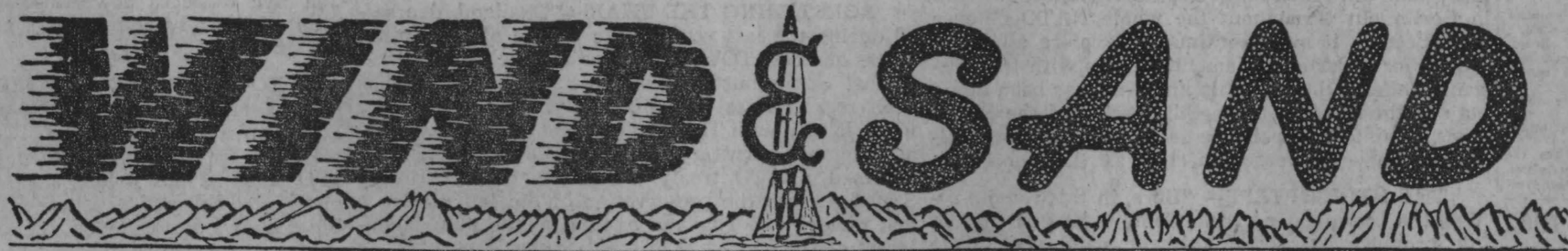


Welcome To White Sands Missile Range

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VOL. VIII — NO. 5

WHITE SANDS MISSILE RANGE, NEW MEXICO, FRIDAY, MAY 11, 1962

20 PAGES

History of AF Day

Prior to 1950, Army Day was celebrated on April 6 each year, Air Force Day on Sept. 18, Navy Day on Oct. 27 and the Marine Corps anniversary on Nov. 10. In April, 1949, the Secretary of Defense, with the President's approval, announced that the four separate events would be consolidated into a single annual ARMED FORCES DAY in line with unification of the Services and creation of the Department of Defense by Act of Congress.

Armed Forces Week

U.S. Power for Peace On Display May 12-20

WASHINGTON (AFPS) — A week of parades, exhibits and open houses at U.S. military installations throughout the world will begin May 12 to give the private citizen a look at the nation's military posture.

As in past years, the third Saturday in May, the 19th, has been officially proclaimed Armed Forces Day by the President. The first such observance was held in May 1950.

The day is intended to symbolize the common interests and interdependence of all components of the Armed Forces. It also demonstrates to the public the close working relationship of the Army, Navy, Air Force, Marine Corps, Coast Guard, and auxiliary organizations.

Open house will be the week's main feature at bases and facilities around the world. In addition, civilian guests in thousands of communities will see demonstrations and exhibits designed to increase their understanding of their nation's strength. Last year, in the continental United States alone, more than 1,000 community programs were held featuring parades and displays. The

Army to Allow Dependents to Go to Europe

The Army make known its policy for movement of dependents to Europe following the announcement by Secretary of Defense McNamara today that family travel to Europe would be resumed immediately.

First priority for travel, as adequate family housing becomes available, will be given to families who have been separated for the longest period of time. Within this group, precedence will be determined by the date the military member departed CONUS for his overseas assignment. This priority will be modified to some degree by availability of adequate family quarters in the various areas of Europe to which Army personnel are assigned.

Eligible Army personnel who are recent arrivals in Europe and those whose departure from the United States is imminent will have their dependents join them after the first priority group has been moved overseas.

In another announcement today, the Army said that the personnel whose tours in Europe were involuntarily extended would return on a "first over, first back" basis. Extension of normal tour lengths by six months was another action taken last fall to expedite the Army's build-up.

Married Army personnel
 (Continued on Page 15)

Department of Defense has encouraged this type of program while still emphasizing the on base, open house aspects of the observance.

The 1952 observance stressed the fact that the Armed Forces represent "Power for Peace." This slogan was considered so descriptive of the national effort, that it has been used every year since.

In some overseas areas the phrase "Partners for Peace" is used to point up this country's free world alliances.

The Defense Department coordinates the observance nationally, designating certain areas of responsibility and assigning one of the services as coordinating authority in each area. Program emphasis is on the local command or community level.

Armed Forces Day Prayer

ALL WISE and merciful God, on this Armed Forces Day, 1962, as we dedicate anew our military power for the cause of peace, both at home and abroad, we do so in the spirit of our forefathers who believed that mankind is endowed by God and that freedom is inherent in man's inalienable rights.

As our forefathers, determined to build an island of freedom in a world of tyranny and to establish a republic which would respect the human dignity of every individual, may we be determined to share this freedom and respect with all men everywhere.

Help us, O Lord, not to be intimidated, swayed, or thwarted in our purpose by the rattling sabers and brutal tyranny of despots and the power lust or Godless and selfish men, but may we be ever vigilant to keep the fountainhead of freedom open, that its waters may flow down through the earth and quench the thirst of those who starve for righteousness and long for liberty.

May we walk in this land uprightly and dispel wickedness by fostering righteousness. May we dissipate discord and misunderstanding with truth and brotherly love. May we combat the false and devastating premises of Godless ideologies and destroy their blighting presence in our land by reflecting the light of God and American Democracy upon them.

We pray, O God, for the men and women who constitute the fabric of our military strength. We dedicate ourselves to unselfish service and pledge to walk in the paths of righteousness that we may effectively serve our fellow man, our country, and our God. Amen.

—The Armed Forces
 Chaplains Board



CURIOS KIDS—Inspect a Nike Zeus anti-ICBM missile which will be only a part of the many-faceted Armed Forces displays tomorrow. The latest Army missiles, including tank-infantry demonstrations, missile firings and jet plane fly-overs will highlight the dynamic Armed Forces Day program at White Sands Missile Range.
 (U.S. Army photo by Marcos Ortiz, Civ.)



FOR ARMED FORCES DAY—A section of bleachers is lowered to the ground at White Sands Missile Range, N. M., where some 15,000 persons are expected to attend the big Armed Forces Day observance Saturday, May 12. Camouflage net will be used to shade the bleachers, and from them Armed Forces Day visitors will watch two fast-moving shows featuring dynamic demonstrations that—until now—the public has not been permitted to witness. The shows begin at 10:30 a.m. and 2 p.m.
 (U.S. Army photo by Warren C. Weaver, Civ.)

Top Army Talent

BANG-UP SHOW FOR POST VISITORS ON TAP

A bang-up show by top Army talent is in store for visitors Saturday (May 12) at the White Sands Missile Range Armed Forces Day festivities.

In addition to dynamic missile displays and demonstrations, the Army's Special Services under the direction of Lt. John H. Spence, assistant Special Services officer, is presenting a musical variety program featuring professional entertainers. Two shows, 10:30 a.m. to 12:15 p.m., and from 1:15 to 2 p.m., will be given at the Special Services booth, "Oasis in the Desert."

Admission is free and the programs will include folk singing, mountain singing, a male quartet and a jazz combo.

Pfc Dave Roberts, with
 (Continued on Page 4)

News Briefs

TRAVEL CURB ON SOLDIERS' FAMILIES LIFTED—Defense Secretary Robert S. McNamara yesterday ordered the immediate resumption of government-paid travel for dependents of military men stationed in Europe. . . In announcing his action, McNamara told a news conference that 'such a restriction has adverse effects on morale and career incentives of military personnel.' He said the general policy of the Defense Department is that military men overseas shall not be separated from their family except during emergencies or for short tours. The ban was ordered September 9, to make additional sea air transportation available for emergency shipments of troops and supplies to bolster Allied strength in Western Europe. The ban has been maintained to reduce the flow of gold and dollars overseas. . . McNamara said the gold situation is still serious, and to ease the situation the Army will try out a system of rotating small support units for short tours of 13 months or less. Men in such units will not take their dependents with them. . . The Army and Air Force which have
 (Continued on Page 2)

Military Leaders Send Messages

Once again, the members of the Armed Forces are privileged to receive the public as visitors to the bases and installations of the United States military services. The demonstrations and displays which are presented provide impressive evidence of the military strength of our Nation. These, however, are only symbols of the total effort. That effort goes on twenty-four hours a day, every day of the year, wherever the skilled, alert, and dedicated men and women of the Armed Forces are stationed throughout the world. It derives further strength from the readiness of the trained members of the reserve components of all the military services. In the situation which exists today, the resultant strength is a vital safeguard of our Nation and of the principles of right, justice, and freedom for which we and the other peoples of the Free World so firmly stand.

On behalf of all Americans in military uniforms, I welcome you to the observance of this Armed Forces Day, 1962, and to the demonstration of the actions and methods through which, with the support of the people of this Nation, we are serving the cause of maintaining the Power which is so essential for Peace.

—Gen. Lyman L. Lemnitzer
 Chairman, Joint Chiefs of Staff

The United States Army exists for the security of the Nation. On this Armed Forces Day, 1962, the Army reports to the American people upon its discharge of this responsibility as a member of the national defense team. We welcome our fellow citizens to Army installations and activities on this day, and to join us in rededication of our lives and our purpose to the preservation of America and its ideals.

—Gen. George H. Decker
 Army Chief of Staff

We are happy to have the opportunity to welcome you aboard during this celebration of Armed Forces Day. We are proud of what we have and of what we believe our capabilities are and can only hope that you may gain some knowledge, some insight into the preparedness of the United States Navy to serve you as guardians of our freedom.

—Adm. George W. Anderson
 Chief of Naval Operations

The Air Force is proud to share in the aims, the plans, and the achievements of the Department of Defense. We are working constantly toward greater efficiency in carrying out our portion of the tremendous task of providing the American people with security from attack.

On this thirteenth Armed Forces Day, we in the Air Force, as members of the Department of Defense, dedicate ourselves again to the preservation of peace and security for all free peoples throughout the world.

—Gen. Curtis E. LeMay
 Air Force Chief of Staff

The United States Marine Corps, our Nation's Amphibious Force-in-Readiness, is proud to join the other services in the observance of Armed Forces Day, 1962. To our fellow Americans, we extend a hearty "Welcome Aboard."

—Gen. David M. Shoup
 Marine Corps Commandant

Preservation of the free American way of life de-
 (Continued on Page 4)

Armed Forces Day Program

White Sands Missile Range's Armed Forces Day will feature close-in missile firing, and intercepts, drill teams, missile mobility demonstrations, infantry-tank attacks and jet flyovers.

Army spokesmen said that yesterday's dress rehearsals were accomplished and the scheduled events will prove to be the most dynamic in WSMR's history.

The White Sands' Armed Forces Day schedule is as follows:

Morning Program

- 0930-1000—Ft. Bliss Band Concert in display area.
- 1005-1020—Honor Guard drill
- 1025-1030—Jet flyover and maneuver
- 1030-1035—Pero Firing
- 1035-1045—Fire Fighting Team extinguishes missile blaze
- 1045-1100—Sky Divers parachute from aircraft
- 1100-1105—Nike Hercules Goer missile mobility demonstration.
- 1115-1130—Infantry-tank team attack demonstration
- 1130-1145—Sergeant missile demonstration of mobility and emplacement.
- 1145-1210—Hawk missile intercepting a target drone

Afternoon Program

- 1310-1335—Holloman AFB Band concert in display area
- 1340-1350—Navy drill team drill
- 1355-1400—Jet flyover and maneuver
- 1430-1410—Two Honest John firings
- 1410-1420—Fire Fighting Team extinguish missile blaze
- 1420-1435—Sky Divers parachute from aircraft
- 1435-1440—Nike Hercules Goer missile mobility demonstration.
- 1445-1450—Talos missile firing
- 1450-1505—Infantry-tank team attack demonstration
- 1505-1520—Sergeant missile demonstration of mobility and emplacement

Headed by Lt. Col. William V. Nichols, Troop Commander, White Sands Armed Forces Day Committee includes Maj. August T. McColgan as Project Officer.

FUTURE BRIGHT FOR WSMR SAYS GENERAL SHINKLE

Maj. Gen. John G. Shinkle, as commanding general, is responsible for all activities of this range, which support missile development programs of all services. Consequently, he—more than anyone else—knows the future of White Sands Missile Range. And he says this future is bright.

"Facility-wise, we intend to expand some areas and to update others in keeping with advances in the state of missile art," he said earlier this month. "This will be a continuation of our intention to keep White Sands the best instrumented and the busiest missile test center in the Free World."

Gen Shinkle has expressed this optimistic outlook numerous times in replies to queries of business and civic leaders in the WSMR area.

And he has good reason for feeling the way he does:

Key Installation

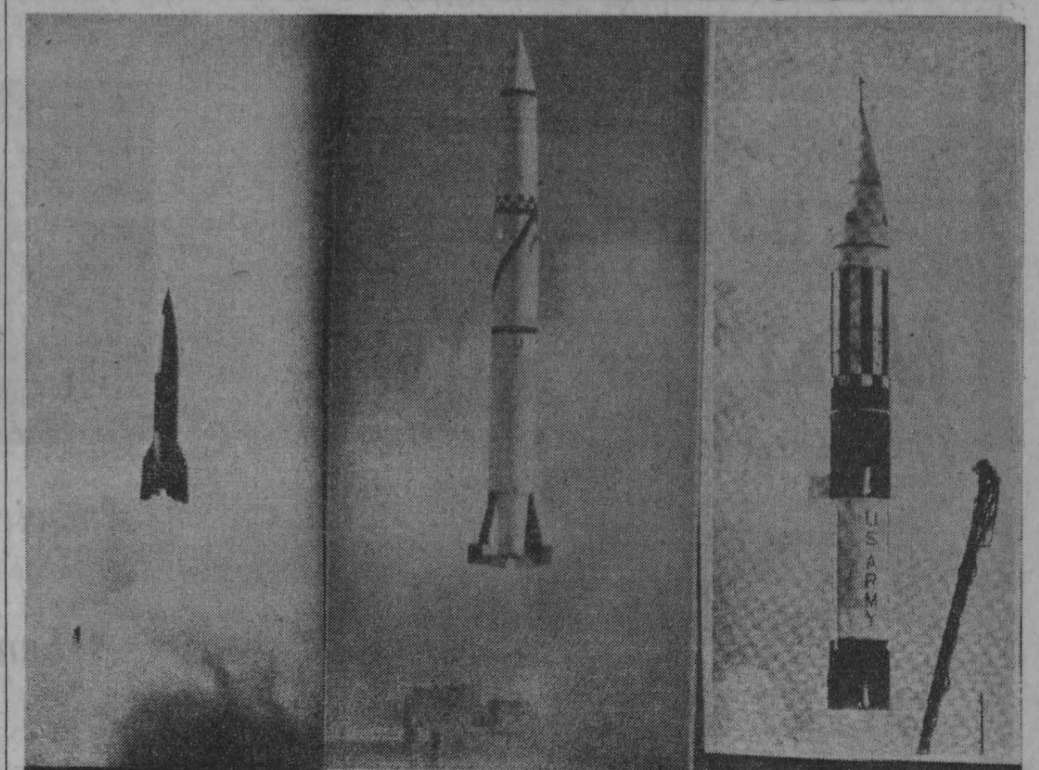
"Just as White Sands is a key installation in the Army's Nike Zeus anti-missile missile development program, the Navy's Talos and Typhon system tests, and the Air Force missile and space activity, so it will continue on new programs in the coming years," he said.

Being more specific, he cited research and develop-

ment of such systems as the tactical-range surface-to-surface missile "B," the Pershing ballistic missile and the Mauler air defense unit.

Gen Shinkle also stressed that he expects several new areas of emphasis and activity to enter the White Sands picture during the current decade.

