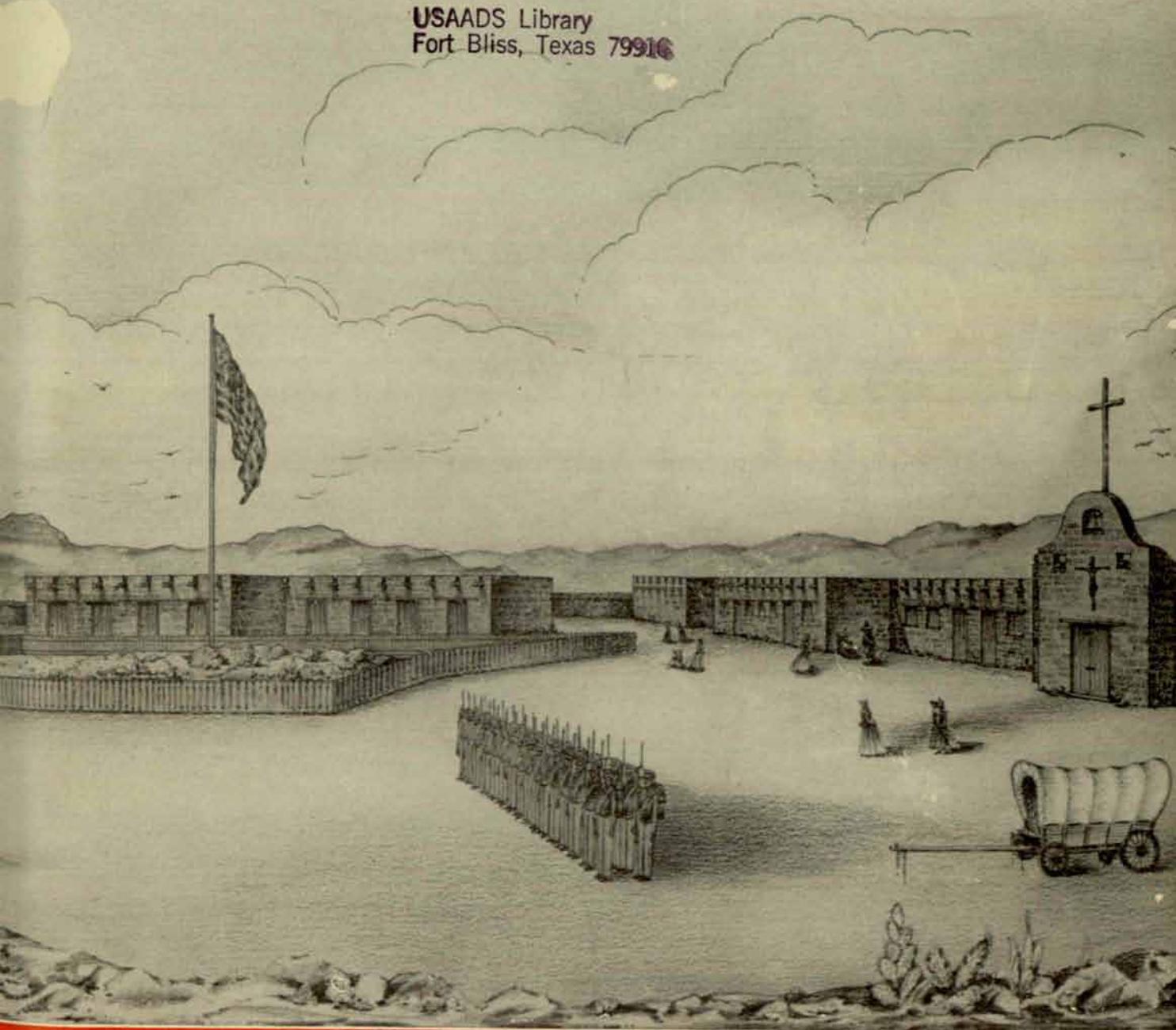


ANTIAIRCRAFT JOURNAL

SEPTEMBER - OCTOBER, 1948

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OLD FORT BLISS

A New Name For An Old Journal

With this issue, the COAST ARTILLERY JOURNAL for a second time lays aside a time-honored name to assume one more truly descriptive of the activities of its subscribers. In keeping with the significant traditions of our arm of the service, and after an overwhelming vote by members of the Association, the JOURNAL becomes the ANTI-AIRCRAFT JOURNAL.

The JOURNAL is 56 years old, but it has held the title COAST ARTILLERY JOURNAL for less than half of that time. From 1892, when it was founded, until 1922, it was called the *Journal of the United States Artillery*. It became the official publication of the United States Coast Artillery Association on 10 January 1931 when the Association was founded.

When the JOURNAL was first established, there was but one artillery of the United States and it consisted of 5 regiments. Each of these regiments had 12 batteries, of which 10 were coast batteries, and 2 were field batteries. This meant that at the time of the founding of the JOURNAL, five-sixths of all United States artillery was seacoast. The need for a journal was felt because the artillery was awakening from a long period of peacetime complacency that had existed since Civil War days, and the development of a modern technique in both seacoast and field artillery was just getting under way.

Because development in gunnery and in new weapons seemed to lie more immediately in the field of moving targets, a preponderance of Coast Artillery articles made their appearance in the *Journal of the United States Artillery*.

The JOURNAL did not change its name, however, until 15 years after the establishment of the Coast Artillery and the Field Artillery by Act of Congress in 1907. In 1922, after 30 years as the *Journal of the United States Artillery*, the press of opinion among the subscribers demanded a change and the JOURNAL became the COAST ARTILLERY JOURNAL.

Now there has developed another change of emphasis in the mission of the Corps and a consequent change in Association members' interest. Since World War I, the antiaircraft mission has increasingly overshadowed the harbor defense mission until now a preponderance of antiaircraft articles is seen in the JOURNAL.

This change by no means implies lack of interest on the part of the Association in Seacoast Artillery matters. It is merely a change of emphasis. Seacoast Artillery activities will be accorded the attention they deserve as long as this mission continues to exist, and as long as Association members have an interest in them.

The conclusion of the editorial in the July 1922 issue of the JOURNAL, which marked the name change of that time, is as appropriate today as it was then:

"During all these years of the JOURNAL's history its policy has gradually changed to conform to the modifying trend of thought and policy of the Coast Artillery. . . . It is to be hoped that with the assumption of its new name, the JOURNAL may open a new chapter of even wider usefulness to the Corps."

ANTIAIRCRAFT JOURNAL

Founded in 1892

Published from 1892 until 1922 as THE JOURNAL OF THE UNITED STATES ARTILLERY

Published from 1922 until 1948 as the COAST ARTILLERY JOURNAL

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CONTENTS



COVER—Old Fort Bliss (See Page 52).	
FORT BLISS EXPANDS	2
REPORT ON AAA EXPANSION	6
AAA AND FASTER DUCKS. <i>By Colonel Clyde R. Nichols</i>	7
ENLISTED AND WARRANT OFFICERS CAREER GUIDANCE PROGRAM. <i>By Brigadier General J. J. O'Hare</i>	9
THE NEW ARTICLES OF WAR. <i>By Colonel Frederick Bernays Wiener</i>	12
BLOOD AGAINST THE ATOM BOMB. <i>By Jane Stafford</i>	17
THE GUARD IN SUMMER TRAINING. <i>By Major Ralph E. Pearson</i>	18
ORC TAKES TO THE FIELD. <i>By Major William H. Witt</i>	19
ELIMINATION AND RETIREMENT—RA, NG, AND ORC. <i>By Lieutenant Colonel Franklin G. Smith</i>	20
SOME AAA TROOPS TO TRAIN AT CAMP COOKE	22
CAC WORLD WAR II DEAD HONORED	23
COAST ARTILLERY NEWSLETTERS	25
SEACOAST SERVICE TEST SECTION	30
ANTIAIRCRAFT JOURNAL ADDRESS SUPPLEMENT	31
ABOUT OUR AUTHORS	11
NEWS AND COMMENT	52
BALLOT FOR COAST ARTILLERY ASSOCIATION ELECTION	53
COAST ARTILLERY ORDERS	67
BOOK DEPARTMENT	70

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FORT BLISS

Fort Bliss, Texas, largest antiaircraft artillery installation in the United States, has a twofold reason for being in the news at this time. In November of this year, it will celebrate its 100th anniversary, and as the center of antiaircraft activity of the Army, it will be the recipient of the bulk of the AAA's approximately 3,000 per cent expansion recently announced by the Secretary of Defense.

Fort Bliss' century of existence has been a colorful one, keeping in step with the demands of warfare—from Indian forays to guided missiles.

Designed primarily to protect settlers against Indian raids, the first few decades of the Post's activities were devoted to preventing the depredations of the Indians, or punishing them for depredations already made. Dozens of conflicts with the Indians are listed in the records of the garrison.

Established by a War Department Order of November 7, 1848, Fort Bliss was twice abandoned as excess to military needs, and had five different locations and three names before moving to its present permanent site on Lanoria Mesa.

The Post of El Paso was its first name, established in what is now downtown El Paso, near where San Jacinto Plaza now stands. Second location was at the junction of what is now Magoffin Avenue and Willow Street. It was at this site that the Post was officially named Fort Bliss in honor of Brevet Lieutenant Colonel William Wallace Bliss, brilliant scholar and soldier who had served under General Zachary Taylor during the War with Mexico. It was not until 1893 that the Post was moved to its present location on the Mesa northeast of El Paso.

During the Mexican Border troubles and World War I, Fort Bliss expanded rapidly. After the doughboys of the first World War had been demobilized, Fort Bliss came into its

own as a Cavalry Post—one of the largest in the United States.

The dashing Cavalrymen left an indelible mark on El Paso and the other Border communities near Fort Bliss. Their superb horsemanship, magnificent horses and the pageantry of their drill, parade and equestrian shows are still treasured memories among civilians as well as the military personnel who knew Fort Bliss in its Cavalry days.

With the advent of World War II, the antiaircraftmen and matériel took the spotlight, and since that time Fort Bliss has become the outstanding antiaircraft center of the Army. Its personnel are engaged in development and training in antiaircraft artillery and guided missiles.

The size of Fort Bliss, as reckoned in troop population, has varied with the cycle of war and peace in which the country found itself. The peak of growth was during the World War I period when Fort Bliss and the camps clustered about it had some 60,000 men. During the World War II years population again soared, this time to a high of approximately 50,000.

In 1893, when Fort Bliss moved up on the Mesa, the Reservation consisted of a little more than 1,250 acres of something over two sections of land. As the years went by and the need for training areas and target ranges grew, additional land was acquired. At the height of antiaircraft training during World War II, the Fort Bliss Reservation included 1,500,000 acres. The Reservation now includes well over a million and a quarter acres, part of which is owned and part of which is leased.

Fort Bliss has been called "The Training Ground for Generals" since so many of the Nation's most brilliant and able military leaders have trained there. Three Chiefs of



Present-day Fort Bliss from the Air

Photo by Biggs Field Airbase

EXPANDS

PLANS CENTENNIAL



Following the century-old rules for adobe construction, the walls of the replica of Old Fort Bliss rise as Pete Minjares lays the bricks. Major Edwin M. Eads, replica supervisor, *right*, and Herschel Petty look on.

Constructed of sun-dried adobe bricks as was its predecessor, the replica of Old Fort Bliss now rising near the Headquarters Building of the present-day Post is expected to be complete in time for the huge 100th Anniversary celebration to be held at El Paso and Fort Bliss on November 5th, 6th, and 7th. Logs for roof beams and the pole corral were cut in the National Forest in the Capitan Mountains of New Mexico by Fort Bliss soldiers and brought by truck to the building site. During the Centennial celebration, the replica will be used as a museum for display of interesting and valuable relics.