"As the two other Department of Defense national missile ranges—the Atlantic
 (Continued on Page 3)



YESTERDAY-TODAY-TOMORROW—Left: a captured V-2 rocket lunges skyward over a decade and a half ago—opening a new era of missile research and development at WSMR. Middle: The Army's Redstone missile, which served as the first stage of the Jupiter C space vehicle for the first U.S. artificial moon and provided power for sub-orbital flights from Cape Canaveral. Right: The Army's Pershing missile undergoing advanced R & D to succeed the Redstone.
 (U.S. Army photos)

WIND & SAND

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2 — WIND & SAND — Friday, May 11, 1962

News Briefs

(Continued from Page 1)

the great bulk of dependents in Europe, said it will be about a month before the first dependents will be ready to sail or fly to Europe. Men who have been overseas longest will be the first to have their families join them. Government housing generally will be made available on the same basis. Dependents who paid their own way over and have been living of military reservations will not gain any advantage by their presence overseas. However, they can move into quarters in their turn and will have their passage home paid by the Government. . . . McNamara said the resumption of authorized travel will not result in an increase in dependents there because many men with dependents whose tours were extended during the Berlin crisis, now will be coming home. The Army said that these men will return on a 'first over, first back' basis. The Secretary said there are no plans to reduce U.S. combat strength in Europe, despite the efforts to cut the net cost in gold of maintaining U.S. forces overseas." (Washington Post)

RANGER ROCKET CRASHES ON MOON — "The U.S. scored a major advance in space recently when the spacecraft Ranger-4 crashlanded on the far side of the moon. It was this country's first success in seven attempts to land a piece of hardware on the moon and virtually duplicated the feat of Russia's Lunik II which hit the moon September 12, 1959. Although there was no way of seeing the actual impact, scientists said Ranger-4's trajectory before passing behind the moon assured that it would land in the predicted area. The 780-pound vehicle launched from Cape Canaveral, Fla., completed the 231,486-mile journey to the moon in 64 hours." (Washington Star)

WE CAN'T AFFORD TO RELAX IN BERLIN — "Now that Soviet Marshal Ivan S. Konev has packed his bags and cleared out of Berlin, the city appears to be losing its status as one of the world's major crisis areas. . . . Under Konev, the wall was built and defended; incidents that could have touched off war broke out on land and in the air; the tension in Berlin reached its greatest height. But now Konev has been called home, following the withdrawal of Gen. Lucius Clay by the United States, and the Berliners can find more pleasure and relaxation in the German spring. Now that crisis has eased, the danger is that the who Western alliance will relax and leave itself unprepared for that day in the future when the Communists will decide to bring the crisis back to life again. As things stand now, the reprieve in Berlin

is only temporary. There are a dozen ways the Communists can turn the pressure back on, whenever they decide to do so. During the present lull, the West must continue to do two things if the freedom and peace of West Berlin are to be preserved. First, it must maintain its strength and its vigilance, not only in Berlin but throughout the whole NATO defense area. Second, it must continue to explore all possibilities for a Berlin settlement in talks with the Russians. Under U.S. leadership, the West has been doing both of these things during the period of the Berlin crisis. Despite the welcome relief that is now available, we have no reason to change." (Denver Post)

THE HELICOPTERS — "Here, in this remote refuge, the commander of the Communist guerillas in this province has set up his command post, safe against all but one sort of surprise attack. To surprise, to envelop, to catch the Communist leader and his troops, are now the missions of the helicopters of the 57th Transportation Squadron and the two companies of Vietnamese soldiers they are carrying. . . . Then, quite suddenly, a patch of brighter green shows up ahead. The helicopter all but plummets downwards. The soldiers fan out rapidly, running hunched over, through a dry rice field. And our helicopter and all the others to the air again, looking for all the world like a covey of giant mantises. . . . The little liaison plane endlessly making its turns overhead reports the enemy's main body—about a hundred men—in flight across the fields. . . . 'We catch a few of them

every time, and a lot of them every third or fourth time,' says the helicopter pilot philosophically. . . . 'anyway I guess that Communist provincial commander will have to find himself a new command post after this day's work; and when he does we'll go get him there.'" (Washington Post)

BOLSTERING THE THAIS — "Thailand, depressed during the last year by the failure of the United States and SEATO's other allies to take a firm stand against Communist forces in neighboring Laos, has been reassured as to her security. In a declaration made jointly with Thailand's Foreign Minister, Thanat Khoman, Secretary of State Dean Rusk has reaffirmed SEATO's treaty pledges that 'the United States regards the preservation of the independence and integrity of Thailand as vital to the national interest of the United States and to world peace.' The Secretary said that American obligations to assist Thailand in case of Communist armed attack would be observed irrespective of whether there was prior agreement or fall other parties to the treaty. . . ." (N. Y. Times)

SATURN'S TRIUMPH — "The second launching of Saturn at Cape Canaveral has been successful

enough to justify complete confidence in American rocketry. . . . Although it will not be fully operational until late next year or early 1964, its capabilities—including the capability of sending a 25-ton manned mission to the moon with a projected advanced version five times as powerful—are self-evident. Our country is really going places in the high heavens." (Washington Star)

THOUGHTS FROM GENERAL CLARK — "Gen. Bruce Clark, Commanding General of all U.S. Armed Forces in Europe, is not an individual to leave any situation for chance. To keep his forces alert and thoughtful he has prepared 2,000 posters, which are distributed throughout Europe. The poster, in red and black shows at the top a section of the Berlin wall and a Soviet guard tower and the charged barbed wire strung along the iron curtain. It asks 'WHY?' and 'Have you ever wondered?' Why must the Communists build walls and fences to keep people from fleeing the land where they were born? . . . Why despite these wall and fences and guns have over 4,000,000 left their homes, property and friends and risked their lives to escape in the past 15 years?"

Money may still talk, but most of us can't get within shouting distance of it today.

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WSMR Future Is Bright Says Shinkle

(Continued from Page 1) at Cape Canaveral and the Pacific at Point Mugu—move into heavier ICBM and space vehicle launching, White Sands will face an increased tempo in specialized tests of systems like Sergeant and Pershing," he said.

"Such testing might conceivably carry us into a greater program of extended range testing similar to that conducted by the Air Force

several years ago and the Defense Atomic Support Agency's Project Banshee launched from Hobbs and to White Sands."

Plans Await Approval
Gen. Shinkle, who was graduated from the U.S. Military Academy in 1933 and has held his present assignment since June of 1960, is borne out in his optimism by plans for extensive construction at WSMR during the next two years. The plans are awaiting approval at various levels.

Two of the most likely construction projects for fiscal year 1963 (which begins July 1) are a \$1,878,000 U. S. Army health facility and a \$1,456,000 nuclear effects laboratory.

Even bigger plans are in the works for the '64 fiscal year, including an additional water supply and storage

system for the main area of WSMR, a missile geophysics laboratory, more range instrumentation and a power facility expansion.

A planned increase of approximately \$8,500,000 in the Army budget for White Sands in FY '63 also is significant. The current year's Army budget is around \$68,000,000, while next year the figure is being programmed at \$76,500,000.

Big Figures
When the wages portion of this Army budget is added to the wages of personnel of all services and contractors using White Sands Missile Range, the sum is an estimated \$100,000,000 in salaries being spread annually over El Paso, Las Cruces, Truth or Consequences, Socorro, Carrizozo, Tularosa, Hatch, Alamogordo and other areas.

While these figures do not

at this time indicate a sudden boom in facilities or personnel, neither are they an indication of any decrease in the work force, which has remained constant over the past four years.

As important to the growth of the range as new and exotic programs are, current missions also are vital to the future of White Sands.

One such program, of course, is Nike Zeus, the Army's anti-missile system also under testing at Point Mugu and Kwayalein Atoll in the mid-Pacific.

Extensive White Sands testing still is to be done

throughout coming years on this system, particularly the Zeus discrimination radar and the Zeus Multi-function Array Radar (ZMAR).

The inherent advantages of an all-land missile range—precision and concentration of the optical and electronic instruments required to support missile tests—constitutes one of the considerations which dictate continued use of White Sands for test and development of Army, Navy, and Air Force missile systems.

Also important to WSMR

are potential roles for the missile range which center about support of the nation's space endeavors.

Vital but relatively unheralded work in support of the space efforts has been conducted at White Sands al-

most since the birth of the range in 1945.

Present research activity is being conducted by the Air Force at its Holloman facility on the east-central edge of the range, and one Project Mercury tracking station here

and another at Corpus Christi, Tex., are operated by the range for the National Aero-

navics and Space Administration as part of the worldwide tracking network.

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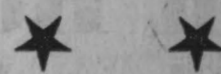
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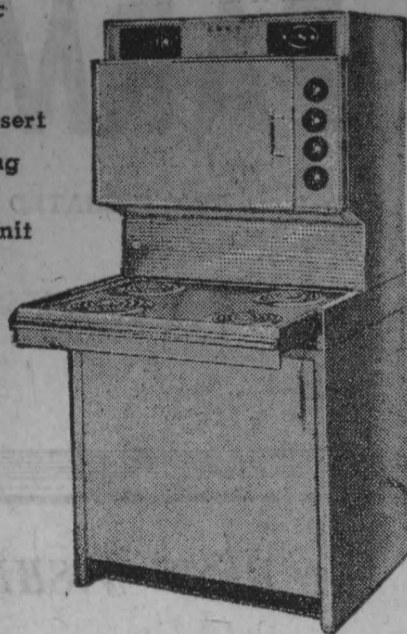
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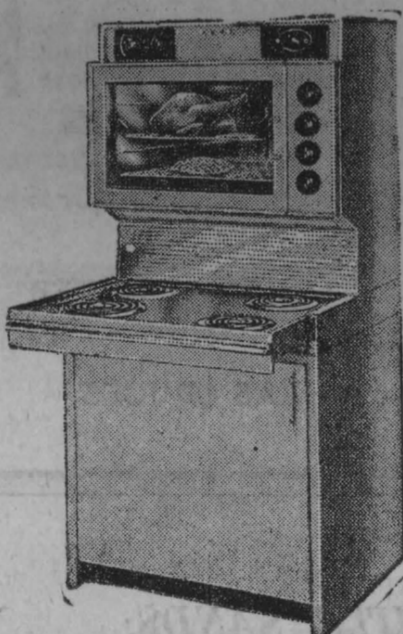


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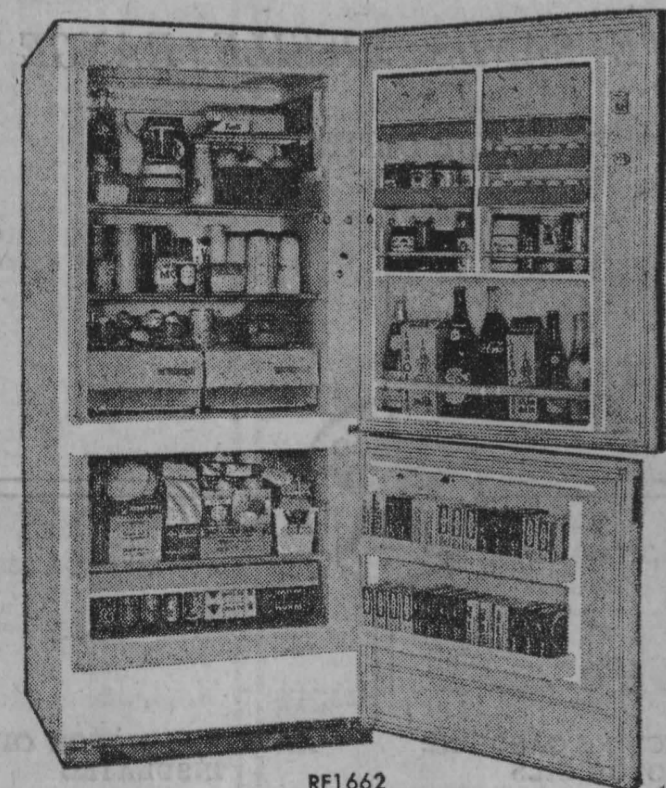
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Double your money back if this paint doesn't perform as stated. Use on siding, shakes, shingles, trim and clapboard.

Reg. 7.32

\$6.49 GAL.

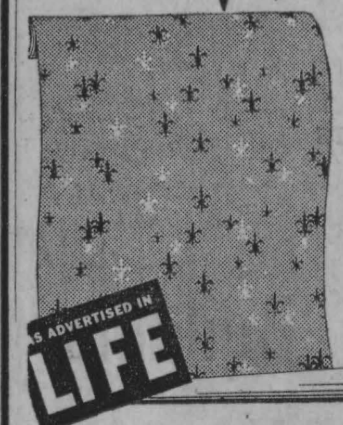
Pro-Sheen Vinyl LATEX

For walls, ceilings and woodwork. Dries in 30 minutes with no odor. Reg. 5.17 \$4.19 GAL.



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The loveliest of all wall coverings is now more practical than ever. New pre-pasted "Match-Maker" patterns in play-proof Wall-Tex feature matching fabrics for draperies, slip covers and plastic shower curtains. And pre-pasted Match Makers in Wall-Tex are so easy to hang. Simply moisten the back, press in place and smooth. It clings evenly, firmly, lastingly. Visit our display today and discover these exciting "Match-Maker" patterns by Wall-Tex.



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The House of Color LAS CRUCES, N. M.

Bang-Up Show On Tap For Visitors

(Continued from Page 1)
WSMR's Countdown Service Club, will be master of ceremonies for the shows. Featured entertainers will include Pvt. Steve Brainard, a professional folk singer; the Blue Grass Singers — Pvt. Brainard, S/Sgt. Gilbreth E. Ruble and Pfc Joseph Smith; the male quartet—Lt. Spence, Pvt. Jay Huling, Pvt. Glenn Gray and Pvt. Jack Puschinsky.

Parlante, vibes. This group plays East Coast style, and has been selected to represent WSMR in the forthcoming Fourth Army Entertainment Contest.

The Blue Grass Singers specialize in authentic Blue Grass music right out of the heart of Kentucky, and entirely different from hillbilly and Western music. The boys play their own accompaniment, Pvt. Brainard on the banjo, Sgt. Ruble, guitar, and Pfc Smith, mandolin.

The quartet sings Barber-shop and "pop" with Lt. Spence and Pvt. Puschinsky taking the tenor, Pvt. Huling,

bass, and Pvt. Gray, baritone.

A radio personality from El Paso, Don Kirkpatrick, assistant program director for KROD Radio, will be master of ceremonies at other shows during Armed Forces Day activities at the nation's busiest and best instrumented all-land missile range. Kirkpatrick, who will be on a one-day "hitch" in the Army—put on active status that day by his unit, the 8th U.S. Army Corps in which he holds the rank of second lieutenant—will emcee the sky diving, missile fire-fighting, modern missile mobility, and actual missile firing demonstrations.



SWINGER — Although a newcomer to the Hollywood sets, Ann Margaret dances also sings and acts.

Service Club

Tonight at 200 hours, airing will be swining out at Countdown Service Club with the El Paso USO girls as hostesses. Music will be provided by the 14-piece "Wings of Swing" from Holloman AFB. Dress is coat and tie or Class A uniform.

Military Leaders

Send Messages

(Continued from Page 1)
pends in large measure upon the maintenance of a modern, efficient military establishment enjoying the support of all our people. On this

Armed Forces Day, therefore, I urge that all Americans take advantage of this opportunity to visit nearby military installations so that they may see for themselves what is being done to protect our heritage of freedom.
—Adm. A. C. Richmond
Coast Guard Commandant

*Thanks WSMR Personnel
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GREETINGS TO WSMR

on Armed Forces Day

from

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WHITE SANDS

on Armed Forces Day

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Sun Kings To Honor Armed Forces Day

Two long-standing rival baseball teams—the El Paso Sun Kings and Albuquerque Dukes will play a special Armed Forces Day game at 2000 hours, Sunday 20 May. Game proceeds will go to the Armed Services YMCA fund. Admission to this Class AA Texas League game will be half price to all military personnel and their dependents. Special half-price box seat rates are now being offered at Special Services for only \$1.00.

For the first aircraft delivered to the Army Signal Corps Wilbur and Orville Wright received \$30,000 — \$5,000 more than the initial quotation. They received the additional \$5,000 for their in-

centive in exceeding contract requirements.

The plane, which averaged 42 miles per hour, remained in the air 13 minutes longer than the specified 1 hour period. Had the plane failed to hit a speed of 36 miles per hour, it would have been rejected.

Department of Defense offers the same type of incentive contracts today that the Wrights received way back "when."

POWER FOR PEACE



Best Wishes

to
White Sands
from

PONCA
WHOLESALE
MERCANTILE

CO.
LAS CRUCES

Bowling Tournament Set At Midway Lanes In Las Cruces

Midway Lanes, located in the Midway Shopping Centre, Picacho and Main street, Las Cruces, is accepting entries for the first annual elimination tournament in conjunction with the National Open League Bowling Association. This event will be a Singles event divided into two classes: class A will consist of bowlers averaging 175 and up while class B will be bowlers averaging 174 and under. Handicap will be 2/3 of 200 and averages as of Jan. 30, 1962 with at least 15 games will be used. Any bowler wishing to enter who does not have an average this year may use last year's official average or must enter with 190 if he does not have a current average or one from last year.

The tournament will be held during June, July and August in Las Cruces and during September the finals will be held in Albuquerque at the Holiday Lanes. Entries will close on May 6 at the

Midway Lanes and then the entries will be sent to Albuquerque where the official committee will make the pairings. Elimination at the City level will be single elimination and at the finals it will be double losses to drop you out. Entry fee initially is \$4.15 and the cost for every time you win and bowl again is \$1.50.