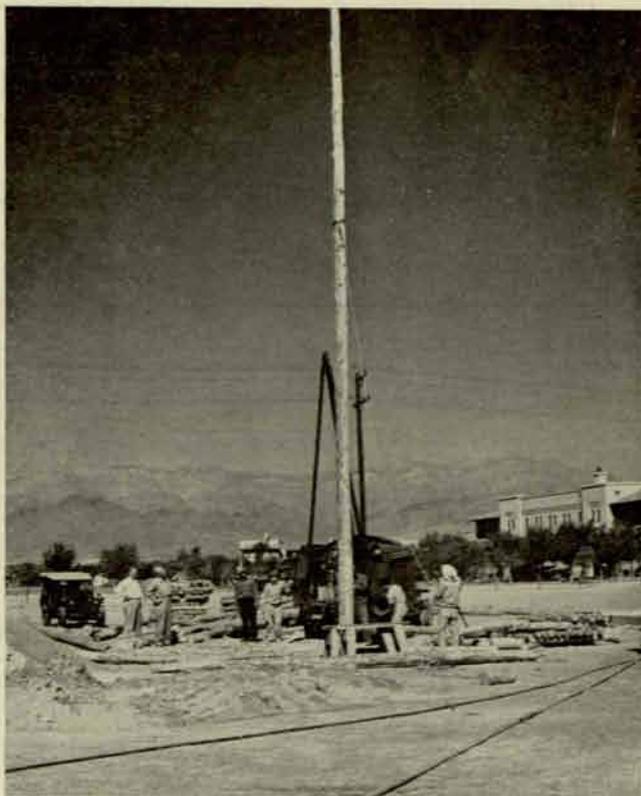
The program for the first day of the three-day celebration includes ceremonies in San Jacinto Plaza, near which troops set up the Post of El Paso in the old days, dedication of a memorial to soldiers who have gone forth from Fort Bliss to serve their country, dedication of the replica of the Old Fort, opening of the polo tournament, dedication of the 100th Anniversary tablet, and a formal guard mount and retreat parade. Concerts will be played during the day by the Army Ground Forces Band, brought to El Paso for the celebration.

An historical pageant-parade depicting the 100 years of civilian-military cooperation in El Paso and the Southwest will be a highlight of the second day. Other

features will be a review and parade of troops, polo match, and the 100th Anniversary fiestas and dances for enlisted men.

Planned for the final day of the celebration are: dedication of a war dead memorial tablet at the Post, devotional services in all churches, commemorative services in the National Cemetery, and "Dedication to Peace," a pyrotechnic display on Scenic Drive above the city of El Paso.

General Omar Bradley and other high-ranking military officers, former commanders of Fort Bliss, and many other noted persons are expected to attend and take part in the 100th Anniversary of the picturesque post from which soldiers once marched against an enemy armed with tomahawks, and where now they train with modern antiaircraft and guided missiles.



A sixty-foot peeled pine tree trunk goes up at the replica of Old Fort Bliss. Mount Franklin, which saw the first flagpole raised nearly a century ago, looms in the background beyond the handsome buildings of the present-day Post.

Quarters At Bliss Inadequate

The following represents the information gathered by one officer on a four-day trip to Fort Bliss in search of housing from 23-27 July:

It should be understood that the housing situation at Fort Bliss was bad even before the expansion.

Now it is aggravated by several factors:

1. The School at Bliss started on August 16th. It, too, is expanding, including an increased number of Naval personnel studying Guided Missiles.

2. The expansion at Bliss to include many additional battalions has, of course, been the greatest factor in shortage of housing.

3. Further to aggravate the problem, the Air Force contingent at near-by Biggs Field is being increased.

Houses for rent are scarce, and officers are paying up to \$120 a month to stay in tourist camps while looking for houses. The Billeting Officer at Fort Bliss, who should be contacted if family quarters are desired, had two houses for rent when approached on 24 July. These were two 3-bedroom houses, one furnished for \$200 a month, and the other unfurnished for \$150 a month. Both of these houses were up for sale, which practice further complicates the rental problem.

There were a few houses for sale and this officer contacted three of the many real estate dealers in the El Paso telephone directory.

The following generalizations were made on the new houses for sale. (There are many exceptions, but these were found to be typical.)

Two- and three-bedroom houses almost without exception had: no basements, only one bathroom, no cook stove or refrigerator, but had water-washed air circulation systems, wood or gas fireplaces, case-mented windows, venetian blinds, and were equipped to furnish gas or electricity for cook stoves. In general, their cost ran: for five-room (2-bedroom) houses from \$11,500—up, and for six-room (3-bedroom) houses from \$12,500 up to \$42,000 with the majority between \$13,000 and \$17,000.

Old houses generally ran from \$10,500 to \$12,000 for three bedrooms and were generally air-conditioned. No price was received for two-bedroom used houses.

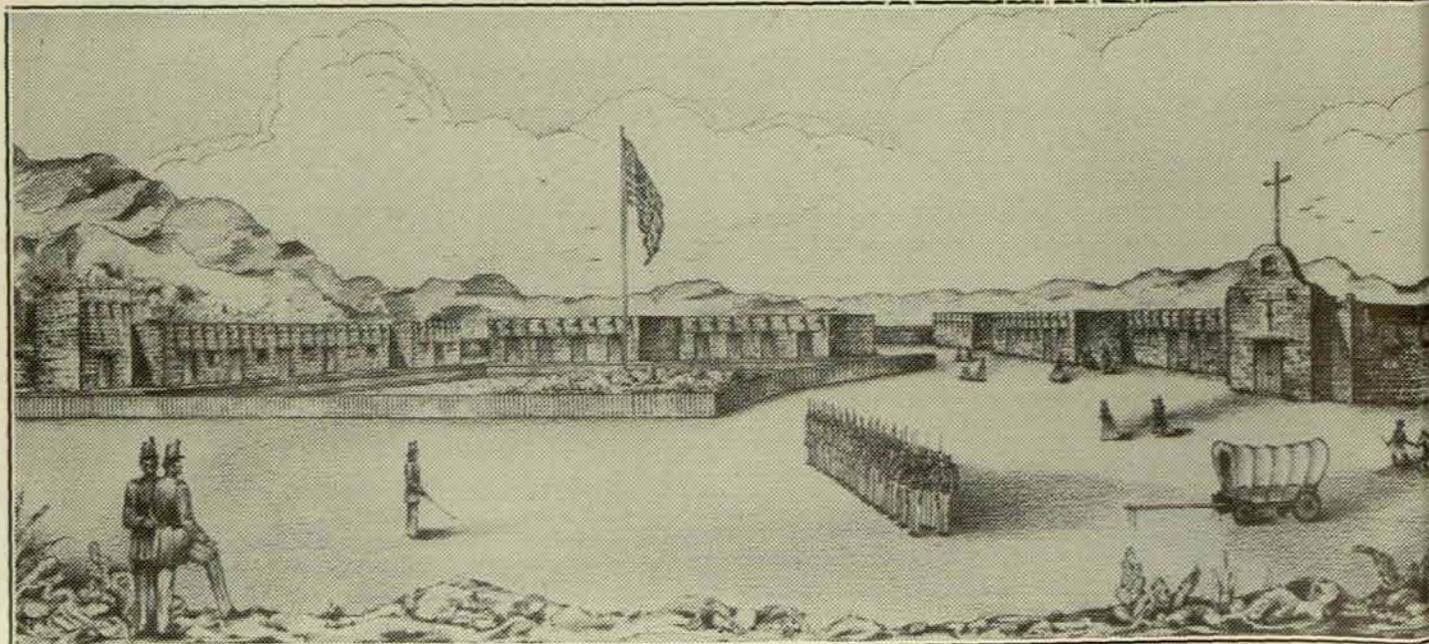
First loans for financing can generally be gotten for 5%. However, some are already financed. Mortgage companies usually charge 5% plus a monthly deposit of enough to pay taxes and insurance by the end of the year.

It was found that a buyer can save on insurance if he can pay it himself on a long-range basis rather than to the mortgage companies, which carry it on a one-year basis. Insurance rates seemed to be higher than comparable policies in the Washington, D. C., area. Usual policies sold were of the \$100-deductible type.

Staff of the American Army—John J. Pershing, Peyton C. March, and Hugh L. Scott—trained at Fort Bliss. Many other names famous in the war annals of the country are

found on the service records of the garrison—James Longstreet, J. E. B. Stuart, Dabney Maury, Kirby Smith, "Prince John" Magruder, George H. Thomas, and Fitzhugh Lee.

Old Fort Bliss as it will appear on the 3¢ Fort Bliss Centennial Postage Stamp that will have first-day cancellation at El Paso on November 5, 1948. This picture is taken from an etching that now hangs in the Commanding General's office at the Fort.



preparation of military characteristics, and performance of users' tests. Constant experimental work is carried on with weapons, as well as research and investigation into current methods of anti-aircraft warfare.

Under the immediate supervision of its Deputy President, Colonel Lester D. Flory, the Board has two service test sections—one for guided missiles and the other for anti-aircraft artillery.

The Board operates a permanent guided missiles exhibit, with excellent examples of different propulsion systems, launchers and currently available guidance and control equipment. The exhibit is used for study by students at the Antiaircraft and Guided Missiles Branch of The Artillery School, members of the Board, and for showing to official visitors to Fort Bliss.

FIRST GUIDED MISSILE REGIMENT

The *First Guided Missile Regiment* was activated on May 31, 1948, at Fort Bliss. It is an outgrowth of the First Antiaircraft Artillery Guided Missile Battalion established in October 1945, and is the only organization of its kind in the Army.

Like its predecessor, the Guided Missile Regiment works in close liaison with Army Ordnance and the Navy in de-

velopment and testing guided missiles. It is assigned to the Fourth Army with regimental headquarters at Fort Bliss, but much of its work is carried on at White Sands Proving Ground, New Mexico.

The Regiment's personnel serve as machinists, sheet metal workers, ground crews and instrumentation workers, as well as carrying on the usual administrative and housekeeping duties of the organization. It is under the command of Colonel Guy H. Stubbs. [A fuller discussion of the activities of the First Guided Missile Regiment will be carried in a future issue of the JOURNAL.]

GENERAL RESERVE UNITS AND TRAINING RESERVE UNITS

The *General Reserve Units* at Fort Bliss contain troops who have already been trained and who would be first to carry the burden of military duty in case of war or a national emergency of any kind. They carry on training, put on firing demonstrations for students, participate in reviews, and in general perform all the duties of fully trained troop units at the Post.

Training Reserve Units train all recruits in basic military subjects, such as drill, care of equipment, health routines, rifle firing, and will train the thousand of selectees to be stationed at Fort Bliss during the coming months.



Report On AAA Expansion

To date progress in the training of new personnel and in the activation of additional Antiaircraft Artillery units has been slow and painful but the picture looks considerably brighter for the next few months.

Trained anti-aircraft artillery cadremen, and trained common specialists have arrived at Fort Bliss and are being utilized for the organization of new units, and to provide full strength to old units. This phase of training is proceeding according to plan except that delays in arrival of cadremen have resulted in some slight delay in the phasing that had been planned.

More than 1700 newly enlisted personnel have arrived at

the Fort and are well advanced in their basic individual training.

Considerable difficulty has been experienced in locating skilled anti-aircraft artillerymen because many have served a hitch or two in other units and have thus developed new MOS's. However, these difficulties are being solved and the basic requirement for trained anti-aircraft artillery cadremen will be met.

Antiaircraft artillery expansion in the Zone of the Interior represents an increase of approximately 3,000% over the previous anti-aircraft artillery status, compared with a total over-all Army expansion of approximately 40%.

AAA And Faster Ducks

By Colonel Clyde R. Nichols, CA-Reserve

Antiaircraft originated in France in World War I when some French 75mm artillery guns were turned over to the U. S. Field Artillery to adapt as best they could into anti-aircraft guns. The projectiles were filled with half-inch lead balls and were powder-train fuzed. There were no special aiming devices or computers. The three elements of data—lead, elevation, and fuze setting—were all guesswork. Simple open gun sights were used. It was just like duck shooting, except that the duck was farther away and moving faster.

The powder-train fuze had to be set by hand with a wrench; it was erratic in its burning time, and there was a delay of several seconds in getting it in the gun barrel and fired. This added to the inaccuracies of the setting. The 75mm gun mounts were never intended for 360° of traverse or vertical fire, and they couldn't be elevated or traversed fast enough to keep up with the duck, let alone lead it. Thus, it was luck of the order of winning the English Grand National Sweepstakes Lottery if the duck happened to get itself in the one place in all the celestial heavens where the projectile was at the instant it exploded.

By the close of World War I the best mathematicians and ordnance experts in all France and America had developed a most elaborate system of shooting ducks, employing equipment consisting of: French RA Corrector, 75mm or 3" guns with offset gun sights, two altimeters (one for flank station), spotting telescopes for deviations in three dimensions, telephonic communications, and a 24-man team (including 8 observers and 11 instrument operators—or 19 chances for human error).

One element of data—the ground speed of the duck—was still guesswork. And the chances for human error were astronomical:

1. The vision of any observer could be obscured by gun smoke, clouds, or darkness.
2. Any observer could fail to keep his scope cross-hairs centered on the target.
3. Any instrument operator could set a scale wrong.
4. Any instrument operator could read a scale wrong.
5. Any operator could read one thing with his eyes and say another thing into his phone, especially under battle excitement.
6. Any operator could hear one thing over his phone and set another on his instrument.
7. Any phone operator might not hear over his phone, especially when the guns were firing.