This tournament is the same as the one currently on television whereby you keep bowling as long as you defeat your opponent. For you bowlers in Las Cruces and at

White Sands Missile Range this is the kind of bowling you all enjoy. There is no high scores to beat, no one is allowed to enter more than once and one defeat and you are out.

Entry blanks are available at the Midway Lanes. Drop in and ask the desk man to enter your name. Don't forget entry deadline is midnight, May 6, 1962.

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Las Cruces

Friday, May 11, 1962 — WIND & SAND — 5

NMSU Nine At Tempe

It's last call for the baseballers at New Mexico State as the Aggies close their season with a two game series at Arizona State University Friday and Saturday, May

11-12. Coach Presley Askew's charges will take a 11-12 record into the games. Last week end the Aggies split with University of New Mex.

Thanks White Sands!

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Custom Royal a sharp Yellow or Black
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Real Economy
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Fairlane, Automatic, Radio
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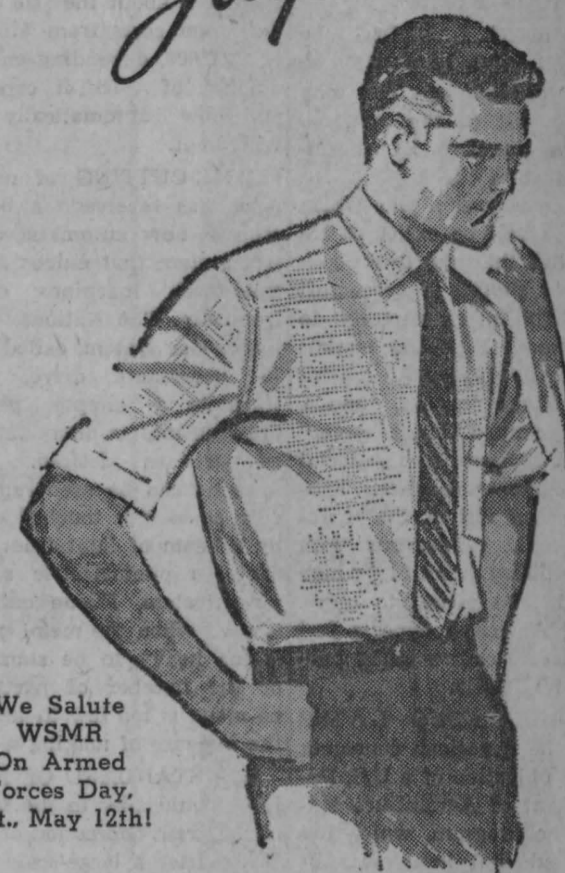
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The coolest wash/wear shirt of the season

Stayrite of all combed cotton in a skip-dent weave can be washed and dried without a wrinkle in sight. This amazing new shirt is tailored to perfection in the Bruce, Free and Olin collars, and half sleeves. \$4.50

For men on the move—the exclusive SLEEP PAK

Matching pajamas and robe set

by *Jayson*



\$11.50

Here's a brand new smartly styled Sleep Pak which features an ensemble of short sleeved, knee length pajamas and a full length robe. The set is tailored of handsome embossed cotton which requires little or no ironing. Each set is individually packaged in a smart zipper case.

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SCIENCE TOPICS

AMERICAN MAY BE ON MOON BY 1966

A MOON LANDING by the U.S. might be possible as early as 1966, says Dr. John C. Houbolt of the National Aeronautics and Space Administration (NASA). Dr. Houbolt suggests a plan which he says will be easier to accomplish than the usual concept of shooting a spacecraft from the earth directly to the moon: A space vehicle would be placed in orbit around the moon and a small manned "lunar lander" would separate and descend to the moon's surface. Mission accomplished, the "lander" would rendezvous with the orbiting craft which would then return to earth. Some American experts feel this is the course being pursued by Russia.

POPULARIZING LAMB with the American consumer is the objective of a U.S. Department of Agriculture study. The program, which has revealed that lamb gets its characteristic flavor from the fat, hopefully will show the way to enhance or modify the taste... TAKE A CARD, any card; a new information storage system has half a million in its "desk." It requires an average of only 20 seconds to bring any one of them to view among the 500,-

000 microfilmed pages. The system is about the size of a desk and costs from \$15,000 to \$300,000, depending on the amount of work it can do and how automatically it will do it.

FLAME-CUTTING of metal parts has received a boost with a new automatic control system that guides multiple-torch machines electronically. The National Cylinder Gas system, called the X-coordinate drive, can translate a simple pencil drawing into as many finished parts as desired. The drawing can be used repeatedly since it is touched only by a beam of light from the control's photoelectric scanning system. Flame cutting is used when the metal plate is too heavy to be stamped or the number of parts to be made is too few to justify the expense of making a die.

U.S. STANDARD OF LIVING would sink to the level of the great depression of the 1930's after a large-scale nuclear attack, according to the National Planning Association. But, the group added, the nation would be off its knee again within months if a well planned recovery program were put into effect immediately.

NILE CROCS have rocks in their bellies. This informa-

INVESTIGATE BEFORE YOU INVEST

In order to take the sting out of retirement and to whip the ever-present risk of inflation, all members of the Armed Forces should have an investment plan geared to their families' financial situation and needs.

Not everyone is in a position to invest nor should anyone invest blindly, for there is a certain amount of risk whenever money is put to work. Most assuredly there is risk in investments and the nature and extent of that risk should be understood before embarking upon an investment program.

Shares of stock are evidences of ownership in a company or corporation. Therefore the basic risk of all stock is the risk that is inherent in ownership. If the business and earnings of a company or corporation increase, the dividends paid on its stock can increase and stock may rise in value. Conversely, if a company or corporation has not been successful because of poor management or other reasons, its stock can decline in value and ultimately become worthless.

There is also a very common risk to which stock ownership, even in our largest and strongest companies, is subject. This is the risk of price fluctuation. Prices of shares of stock are seldom constant. They depend upon what the buying public is willing to pay for the shares at the time. The real significance, to the investor, of these fluctuations in the prices of stocks of strong successful companies, is the possibility of needing money for an emergency. When that happens the investor may have to dispose of his stock holdings regardless of the current prices. Therein lies the first rule for the member of the Armed Forces who aspires to be a wise investor—i. e., be sure to have sufficient cash or its equivalent readily available to take care of emergencies. Then you will not have to sell your stocks, regardless of price, in order to raise funds for the emergency. Secondly, tailor your investment in securities to the amount of risk you can afford. Thirdly, obtain all the facts before you invest. Do not buy on tips or rumors. Lastly, obtain good advice from a broker (registered representative) who is affiliated with a reputable investment firm. Such firm would probably be a member of the leading regulated security exchanges, and maintain a good research department. It would also have a history of conservative and dependable business dealings.

There is really only one thing an investment firm has to offer and that is service. Much of this service should be in the form of good advice and counsel. Members of the Armed Forces, due to the nature of their occupation and the many changes in assignment and station all over the world, require a special investment service geared to their particular needs. If the investment firm contacted is not equipped to provide this type of service, shop around until you find one that does have what you need.

Keeping in mind the four cardinal rules for investing cited above, locate a registered representative to your liking who fulfills the foregoing requirements. Then provide him with sufficient information about your investment objectives, your income and your financial responsibilities, so that he may be in a position to give the service you require and deserve.

Information comes from the Zoological Society of London, which reports that the beast swallows about 10 pounds of stones. Reason? Crocodiles are top-heavy and wallow in water like empty cargo ships. Stones act as ballast.



CHOPPER SPOTTER — Stunning Carole Jason, USO dancer in the "Wake Up and Smile" troupe entertaining servicemen in Alaska and the Pacific, is credited with spotting a downed helicopter in Alaska. Carole and fellow entertainers were being flown between two Alaskan bases when the pilot was notified of a missing chopper. Carole reportedly made the first sighting and received congratulations on her good looking from the Commander of Elmendorf AFB, Alaska

Trip of the Week

(Editor's Note: This is the first of a series of articles outlining one-day or weekend trips in New Mexico in order to familiarize residents of the state with the many scenic areas in the Land of Enchantment. These stories will help New Mexicans explore their home state, one many others travel thousands of miles to see. The material was prepared by the Tourist Division of the State Department of Development.)

SILVER CITY

SILVER CITY, N. M. — Located in the southwest quadrant of the state, at the junction of U.S. 260 and State Road 180, is the beautiful and historic town of Silver City.

Nestled in the foothills of the Pinos Altos Range, an extension of the Mogollon Mountains, Silver City today is the County Seat of Grant County, and a very important railroad point for ranchers, farmers and mining companies.

Modern, progressive, with a population of nearly 8,000, Silver City has come a long way since it was founded in 1870, when it was a Spanish settlement called San Vincente de la Cienga (St. Vincent of the Marsh).

WAS BOOM TOWN

With the discovery of rich lodes of silver on nearby Chloride Flat, Silver City became a bustling mining boom town. But along with the "boom" came trouble.

Apache raids on the community were a constant threat, as were dregs of society that flocked to profit off every boom town and its "struck it rich" residents.

Such desperados as "Butch" Cassidy, "Doc" Holliday, Johnny Ringo, Wes' Hardin, visited the town at one time or another, and Billy The Kid, New Mexico's Notorious young outlaw killed his first victim with a knife on a side street in 1869. Today, on the outskirts of the city the grave of Katherine Antrim, Billy's mother, is marked by a simple headstone—revealing she died in 1876, at 45, five years before her son was killed by Pat Garrett.

The old Territorial Legislature granted Silver City its charter of incorporation as a municipality in 1878, and it's interesting to note that the city still operates today under this charter as its basic law. Twelve miles south of Silver City, on State Road



180, is Tyrone, the million dollar "Sleeping Beauty" deluxe ghost town, owned by Phelps Dodge Corporation. Built in 1915 to be the "ideal mining town," with everything from a \$100,000 post office to ornate marble drinking fountain—Tyrone capitulated and was left almost vacant when the rich silver lode ran out. Now it stands as a tourist attraction for all to see.

Sixteen miles east of Silver City, on State Road 180, is the open-pit Chino Copper Mine at Santa Rita. This is the third largest open-pit copper mine in the United States, and offers visitors something extra in spectacular and interest.

Six miles north, on State road 25, is Pinos Altos, the first county seat of Grants County and site of an early gold rush. Now the community is all but deserted, though it is still possible for the amateur prospector to pan a bit of gold there.

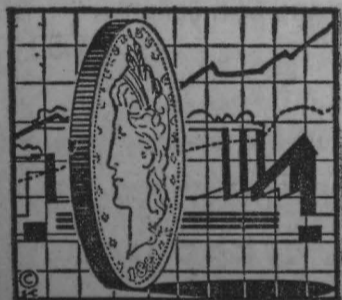
ROCKS STATE PARK

Twenty-five miles south, on U.S. 260, and five miles east, is City Of The Rocks State Park. Here, strange formations of rock, caused by wind and erosion over the years, form a weird and spectacular phenomenon to see and photograph.

And north, on State Road 25, via a winding mountain road passable only with a jeep or pickup, is the Gila Cliff Dwellings, truly a wonderous, breath-taking spectacle for the adventuresome.

Accommodations are plentiful in Silver City. And for those who care to "pack in" to the Black Range and Gila Wilderness area, there are guides to be hired who complete all arrangements.

Silver City, both modern and historic, should be a definite must-see on everyone's Trip of the Week list.



BUSINESS Review and Forecast



Civil Service Exams Offered

The U. S. Civil Service Commission announces examinations for Dental Hygienists at \$4345. per year. Qualified applicants will receive considerations on future vacancies in the El Paso, Texas area.

Applications may be obtained from the Executive Secretary, Board of U. S. Civil Service Examiners, Blumenthal Building, El Paso, Texas or from most post offices.

BRIGHT FUTURE

The man who keeps facing the sun is in a position to have all the shadows fall behind him.



BUSCH'S BAKERY is one of the most "tantalizing" spots in town. The delicious odor of fresh baked breads, cakes and cookies, mixed with brewing coffee, acts like a magnet to shoppers in the Triangle Shopping Center in the 2100 block of North Main. Busch's also take orders for wedding cakes and party delicacies.

Busch's Bakery Specializes In Fresh Dutch Oven Bread

Busch's Bakery, located at 2113 North Main in the Triangle Shopping center, specializes in their famous dutch oven bread, which has a hard crust and a soft inside. The large round loaf tastes homemade, as do all the breads at Busch's.

Besides the dutch oven bread, doughnuts and cake decorating are specialties at Busch Bakery. Bill and Loretta Busch can do all kinds of decorating, but they are especially good at wedding cakes. They decorate to order.

The list of baked goods turned out at Busch's is a long one, full of variety, and

includes such treats as pies, sweet rolls, coffee cakes, cookies, dinner rolls, all kinds of french pastries, and of course, the breads, cakes, and doughnuts. They make all kinds of cookies, and each kind is only 35c a dozen.



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The assortment of breads available at Busch's is amazing. They bake, besides the dutch oven round loaf, butter crust bread, salt rising, french, cinnamon, date, rye, black german rye, whole wheat, and cracked wheat.

Inside the bakery is a coffee shop to give customers a pleasant break from shopping.

Bakers at Busch's are Bill and Loretta Busch, owners, Ronnie Busch, their son. Bill

and Loretta do all of the decorating.

Bakery hours are 5 a.m. to 7 p.m. every weekday. They are closed on Sunday.

Busch's Bakery will feature special decorated cakes, cookies and delicacies for Mother's day. Let Mrs. Busch help you plan your Mother's day surprises.

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Betty Stoess - 6-2246
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Save Uncle Sam's Money, And Earn Money Yourself

A suggestion that saves thousands of man hours and dollars in building meteorological rocket nose coen instruments and a suggestion that could save lives have brought cash awards to employees of the U.S. Army Signal Missile Support Agency.

Eight other awards were included in a ceremony conducted by Lt Col Glenn A. Welde, Deputy Commander of the Signal Missile Support Agency.

Norman J. Beyer of the Missile Meteorology Division received \$235 for his development of a plastic spray coating for the gamma temperature sensing device used in the nose cone of the Arcas meteorological rockets fired by SMSA. The protective coating replaced a costly aluminum coating method.

Everett G. Vickrey of the Range Radar Division was awarded \$200 for suggesting the use of a safety key to be used by personnel working on the roofs of the FPS-16 radar buildings. Technicians are guaranteed protection while working near the radar dishes.

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Department.
Cash awards and certificates went to Frank Ontiveros, Marcos Ortiz, Wyndell E. Haynes, and Warren Yell of the Pictorial Division; Howard S. Geale and Herman M. Rosenbaum of Logistics Services Department, Donald J. Larkin of Range Radar Division, and Charles Winebarger of Range Communications.

Logistics Department received a letter of appreciation. Even in the days of prohibition there was always trouble brewing.

Alfredo Ortega, Jr., of the

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SAVE SAM'S MONEY—The Army shows its appreciation for money saving suggestions and to Kenneth B. Bellinger for sustained superior performance. The awards were among 10 presented. (See Story) (U. S. Army photo by Robin Brown)

Logistics Department received a letter of appreciation. Even in the days of prohibition there was always trouble brewing.

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French Class To Be Offered Solider Of NMS Staff To Teach

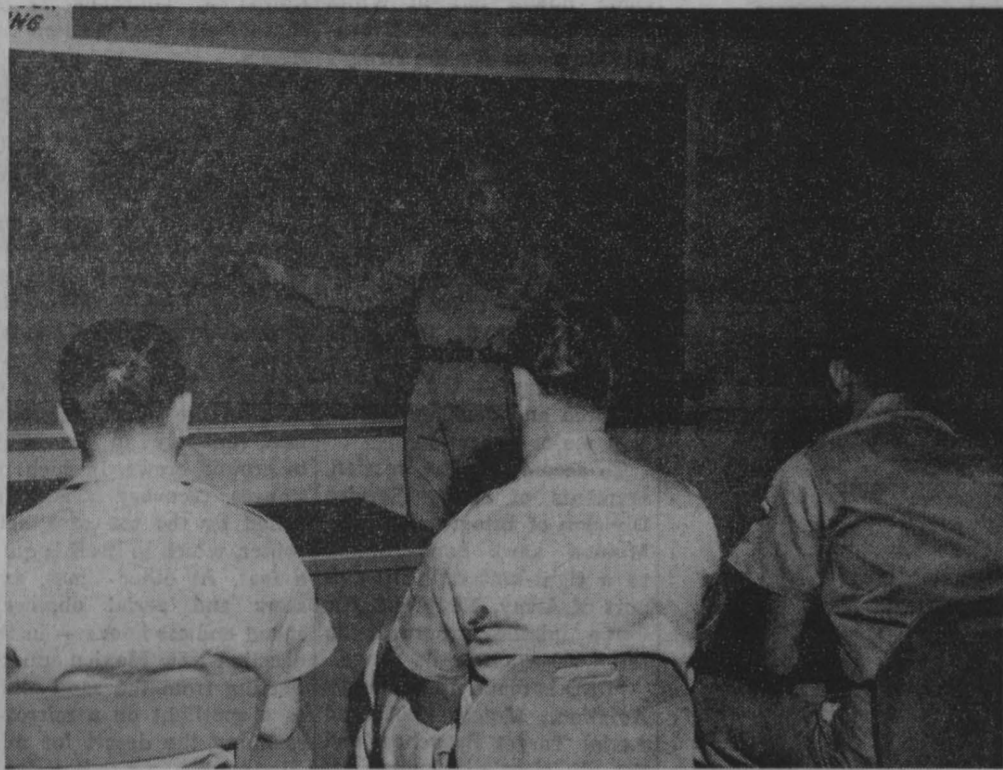
Sp4 Robert L. Doherty, a recent addition to the New Mexico State University faculty, will be the instructor of the on-post French language class to be offered by the Army Education Center. The class, French 111, Elementary French I, will be offered during the Summer Semester, and is open to both military and civilian personnel.

Bob arrived at White Sands Missile Range in January of last year and was assigned to Hq & Hq Co., SMSA.

Prior to his entry into the service, he attended Northwestern University at Evanston, Illinois, and graduated with a Bachelor of Arts degree in French.

Bob was awarded the coveted Louis H. Hulwald Foundation Scholarship, a grant of \$6,000; and high scholastic achievement led to his appointment to the scholastic honor society Phi Eta Sigma during his first year of study at Northwestern.

Under the tutelage of the distinguished Alphonse Roche, Ph. D., head of the University French Department, he became a University language tutor. In addition to French, Bob is fluent in several other languages including German, Portuguese, Italian, and Spanish. He also has studied Russian, Swedish,



SOLDIER INSTRUCTOR—Sp4 Robert Doherty instructs a French class the Army Education Center here. Northwestern University graduate Doherty will teach the course during the Summer Semester held here on post.

(U.S. Army photo by Marcos Ortiz, Civ.)

and Polish.

Bob served as President of Cercle Francais, the University French Club. The club, comprised of French language students, met to discuss and seek better understanding of the language and culture of the French speaking people. He also served as

President of the University French Society and the Treasurer of the University Spanish Club.

To help finance his education, Bob worked as a singer with a South American Combo, a group of University students. They called themselves Los Embajadores (The

Ambassadors). The group made many professional appearances in Chicago, Mexico, and Cuba.

Recently Bob was selected for language training at the Army Language School, Presidio of Monterey, California. He plans to study the Arabic language.

Missile Range Fire Department Has Fine Record, No Loss Of Life Due To Fire In Over 15 Years Of Service

Whether battling a blaze started by a missile explosion or checking private homes to guard against fire hazards, the White Sands Fire Department is building a record it can be proud of.

In the 15 years the overland missile range has been in operation, there has never been a single instance in which human life was lost due to a fire.

And this record is made doubly impressive by the fact that the WSMR Fire Department must cope with the hazards of high-performance fuels, oxidizers, chemicals and electronic instrumentation used daily at the hemisphere's largest all-land missile range.

It is at White Sands where missile fire fighting techniques and equipment have largely evolved. The estimated 2,000 missile firings annually at WSMR make such development necessary.

Knowledge gained at White Sands has been utilized in instruction and training programs for firemen at WSMR's sister national missile ranges, the Atlantic at Cape Canaveral and the Pacific at P. Mugu, Calif.

Operating on the proverbial premise that prevention is better than cure, he WSMR

Fire Department relies on up-to-date training of its 60 employees.

When a new missile is being test-developed at White Sands, the missile firemen are thoroughly trained in the missile's characteristics, including fuels and oxidizers.

Practice fire exercises — complete with missile parts burning in a dummy missile — also are frequently employed. Such exercises permit firemen to keep in practice with their eight fire trucks, each weighing 18 tons and carrying 200 gallons of foam and 950 gallons of water.

On top of each of these specially-designed vehicles are turret nozzles capable of throwing 1,500 gallons of foam and water per minute, with a pressure of 300 pounds — on any fire.

All trucks are equipped with self-contained breathing gear, which enable firemen to enter smoke-filled areas, and protective clothing for close-in fire fighting.

Still another precaution is the department's practice of standing by — with complete equipment and personnel — during all missile fuelings, defuelings and firings.

And, of course, there are regular checks for hazards in



MISSILE FIRE-FIGHTER—Fire fighters of White Sands' Fire Department move in to fight a missile fire. In the background are two specially-designed and built missile missile fire fighting trucks, each carrying foam and water. White Sands has specially-trained firemen on alert around the clock to fight missile, building and any other type of blaze at the 4,000-square-mile missile range. (U.S. Army photo by Marcos Ortiz, Civ.)

the working and living areas. This in itself is a major task, as there are 20,000 persons living within the WSMR community.

If the regular fire fighting force should ever need help in a hurry, 20 soldiers and 20 civilians are constantly standing by. In addition, medics and military policemen — who keep in touch

via an open two-way radio frequency — answer all fire calls in case their services should be needed.

And just as the White Sands Fire Department is ready to accept help whenever necessary, it also is prepared to offer all possible assistance in the event that a major blaze should ever break out in the many cities

and military installations surrounding the 4,000-square-mile missile range.

One veteran White Sands fire fighter put it this way: "We're proud of our safety record here at White Sands, and we want to see it continue its growth."

"If fires could be prevented by human determination, we'd have it made."

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Ordnance Mission Closest To Actual Firing Of Test Missiles

Every division or office on the range has a necessary mission to perform, but those employed in Ordnance Mission, (OM), are closest to essence of the necessity for the Range. For, the purpose of the Range and the mission of OM are the same: To Test Missiles.

In the sub-divisions of OM, testing programs are in progress on missiles and families of missiles. Each missile generally is subjected to three test programs.

First: the Development Test Program which is performed by a development agency under a test plan approved by Army Ballistic Missile Agency or the Army Rocket and Guided Missile Agency. During the development testing phase White Sands Missile Range supports the development agency as they require and facilities permit.

Second: Engineering and Evaluation tests are performed under a test plan approved by the Army Ordnance Missile Command. The purposes of these tests are to determine that the missile system will meet all the military characteristics required of it and to determine the limits of performance of the system.

Third: User Tests, which are performed on the missile or missile system by the people who will use them. Guided missile user tests are performed by an Army Artillery Board operating under direction from Fort Sill while

the surface to air missiles are User Tested by an Artillery Board from Fort Bliss.

Experience and science has greatly reduced the costs of these tests programs at WSMR. By integrating the above testing programs, several objectives can be met with the firing of only one actual round.

At the same time, mathematicians here have developed the state computer analysis to the point where missiles can be tested mathematically through several stages and then the results verified with data gathered from the firing of a single missile. Just as in a complex mathematical problem the answer checks only if it actually works. So it is in missile testing.

After a mathematical experience and methods have correlated with firing data it is possible to complete very cheaply on paper some tests that would cost a great deal in time and money to complete through firings.

In addition to the tests detailed above, subsequent tests are performed on the missile systems after they have been in the hands of the troops, and proof testing of industrial production is accomplished to verify that the missiles produced are of the same quality as the ones tested and accepted by the Army.

Environmental testing is also performed at WSMR to assure that the varying conditions around the world will not render ineffective, mis-

siles that test out perfectly in the desert.

Ordnance Mission employs approximately 1600 people in its sub-divisions and offices. Under Col. O'Connor's direction six offices and five divisions working together accomplish the many tasks of missile testing.

The Systems Test Division and The Warheads and Special Weapons Laboratory test the missile system as a whole.

The Electro-Mechanical Laboratories analyze and test the missile system elements and components. The Support Division performs the administrative and clerical work.

The Calibration Laboratory performs the vital function of checking for accuracy all of the measuring devices and scientific equipment associated with the testing programs. They in turn are calibrated by the Bureau of Standards.

Contracts Awarded

Six states were represented in recent equipment and service contracts totaling almost half million dollars awarded by White Sands Missile Range. They are California, Massachusetts, New York, Florida, Texas, and Colorado.

A breakdown by states shows that three contracts



TOURING THE RANGE—The Honorable David Chavez, Justice of the New Mexico State Supreme Court, toured the underground acquisition radar transmitter in the Nike-Zeus area at WSMR with Maj. Gen. John G. Shinkle, WSMR commanding general recently. Judge Chavez was accompanied by Mrs. Chavez, and Mr. and Mrs. O. M. Roessel of Las Cruces on a day's visit to White Sands. In addition to seeing missile sites, a firing and other range facilities, they toured the chapel, educational center, hospital and viewed the retirement parade. (U.S. Army photo by Warren C. Weaver, Civ)

went to Photo Sonic, Inc., of Burbank, Calif., for \$303,900 and to Ampex Corporation in Redwood City, Calif., for \$93,965. Others awarded were—Raytheon, Inc., of Newton, Mass., for \$14,675; RHG Electronic Lab., Farmingdale, N. Y., for \$10,800; Radiation Systems, Melbourne, Fla., \$17,700; Layne-Texas, Dallas, \$10,630 and the University of Denver for \$37,765. In addition, there were 17 smaller contracts amounting to \$84,617 and modifications to existing contracts for \$225,150.

Finding Missiles After Shot Is Sometimes As Hard As Firing

In this Space Age, what goes up mustn't necessarily come down, but at White Sands Missile Range, it usually does and it's the Army's job to find it.

Missile recovery, say the men who do it, is the most exhausting, exasperating and exciting and assignment in the U. S. Army. And, at the vast expanse of desert that is the nation's largest all-range missile center, finding and bringing in the spent missile or test item for scientific study — the basis of research and development — is a major operation.

To accomplish the mission, segments of Range Service Division of Integrated Range Mission work hand-in-hand as a tight-knit unit in support of Army, Navy and Air Force missile programs on the 4,000-square-mile range.

"RSD is made up of Range, Aviation, Motor Pool and Aerial Target Branches, and the divisions' primary responsibility is missile recovery," Lt. Col. Otto F. Thum, division chief, said recently. "Recovery branch is the prime element of recovery although, due to the size of the range and nature of work, its effectiveness depends on air support from Aviation and the Motor Pool Branch."

Recovery Branch is located at WSMR's main post with an operating section at Holloman AFB in support of Air Force missions, and a unit at Stallion Range Center, on the extreme north end of the range, in support of long-range missiles and objects dropped in the Stallion area.

Maj. Merle O. Blum is chief of Recovery Branch and Lt. Daniel J. Giordana is in charge of the section at HAFB.

Simply, missile recovery is finding and bringing back spent missiles and test items fired or dropped on the WSMR range. However, it is simpler said than done, and last year, division personnel provided recovery services for more than 2,000 missile firings—Army, Navy and Air Force.

Often, impact is atop or high on the side of a mountain, entirely inaccessible to ground crews. In such instances, recovery is accomplished by the use of a helicopter, which in itself is quite a feat. At other times, aviators and aerial observers spend endless hours — in the dazzling New Mexico sun reflecting from the sand much as a spotlight on a mirror—scanning the desert for missile-remains or vital fragments. Then, when impact is located, they lead to the site, ground crews who chug across pot-holed terrain and house-high sand dunes in four-wheeled drive vehicles. Many times, ground units must travel by foot to reach impact and carry out the mangled metal by litter.

When time is an element of recovery, air and ground crews are stationed at sand-by points near the predicted drop-area for visual observation of impact. This expedites recovery to the extent that some times have been returned to post in less than an hour after launch. Recovery personnel are

divided into teams, each with a leader and technicians as required by the mission. Assignments are made a day in advance from missile schedules sent out by the Range Scheduling Committee. Crews are given detailed briefings on type of missile, launching site, expected impact, and rendezvous-point with aircraft.

The number of men, equipment, type and number of vehicles and aircraft for a mission are determined by the type of missile or mission and the project's recovery requirements.

Final disposition of all recovered objects is determined by the firing agency. However, recovered items are usually returned to designated areas with a specific area reserved for classified material.

Crew leaders are responsible for equipment and vehicles needed for their unit's assignments, and for supervising work done by their men. At the end of the day, each leader reports to his recovery officer, giving pertinent information concerning the accomplishment of his assigned mission.

An aerial observer from Recovery Branch flies in each aircraft and is responsible for briefing the pilot as to the type of missile, predicted impact and pertinent recovery requirements.

Aircraft and ground crews keep in contact with each other—and with division headquarters and Range Control — by radio. However, in some instances, air crews (Continued on Page 13)

A Special Tribute To
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Personnel
on Armed Forces Week

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Hawk Puts Reputation On Line In Live Firing

Missilemen here will put their air intercept skills on the line when they shoot down a near-supersonic drone with a Hawk missile at the White Sands Armed Forces Day observance Saturday, May 12.

It will be the first time the Southwestern public has been permitted to witness a "live" ground-to-air intercept at White Sands Missile Range. The Hawk will be fully armed with a conventional warhead.

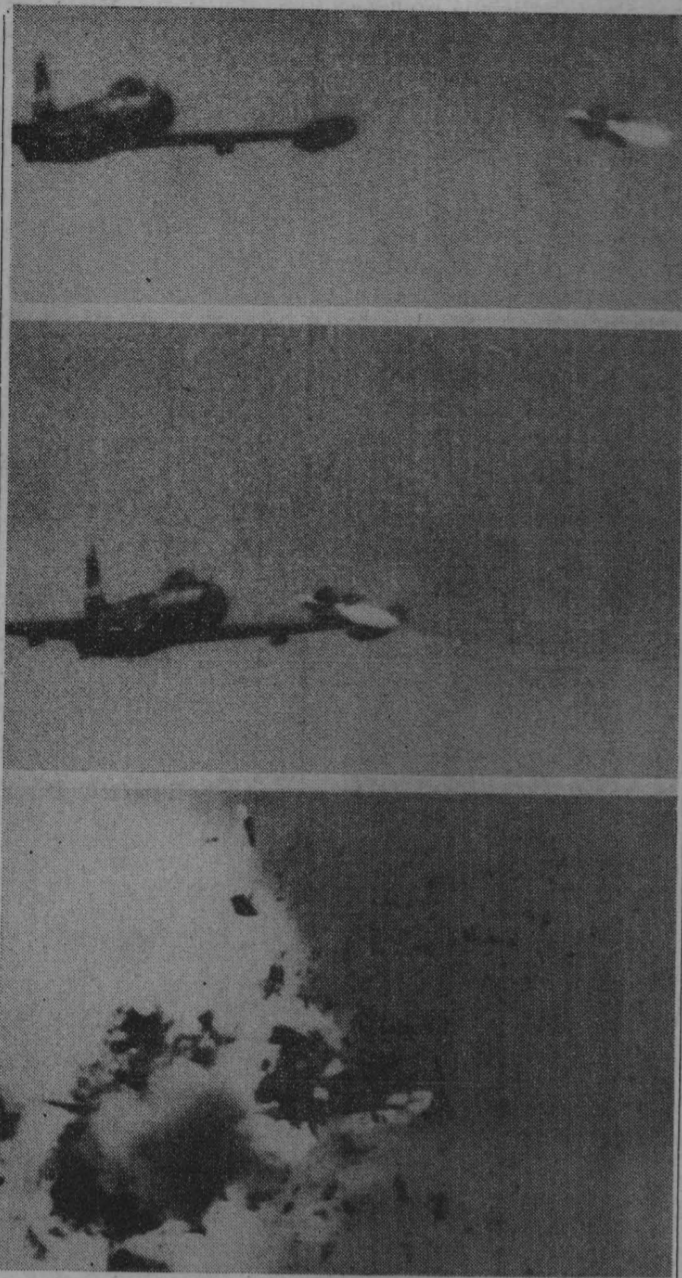
Altitude and point of intercept will permit the spectators the best possible view of the dramatic "kill." Armed Forces Day officials here have announced. It is scheduled for 11:45 a.m.

The target will be a Q-2-C drone of the Firebee target missile series. Firebee is one of the missile range's most versatile drone systems, with capabilities ranging from maneuverability to parachute recovery.