The geometric progression of these human chances for error, coupled with all the mechanical defects of the guns and fuzes and the guesswork of one element of data, made our chances of hitting the duck very small.

With the close of World War I, antiaircraft was almost forgotten, except by a few air-conscious individuals. Finally in 1921 Congress decreed that we would have AAA, but

didn't create enough to make it a separate branch. The Field Artillery shot only at still objects and would not have AA. The Coast Artillery did shoot at slow-moving targets on the water. So AA became the orphan child of the CAC "because attacking planes would come in over our coasts."

CAC nurtured the stepchild and set out to correct its faults. Six batteries were formed, five at continental seacoast posts and one in Panama. By 1923, six National Guard regiments of AAA were organized, and AAA was on its way. However, if we were ever going to kill a duck we had to eliminate the errors. We invented electrical transmission of data in 1931, which gave us instantaneous and continuous flow of data. We invented the stereoscopic height finder in 1931, which eliminated the necessity of tracking the target from two stations some two to five miles apart. And we bought 12 Vickers Computers from England in 1931, which were the first computers in which there was no guesswork about any element of data. Also the Sperry Gyroscope Company began to build better computers (called directors) for us. We invented a mechanical time-fuze (a 17-jewel Waltham watch) accurate to 1/100 second, but did not have a comparable fuze setter nor a compensator for "dead time." Therefore, no troops were ever trained in the use of it. Besides we did not consider it good economy during the depression years to shoot off a good 17-jewel watch with every round fired.

These steps did away with 10 of the 12 telephones, and reduced the instrument stations from 5 to 3. This was all the progress made toward eliminating the errors for a decade, so that six months after our entry into World War II we still had 3 instrument stations, 2 phones, 7 observers, and 10 instrument operators—still no better than Sweepstakes odds of killing a free-maneuvering, high-speed, 1941-model duck—no better than we were at the end of World War I in spite of 23 years of development.

We still had to do better if we were ever going to hit any enemy ducks. *Remote Control* was invented early in 1942. These two words were thought to be magic and 20,000 90mm guns equipped with it were ordered.

During the period July 1942 to December 1944 our research and development people worked, and worked hard:

1. An automatic radar tracker and height finder was perfected, which could automatically track through clouds or at night, with only one attendant, who didn't have to touch a single thing while it was actually tracking. And this automatic radar tracker and height finder could be used with any type of gun we had. **THIS ELIMINATED ALL OBSERVERS.**

2. The Sperry mechanical directors were improved to the point where they could be used with the radar tracker and height finder without having to use visual tracking.

3. An "All-Electronic" (289 vacuum tubes) Director was developed which was fully automatic and required only one

attendant, who didn't have to touch any controls after the initial settings were made and it was actually operating.

4. Finally, late in 1944, an "in-line-of-bore" *power loader* and fully automatic and remote controlled *fuze setter* was made. This was attached to the rear of the breechblock, which necessitated moving the gun tube forward on the mount, and unfortunately could not be put on the 20,000 guns already in use. The power loader literally rolled the shell into the gun at several times the rate it could be loaded by hand, and the fuze setter set the fuze as the shell moved in the gun. This considerably reduced the dead time. As this "in-line-of-bore" fuze setter could not be placed on the old mounts, we ordered 500 90mm guns equipped with it, of which we received about 200 by V-E Day.

With the few units that were equipped with this type of matériel, the duck shooting score now approached 0.100, to use baseball parlance.

The in-line-of-bore fuze setter was still not the whole answer to the fuze problem. The ideal fuze was one that didn't have to be set, and yet would explode when it was close to the duck. We knew we had a successful fuze of this type as early as 1942, but we also knew the Germans would be shooting it back at us within 60 days if they ever got their hands on one of ours, so it was not released to the AA or Ground Troops until the end of the war was very near. Thus, not until the AA Defense of Antwerp was the V-T (variable time) or "proximity" fuze released for Army use.

The proximity fuze is a small radar set completely self-contained, which sends out radio waves as it speeds through the air, and the reflected waves from the target are received back by the fuze with ever-increasing intensity, which, when the fuze is just short of the target, is intense enough to trigger the firing element.

Because recovery of shells from water was a practical impossibility, the Navy could use the V-T fuze, and did so continuously from January 1943. This is probably the main reason why the Navy's AA firing was better than the Army's for nearly two years, and why so very few Jap suicide planes got through to do any damage.

In February 1945, after the Army got the proximity fuze, one battery in the Pacific using the latest equipment brought

down 12 planes out of 12 with only 73 rounds fired. In Italy in the same month one battery brought down 6 planes out of 7 with only 15 rounds fired, and this was at 30,000 feet—the first time a plane had ever been hit at this altitude. At Antwerp, for the latter period of the operations of the AA defense of that city, the AAA brought down 97% of all buzz bombs (V-1 rockets) actually fired upon. The batting average was now approaching 1.000.

Radar sets of today are capable of tracking a projectile in its flight, and it is quite interesting to watch a shell approach a plane on the radar screen. All that is left to be done now is to develop the "Guided Missile" so that corrections for lead and elevation can be made after the projectile is in flight. We would then bat 1.000—a duck for every shell fired.

Possibly this history should close at this point, for a duck for every shell fired is pretty good, but the fact is that while we were developing duck-shooting equipment, the ducks developed too. All the ducks of World War II, with one exception, were subsonic in speed, *i.e.*, moved with a speed less than the speed of sound. These included the German V-1 buzz bombs. The equipment we have *now*, is adequate against ducks of the subsonic type.

But one duck—the German V-2 Rocket—is of an entirely different breed. It can travel 3500 miles per hour, which is 5100 feet per second—almost twice the muzzle velocity of our AA guns. It can climb 65 to 85 miles in the air, which is 6 to 8 times the maximum reach of our largest AA guns. And the best radar sets we have can track it only if they can pick it up, which in itself is a most difficult task.

Against such targets, our present AAA equipment, as fine as it is, is inadequate. We need detecting devices more sensitive than radar, to tell us when the duck "takes off." We must develop intercepting devices that exceed the speed of the ducks, and with greater maneuverability.

We need not be discouraged by the new missiles. Shooting them—just as we mentioned in the beginning—is still "just like shooting ducks," but we need a more efficient shotgun.

They are only a challenge—and it is believed that the ingenuity that developed the finest AAA in the world can cope with any duck of the future.



The provocations to which our soldiers are being subjected [in Berlin] are full of dynamite, and the American people are greatly in the debt of the men in uniform who are putting up with affronts in the interest of a peaceful settlement based upon treaty respect.—EDITORIAL from *The Washington Post*.

Enlisted and Warrant Officers Career Guidance Program

By Brigadier General J. J. O'Hare

For the past two years the Department of the Army has been preparing the Warrant Officers and Enlisted Career Guidance Program. This program was announced by Circular 1, 1 January 1948, and actually placed into operation by Circular 202, 7 July 1948. This program constitutes a major reform of our system of personnel administration for enlisted men and warrant officers. It is in effect a new master personnel management plan covering the classification, reclassification, assignment, and advancement of enlisted men up established pathways of advancement in one of some fifty major specialty areas, called "career fields."

This program has a most important military objective—the restoration within the Army of a professional career Non-Commissioned Officer Corps, properly trained and orientated, to serve as the foundation of our peacetime Army and the framework for any mobilization effort. It has been apparent that during the war and during demobilization, particularly with the relatively large size of our post-war Army, we have lost or spread far too thinly our old NCO backbone. In our struggle first to recruit back into the service and then to retain within the Army those we recruited, we have not yet found a way to re-create our properly qualified career NCO.

The career program is designed to build back this NCO professional career group by providing the right caliber of man with a sufficiently attractive opportunity for advancement in the Service to secure his enlistment and his retention. By instituting a competitive system of advancement by promotion examination up an established pathway geared to adequate individual preparatory training, we can develop the right type of individuals to become the qualified professional NCO's for which we aim.

In developing a "career" in the service that would attract and retain the right type of material for this competitive development, two goals were sought: *first*, to build a pathway of advancement that a soldier could see, understand, and compare with civilian life, and one that would favorably compare with what he might see outside the Army. *Second*, to build a set of procedures that would permit a man to climb this advancement pathway without the stumbling blocks which men thought they met or did meet in the present personnel system. Such stumbling blocks are dead end jobs, supposed fear or favor in local promotions, lack of position vacancies in the unit, accident of assignment, waiting for the individual ahead to die, disgrace himself, or retire in order to get his job and grade, and the orderly room gang.

To these two goals must be added a *third* element—concentration on the improvement of our human relations

and methods of handling each other as individuals—the fullest expression of that set of policies was announced by D/A Circular 121, 1948 as the "Personnel Policy of the Army."

In building any pathway of advancement in the service—or "career"—that would stand favorable consideration in competition with other Services and with civilian life, a starting point had to be selected. Troop attitude research on what the soldier thought was his worst grievance under military life was taken as a cue. It was discovered from this research that over and over again the soldier selected as his most pressing grievance what can best be described as "job dissatisfaction." This is somewhat surprising to most people who think that the modern soldier still has no knowledge of his MOS or scorns the Army's attempts properly to manage him occupationally.

In building the pathway of advancement, then, the job soldiers perform—whether it be the duty of rifleman or the duty of cook—was taken as the starting point. Rather than base our new system on the present war-created MOS system, the planners chose to go behind that somewhat shaky structure. They therefore engaged in a sweeping, professional job analysis survey of all our military enlisted jobs. Using approved techniques for job analysis, they embarked on what was probably the largest single job analysis program ever undertaken by any agency.

The purpose of this job analysis program was to define and identify the military enlisted jobs of the Army, to establish their physical and mental requirements, and to determine which jobs could and should be performed by WACs. These military jobs serve as the building blocks for a pathway of advancement. In addition to developing these concrete facts about our military job structure, the Army has tackled for the first time the question of uniform job grading. It is hard to realize that the Army has never before graded its jobs on any uniform basis. Grading, however, has in the past been handled by the many proponents of the several Tables of Organization, each proponent doing, relatively speaking, what he wanted in preparing his own Table. We have, as a part of our job analysis, also conducted a thorough job grading program. This job grading program has been designed, not only to make uniform the pay grade for the same job throughout the Army, and to equalize pay grades for like jobs of equal skills and abilities, but, more important, to up-grade appropriately many jobs of the Army until we have obtained a grade level parity between combat and service jobs and, over that, a parity with other Armed Forces. Our job up-grading is aimed at reaching a point where 10% of our enlisted jobs are authorized for grade 1.

Utilizing these identified and up-graded military jobs, the planners then established a regular job progression—from one job on one grade level to the same or another job on the next higher grade level. They grouped these so-called “job-progression ladders” into some fifty fields of specialization—called “career fields.”

The pathway of advancement for any enlisted man runs up the appropriate job progression ladder in his appropriate career field, from job to job and grade to grade, in an established job progression. An enlisted man can thus, for the first time in the Army, examine his particular career field diagram and see where he stands, what the actual job progression is ahead of him. For the first time he is able to see exactly where he is going!

How far can he go? In building this pathway of advancement, we were not content to keep the present grade one ceiling. It was thought necessary to raise the ceiling above grade one if we wanted the pathway of advancement to compare favorably with civilian life. Therefore, the warrant officer jobs were taken, and, based on pending legislation establishing four warrant officer grades with pay equivalent to that obtained by Second Lieutenants, First Lieutenants, Captains, and Majors, they occupationally placed these warrant officer jobs in their four grades at the top of the enlisted job progression ladders and at the head of each career field. The ceiling for an enlisted man was thus lifted from grade one to the 4th warrant officer grade, the equivalent of major's pay and allowances. The pathway of seven grades was extended to one of eleven grades.

In each career field there has been constructed a similar pathway of advancement covering eleven grades, instead of seven, running in regular progression job by job, grade by grade, from the lowest grade—grade seven, recruit—to the top warrant officer grade—at the top of the ladder with major's pay and allowances—the new ceiling for an enlisted man.

On this pathway of advancement has been fixed a time scale so that an enlisted man can now look forward, if he climbs his ladder at top efficiency, to reaching the top of the ladder in a fixed and certain period of time. He will reach the fourth grade in his first three-year enlistment if he passes the appropriate fourth-grade promotion examinations. He can reach first grade in his second three-year enlistment. He can climb into the warrant officer bracket in his third three-year enlistment. He can reach the top of the ladder—the 11th grade—major's pay and allowances—in what would be the first part of his fifth three-year enlistment or in approximately 16 years. Sixteen years is then the minimum time scale to reach the ceiling—major's pay and allowances—the 11th grade under the career program.

In climbing this pathway, a man generally can move from grade seven to grade six in a minimum of 4 months, from grade six to grade five in a minimum of 6 and a maximum of 12 months in grade, from grade five to grade four, provided the soldier passes the appropriate fourth-grade job examinations he selects, in a minimum of 12 months in grade.

For promotions up to and including grade four there is no longer any requirement for a position vacancy in the unit. Promotions can be obtained earlier against vacancies provided the man passes the appropriate grade four ex-

aminations. But, in any event, promotion will be obtained after the minimum of 12 months in grade 5 without regard to vacancies in any unit or command.

To be promoted into the upper three grades the individual must compete on a uniform world-wide promotion examination which he selects for any job and grade on the next grade level in his career field. He is promoted against pooled world-wide vacancies for the particular job and grade for which he is competing. There are minimum times in grade for eligibility to compete in the upper three grades—12 months to grade three and grade two and 18 months for grade one.

In determining the highest scorers to be promoted against the pooled world-wide vacancies, a composite score technique was developed in which three elements will be weighed—one derived from the promotion examination in which the competition is taking place, one based on the efficiency with which the competitor performs his present job, and one based on longevity factors. These three factors make up what is called the individual's composite score. This composite score actually governs his promotion.

The promotion examinations, which must be passed for any promotion to grade four and up, are uniform and Army-wide in character. They will be administered and the examination scores will be computed at designated screening points to insure fairness and impartiality. Examinations will fit the particular job and grade to which applicable. Some will be pencil and paper examinations, but no essay questions. Some will be practical type demonstration examinations, particularly for jobs in the combat arms. Some will be a combination of both types.

To prepare for examinations the Army offers five individual training systems—our world-wide school system, on-the-job training, off-duty study with USAFI, specialized training programs or “cram” courses for local administration by appropriate officers, and, taking a leaf from the Navy, a self-study manual for each job and grade for which examinations are required, so that any individual can on his own initiative acquire the know-how to pass the examinations he elects to take.

Side by side with this system of advancement was set up a system of restrictive assignment for men classified into career fields. This system is intended to insure that men are given a chance to advance in their own field without the interruption occasioned at present by possible assignments to other types of jobs outside their regular field each time they change station or unit. With this restrictive assignment system, we have also installed a system of lateral transfers which permit an individual to apply for transfer in duties to another field. The Army itself, to meet its requirements, also can laterally transfer a man from one career field to another.

A new system of reclassification has been perfected which provides the individual and the Service with a fairer and more integrated over-all efficiency evaluation and disposition when an individual's efficiency has been challenged. This system will replace the present separate and somewhat isolated set of procedures under which commanders today can separately institute discharge procedures, reduction, or MOS changes because of inefficiency. To measure for the first time in a uniform manner each man's per-

formance of duty, an enlisted efficiency report has been developed and introduced for personnel classified into a career field.

In order to accomplish the desired up-grading program the thorny question of the changing of our pay grade titles had to be tackled. If we up-grade the Rifleman, for example, from grade seven and six to grade five, it is obvious that we can no longer keep grade five in the NCO category.

It was therefore necessary to reduce the NCO categories from five pay grades to four pay grades and to convert the pay grade title of the fifth grade from an NCO title to a private soldier's pay grade title in order to carry out our large scale up-grading program in the lower graded jobs. Once we tackled this question of changing pay grade titles, it was decided to abolish the technician titles in favor of a single set of pay grade titles. In the adjustment of our pay grade titles to permit up-grading and to change the fifth grade title from an NCO to a Private, a new set of pay grade titles and stripe arrangements has been evolved which became effective 1 August this year. Changes in titles and stripes, although they do not involve any pay changes, are admittedly hard for those involved to appreciate. It is important therefore for everyone to realize that these pay grade title and stripe changes originated in the job up-grading program designed to put more pay in the lower graded soldier's pocket.

As the career guidance system is phased in field by field, the Army must continue to operate on a dual personnel basis. We utilize the new career system for men classified into career fields. We continue to use the old personnel system for men awaiting the introduction of their applicable career field. As a part of career guidance, however, we have made some substantial reforms in the promotion procedures of the old system. These reforms, at this point, with only one career field introduced, affect practically the en-

tire Army. We have eliminated the requirement of position vacancy for promotion up to and including grade four, which is presently the rule, and have substituted a time in service requirement in its place.

A soldier is able, under this reform of the present promotion system, to be promoted to grade five without regard for unit vacancies when he has 16 months of total service and to grade four without regard for unit vacancies when he has 30 months of total service, provided his work has been satisfactory to his unit commander. A soldier can still be promoted earlier in the old fashion against local vacancies if they exist.

To be promoted to the first three grades in the non-career guidance system it is still necessary to meet the requirement of position vacancy. However, this aspect of the program is being worked on to develop more promotions in the first three grades under our present system for those not yet classified into any career field. The expansion of the Army will in itself provide more vacancies and will render substantial assistance in opening up more promotions in the first three grades for personnel outside of any career field.

This then is our Career Guidance Program—with its new pathway of advancement for enlisted men, with a new ceiling, based upon established job progression, utilizing a new job grading to make uniform, to equalize, and to increase pay men receive for jobs, with a new set of advancement procedures calling for a man to move upwards in job and grade by competitive examination against pooled world-wide vacancies and requiring him to demonstrate his capacity prior to assumption of increased responsibilities. This type of career guidance, it is believed, will accomplish its intended aim—to build back into the Army a properly qualified and motivated NCO professional career corps.



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The New Articles Of War*

By Colonel Frederick Bernays Wiener

Here's a lucid explanation of the new Articles of War, by the author of "Military Justice for the Field Soldier" and "A Practical Manual of Martial Law." This article, considerably expanded with a comparative text of new and old Articles of War, will be available soon in book form from the *Antiaircraft Journal*.

Title II of the Selective Service Act of 1948, approved June 24, 1948, amends over one-third of the existing Articles of War and effects changes in the status and the promotion rights of The Judge Advocate General's Department (renamed The Judge Advocate General's Corps). Its provisions become effective on 1 February 1949. These new Articles of War will be explained and implemented in detail in the new edition of the *Manual for Courts-Martial* now in process of preparation. What follows is primarily an exposition of the changes made by Congress, pointing out the differences as compared with existing law.

The new revision is an outgrowth of the criticism of the administration of military justice during World War II, just as the 1920 revision followed similar criticism arising out of World War I. In both instances, however, the changes made have been evolutionary rather than revolutionary. The 1948 amendments do not separate courts from command, but they provide, as will be pointed out in detail below, for far more participation by legally trained personnel in the conduct of trials and of pre- and post-trial procedure; they retain the system of review by appointing authorities but eliminate confirmation by field commanders, vesting the confirming power (in all except presidential cases) either in the Secretary of the Army or in agencies established in The Judge Advocate General's Office; they retain the now familiar Boards of Review but provide also for Judicial Councils normally composed of only general officers; they make enlisted men eligible to sit on courts, with certain qualifications, but only at the option of the accused; and they provide a separate promotion list for officers of the JAG Corps, and give JAs certain statutory rights with respect to access and channels of communication, but do not establish them as a completely autonomous body of untouchables within the Army.

It is doubtless fair to say that the bill as passed represents a compromise between conflicting views, and that, as is usual in all cases of compromise, no single point of view will be completely satisfied by the result. The bar associations, who argued vigorously for the complete separation of military justice from command, a separation as complete as that between the Presidency and the Federal Judiciary,

are already bursting into print, charging that the revision is inadequate. Those who believed, whether from instinct or experience, that the 1920 Articles of War represented the best of all possible systems, are privately grumbling that the Army is now hamstrung and tangled up with lawyers. There is probably universal agreement that some of the changes represent a distinct improvement. What the ultimate effect of the revision will be, no one of course can now predict, least of all before the appearance of the new MCM. But it may be ventured as one man's opinion—and I do not purport to voice any views but my own¹—that the new AWs will work satisfactorily in the hands of trained personnel, CGs therein included, and that they will not work, well or otherwise, in the hands of untrained personnel. Congress can rewrite the AWs annually. But Congress cannot legislate either the desire to do justice or the ability and knowledge necessary for the doing of justice. Those are qualities that must be studied, taught—and learned.

APPOINTMENT OF COURTS-MARTIAL

The new AWs retain the basic principle, traditional in our service since the Continental Articles of War of 1775, and in the British service long before then, that courts martial are to be appointed by commanding officers. New AW 8 broadens the categories authorized to appoint GCMs, in the absence of specific authorization by the President, by adding COs of army groups, COs of units of the ground forces corresponding to anything in size from an army group to a separate brigade, and the CO of any command to which a member of the JAGD² is assigned as Staff JA. The language of AW 9, with reference to the appointment of SCMs, is similarly broadened to expand the categories of appointing authorities.

JURISDICTION OF SCM

The jurisdiction of special courts-martial is enlarged, so that officers are now triable by SCM, without any power in the President to exempt them from such trial. Prior to

¹If anyone is interested in my previous slants on this military justice business, he can find them fully set forth in *The Court-Martial System*, *Infantry Journal*, January, February, and March, 1947.

²Not a misprint. It is "JAG Department" throughout the revised AWs and "JAG Corps" in the remaining sections of the law!

*Abridged from the September, 1948 issue of the *Infantry Journal*, by permission.

1943 no person above the grade of master sergeant could be so tried, and since 1943 only commissioned officers have been exempt. New AW 13, by eliminating the power to exempt, will greatly simplify the handling of minor offenses committed by officers which are too serious for action under AW 104 and which still would not justify dismissal.

Only officers, warrant officers, and cadets at the Military Academy will now by law be exempt from the jurisdiction of summary courts, and a noncommissioned officer objecting to trial by Sum CM can now (new AW 14) be brought before such a court by the officer competent to appoint a special court-martial. Up to now only the officer with GCM jurisdiction was able to do this. But the President still has exempting power as to the categories triable by Sum CM, and only the new *Manual* will show how far the exemptions will go in the future. (At present, the first two grades are absolutely exempt, while all above Pfc. and below T/Sgt. can be brought before a Sum CM by the officer with GCM jurisdiction over them. Par. 16, MCM.)

Both the GCM and the SCM are now given power to adjudge a bad conduct discharge, the SCM under very strict safeguards (which are considered below). And the GCM may in time of war, adjudge reduction to the grade of private in officer cases in lieu of dismissal (new AW 44). There is, however, no specific provision for dismissal from temporary rank; apparently that must still be effected by reclassification or other administrative action.

FORFEITURES UNDER AW 104

Punishment under AW 104 is slightly expanded so far as enlisted men are concerned,³ but the power to impose forfeitures of pay on officers is drastically widened in several respects. First, it may be exercised at any time; under the present law it is limited to "time of war or grave public emergency." Second, it extends to warrant officers and to any officer below the grade of BG; at present warrant officers are exempt from any forfeiture, and only company grade officers could be so punished in time of war, etc. Third, the authority to impose forfeitures, now limited to COs of the grade of BG or better, is extended to any officer regardless of grade, who exercises GCM jurisdiction (but is denied even multi-starred generals without such jurisdiction). Finally, the forfeiture, now limited to half a month's pay for one month, can extend to half a month's pay for three months. In short, just so long as the pocket nerve remains sensitive—and with most of the lads (and lassies) it is very sensitive indeed—new AW 104 will pack a mighty wallop. Without question it will be a most effective disciplinary sanction for unruly commissioned personnel.

No doubt this power is subject to abuse, and no doubt in some hands it will be abused. But the officer sought to be punished still has the right to demand a trial by court-

³New AW 104 now permits the imposition of a combination of any of the punishments therein listed, without apportionment as heretofore. It clarifies the time provision; now it is "for not exceeding one week from the date imposed," the italicized words being aimed at the illegal practice of imposing punishment for seven successive Sundays, and similar unauthorized inventions. Moreover, new AW 104 makes clear that punishment thereunder is not a bar to a subsequent trial for any serious crime growing out of the same omission and not properly punishable thereunder—this to curb the tendency of some company commanders to insulate their miscreants from action by higher authority by acting promptly under AW 104.

martial. Where the CO is arbitrary and the offense trivial, a court may well be more lenient than the Old Man. If, however, the officer concerned does not care to risk a trial, he cannot by accepting company punishment and thereafter appealing to higher authority argue out the question of his guilt or innocence; he can appeal only on the ground that the forfeiture was too stiff.