At White Sands, Hawk (Homing All the Way Killer) has intercepted targets at altitudes from less than 100 feet to about 40,000 feet. It was especially designed for its ability to engage aircraft at tree-top level. Although Hawk is no an anti-missile, it has successfully intercepted Honest John, Little John and Corporal missiles in tests.

Hawk already is in the hands of U. S. troops, who value the system not only because of its effectiveness but because it is highly mobile.

White Sands Armed Forces Day visitors also will see a snappy demonstration of



Hawk mobility, as three missiles are passed simultaneously from the transport pallet to the launcher.

Post Uses 4 Million Gals. Of Water Daily

With Summer well on its way, WSMR is preparing to keep its personnel as comfortable as possible.

PE's Utility Branch are seeing the needs of WSMR are filled. Over 4,000,000 gallons of water will be used each day in the coming months.

In 1948, the only water available (except scattered wells of low capacity), was that received in the scant precipitation of the region. This rainfall was (9-10 inches per year). The magnitude of today's operations is shown by some of the following data: Back in 1951 approximately 300,000 gallons of water were consumed daily by the Post. Today, 3,000,000 are used daily. During the summer months the water consumption is increased to 4,000,000 gallons daily. In the past we did not have evaporative coolers, lawns or swimming pools. Now we have vast expanses of landscaped lawns, swimming pools and many evaporative coolers for the morale and comfort of the Post personnel.

In 1955, the operations of the branch were extended to include the functions of Conditioning Services (vital to the missile work of WSMR). This includes the conditioning of shrouds (temperatures ranging from 85 degrees F to 175 degrees F. Conditioning Services provides the facilities for environmental systems (includes both high and low temperatures), fog, salt, dust, spray or humidifying, and research and development of the missile program.

High Pressure Air and Gas Unit of PE provides nitrogen, liquid oxygen and other fuels for testing purposes of the missile agencies. High pressure air up to 3500 psi is provided for missile testing. Testing of cylinders, change-out of systems, etc., are a part of the services as well as the provisions of helium for Air Weather balloons.

In addition to the missile requirements, this Branch is responsible for providing electrical services, heating services, refrigeration and air conditioning services to the housing area, Post area and laboratories.

POWER FOR PEACE



Civilian Leaders Speak On Armed Forces Day

The President has proclaimed that the third Saturday of each May shall be celebrated as Armed Forces Day and appropriate ceremonies, demonstrations, and displays held to increase public understanding and appreciation of the Armed Forces of the United States as defenders of freedom.

The support of an informed American people is increasingly important to the Armed Forces in these days of rapid technological advance, quick reaction time, and grave threat to our freedom.

I, therefore, encourage members of the department of Defense to observe Armed Forces Day by informing the American people of our "Power for Peace" and by confirming their faith that in our strength we will remain free.

—Robert S. McNamara, Secretary of Defense

Fully alert to its increasingly grave responsibilities as a key element of our Nation's deterrent and defensive strength, the United States Army is proud to join in demonstrating to the American people the capability of their Armed Forces to carry out their vital mission at this critical moment in history.

—Elvis J. Stahr Jr., Secretary of the Army

In terms of military power today, we have unequalled strength. Four fleets are at sea, with Marines embarked, ready to project the Navy-Marine Corps sea-air-ground team ashore, control the air around them, or contribute to any necessary retaliation measures. These task forces are mobile, self-sufficient, economical, versatile, and powerful.

Our total might is ready, today, while preparations continue for the challenge of tomorrow. The preservation of our freedom, the very survival of our Nation, is dependent upon our "Power for Peace."

—Fred Korih, Secretary of the Navy

The Department of the Air Force is proud of the contribution it has made to the team that is today helping to defend freedom against aggression. The personnel of the Air Force, civilian and military, commissioned and enlisted, have met the challenge to our



COL WILLIAM K. SKINNER
Commanding Officer, U.S. Army Signal
Missile Support Agency

principles of democracy with loyalty, devotion, and courage.

On this Armed Forces Day the United States Air Force asserts once again its determination to make whatever sacrifices may be necessary to help preserve freedom and peace and the security of the United States.

—Eugene M. Zuckert, Secretary of the Air Force

I am happy to join my fellow Americans on this Armed Forces Day in paying tribute to the men and women who serve our country in the uniforms of our military services. Their contribution to our freedom and safety is measureless. Our national security depends on the maintenance of alert military force, as a deterrent to a possible aggressor. It is fitting that we set aside this day to honor the men and women of our Armed Forces, and to recognize the loyalty and patriotism they symbolize.

—Douglas Dillon, Secretary of the Treasury



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CLEVELAND, O. — (NNS) — Army Air Defense Command's Cleveland defense has won the Air Force Strategic Air Command's radar bomb scoring effectiveness trophy.

of detecting, tracking and scoring SAC aircraft flying training missions. The Cleveland defense is manned by the Nike Hercules-equipped 3rd Missile Battalion, 65th Artillery, commanded by Lt. Col. William A. Burt. It is part of NORAD's guard against enemy bomber attack.

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ALAMOGORDO

Sec. McNamara Discusses Guerilla Warfare's Value

THE INTERNATIONAL SITUATION; HOW IT BEARS ON MILITARY POLICIES AND PROGRAMS

(From Secretary McNamara's Congressional committee testimony earlier this year)

We are well aware that the Berlin crisis is but another chapter in the continuing struggle between Communist imperialism and freedom. The forces of freedom and Communism are locked in an armed struggle over the future of South Vietnam. The sovereignty of Laos still hangs in the balance. The Communists have been seeking to gain a foothold in the Congo. Already they have secured a grip on Cuba, only 90 miles off our own coast.

Serious instability in other parts of the world may provide the Communist other opportunities to enlarge the area of the struggle. As we have seen in the past, the Communist are quick to take advantage of a breakdown of law and order in any part of the world. They are quick to identify themselves with any change in the status quo, and with any emerging threat to existing authority. One has only to contemplate the ferment which exists in many countries around the globe, including the Western Hemisphere, to appreciate the potential for new crises. Clearly, one of the major problems confronting this Nation and its allies is how to help safeguard freedom during a period of rapid and often drastic change in many parts of the world.

Secretary Defense McNamara On Guerilla Warfare

The problem is particularly acute in the emerging nations of Africa, the relatively new sovereignties in Southeast Asia, and in those nations in South and Central

America which are now and will be going through a period of great social reform.

Obviously, military power alone cannot solve all of these problems. Diplomacy, economic assistance, and ideological conviction all have their roles to play in the struggle to safeguard freedom. The principal purpose of our military program, including military assistance, is to deter the Communists from restoring to the use of armed force in seeking to achieve their objectives. Even here, the line of demarcation is far from clear. As we have seen in recent months, the Communists have stepped up what Mr. Khrushchev calls "wars of liberation" or "popular revolts" and which we know as covert armed aggression, guerilla warfare, and subversion. To meet this form of the Communist threat, new means must be devised.

Meanwhile we must continue to guard against general nuclear war and local wars which may escalate into

general war. These continue to be the most acute dangers to our national security and, indeed, to the security of the entire free world.

But our policy is not merely defensive. We need not and are not merely reacting to the Communist initiative. Our ultimate objective is a peaceful world in which every nation large and small is free to determine its own destiny. To this end we shall continue our efforts to achieve a safeguard system of disarmament or arms reduction. But, we shall not hesitate to take up arms to defend freedom and our own vital interests. We are resolved to continue the struggle in all its forms until such time as the Communist leaders, both Soviet and Chinese, are convinced that their aggressive policies, motivated by their drive to commuize the world, endanger their security as well as our.



We Would Not Be Defeated

From a speech delivered by the Hon. Robert S. McNamara, Secretary of Defense

We are marshaling the forces necessary to sustain our rights and responsibilities in any test of purpose, at any level of force force that may be called for. By building non-nuclear, along with our nuclear forces... we are broadening the range of weapons at our disposal in a contest initiated at a low level of violence. Our coordinated planning assures that the appropriate response, nuclear or non-nuclear, whatever best supports our objective, will be made promptly and in concert.

The United States prefers not to resolve disputes by violence. But forcible interference with our rights and obligations would necessarily lead to conflict, and in such conflict we would not be defeated.

Today we are strong enough to meet today's challenge. But the very fact that we are strong may put off the challenge to another day. The Soviets think that time is on their side. We believe otherwise. But meanwhile we cannot afford to lower our guard.

No Job Too Large Or Too Small

Need a job done on post? Well, the men who will undoubtedly perform the job will be men from Post Engineers' Buildings and Ground Branch. No job is too small or large for them to undertake. Missile launching pads to fences around your house are built by this branch.

The original carpenter shop in 1947, had just 18 people. Today, this branch has 385 craftsmen and mechanics working.

The workmen have constructed barricades at missile launching sites, missile launching pads, and prototype launchers.

They have constructed and erected towers for instrumentation on the range, from 20 to 90 feet high.

This work is accomplished while the routine maintenance and repair work is carried on the 1,895 buildings on the Post and the range from headquarters buildings, laboratories, offices, housing, schools, recreational buildings to the more primitive shacks which date back to the CCC.

ance and repair work is carried on the 1,895 buildings on the Post and the range from headquarters buildings, laboratories, offices, housing, schools, recreational buildings to the more primitive shacks which date back to the CCC.



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Holloman — Alamogordo — Tularosa

Finding Missiles After Shot Is Sometimes As Hard As Firing

(Continued from Page 10) utilize smoke grenades and flares in guiding ground parties to the impact.

"WSMR aviators do some of the most varied and rugged flying in the U. S. Army," said Capt. Myron R. Wilson, chief of the Aviation emphasized recently. "During the past year, we logged over 12,371 hours which included flights over water, desert, and in mountains with density altitude running near maximum for light aircraft operating during summer months."

In addition to missile recovery, Aviation Branch is responsible for administrative flights in direct support of range missions, photographic missions, search-and-rescue and emergency flights. In the latter two, the branch's area of responsibility includes New Mexico and eastern Arizona, and personnel and aircraft are used often in searching for lost aircraft, hunters, children, and in locating and checking forest fires.

"From the individual aviator's point of view, the normally unlimited visibility of the Tularosa Basin area is a welcome change from flying in other parts of the country. Seldom is a day's flying lost due to weather. And, one of the unit's most unusual missions was the recent recovery, with a H-37B helicopter, of a target-drone missile from a range lake with some four feet of water," Capt. Wilson said.

In keeping pace with missile programs that jumped from less than 1,000 firings in 1957 to more than 2,000 during 1960, Aviation's ca-

pabilities — during the same period — expanded from 14 aircraft, 11 aviators and 26 enlisted men to its present strength of 30 aircraft, 20 aviators and 65 enlisted men.

Aircraft assigned the branch include six-place liaison type L-23D's for cross-country trips in support of range missions; H-37B, twin-engine medium cargo helicopters; three-place H-23D recon helicopters; six-place L-20A liaison planes for cargo and administrative flights, and a two-place TL-19A instrument trainer.

The Branch's safety record might well be envied by any flying unit. During almost 10 years flying — the first Army aviators were assigned to WSMR in mid-1952 — and despite the amount and type of flying, only a few major accidents, with fatalities in two, mar the record. The branch has received several Army Ordnance Corps "Certificates of Merit for Safety" for having flown 2,500 consecutive accident-free hours. And, in 1956, pilots logged 10,000 hours without an accident.

The branch's maintenance section keeps up, inspects and services the aircraft and is due much of the credit for the outstanding safety record.

When explosives or hazardous materials are involved in a test firing, personnel form explosive ordnance demolition (EOD) section — a part of Recovery Branch — move in to impact ahead of recovery teams. And, after the EOD experts decontaminate or disarm the test item, they give an "all clear" signal to recovery units.

Recovery Branch is as-

signed some 50 motor vehicles ranging from quarter-ton jeeps to cranes and bulldozers. Division motor-pool personnel maintain and service these vehicles.

Safety and security are the "watchwords" in RSD. And, to keep personnel current on the newest developments in missilery and test items which they will be called on to identify and pick up on the extensive range each branch conducts its own training program.

Mobile T.V. Views Missiles

Anywhere on the range at White Sands, soldier-technicians of the Signal Missile Support agency supply the magic eyes of television for the men who are developing America's missiles.

Mobile television coverage is made possible by well-instrumented vans that transmit the picture by microwave radio relay to the receiving monitor screen.

A videotape recorder which records pictures on magnetic tapes in the van makes a permanent record of what the television camera saw for detailed analysis. This might be a missile launching or impact of any dramatic White Sands event.

Closed circuit television systems have been installed in areas dangerous for humans. Here the cold eye of television watches closely as missile motors roar in test stands, missile systems are tested in hot and cold chambers and propellants are mixed.

An automatic missile tracking system has been perfected that uses a television camera mounted on a radar set to follow missile flight without manual operation.

Television shows from El Paso are retransmitted for post residents by a station on Elephant Mountain.

Men & Means To Keep Up

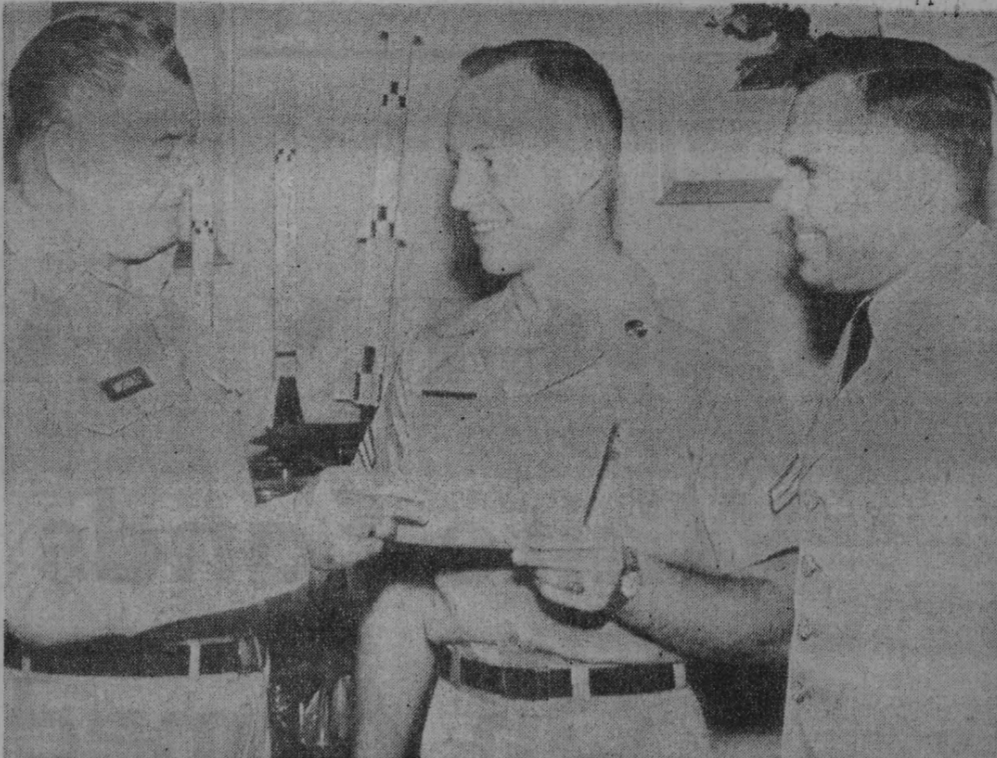
The basic task of the Army Signal Corps is to provide the means and the men needed to install and maintain the signal communications and electronic equipment which are essential to military command and control.

Principal element of the Signal Corps mission is to develop and procure communication, electronics, meteorological and photographic equipment, distribute it to the Army and maintain it; to install, operate and maintain the Army's communication networks; to train and provide Signal Corps specialists and units; and to perform photographic and meteorological duties.

Officers and men are train-

SOLDIER OF THE MONTH

Corp. Richard G. Rogers Is Honored for Superior Duty



SOLDIER OF THE MONTH—Lt. Col. William V. Nichols, left, White Sands troop commander, and Capt. Glenn W. Jones, right, detachment 4 commanding officer, admire the Soldier of the Month certificate just received by Cpl. Richard G. Rogers, Hopkinton, Iowa, from the commanding general at White Sands Missile Range, N. M. (U.S. Army photo)

For the second time in three months a military policeman has been chosen Soldier of the Month at White Sands Missile Range, N.M.

Corporal Richard G. Rogers of Hopkinton, Iowa, received the honor for the month of April for his superior performance of duty and soldierly conduct.

Rogers, who came to the missile range August 12, 1961, has been with the military police during his entire service obligation. He received his basic training at Ft. Hood, Tex. and military police training at Ft. Gordon, Ga.