My own view is that the danger of possible abuse is far outweighed by the salutary disciplinary features of the new provision, which for the first time give a CO a real means of dealing with his unruly boy majors and boy colonels. But of course neither new AW 104 nor any other provision of the old or new Articles makes legal the fines for not wearing neckties, etc., which were assessed without resort to trial or to action under AW 104 in certain NATO and ETO jurisdictions during the war. That procedure was simply illegal, period. And it may be noted here, just in case any CO gets ideas, that his power under AW 104 extends only to "persons of his command" and "a warrant officer or officer of his command." Visiting firemen and lads from adjacent outfits can't be dealt with under AW 104.

MEMBERSHIP OF COURTS

The outstanding change in this connection is the provision (new AW 4) making warrant officers eligible to sit on general and special courts for the trial of warrant officers and enlisted persons, and the provision (also in new AW 4) making enlisted persons competent to serve on GCMs and SCMs for the trial of enlisted persons "when requested in writing by the accused at any time prior to the convening of the court." In that event, no enlisted person may, without his consent, be tried by a court whose membership does not include enlisted personnel to the number of at least one-third its total. However, new AW 16 goes on to provide that "No enlisted person may sit as a member of a court-martial for the trial of another enlisted person who is assigned to the same company or corresponding military unit," and, further, that "in no case shall a person in the military service, when it can be avoided, be tried by persons inferior to him in rank."

In other words, sergeants are to try privates, and not vice versa. Consequently it may be ventured with some degree of assurance that the ordinary GI Joe (or GI Jane) will not make the request in writing mentioned in new AW 4, preferring to take his chance with softhearted young lieutenants or captains than with hard-boiled old sergeants, and that, as to the guardhouse lawyers who have the matter angled otherwise, one experienced with EM on a court (assuming that these have been carefully selected (AW 4) as "best qualified for the duty by reason of age, training, experience, and judicial temperament") will lead to no such further request in that command for some time to come.

With reference to GCMs, new AW 8 now provides in peremptory fashion that the law member must be a member of the JAGD or a duly admitted lawyer certified by The JAG and, further, that the court may not receive evidence or vote on finding or sentence in his absence. At present he need not be either a JAGD officer or a lawyer, nor need he be present unless the appointing authority has specifically so directed (par. 38c, MCM). Moreover, as will be pointed

out below, new AW 31 confers greater powers on the law member, who can no longer be overruled by the court on any interlocutory question.

New AW 11 provides that, *if available*, both the TJA and defense counsel of each GCM shall be officers of the JAGD or members of the bar; and that, if the TJA is either a JAGD officer or a member of the bar, the defense counsel *must* likewise be such. New AW 11 further provides that no person who has been investigating officer in any case shall subsequently act in the same case as a member of the prosecution, or as staff judge advocate, or, unless expressly requested by the accused, as defense counsel or assistant defense counsel. There are similar limitations as to officers who have previously acted in other capacities in the same case, but the former investigating officer is specifically mentioned at this point since that has been the dual status most frequently met with in the past.

PROCEDURE PRIOR TO TRIAL

New AW 16 provides that no person awaiting trial shall "be made subject to punishment or penalties other than confinement prior to sentence on charges against him." While this was primarily aimed at the practice of imposing disciplinary training and hard labor while the accused was in the guardhouse awaiting trial, the language is broad enough to prohibit reduction to the ranks (and, presumably, reclassification) before trial is had. The exact scope of the provision will not be known before publication of the new *Manual*.

The provisions as to the preferring, service, and forwarding of charges, and for pre-trial investigation have been transferred from AW 70 to new AW 46. The only material change is that the accused, at the pre-trial investigation, may have counsel if he so requests, civil counsel if he so provides, military counsel if reasonably available, otherwise, by counsel appointed by the officer exercising GCM jurisdiction over the command. Whether, in view of this change, pre-trial investigations in the future can still, in the language of the present *Manual*, be "prompt, dignified, and military" (par. 35a), will depend in large measure on the competence and personality of the investigating officer. Certainly it suggests that, in the future, the investigating officer had better be a pretty able-bodied citizen.

New AW 24 provides that "the use of coercion or unlawful influence in any manner whatsoever by any person to obtain any statement, admission or confession from any accused person or witness" shall be a military offense, and enacts in positive form what had hitherto been the accepted practice, *viz.*, that

"It shall be the duty of any person in obtaining any statement from an accused to advise him that he does not have to make any statement at all regarding the offense of which he is accused or being investigated, and that any statement by the accused may be used as evidence against him in a trial by court-martial."

New AW 25, dealing with depositions, now provides that, at any time after charges are signed and before they are referred for trial, the competent appointing authority may designate officers to represent the prosecution and the defense, and may authorize them, upon notice, to take

the deposition of any witness. The depositions so taken may later be received in evidence as in any other case.

New AW 22 guarantees the right of the defense to obtain witnesses, by providing explicitly that defense witnesses shall, upon request by the defense counsel, be subpoenaed by the TJA in the same manner as witnesses for the prosecution.

PROCEDURE DURING TRIAL

The principal change, already noted above, is that the trial cannot proceed in the absence of the law member (new AW 8), and that his rulings on all interlocutory questions, other than challenges or a motion for findings of not guilty or the question of an accused's insanity, are final and not subject to being overruled by the court (new AW 31). However, the law member may consult with the court in closed session before making a ruling, and may change any ruling made while the trial lasts. And new AW 31 goes on to provide that—

"It shall be the duty of the law member of a general or the president of a special court-martial before a vote is taken to advise the court that the accused must be presumed to be innocent until his guilt is established by legal and competent evidence beyond a reasonable doubt, and that in the case being considered, if there is a reasonable doubt as to the guilt of the accused, the doubt shall be resolved in the accused's favor and he shall be acquitted; if there is a reasonable doubt as to degree of guilt, the finding must be in a lower degree as to which there is no such doubt; that the burden of proof to establish the guilt of the accused is upon the Government."

New AW 24 makes inadmissible in evidence any statement obtained through the use of coercion or unlawful influence in any manner.

CONFIRMATION

Under existing law (AW 48) the President is required in time of peace to confirm four classes of sentences: (1) any sentence respecting a general officer; (2) any sentence extending to the dismissal of an officer; (3) any sentence extending to the dismissal or suspension of a cadet; and (4) any sentence of death. Actually, under Executive Orders issued pursuant to the War Powers Acts, the President since May 1945 has been acting only on death sentences, the rest being delegated to the Secretary and Under Secretary of War (or of the Army, after unification). Under existing law, also, in time of war certain commanding generals in the field had confirming powers in respect to the dismissal of officers below the grade of BG, and in five classes of death sentences, for murder, rape, mutiny, desertion, and spying. In World War II, only overseas theater commanders were allowed to exercise such powers.

New AW 48 changes all this. No field commander now will have any powers of confirmation, and the President's duties are materially narrowed. Under the new law, the President passes only on death cases and on those involving general officers. No longer will the White House be the ultimate agency of appeal for parents of misbehaved lieutenants found drunk, or in the wrong bedroom, or caught

passing rubber checks. And the basic confirming agency will be the Judicial Council. It will be the confirming agency alone whenever there is a disagreement between The JAG and the Board of Review in a case not normally requiring confirmation. It will be the confirming authority, together with The JAG, in cases involving life imprisonment, dismissal of officers below the grade of BG, and dismissal or suspension of cadets. In such cases, if The JAG does not concur with the Judicial Council, the Secretary of the Army acts as confirming authority. There are refinements, but the above is the substance of the new provisions.

BAD CONDUCT DISCHARGE CASES

In the interest of clarity, I have not heretofore discussed the Bad Conduct Discharge in detail; here all the applicable provisions relating to it will be collected.

The Secretary of War's Committee (selected by the American Bar Association) recommended that the Army follow the Navy in adopting a Bad Conduct Discharge, being largely motivated by the thought that the stigma of a dishonorable discharge should be spared soldiers guilty of the (from the civilian standpoint) less serious offenses.

Accordingly, both GCMs and SCMs are now authorized to adjudge BCDs (new AW 12; new AW 13). But an SCM may not sentence an accused to a BCD "unless a complete record of the proceedings of and testimony taken by the court is taken in the case" (new AW 13), and, when an SCM has adjudged a BCD under this restriction, the record of trial must be acted on, not only by the officer who appointed the SCM, but also by the officer having GCM jurisdiction (new AW 47(d)), and that officer must first refer it to his Staff JA (new AW 47(c)). Up to this point, the procedure is substantially the same as the Navy's requirement that a sentence to BCD adjudged by a Navy Summary Court—the equivalent of the Army SCM—must also be approved by the Immediate Superior in Command (or ISIC, as the sea lawyers put it).

But the new Articles do not stop there. Every SCM record involving a sentence of BCD must go to the Board of Review, whether or not the execution of that sentence has been suspended (new AW 50(e)), and no BCD can be ordered executed until the B/R has held the record of trial legally sufficient (new AWs 13, 36, 50(e)). And no order suspending the execution of a BCD can be ordered vacated until appellate action on the record has been completed. New AW 51(b)(1). This involves, in the event of divergences of opinion in the JAGO, the taking of all the further steps upward which have just been so painstakingly detailed. The net result, of course, is that any incentive to rely on the BCD as a means of ridding the service of people who are essentially worthless rather than criminal largely disappears, since for all practical purposes it is no easier to execute a BCD than it is to execute a DD. And the latter having been, for generations, the exit route for most offenders, it will continue to be used.

My own view is that the BCD can never be popularized unless it is made more summary. I think that the extra action by the officer with GCM jurisdiction, together with the review by his Staff JA, would supply all the extra safeguards that are reasonably necessary. But implementation of that view will require new legislation. Meanwhile, it is to

be hoped that the new *Manual* will state that cutting down a DD to a BCD is mitigation, action within the power of any officer exercising GCM jurisdiction, rather than commutation, which is reserved to confirming authorities, the lowest of which under the new articles is the Judicial Council.

NEW TRIALS

New AW 53 contains a novel provision with respect to new trials—and that means new trials, not the rehearings provided for in old AW 50½ or new AW 52.

Under regulations to be prescribed by the President, The JAG is authorized, "upon application of an accused person, and upon good cause shown, in his discretion to grant a new trial, or to vacate a sentence, restore rights, privileges, and property affected by such sentence, and substitute for a dismissal, DD, or BCD previously executed, a form of discharge authorized for administrative issuance, in any court-martial case in which application is made within one year after final disposition of the case upon initial appellate review." There is a similar provision as to World War II cases, the year to run from the termination of the war or final disposition of the case on initial appellate, review, whichever is later. Only one such application may be made as to any one case; there will not be anything akin to the successive petitions for habeas corpus which now clog the civil courts.

NONPROCEDURAL CHANGES

New AW 85 eliminates the mandatory penalty of dismissal for officers found drunk on duty in time of war; it now provides, very simply, that "Any person subject to military law, who is found drunk on duty, shall be punished as a court-martial may direct." This is a most desirable change, and one almost universally recommended. The inflexibility of the present provision made it very difficult indeed to punish officers found drunk on duty in time of war, as courts were reluctant to convict (and thus impose a mandatory sentence of dismissal) in all save the most flagrant cases; and of course AW 85 has no lesser included offense.

New AW 88, entitled "Unlawfully Influencing Action of Court," is important enough to be quoted in full. It reads:

"No authority appointing a general, special, or summary court-martial nor any other commanding officer, shall censure, reprimand, or admonish such court, or any member thereof, with respect to the findings or sentence adjudged by the court, or with respect to any other exercise, by such court or any member thereof, of its or his judicial responsibility. No person subject to military law shall attempt to coerce or unlawfully influence the action of a court-martial or any military court or commission, or any member thereof, in reaching the findings or sentence in any case, or the action of an appointing or reviewing or confirming authority with respect to his judicial acts."

This was enacted in response to a practice which was certainly the most widely criticized, and probably the most widely abused, feature of the administration of military justice during World War II: the censure of courts by appointing authorities. The language as adopted is probably

broad enough to forbid a reviewing authority from commenting on the inadequacy of a sentence when he acts on the record; the new *Manual* will tell. Meanwhile it may be noted that new AW 88 does not make it an offense for a person subject to military law to "attempt to coerce or unlawfully influence" the actions of the Staff JA with respect to *his* judicial acts; he remains fair game for all. Nor is it made an offense for persons not subject to military law to put the heat on The JAG. That officer, with his now greatly augmented powers, especially in respect of review and petitions for new trials, can still be badgered with impunity on behalf of any constituent.

New AW 92 relaxes the previous mandatory punishments for murder and rape. A person found guilty of murder—*i.e.*, premeditated murder—must be punished with death or life imprisonment. But one found guilty only of "murder not premeditated" may be punished as a court-martial shall direct. Similarly, the punishment for rape is death or such other punishment as a court-martial shall direct, which gives wide leeway to a court to take all the circumstances of the case into account, including the prevailing local tariff in all cases where the offense is committed abroad. Both of these changes, likewise, were adopted in response to the well-nigh unanimous feeling, within and without the service, that the mandatory life-or-death feature of the present article just didn't make sense.

New AW 93 introduces a much needed simplification into the law by providing that "any person subject to military law who commits larceny or embezzlement shall be guilty of larceny within the meaning of this article." All of the old distinctions between larceny and embezzlement, many of a most technical nature and largely incomprehensible even to most lawyers, will thus be buried quietly and without mourners; and the Army can proceed now on the simple footing that

*He who takes what is not his'n,
He shall surely go to prison.*

New AW 94 adds conspiracy to commit any of the offenses previously enumerated therein as a crime denounced

by its terms, and enlarges the categories of persons who may be tried after separation from the service for embezzlement and frauds committed while in the service.

New AW 24, as has already been noted, makes it a military offense to use coercion or any unlawful influence to obtain any statement, admission or confession.

MISCELLANEOUS PROVISIONS

The principal change to be noted under this heading is that there is now no statute of limitations on wartime AWOL, which new AW 39 treats on a par with wartime desertion. A "Pearl Harbor" provision is also added, which extends the statute of limitations to six months after the duration of the war "in the case of any offense the trial of which in time of war shall be certified by the Secretary of the Department of the Army to be detrimental to the prosecution of the war or inimical to the Nation's security."

Old AW 44, which provided for the publication of the name of any officer dismissed from the service for cowardice or fraud, has been repealed.

New AW 110 provides that a complete text of the AWs and of the MCM shall be made available to any soldier, on his request, for personal examination. But whereas old AW 110 required that the AWs be "read *and* explained" every six months, the amendment merely specifies that they shall be "read *or* carefully explained." If this means that a good, clear explainer can dispense with the reading of, for instance, all of AW 94, it is a real step forward. But probably, in practice, the AWs will be droned out as heretofore, with the longer words mispronounced, all by some lieutenant slightly under par, and the guardhouse lawyers will in the future bone up on the stuff on their own time—also as heretofore.

A number of merely technical amendments have not been specifically noted. Some reflect the fact that the Army now contains enlisted women as well as enlisted men; some take account of the eligibility of enlisted personnel as members of courts; and the rest are either revisions to set technical doubts at rest or else substantive changes which are really not of general interest.



If means are not to be provided to make the Organized Reserve Corps and the National Guard ready, the Army will have to revise its plans for national security. Without adequate reserves as now contemplated, the Army must recast its concepts and recommend to the Congress a far larger standing Army than is under consideration today.—GENERAL OMAR N. BRADLEY *in an address before the House Armed Services Committee.*

Blood Against Atom Bomb^{*}

By Jane Stafford

One million pints of blood a week would be necessary in the event of atomic attack. This must be stock-piled now for emergency use and continually renewed.

→ Rx: BLOOD, 1,000,000 pints. To be taken every week for first three weeks in event of atom bomb attack.

That prescription has already been written by the nation's leading authorities on medical defense.

There is only one blood bank in the world where that 1,000,000-pint-a-week prescription can be filled. That blood bank is circulating in the veins and arteries of the living American public.

But in the event of an atomic attack, there would not be time to find and bleed one million persons, test and process the blood, and transport it to the scene of the disaster. Some of the blood must be stock-piled, and the machinery for getting more in a hurry must be set up and ready to go into action at a moment's notice. And since blood cannot be kept longer than three weeks, the stock pile must be continually renewed.

NATIONAL BLOOD PROGRAM

The answer to the problem, medical and health defense authorities believe, lies in the hands of the American Red Cross. During the war, this organization collected 13,326,242 pints of blood for our armed forces. Last year, when the nation's blood stock pile for ordinary peacetime needs was growing dangerously low, the Red Cross responded to widespread appeals to set up a national blood program. Now, with the world a-jitter over the possibility of atomic war, such a national blood program seems more essential than ever.

The reason why blood, millions of pints of it, would be needed in case of atomic attack was presented at a conference of clinical consultants to the national blood program by Dr. George M. Lyon, chief of the radioisotope section in the Veterans Administration. Before heading up this section of the VA, Dr. Lyon served as safety adviser to the U. S. Navy and Manhattan Engineering District. He was on hand for the first atomic bomb test in New Mexico and later went to Bikini as safety adviser and senior representative of the Surgeon General, U. S. Navy.

"A study of the Hiroshima incident provides us with information relative to the unique aspects of atomic explosives," Dr. Lyon told the blood program consultants. "This has been further supplemented by information gained at Bikini."

At Hiroshima there were 80,000 deaths. Medical authorities estimate that 20,000 of these lives could have been saved if there had been available adequate facilities for providing medical relief.

Whole blood in sufficient amounts is the one most important medicine for preventing loss of life in this group, Dr. Lyon declared.

After an atomic attack, Dr. Lyon pointed out, there will be shock, burns from flash and flame, injuries from direct blast, flying debris and collapsing structures. On top of these injuries will be those due to the ionizing radiation from the bomb itself.

This ionizing radiation damages bone marrow and other blood-forming organs. The victims suffer a special kind of anemia in which they lack both red and white blood cells and hemoglobin. Hemoglobin is the chemical that gives blood its red color and, more important, carries oxygen to all parts of the body. The small blood vessels, called capillaries, grow fragile and leaky, so that blood may be lost through their walls. The membranes that line nose, throat, mouth, and other body openings are damaged and they are likely to bleed. Finally, because the normal clotting mechanism of the blood is damaged, the bleeding does not stop readily, as it does when a healthy person cuts his finger. Resistance to germ infection is also greatly reduced.

WHOLE BLOOD

"For patients presenting such a picture whole blood is particularly to be desired and other measures are particularly ineffective," Dr. Lyon declared.

Next in order for the victims of atomic attack would be serum albumin, a material obtained from blood. This would be used for victims suffering severe burns from other than ionizing radiation.

Blood plasma would be valuable if stock piles of serum albumin were not big enough to treat all the burn victims.

From the Hiroshima incident working figures for the amount of blood needed have been developed. If all the 80,000 fatal casualties there could have been treated, they would have needed one to three transfusions on the average. The requirements for all casualties, Dr. Lyon reported, would have been from 150,000 to 200,000 pints of whole blood or its equivalent in serum albumin.

^{*}From *Science Service* by permission.

THE GUARD IN SUMMER TRAINING*

By Major Ralph E. Pearson

"Not like that! The bolt comes out first."

The sweating sergeant, first class, wearing a generous array of World War II battle ribbons, bent down to explain a point in detail. The youngster, who had been too young for service but was now 17, listened attentively and with respect. This old-timer, he reasoned, should know whereof he spoke.

Throughout the Nation, that scene was repeated this summer as some quarter of a million National Guardsmen worked, learned, and played for 15 days of summer camp. By the time the final encampment concluded in September, the Guard expected to surpass the record number of 240,000 who trained with the Regular Army in the maneuvers of 1940.

Enrolled in about 4800 units of the 48 States, Hawaii, Puerto Rico, and the District of Columbia, the Guard personnel in summer training—about one-third of them World War II veterans—also included 66,422 men in their teens and early twenties who had enlisted in the period from 16 to 30 June.

For many, it was their first experience in extended field training with the Guard. The summer of 1947 had seen an attendance at camp of about 30,000 from 21 States, Hawaii, Puerto Rico, and the District of Columbia, with another 20,000 going to service schools as a substitute.

This year it was different. Strength was up to 319,663 on 30 June 1948—290,363 in Army units and 29,300 in the Air National Guard. Approximately 200,000 had received armory training for periods ranging from six months to two years. Seventeen of the 27 Army divisions went, intact, to designated training sites. The value of the modern equipment in the possession of units was estimated at one billion dollars. Less tangible but still important was the knowledge that the newly enacted Selective Service legislation would keep the Guard high on the interest lists of thousands of young eligibles.

Too, regulations had been either liberalized or tightened so as to make camp more attractive and better attended. School attendance in lieu of field training was not authorized this year. Requirements for attendance at summer camp were eased. A unit could go if it had Federal recognition any time prior to the opening date—instead of the previous ruling calling for recognition for at least 90 days and prior to 1 April—and if essential uniforms and individual equipment were on hand.

*Abridged from the September *Army Information Digest*.

Spurred by the desire to mingle new blood with the old, outfit commanders rolled their units through in high. Training began the moment after the home-town roll call. Trips to and from the camp sites were conducted as troop movements, with all the problems and planning of a simulated wartime operation.

Training, set up according to branch of service under official National Guard programs, was modified to fit local situations and conditions. Units which had not completed the first year of armory training did so during the 15 days.

Guard Army units used the 15 days to advantage in driving toward a new goal—the Eisenhower Trophy—established this summer. Named for the former Army Chief of Staff, the 15-inch cup will be presented each year to the outstanding company-size unit in each State, Hawaii, Puerto Rico, and the District of Columbia. The trophy will be retained by the winning unit in each State for one year, then passed along to the next winner. Past recipients will be given six-inch replicas for permanent possession.

For the initial year 1948, the award will cover the six-month period starting 1 July. In succeeding years, a full year's record will be considered. The award will be based on the record of training progress achieved. To be considered, a unit must reach 100 per cent of its authorized enlisted strength for the year of competition, must maintain an average of 90 per cent of this strength, and must have an average attendance record of 90 per cent of actual officer and enlisted strength for the year. The trophy, at present, is authorized only for Army units, but a similar award is being planned for Air units.

The target date for achieving full National Guard strength is 1951. As projected, Army units of the Guard at that time would number 623,000 officers and enlisted men in some 5690 units.

As the civilian-soldiers returned to their desks, farms, and factories this year, they were convinced from personal observation that their units were well on the way, both in state of readiness and in numbers. Behind them were 3,750,000 man-days of accomplishment—probably the largest single military operation since the demobilization following World War II.

For many Guardsmen, the sense of achievement was heightened by a tangible reward. Many had been paid not only by their unit, but also by their employers, who co-operated with the summer training program by granting employees on Guard duty leave of absence with pay.



ORC Takes To The Field*

By Major William H. Witt

In a far-reaching training program, 1000 units of the Organized Reserve Corps, manned by approximately 48,000 officers and enlisted members, recently took to the field for the first extensive summer training program since the end of World War II. The facilities of 36 Regular Army posts, camps, and stations were used.

Unit training, in general, was of three kinds. In some instances, Reserve commanders and their staffs actually planned and executed their programs under the supervision of their unit instructors. Some units trained with Regular Army training divisions; and some conducted their training in conjunction with National Guard encampments.

An innovation was the training of certain units—of cadre strength, or below—in the vicinity of their home stations. Personnel of these units received training for periods of a week to 15 days, in 8-hour serials. It was found that under-strength units could receive as much training in their home areas as would be possible if they were transported to Regular Army training sites.

Although unit training was given much the greatest emphasis, large numbers of individual Reservists trained with units of the Regular Army. Training objectives for the summer program, set up by the Chief, Army Field Forces, were: (1) Training of staffs of all echelons, from battalion through division; (2) Exercise of command echelons in the planning and supervision of unit training; (3) Maximum training with individual weapons; (4) Maximum training in subjects which could not be taught adequately in home training due to limitations of facilities; (5) Improvement in all technical skills related to the primary mission of the unit; and (6) Familiarization of individuals and units with new Army organization, doctrines, techniques, and developments.

Training directives emphasized the desirability of giving commanders and staffs of Reserve units the maximum practical experience in planning and conducting their own training, utilizing civilian component personnel as much as possible. This was necessary, in some instances, because of the limited number of Regular Army troops available for the support of Reserve training. It provided an incentive to commanders and staffs, who had to carry out training programs on their own with a minimum of supervision by instructors. Units which trained in their home areas found that, in addition to the experience gained from the program, a sense of organization unity was developed that would make for more effective unit training during the coming year. The train-

ing periods also gave Reserve instructors a chance to improve the quality of their instruction.

The summer training program was timely—and invaluable. With 1000 units sufficiently organized and manned to receive field training, the Reserve is moving toward its mobilization objective. Particularly valuable was the practical staff experience that many Reservists received, and the familiarization of individuals and units with organic weapons, both individual and crew served. The summer training, plus the training during the past year of 13,358 officers and 3434 enlisted Reservists, marks a progressive step toward making the Reserve a force in being.