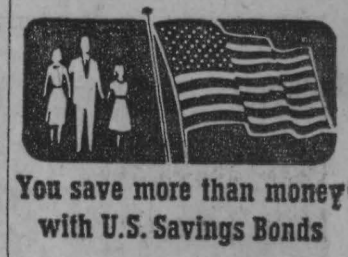
At White Sands he has maintained many jobs and become well known around the post by working as a messenger for the entire Provost Marshal division; as an escort for visiting VIP's, and as a clerk in the operations section of the Provost Marshal Office.

Before coming to White Sands, Cpl. Rogers was stationed at Ft. Wayne, Alaska, where he also was recognized for his outstanding performance of duty.

From his three years experience as a military policeman in the Army, he has decided to make law enforcement a life time career.

He is a graduate of Monti-

cello High School, Monticello, Iowa, and is the son of Mr. and Mrs. John A. Rogers, R. R. No. 1, Hopkinton.



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Lensmen Are Post Pioneers

The Pictorial Division of the Signal Missile Support Agency is trained to move in a hurry to meet the heavy demand for photography of White Sands Missile Range.

Operations are tailored to satisfy the rapidly changing and ever-growing requirements of the missile operations here. Personnel are trained in many different jobs, so that someone is available at all times to meet rush requirements.

Pictorial operations are housed in a modern, specially designed buildings covering 23,000 square feet. Set in the heart of the Southern New Mexico desert, the air in this building is conditioned and filtered to maintain a dust free atmosphere needed for photographic work.

A wide variety of still photographic services are provided, including black and white and color work, slide transparencies and photo murals. All types of professional camera and developing equipment are available. As a result it is possible for these technicians to deliver pictures of a missile shoot shortly after the firing.

The Motion Picture Branch is trained in all means of conveying information and intelligence — visual, from flags or lights to facsimile and television, and electrical. Military signalign utilizes all the means offered by the radiation spectrum, including infrared and radar.

has produced many documentary color films now in world-wide Army circulation.

Photographic engineering personnel use the media of the camera as a tool in the detection, recording, and measurement of scientific

phenomena of missile development.

Systems developed by these photo engineers range from boresight photograph of flying missiles to photo-recordings of oscilloscope signal displays.

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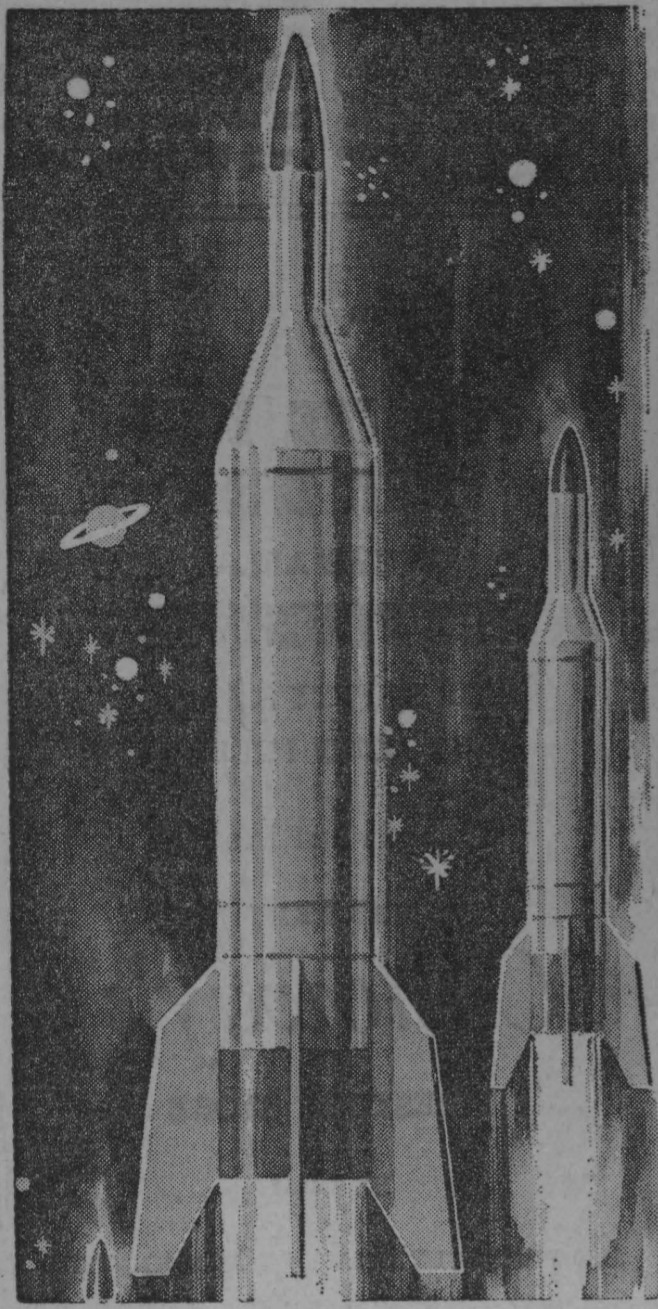
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SATURDAY, MAY 12th



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Army to Allow Dependents to Go to Europe

(Continued from Page 1)
in Europe with their dependents are normally required to serve there for 26 months, while the tour for those who are unaccompanied by their dependents is 24 months, under normal conditions. An unaccompanied sponsor who has not been able to have his dependents in Europe because of the suspension of travel will be given the option of accepting either an unaccompanied tour or having his dependents join him and accepting the longer accompanied tour.
Generally, the authorization for the movement of dependents to Europe is based upon an application from the sponsor being approved by the overseas commander concerned. The overseas commander is also responsible for the establishment of priorities for travel as adequate quarters become available.
Subsequent to approval by the overseas commander for the travel of a member's de-

pendents, the family in the United States will receive, through the closest servicing Army headquarters, a "travel authorization" which provides the necessary instructions for proper preparation for the overseas move.
This document also advises the dependents of the period during which port call can be expected. Finally, the appropriate Army terminal commander will issue a firm port call date to the members of the family, again doing this through the Army commands.
It is emphasized that all matters relating to dependent overseas movement are transacted between the Army commander and the respective families in the United States.
The sponsor in the overseas command is aware of the status of his family's request and is in a position to answer questions his dependents may have in this regard.

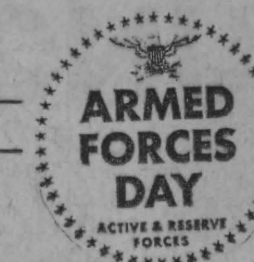
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YOUNGEST HOSPITAL IN THE FOURTH ARMY

The biggest little hospital in the Fourth Army area took the spotlight this week for a two-fold occasion—observance of National Hospital Week (May 6-12) and the anticipated expansion of its medical facilities.

The U.S. Army Hospital at White Sands Missile Range, N. M., under the command of Colonel Marcus H. Flinter, post surgeon, is the youngest in the Fourth Army Area and administers to more than 10,000 people scattered over a 4,000-square-mile area. And, while joining the annual nationwide observance of Hospital Week sponsored by the American Hospital Association, plans are being completed for extending health services with the portion of WSMR's 1963 Fiscal Year budget that is earmarked for medical facilities. The budget request has passed preliminary approval and a final nod from Congress is expected any day.

Official designation of U.S. Army hospital was made in December 1960 which, for the first time, made possible inpatient care for military personnel and their dependents at the desert missile center.

"Due to the distance from WSMR to William Beaumont General Hospital—approximately 45 miles—inpatient care at the WSMR hospital marked the biggest medical improvement in the history of the missile range. However, due to the number of people at the installation and surrounding area who are eligible for medical care, and the geographical extent of the range, additional facilities are needed," Col. Flinter said this week.

WSMR's immaculate hospital with its various clinics and associated services is a far cry from the one doctor and few enlisted technicians in a temporary building that was the WSMR dispensary in 1948. And, although medical facilities have grown steadily during the intervening years, they failed to keep pace with the fast growing missile center that now employs some 10,000 people—military and civilian.

Also, during the elapsed 14 years the stepped-up missile firing program necessitated increased medical emergency stand-bys, and the establishment of range installations such as Stallion Center—home to some 250, chief-

ly military personnel, located some 100 miles from WSMR Headquarters on the north-most end of the range—necessitated maintenance of separate medical units.

Although around 125 medical personnel are authorized WSMR, about 110 are assigned with the shortage reflected chiefly in the enlisted category. However, compensating much for the shortage are 15 volunteer Red Cross Gray Ladies who average approximately 460 hours work a month at the hospital.

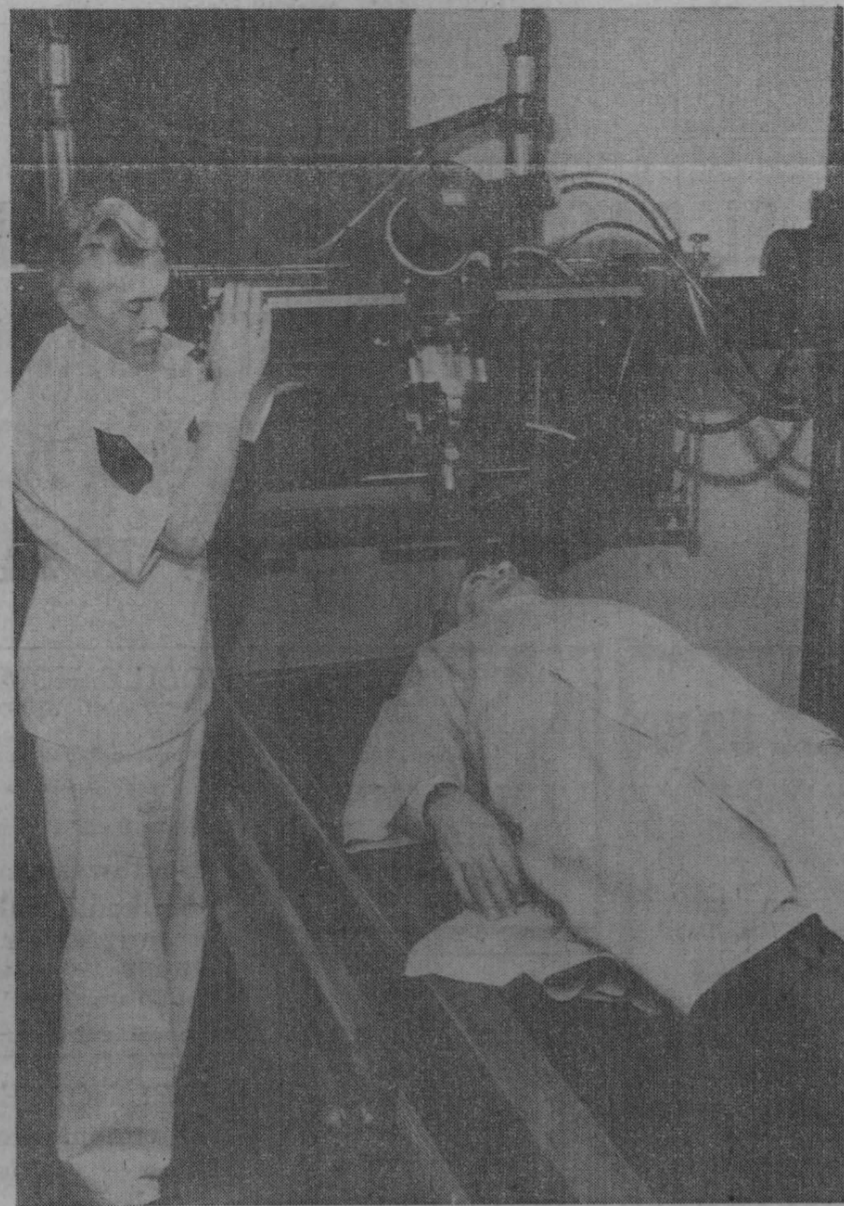
Twenty-three officers are assigned the Medical Activity including eight medical officers, a veterinarian, a sanitary engineer, seven Army nurses and six Medical Service Corps officers. In addition, the Navy provides one medical officer, three corpsmen and a civilian nurse, and the Army employs a civilian physician and six registered nurses.

Administrative personnel include an executive officer, registrar, supply officer, sergeant major and administrative supervisor.

Medical Service is the largest hospital division and embraces the broadest program. In addition to various clinics such as medical, pediatrics and well baby, it includes support sections—laboratory, pharmacy and X-ray—which are utilized for both inpatient and outpatient care. Capt. Leo Besmond is chief of Medical Service. Capt. Andrew Rinker is pediatrician, Lt. Robert Wylin, USN, laboratory officer, and Lt. Eugene Duhon, pharmacy officer.

Sfc Ernest E. Converse is non-commissioned officer in-charge of X-ray; Sp5 Bernard R. Moore, NCOIC of the pharmacy, and M/Sgt. Clarence Aubee, acting NCOIC of the lab. Three enlisted technicians operate the laboratory which is one of the busiest in the area. The men average more than 2,500 procedures a month ranging from urinalysis, hematology and serology to chemistry and bacteriology.

The X-ray section averages more than 1,000 exposures a month and during 1961 provided some 12,800 diagnostic film of which about 90 per cent were for outpatient care. Three enlisted pharmacists dispense an average of more



WSMR MEDICAL RADIOLOGIST—Sfc Ernest E. Converse, non-commissioned officer in-charge of the X-ray lab of the U. S. Army Hospital at White Sands Missile Range, N. M. adjusts the machine in preparation of making an exposure. He and a technician assistant average more than 1,000 exposures a month and during 1961 completed a total of 12,800. The two men also operate the darkroom and maintain a film-file which contains some 100,000 negatives. Sgt. Converse came to WSMR in 1952 from duty in Korea. He has 18 years military service and took his technical training at Fitzsimmons General Hospital in Denver. (U.S. Army photo)

than 4,000 prescriptions a month ranging from aspirin and cough syrup to the latest types of antibiotics.

Staff pharmacists manufacture in bulk many of the medications such as cough syrup, ointments and lotions, and obtain others from WBGH through an exchange set-up. Almost 90 per cent of the

pharmacy volume is issued on an outpatient prescription basis.

WSMR's hospital includes three regular wards, maternity ward and nursery. During 1961, the monthly average of occupied beds was 12.6 and the average patient stay was 3.8 days. Approximately 20 patients a month were sent

to WBGH for special care where formerly all hospitalized patients were sent there.

Capt. Edward J. Armbruster is the surgical officer and two doctors are assigned for general practice. Capt. R. D. Schneider is in charge of the troop dispensary.

Capt. Chris S. Manitsa is chief of obstetrics and dur-

ing 1961 same 270 babies were delivered at the hospital. The prenatal clinic averaged more than 176 patients a month, gynecology approximately 100, and the well baby clinic, around 80.

Other busy clinics include immunization which gave a total of 17,449 inoculations during the past year, and allergy which treated an average of 420 patients a month.

Lt. James C. Battreal is the sanitary engineer and works under the direction of Capt. Richard B. Stuart, preventive medicine officer. The division personnel keep watch over the general sanitary conditions at WSMR and on-post places that serve military personnel. Also, they keep a wary eye out for origin or possible outbreak of any type of communicable or contagious disease.

Dr. Thomas G. Taylor is the civilian medical doctor who is chief of Occupational Health Division. This division serves approximately 4,500 civilian employees at the missile range and is responsible for care of injuries, illnesses and employe counseling.

Dr. Taylor acts as advisor and liaison between supervisors, Civilian Personnel Office and the employes, assists with job placements, and performs medical examinations for civilian employees. He is assisted by two civilian nurses.

Lt. John E. Martin, station veterinarian, is second only to the obstetrician in volume of work. During 1961, he and two enlisted assistants accomplished an enormous amount of work ranging from food and sanitation inspections to animal treatments and vaccinations. These activities included the inspection of approximately 7,235,248 pounds of animal-origin food; 10,545,368 pounds non-animal-origin food; 39 off post sanitary inspections; treatment of 2,636 animals

and vaccination of 1,290 animals. In the meantime, they kept watch over some 750 animals residing on post, including 35 privately owned horses and 12 Range Rider horses.

The veterinarian had a total of 82 animal-bite cases reported during the year of which 72 were from dogs, eight from cats, and one each from a field mouse and rabbit. The heads of five animals were sent for laboratory analysis for rabies, but all were confirmed as negative. Although no positive case of rabies was diagnosed for the installation, four people —

three living on post—were given anti-rabies treatment as a precautionary measure.

Capt. Kirby L. Britton is medical supply officer and S/Sgt. Fayette Bishop is NCOIC. Upon the two rests

the responsibility of having materials and equipment ready when needed, regardless of circumstances.