Under the mobilization objective, a certain proportion of Organized Reserve Corps units are to be fully manned and organized and given such individual and unit training as will prepare them for field service on M-Day. Plans for expansion of the Army call for a Mobile Striking Force of twelve Regular Army divisions, six National Guard divisions, and supporting combat and service troops of the Regular Army, National Guard and some of the fully organized units of the Organized Reserve Corps. Other Reserve units will be only partially organized and manned, but will receive sufficient unit and individual training to enable them to expand rapidly in time of national emergency, rendering them capable of performing their wartime assignments within the period of M-plus-90 to M-plus-180 days. Still other units, at cadre strength, will be so organized, manned, trained, and equipped as to be capable of expansion and ready for wartime service within the period of M-plus-180 to M-plus-360 days.

In a three-component Army system, which depends for its greatest strength on civilian components, the Organized Reserve Corps has a vital security role. Every effort is directed toward making training realistic and effective, so that our Reserve will be a Reserve in being, well-trained and equipped.

ORC SUMMER TRAINING—BY ARMY AREAS

<i>Army Area</i>	<i>Officers</i>	<i>Enlisted Men</i>	<i>Totals</i>
First Army	5,188	1,877	7,065
Second Army	7,746	14,496	22,242
Third Army	4,083	6,661	10,744
Fourth Army	862	79	941
Fifth Army	5,000	0	5,000
Sixth Army	1,396	0	1,396
	<u>24,275</u>	<u>23,113</u>	<u>47,388</u>

*Abridged from the September *Army Information Digest*.



Elimination and Retirement — RA, NG, and ORC*

Lieutenant Colonel Franklin G. Smith

Personnel legislation of wide interest to members of the Regular establishment and the civilian components, is contained in Public Law 810, entitled the "Army and Air Force Vitalization and Retirement Equalization Act of 1948," signed by the President on 29 June 1948.

It provides for the elimination of certain categories of Regular officers, and for the retirement of officers, warrant officers, and enlisted personnel of the Regular Army and Regular Air Force. It also provides retirement benefits for members of the civilian components of the Armed Forces.

Titles I and II pertain to the Regular establishment. Title III pertains to the civilian components and presents an entirely new concept—the granting of non-disability retirement pay to non-Regular personnel.

This legislation, previously known as HR 2744 (80th Congress), has been widely discussed during the past two years. As originally drawn, Title III of the bill would have cost as much as \$400,000,000 a year—considered by the Congress as being prohibitive. Amendments to the bill, proposed by the three services, reduced the estimated maximum potential annual cost to \$18,000,000, which the Congress accepted as a reasonable figure.

This estimated cost is based on the following assumptions:

- a. That there will be no general mobilization prior to the year 2000.
- b. That the typical grades for retirement will be lieutenant colonel for officers, and sergeant, first class, for enlisted personnel.
- c. That the average active service credit will be six years.
- d. That the average annual retirement pay will be approximately \$750 for officers and \$316 for enlisted personnel.
- e. That approximately 5 per cent of all new reserve component officers and 1 per cent of all new reserve component enlisted personnel ultimately will qualify for retired pay.
- f. That a positive system of forced attrition will be adopted so that only the best qualified personnel will remain in the active reserve long enough to qualify for retirement benefits.
- g. That the annual input into the reserve components will be controlled so as to insure that authorized strengths

and Congressional appropriations are not exceeded.

Should any of these assumptions change materially, the estimated annual cost would be affected accordingly.

Title I of Public Law 810 deals with the elimination from the service of sub-standard officers. It repeals Section 24b of the National Defense Act, commonly known as the Class B Law. This old law was both cumbersome and ineffective. The new law, in general, follows procedures set forth in the temporary Public Law 190 (77th Congress) which expired 30 June 1948. Various safeguards, including the right of review and appeal, are set up in the new measure to protect the rights of officers concerned. Provision is made for review of the cases of certain officers removed under Public Law 190, and for reinstatement if it is determined that they were unjustly separated due to the pressures of the war period.

If an officer is eligible for voluntary retirement on the date of his removal, he will be retired in the grade and with the retired pay to which he would be entitled if retired upon his own application. If not eligible for retirement, he will be honorably discharged in the grade then held, with severance pay equal to one month's base and longevity pay (to which he is entitled as of the date of removal) multiplied by the number of years of active Federal commissioned service. Total severance pay cannot exceed one year's base and longevity pay, so computed. The severance pay feature is a major change from the provisions of both the old Class B Law and Public Law 190. Retirement benefits heretofore were granted to those separated officers who had seven or more years of active Federal service.

Title II of the Act places the Army and the Air Force legislation on a parity with current Navy non-disability retirement laws. In general, it raises from fifteen to twenty the number of years of active Federal service required of officers before eligibility for voluntary retirement is established, as is now the case for Regular enlisted personnel. Retirement privileges also are extended to civilian component officers who complete twenty years of active Federal service, ten years of which have been in a commissioned status.

Also in Title II is a provision, now contained in Navy retirement laws, granting retirement in the highest grade satisfactorily held in the period between 9 September 1940 and 30 June 1946. However, such grade must have been held for a period of at least six months while serving on active duty. The privilege of the highest grade also extends to warrant officers and enlisted personnel retired after twenty years' service, except that they are not advanced to the

*Reprinted from the August 1948 *Army Information Digest*.

highest temporary grade held until after completion of a total of 30 years' service. Comparatively few Regular officers will benefit under the provisions of this title, since the majority will probably reach or pass the highest wartime grade before they qualify for retirement. The principal beneficiaries will be former and current enlisted personnel who served as officers during the war. It is estimated that the annual cost of Title II will be \$877,000 during fiscal year 1949, and will increase to about \$17,000,000 a year in twenty years. Thereafter, it will decrease steadily, disappearing finally by 1988.

Title III provides retirement benefits for military service engaged in as a part time or avocational activity, and the emoluments received are in addition to any other non-disability retirement benefits (such as Social Security or private pensions) to which the beneficiary might be entitled in connection with his normal civilian vocation. Its primary purpose is to increase voluntary enlistments and to vitalize the civilian components for service in time of emergency. It is not intended that everyone who becomes a member of a civilian component will qualify for benefits. There must be a definite relationship between service rendered and benefits received. Those who do not meet required standards of performance will be placed in an inactive status, without retired pay benefits.

In general, the Act requires that a reservist, in order to qualify for retirement, must reach the age of sixty and must have completed twenty years of satisfactory service, both active and inactive service being considered. The last eight years of this qualifying service must be as a member of a civilian component, on active or inactive service. During his period of service he must meet such standards of performance as may be established by the various military Departments. Failure to meet the prescribed standards will require that he be discharged, placed in an inactive status, or retired without pay.

To acquire a year of satisfactory service, the reservist must earn fifty or more qualifying points during each twelve-month period. These points are credited on the following basis:

- a. One point for each day of active Federal service.
- b. One point for each drill or period of equivalent instruction. Such drills and periods of equivalent instruction will be prescribed and authorized by the Secretary of the respective service for the year concerned, and will conform to the requirements prescribed by other provisions of law.
- c. Fifteen points for each year of membership in a reserve component—when not on active Federal service.

If, at the end of a year, the number of points earned by the reservist totals fifty or more, his year of service is deemed to be satisfactory. When he has accumulated twenty years of satisfactory service, all his points are added together and converted to days at the rate of one day for each point. However, points earned by attendance at drills, completion of correspondence courses, and periods of equivalent instruction are limited to sixty in any one year. There is no similar limitation on the number of points which may be earned by performing extended active duty.

The total of all the days credited to the individual is divided by 360, which gives the number of years of service for retirement purposes. That number of years is then multiplied by 2½ per cent of the base and longevity pay of the highest rank held during the entire period of service. The resultant figure determines the annual amount of retired pay a person would receive, in monthly installments, starting at age sixty.

As for service performed as a member of a reserve component *prior to the enactment of the law*: Each year of Federal service which was *not* a year of *active* Federal service, is arbitrarily credited as 50 days (that is, 50 points). However, each year of *active* Federal service performed by a member of a reserve component (either prior to or subsequent to the enactment of the Act) is credited as a full year (not as 50 days), and is multiplied by 2½ per cent, as immediately above.

For example, take the case of Lieutenant Colonel A. He served in World War II, has had six years of active service, ten years of inactive service prior to the date of enactment of the Act, and now (as a Reserve officer not on Federal service) needs only four more years to establish his eligibility for retirement pay, assuming that he meets the minimum requirements satisfactorily for the next four years and gets his fifty points for each year. What benefits will he get when he reaches age sixty? The annual base pay of a lieutenant colonel with twenty years' service is about \$5000.

$$\begin{aligned}
 6 \times 2\frac{1}{2} \text{ per cent} &= 15 \text{ per cent.} \\
 15 \text{ per cent of } \$5000 &= \$750. \\
 14 \times 50 &= 700 \\
 \text{divided by } 360 &= 2 \text{ (approx)} \\
 2 \times 2\frac{1}{2} \text{ per cent} &= 5 \text{ per cent} \\
 5 \text{ per cent} \times 5000 &= \$250 \\
 \$750 \text{ plus } \$250 &= \$1000.
 \end{aligned}$$

The final figure—\$1000—is the approximate annual retirement pay Lieutenant Colonel A could expect upon reaching age sixty. This is slightly higher than the expected average. If Lieutenant Colonel A had had no service in either World War I or World War II, prior to the date of the enactment of the Act, he would not be eligible to receive any retirement benefits. This restriction is not applicable to new entrants into the civilian components after the passage of the Act.

As another example, Colonel B was on active Federal service for 2 years in World War I, and for 3½ years in World War II. Between wars, he accumulated 20 years of inactive service in the Officers Reserve Corps. He was separated on age (60 years) in 1945 and was placed on the Honorary Retired List. Since he is no longer an active member of a reserve component, is he entitled to retirement benefits? Yes; he has fulfilled the service requirements prescribed by the law and is eligible for retirement pay. The fact that he is now in a retired status (not retired for disability) is not pertinent. He is entitled to retirement pay from the date the bill was signed (29 June 1948).

How will the new PL 810 affect one George Smith who enlisted in the National Guard at the time the law was enacted by the Congress? A reasonable plan for his acquiring eligibility for retirement might be as follows:

a. He would remain in the National Guard for at least 20 years.

b. During that time he may have several years of service, of which the following might be considered typical:

(1) Forty 2-hour drill periods	40 points
(2) Summer camp of 15 days	15 points
(3) Membership in National Guard, one year	15 points

Total earned	70 points
Total credited (one year satisfactory service). He earned 20 points more than needed.	50 points

c. He acquires 15 years as in the example above, giving him 750 points credit (15×50). Dividing this by 360 gives him a multiplier of 2 per cent for Guard service.

d. During his 20-year span, he enlisted in the Regular Army for 5 years. This gives him a multiplier of $12\frac{1}{2}$ per cent ($2\frac{1}{2}$ per cent $\times 5$) for Regular Army service.

e. At this point, he has acquired 20 years of satisfactory service and therefore is eligible, when he reaches 60 years of age, for retirement pay. He has become a sergeant, first class, with base and longevity pay (6 longevity periods) of \$175.50 a month, or \$2106 a year. He has

earned a total multiplier of $14\frac{1}{2}$ per cent (2 per cent for Guard and $12\frac{1}{2}$ per cent for Regular service). Applying the $14\frac{1}{2}$ per cent to \$2106 gives him retirement pay of \$305.37 a year, payable at the rate of \$25.46 a month. Beginning at the age of 60, he will receive this amount so long as he lives in addition to any other retirement benefits (except disability) or pensions he may receive from other sources.

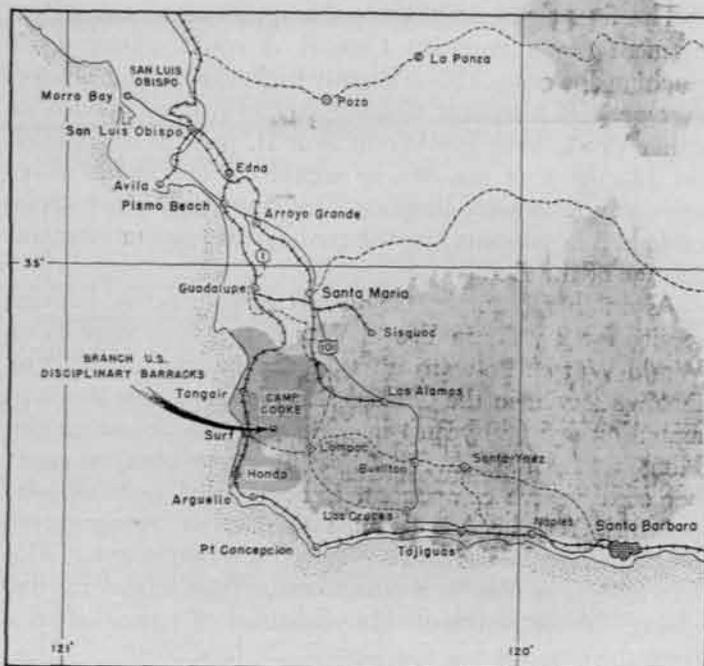
NOTE: If, instead of being discharged after 20 years satisfactory service, Smith's enlistment terms have been such that he acquires another 6 months of service, he would have acquired, for the purposes of retirement pay only, 21 years of satisfactory service and his base pay and longevity periods would be \$182.25 a month, or \$2187 a year. His retirement pay would then be \$317.12 a year, or \$26.43 a month.