Medical supplies are many and varied and are estimated generally to be in excess of \$20,000 with an average monthly issue around \$6,000. Through WSMR's exchange arrangement with WBGH, space as well as hundreds of dollars a year in stock supplies, are saved. Under the plan, certain items—when required—are obtained from WBGH. The plan is especially helpful in cases of expensive medications or ones that are seldom used.

POWER FOR PEACE



Where WSMR SHOPS and SAVES



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2 STORY, 4 BEDROOMS

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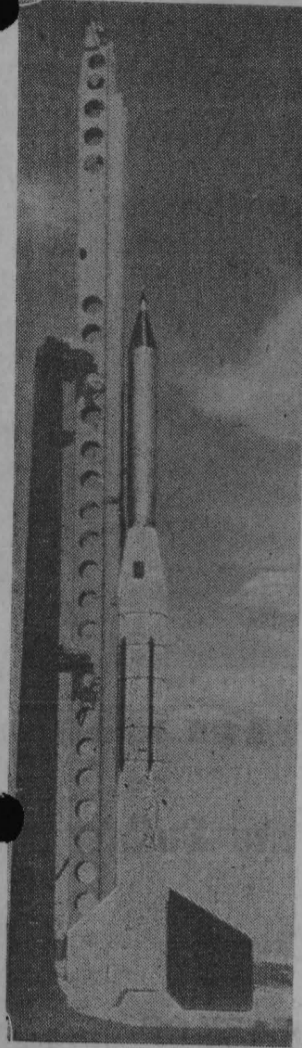
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SMSA Measures Atmosphere For Missile Flight



SKY PROBE

The earth's atmosphere has an enormous effect on the flight of missiles.

Not only do wind, temperature, and humidity affect missile performance, but other atmospheric factors can impair communications with them.

For these reasons, the Missile Meteorology Division of the U.S. Army Signal Missile Support Agency gathers data on all atmospheric factors to aid the people who are shooting the missiles.

Installations in the missile launch area measure atmospheric factors from the surface to 250,000 feet. Laboratories are used for atmospheric research.

Methods have been developed to predict the impact of a missile before it has been fired. These calculations are made for all missiles without guidance



WIND TOWER

systems to insure range safety. Aerovane anemometers are used in the data collection system. This instrument was designed to measure and transmit electronically wind speed and direction information to remote indicators and recorders.

A mobile Aerovane unit can be set up in a few minutes to obtain wind data at any location. The unit can be extended to put the instrument as high as 50 feet.

The Arcas rocket carries a radio system to send temperature information. The larger Nike Cajun air probe uses a more complicated telemetry devices for more extensive measurements at high altitudes.

The Signal Missile Support

Agency has developed the SOTIM (Sonic Observation of Trajectory and Impact of Missiles) System to provide information on re-entry into the earth's atmosphere and impact of missiles.

SOTIM stations consisting of arrays of microphones have been installed at 16 points on the range. From these stations acoustical information on missile flight goes to a central point for analysis. Each station is equipped also to measure wind speed, temperature, and humidity.

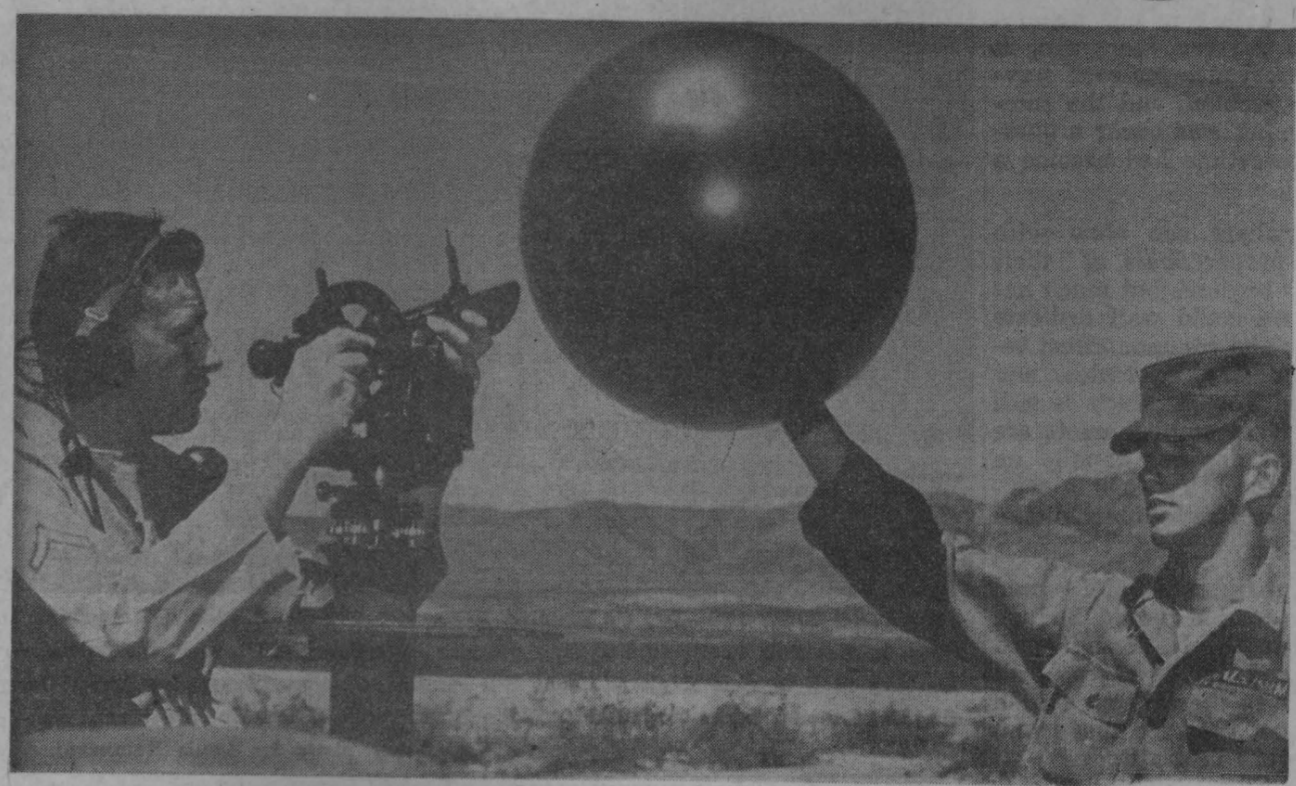
An Ionosphere Station operated by the Signal Missile Support Agency maintains a 24 hour watch on the critical frequencies associated with the ionospheric layer of the earth's atmosphere

that bounce radio signals over the horizon.

An observation is completed every 15 minutes, resulting in plotted records of the radio frequency range from 1 to 25 megacycles in comparison with the height above sea level.

SMSA personnel coordinate the operation of the North American Continent Meteorological Network with stations at White Sands, Fort Greely, Alaska, Fort Churchill, Canada, Wallops Island, Virginia, Patrick Air Force Base, Florida, Eglin Air Force Base, Florida, Point Mugu, California, and Tonopah, Nevada.

Temperature, relative hu-



MEASURE THE WIND

midity, wind speed and direction are measured on 200-foot towers located just West of the Army Blockhouse. Special equipment on the towers measures a variety of other atmospheric factors.

Other devices collect dust samples from the air. The size and concentration of these particles have a big effect on the transmission of infrared energy used by some projects on the range.

Measurements of the wind above the surface are made with instruments that record balloon trajectories, metalized parachutes or confetti ejected from rockets.

A double theodolite computer has been developed. This device automatically reads the data from balloon tracking instruments and produces a "profile" of the winds up to 2,000 feet can be obtained in four minutes after the balloon is released.

Balloons carrying small radio transmitters give wind and temperature information up to 125,000 feet. Balloons

connected by wire to ground recording instruments are used to obtain information in the lower 1,500 feet of the atmosphere.

The urgent need for atmospheric data above the

ceiling of balloon devices led to the development of meteorological rockets. The best of these devices now can carry a 70 pound instrument package as high as 600,000 feet.

Lowi, Arcas, Asp and Ramjet rockets are used to explore the air up to 250,000. These rockets eject metal confetti or a metalized parachute that can be tracked by radar to measure wind speed.



TOWELED THRILLER — The new Broadway musical "Subways Are for Sleeping" underscores its nocturnal thesis when bouncy Phyllis Newman pops up, suitably clad for her opening number.

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President's Message

On Armed Forces Day, 1962, there is a more certain unity of effort among the Army, Navy, Air Force and Marine Corps than ever before in our history. When one day was set aside thirteen years ago, in place of separate days of observance for each service, unification was both the problem and the compulsion. Unity of effort in combat was never a question, but unity of effort in peacetime had become a question.

Today, Americans everywhere can view with pride the performance and preparedness of their Armed Forces. Much is still to be done, but much has been accomplished. In 1962, we could well dedicate this observance to closer unity and common effort between the civilian effort—industry, education, and civil defense—and our Armed Forces. Much is still to be done, even though many accomplishments are at hand. Our national security depends equally on both efforts—civilian and military. To field a winning combination, neither half can be in international second place.

Any report that the Commander-in-Chief would make to the nation on this occasion would include a salute, and a "Well Done" to the National Guard of the Army and Air Force, and the Reserves of all the services, for their response to the call our nation has made upon them in the past year. To those who have sacrificed, the nation speaks in gratitude.

My report would end with this word to the nation: Guard zealously your right to serve in the Armed Forces, for without them, there will be no other rights to guard.

—John F. Kennedy, President of the United States

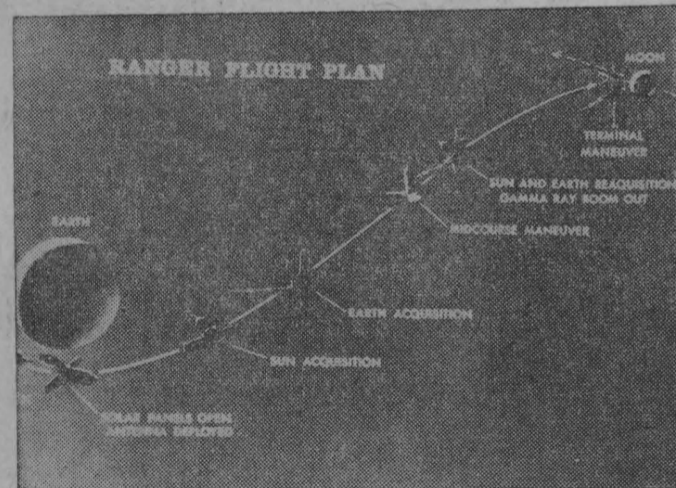
Armed Forces Day Report To The People

For still another year the slogan for Armed Forces Day is "Power for Peace"—a slogan almost as old as the day itself. It would be hard indeed to find another phrase that so simply and clearly sums up the aim of our national defense effort. And, as President Kennedy has said, this year "there is a more certain unity of effort among the Army, Navy, Air Force and Marine Corps than ever before in our history."

We in the service know it is a unity of free men working together to maintain a great military machine and protect a way of life that is the best the world has ever known. It is not a machine to be used to coerce, to bully, to threaten. It is not made up of men whose behavior and thinking have been ruthlessly regimented and controlled for more than 40 years. It is a machine of individuals banded together by the precious bond of patriotism.

From May 12 to 20, at home and overseas, we will be hosts to our fellow Americans and our friends abroad. They will see us in action, in readiness, strong and confident. We don't brag and we don't strut—we don't have to. We know that there is fact in our Commander-in-Chief's assertion that "Today Americans everywhere can view with pride the performance and preparedness of their Armed Forces." And we who wear our country's uniform would be less than human not to take pride in his words.

"Power for Peace"—it is the best assurance that war can honorably be averted and the world spared death and destruction on a scale terrible to contemplate. We are that power, each of us and all of us, trained to make such power invincible.



TO PHOTOGRAPH MOON—This artist's drawing shows the sequence of the events that will take place when Ranger 4 is launched by the National Aeronautics and Space Administration in an attempt to take closeup pictures of the moon.



SCOUTING VISITORS—Det 4's Training NCO, S/Sgt Jack Gordon (1) explains the troop information board to Scouting visitors during a recent tour of the detachment. Looking on (1 to r) is Explorer Scout Bill Phillips, Canyon Texas; Boy Scout George Hughes, Dumas, Texas and T/Sgt. Eldon E. Bowman, Scout Commissioner. (U.S. Army photo by Louis Reinhardt, Civ.)



CONGRATULATION—Lt. Col. Morton S. Jaffe, second from left presents gavel signifying assumption of Presidency of the White Sands P-TA to Major Keith Glasgow. Installation ceremonies for the newly elected officers were held last Monday night at the Community. Following dinner, Col. Jaffe, WSMR Judge Advocate conducted the installation. Assuming office for the 1962-63 school year were from left: Commander J. C. Holz, USN, Vice President Col. Jaffe; Mrs. Agnes Hanson, Secretary; Major Keith Glasgow, President; and Mr. Lewis Chatmon, Treasurer. Army photo by Sp4 Henry Hernandez)

Youth Fitness Week Has Meaning For Us

Does National Youth Fitness Week, which is observed May 6-12, have an application to people in the Armed Forces? Most assuredly it does. Servicemen can support its salutary purpose of stressing the importance of physical, mental, moral and spiritual health in young Americans by serving as an example to them.

Pessimists for years have been lamenting what they see as a deterioration in the health and character of these young Americans. They cite statistics on teen-age delinquency and Selective Service rejects to paint an alarming picture of youth in serious trouble. Well, it doesn't pay to take a pooh-pooh attitude to some of the facts they present reflecting as they do grave social problems that resist easy solutions. But is the picture as dark as some well-meaning observers would have us believe?

For example, a new study prepared by the Army Surgeon General's Office reveals that 68 per cent of young Americans with a military obligation have qualified for service in the Armed Forces in recent years. And, says this report, "Previously published studies that dealt exclusively with the result of the examinations of draftees have been grossly and quite misleading . . . misinterpreted."

We in the service have only to look around us to know that by and large American youth—especially in uniform—isn't going to the dogs. Young men return to civilian life after military duty in better physical and mental shape than when they came in.

Career people who are parents have a special respect and guidance they give in this matter cannot really be duplicated by a church or school. The home influence is unique.

For today's youth is tomorrow's citizen. In President Kennedy's words, "The strength of our democracy is no greater than the collective well-being of our people. The vigor of our country is no stronger than the vitality and will of all our countrymen. The level of physical, mental, moral and spiritual fitness of every American citizen must be our constant concern."



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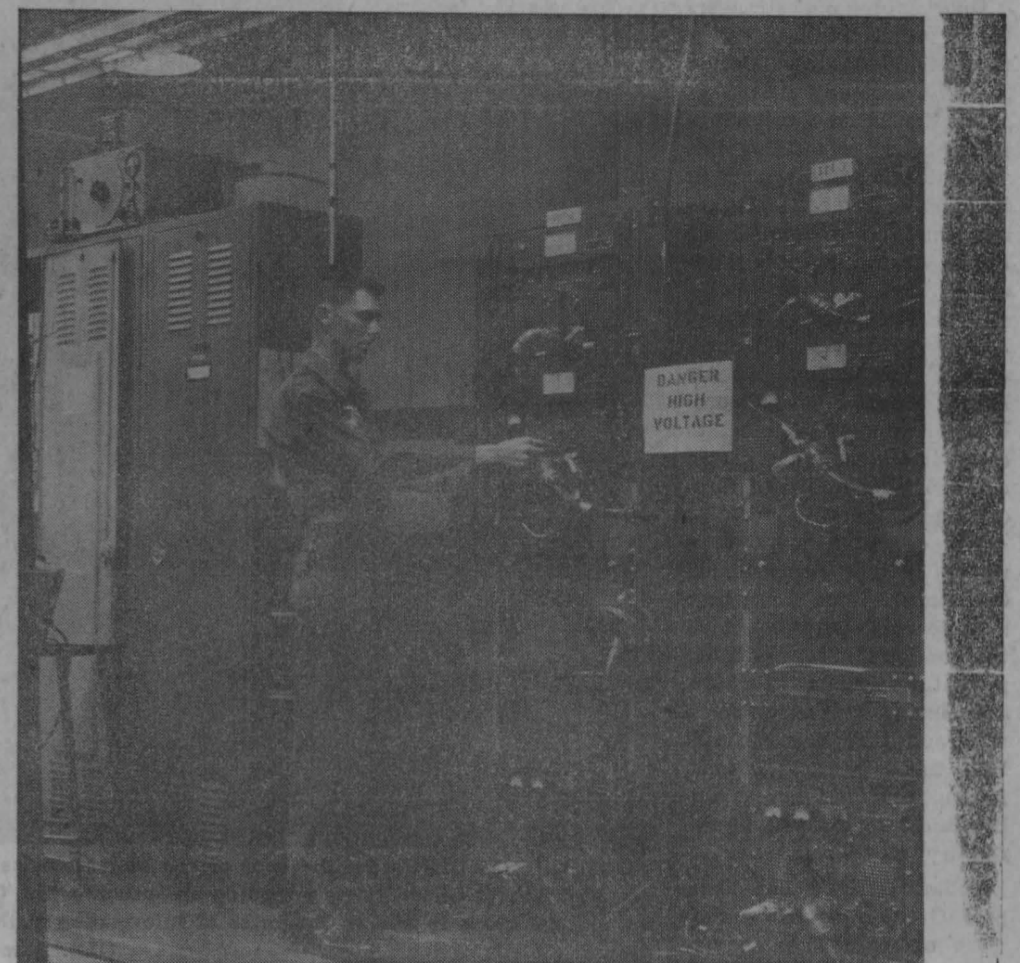
80,000 Circuit Miles Of Wire In S M S A Lines



HIGH WINDS BLOW—Here's what sometimes happens to pole lines at White Sands Missile Range when the big winds come. Signal Missile Support Agency soldiers rush into action to repair the damage in hours. (U.S. Army Photo)



HIGH ALTITUDE WORK—Signal Missile Support Agency soldiers install a communications line high atop a mountain peak at White Sands Missile Range. The work is rough, dangerous, and rewarding. (U.S. Army photo)



COMMUNICATIONS SPECIALISTS—Soldiers technicians of the Signal Missile Support Agency operate the complex banks of electronic equipment at the S M S A Communications Center at Stallion Site as part of their military duties at White Sands. (U.S. Army photo)

Communications System Covers 5,600 Square Miles of Desert

The U. S. Army Signal Missile Support Agency at White Sands operates a range communications and data transmission system that includes 80,000 circuit miles of wire and cable, 197 radio channels, and 48 microwave channels to cover 5,600 square miles of desert and mountains.

The range has been put at fingertips of 15,000 people here through the installation of automatic dial telephone centers in the five principal range areas, as well as in the Nike Zeus complex.

The communications plant connects the range control centers, centers, launching sites, instrumentation stations and other technical facilities. The system collects and distributes data and timing and control information for missile firings.

A relay station is located two miles high atop Salinas Peak to make possible communications and data transmission throughout the mountainous terrain of the range.

Base radio stations at six key locations are used in ground-to-air ultra high frequency radio transmission.

Receivers are located throughout the range at principal optical instrument sites. The system provides a voice channel for engineering and maintenance, as well as the data channel.

Mobil radio service is used extensively in all range operations. The fleet of vehicles used by the Military Police and security personnel is radio equipped to facilitate range-wide operations.

Maintenance crews that must ride over the entire range are provided with radio equipped vehicles, as are fire-fighting units, ambulances, and surveying crews.

Base stations for the many networks are located at communications centers as required for the coverage needed for the area.

Open wire lines provide

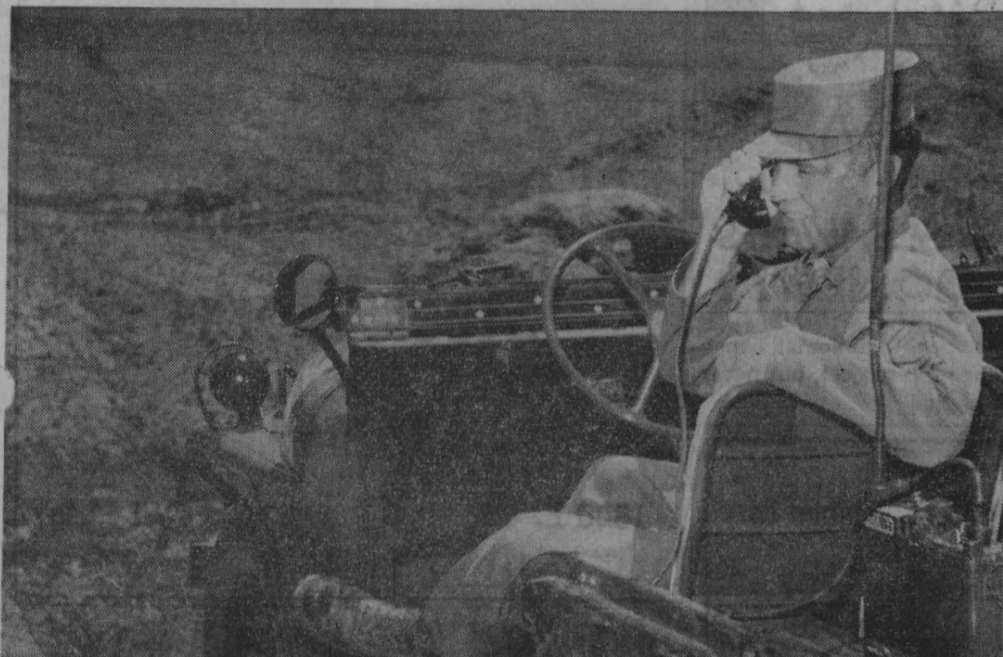
trunking and distribution for communications and instrumentation services to range centers and optical devices.

The violent wind storms make heavy pole line construction necessary. Special grounding techniques reduce distortion in open wire transmission brought about by win-driven dust.

Special purpose communications for coordination and control of range operations are provided by a variety of specially designed devices.

Range control operations use networks having both audio and visual communications. A control console is connected to communications systems to show at a glance the status of all networks.

A network of 900 inter-communications stations is spread over the range for control and coordination of all operations. Fifty teletype stations are used for scheduling mission, data transfer, and transmission of weather information.



VOICE ON WHEELS—A Signal Missile Support Agency in a jeep with a mobile radio can communicate anywhere on the range through a system of relays. Personnel scattered over the 5,600 square mile of range can keep in touch with ease. (U.S. Army photo)



VIEW FROM THE TOP—Two miles high at North Oscura Peak station, soldiers of the Signal Missile Support Agency work on a microwave antenna tower used in the data transmission system on the missile range at White Sands. (U.S. Army photo)

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"Breakthrough" Antenna Improves TV Viewing

A scientific "breakthrough" in TV antenna design now makes available better television reception for set owners everywhere, and especially benefits the estimated four and a half million viewers who live in "fringe" areas where signals are weak and fuzzy.

Called the "Crossfire," and developed after years of research by engineers of Channel Master Corporation, the new antenna makes the first practical use of the principle of Proportional Energy Absorption to give clearer, stronger all-channel reception everywhere.

In fringe areas particularly, it delivers pictures free of "snow," "ghosts," "flickering" and other interference. The antenna is also designed for excellent color TV reception and FM radio.

Harold Harris, Channel Master vice-president in charge of engineering, in explaining this successful use of the Proportional Energy Absorption principle, called the new development a "major breakthrough" in the art of antenna design. "It is now possible," he explained, "to deliver maximum signal strength to the set on all channels, 2 through 13." The new Crossfire is protected by a gold-colored coating that protects it against atmospheric impurities, salt air, and other corrosive elements. The coating, moreover, does not insulate contact points. It is actually a conductor, and ensures long, effective antenna life. The coating is also self-healing—scratches and abrasions are quickly covered by an invisible film which restores protection against the elements.


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ONLY FOOLS, STRANGERS TRY TO PREDICT

Only fools and strangers try to predict the weather in the Southwestern United States, the saying goes.

But the Signal Missile Support Agency celebrating this week the first anniversary of its weather forecasting operation at White Sands Missile Range, has refuted this statement.

A year ago the Signal Agency took over this operation at WSMR from the Air Force, formed the Meteorological Support Group to carry it out, and has posted a remarkable record of forecasting accuracy.

The operation marked a return by the Army Signal Corps to the same area where a 10-year-old Sorps operated the nation's first weather predicting system in 1870. Signalmen stationed on a telegraph line between El Paso and Yuma, Arizona, flashed the weather "probabilities" to the rest of the country at that time.

Today, SMSA's Met Support Group operates a network of more than 50 stations spread over 5,600 square miles of desert and mountains to give advance information on weather to the men who fire missiles. The network is tied together by radio and telephone for instant communications.

Balloons carrying radio transmitters soar as high as 125,000 feet to send back weather information on wind speed and temperatures.

Balloon-borne instruments connected to ground receivers by light wire lines furnish a lot of data.

Microphones buried in the ground in triangular arrays at 14 stations on the range gather acoustic information on missile trajectory that is used to predict impact.

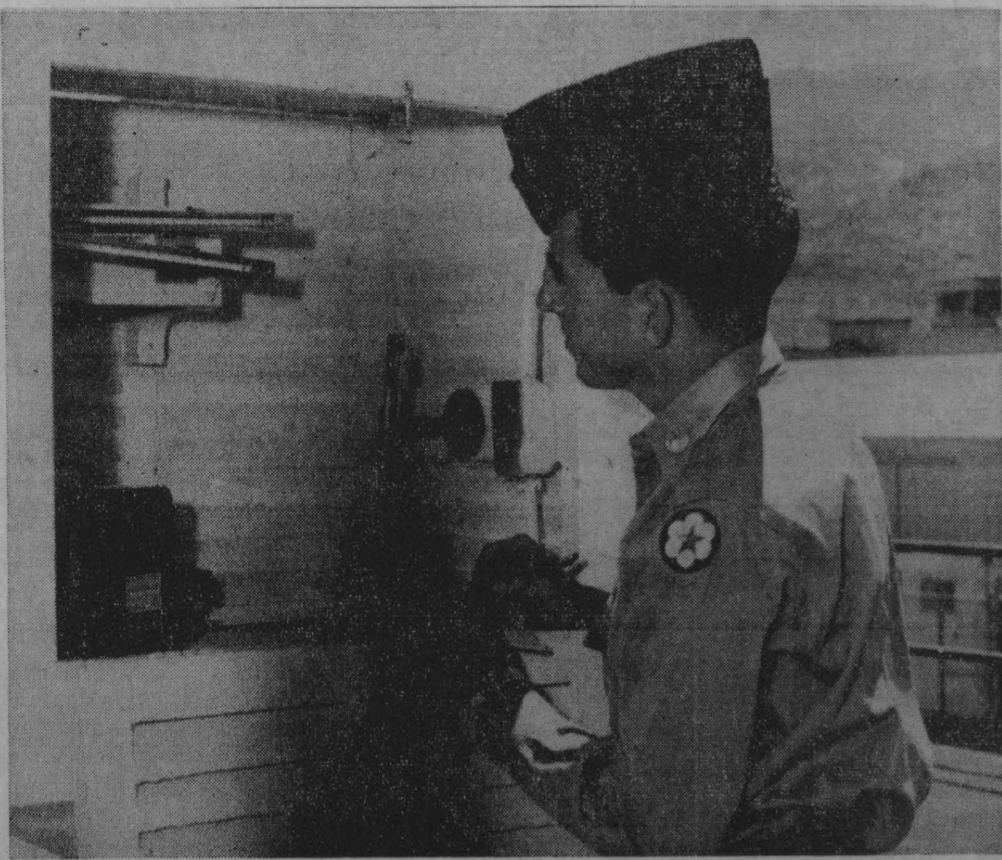
A computer installed near the Navy blockhouse is fed data from theodolites tracking balloons and turns out a precise graph "profile" of wind speeds to 100,000 feet at all points of the compass.

Instruments at the central control station in the headquarters area at WSMR measure humidity, dew point, and such factors as minimum and maximum temperatures used in preparing the daily general forecast.

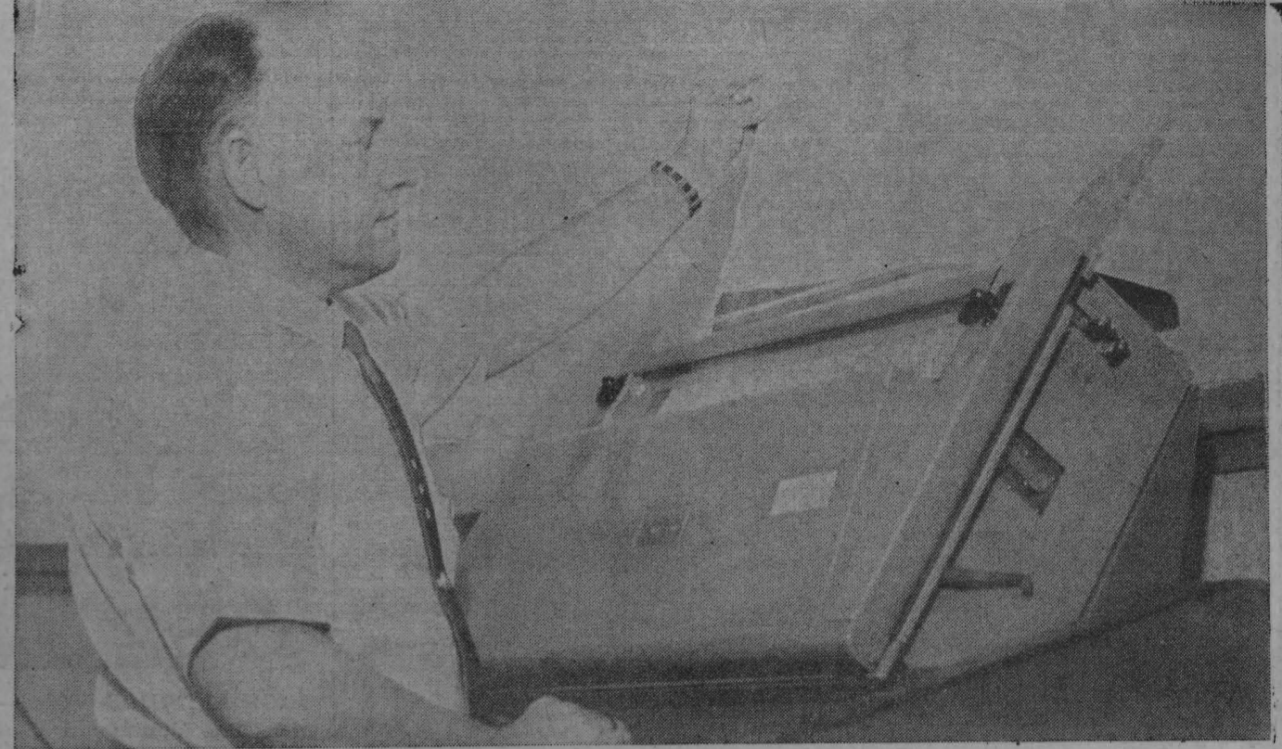
A military-civilian crew of expert forecasters receive weather information from the rest of the country on facsimile machines and coordinate this data with local conditions to prepare maps showing the march of the weather through the Southwest.

An where almost a hundred years ago a telegraph line strung on mesquite bushes marked the Signal Corps' first adventure in weather forecasting, today the Signal Missile Support Agency's meteorological Support Group predicts the weather for America's missilemen.

DUTY BOUND
She's termed a faithful wife if she brags about her husband's ability, even though she doesn't believe it herself.



ROOFTOP READING—On the roof of the Meteorological Support Group headquarters, Pvt. Ronald Chadd takes a reading on instruments. Continuous records are kept around the clock to add to the mass of information gathered by the Signal Agency group. (U.S. Army photo by Warren Weaver)



WEATHERMAP—Ivan Layton studies a weather map transmitted from U.S. Weather Bureau headquarters by facsimile machine. Information on the map is coordinated with local observations for an overall evaluation by the Meteorological Support Group of the Signal Agency at White Sands. (U.S. Army photo by Warren Weaver)



WHAT'S FOR TOMORROW? — M/SGT Donald Prescott and Marjorie Hoidale study the march of the fronts across a map as they prepare to turn out a weather forecast for the Meteorological Support Group of the Missile Support Agency. (U.S. Army photo by Warren Weaver)



LYING SAUCER—No flying saucer, but a psychrometric calculator, or "weather wheel" is being used here by SFC Richard Gerber to insure quality control of the data gathered by the Signal Agency Meteorological Support Group. (U.S. Army photo by Warren Weaver)



NERVE CENTER — Joe Ham, shown at the control center of the weather network operated by SMSA's Meteorological Support Group, can check any one of 50 stations in the 5,600 square mile WSMR area to keep the operation on schedule. (U.S. Army photo by Warren Weaver)

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