The secretaries of the military Departments will establish standards governing retention and promotion of individuals in the reserve components. These standards will be kept high, and individuals failing to meet them will be discharged, placed in an inactive status, or retired without pay.

The details of implementing Public Law 810 are being worked out by various joint committees. It is anticipated that the necessary procedures will be established, dissemination made to the field, and the various provisions placed in operation within the near future.

Some AAA Troops To Train At Camp Cooke

Camp Cooke, future home of a large number of anti-aircraft troops, is located on the California Coast, 11 miles from Lompoc (pronounced LUM-poke), a town of about 6,500 people.



Camp Cooke's distance and direction from other near-by towns are as follows: 21 miles southwest of Santa Maria, which has 12,000 people; 51 miles south of San

Luis Obispo, 12,000 people; and 55 miles northwest of Santa Barbara, 40,000 people. Camp Cooke is reached by car by turn-offs at Santa Maria, Buellton, and Las Cruces from highway 101 connecting Santa Maria and Santa Barbara. It is on the Southern Pacific Railroad, with station at Surf. There are only four stops daily, however, two from the North and two from the South. (Northbound: 12:05 P.M. and 12:31 A.M.; Southbound: 6:25 P.M. and 3:18 A.M. All times are Daylight Savings Time, which will be in effect in California until January 15, 1949.) There are busses from Santa Barbara and Santa Maria to Lompoc every few hours, and an Army bus runs between the camp and Lompoc. The Commercial airport is located at Santa Maria, and is served by the Southwest Airlines. The camp has two 100-foot wide asphalt landing strips, one 3150 feet long and one 2650 feet long.

During the war, Camp Cooke housed as many as 36,000 armored troops in its temporary cantonment barracks. The majority of the buildings are still standing. There are no permanent buildings, except those at the U. S. Disciplinary Barracks, and no family quarters, on the post. It has been determined that none is planned. Only essential repairs to the Camp are contemplated.

At present, the only personnel present are the prisoners and guards at the new \$6,000,000 U. S. Disciplinary Barracks, which occupies a small section of the reservation. The Barracks has a capacity of 1,500 prisoners, and requires 856 military and civilian personnel to operate it. Colonel E. A. Everitt, Cavalry, is Commandant, and Lt. Colonel W. A. Wallace, CAC, is Executive.

CAC World War II Dead Honored

Twenty-nine Coast Artillerymen who were killed in action or died in theaters of operation during World War II have been honored in General Orders published by Headquarters, Presidio of San Francisco, California. The order, General Order Number 2, dated 5 May 1948, names roads and streets of the Fort Baker, Fort Barry and Fort Cronkhite reservations in their memory. The honored men are:

MAJOR JOE C. EAST, O-18192, Coast Artillery Corps, USMA '30, who served at Fort Baker as a battery commander prior to World War II, was taken prisoner by the Japanese upon the fall of Corregidor, and died at sea on a prison ship on 15 January 1945.

CHIEF WARRANT OFFICER JAMES E. MURRAY, W-901083, United States Army Mine Planter Service, who was killed in action as Master of the USAMP *George E. F. Harrison*, when that ship was attacked by a Japanese dive-bomber, off Corregidor, 2 May 1942.

SECOND LIEUTENANT WILLIAM G. SATTERLEE, O-890380, Coast Artillery Corps, who served prior to World War II as an enlisted member of Battery A, Sixth Coast Artillery, Fort Winfield Scott, who was commissioned on the field of battle in Bataan, and who died as a prisoner of war of the Japanese, 28 May 1942.

CORPORAL FRANCIS J. MOORE, 59th Coast Artillery, who was stationed at Fort Baker prior to World War II as a member of the submarine mine flotilla, and who was killed in action at Battery Geary on Corregidor, 2 April 1942.

MAJOR ERVEN C. SOMERVILLE, O-18734, Coast Artillery Corps, USMA '32, who was a submarine mine battery commander of the 91st Coast Artillery, was captured by the Japanese upon the fall of Corregidor, and died while a prisoner of war, 11 February 1945.

TECHNICIAN THIRD GRADE GEORGE B. KOBER, 33003718, who was for several years a member of the enlisted staff of the Coast Artillery School and the Coast Artillery Board, who sought combat duty and was killed in action, 13 March 1945, leading his squad near the Remagen Bridge on the Rhine River.

MASTER SERGEANT CALVIN L. DROWN, 6134001, Hq & Hq Det, Harbor Defenses of Manila and Subic Bays, who served long and faithfully in many Coast Artillery garrisons, who was captured by the enemy upon the fall of Corregidor, and died in a Japanese prison camp in August 1943.

CAPTAIN SAMUEL M. McREYNOLDS, JR., O-19089, Coast Artillery Corps, USMA '33, who was stationed at Fort Baker prior to World War II, who was captured by the enemy upon the fall of the Philippines, and died in a Japanese prison camp, 1 February 1945.

FIRST LIEUTENANT ROGER W. SWAIN, O-347705, Coast Artillery Corps, who had long service as a non-commissioned staff officer until called to active commissioned service, who was captured by the enemy upon the

fall of Corregidor, and was killed in the bombing of a prisoner of war ship, the *Oryoku Maru*, in Subic Bay, 15 December 1944.

SECOND LIEUTENANT KENNETH J. SEITLER, O-890258, Coast Artillery Corps, who served as a first sergeant until commissioned on Corregidor, who was captured by the enemy upon the capitulation of that garrison, and was killed in the bombing of a Japanese prisoner of war ship, the *Oryoku Maru*, in Subic Bay, 15 December 1944.

COLONEL PAUL D. BUNKER, O-1897, Coast Artillery Corps, USMA '03, who served at numerous Coast Artillery stations throughout the United States and foreign possessions, who was Seaward Defense Commander during the siege of Corregidor, and died as a prisoner of war of the Japanese in Formosa, 16 March 1943.

LIEUTENANT COLONEL CLAIR M. CONZELMAN, O-16442, Coast Artillery Corps, USMA '26, who served on the staff of the Philippine Coast Artillery Command, was captured by the enemy upon the fall of Corregidor, and died on a prisoner of war ship in the hands of the Japanese, 14 January 1945.

SECOND LIEUTENANT FREDERICK J. ROTH, JR., Coast Artillery Corps, a former noncommissioned staff officer who was commissioned during the siege of Corregidor, was captured by the enemy, and killed in the bombing of a Japanese prisoner of war ship, the *Oryoku Maru*, in Subic Bay, 15 December 1944.

CAPTAIN EARLE M. SHILEY, O-21234, Coast Artillery Corps, USMA '38, who was captured by the Japanese in the Philippines, and died in a prison at Fukuoka, Japan, 2 February 1945.

COLONEL SAMUEL McCULLOUGH, O-9816, Coast Artillery Corps, E. E., Northeastern Coll., '17, who served on the staff of the Harbor Defenses of Manila and Subic Bays, was captured by the enemy upon the fall of Corregidor, and died in Bilibid Prison, Manila, 1 September 1942.

MAJOR HARRY JULIAN, O-18999, Coast Artillery Corps, USMA '33, who served with the 59th Coast Artillery regiment on Corregidor until the capitulation of the garrison, and who perished in the sinking of a Japanese prisoner of war transport in the China Sea, 24 October 1944.

CAPTAIN RICHARD A. SMITH, O-19512, Coast Artillery Corps, USMA '34, who commanded a submarine mine battery in the Harbor Defenses of Manila and Subic Bays, was captured by the enemy upon the surrender of Corregidor, and was killed in the bombing of the Japanese prisoner of war transport, the *Oryoku Maru*, in Subic Bay, 15 December 1944.

LIEUTENANT COLONEL NORMAN B. SIMMONDS, O-15914, Coast Artillery Corps, U.S. Naval Academy '24, who commanded Fort Barry in 1933, who was executive officer of the Seaward Defense Command on

Corregidor, was captured by the enemy upon the capitulation of that garrison, and died at sea on a Japanese prisoner of war transport, 15 January 1945.

CAPTAIN EDGAR S. ROSENSTOCK, O-21159, Coast Artillery Corps, USMA '38, who served with the 91st Coast Artillery regiment until the fall of Corregidor, and who died while a prisoner of war at Moji, Japan, 31 January 1945.

LIEUTENANT COLONEL GIRVILLE L. FIELD, O-15409, Coast Artillery Corps, C. E., Norwich Univ. '20, who was commissioned in the Coast Artillery in 1923, and was serving as a division staff officer in the Philippines upon the fall of Bataan, and who died as a prisoner of war at Osaka, Japan, 1 February 1943.

LIEUTENANT COLONEL FLOYD A. MITCHELL, O-15535, Coast Artillery Corps, USMA '24, M.S., Mass. Inst. Tech. '33, who was mine commander in the Harbor Defenses of Manila and Subic Bays upon the outbreak of World War II, who was killed in the bombing of the Japanese prisoner of war transport, the *Oryoku Maru*, in Subic Bay, 15 December 1944.

LIEUTENANT COLONEL DWIGHT D. EDISON, O-18786, Coast Artillery Corps, USMA '32, who was serving with the 59th Coast Artillery regiment upon the surrender of Corregidor, and who died as a prisoner of war in the hands of the Japanese near San Fernando, Pampanga Province, 15 December 1944.

LIEUTENANT COLONEL WILL K. STENNIS, O-15995, Coast Artillery Corps, C. E., Miss. A. and M. Coll. '24, who was commissioned in the Coast Artillery Corps in 1924, who was serving with the 91st Coast Artillery regiment upon the capitulation of Corregidor, and who was killed in the bombing of the Japanese prisoner of war transport, the *Oryoku Maru*, in Subic Bay, 15 December 1944.

LIEUTENANT COLONEL LEWIS S. KIRKPAT-

RICK, O-15709, Coast Artillery Corps, USMA, '24, who commanded Fort Drum on El Fraile Island until the capitulation of the Harbor Defenses of Manila Bay, and who died as a prisoner of war in Japanese labor camp on Corregidor, 27 April 1943.

MAJOR ROBERT D. GLASSBURN, O-18730, Coast Artillery Corps, USMA '32, who served with the Philippine Coast Artillery Command until capitulation, and who died as a prisoner of war in the hands of the Japanese, 30 January 1945.

MAJOR ROBERT F. HAGGERTY, O-18085, Coast Artillery Corps, USMA '30, M.S., Mass. Inst. Tech. '37, who served with the 91st Coast Artillery regiment in command of beach defense sector until the surrender of Corregidor, and who was killed in the bombing of a Japanese prisoner of war transport, the *Oryoku Maru*, in Subic Bay, 15 December 1944.

LIEUTENANT COLONEL HOWARD E. C. BREITUNG, O-15314, Coast Artillery Corps, B.S., USMA, '23, who served in the Defenses of Manila and Subic Bays and on Bataan, Philippine Islands, was captured by the enemy in the capitulation of these defenses and later killed by the Japanese, 30 September 1942.

MAJOR LAWRENCE A. BOSWORTH, O-18039, Coast Artillery Corps, B.S., USMA, '30, who served in the Defenses of Manila and Subic Bays and on Bataan, was captured by the enemy in the capitulation of these defenses, and later killed in the bombing of the Japanese prisoner of war transport, *Oryoku Maru* in Subic Bay, 15 December 1944.

CAPTAIN LAWRENCE CHANDLER BALDWIN, O-21171, Coast Artillery Corps, B.S., USMA, '38, who served in the Defenses of Manila and Subic Bays and on Bataan, Philippine Islands, was captured by the enemy in the surrender of American Military Forces, and died in a hospital in Moji, Japan, 4 February 1945.



At no time in the history of this nation has the National Guard been more vital as an agency of peace. The concept of the National Guard—wherein citizens band together for the avowed purpose of protecting each other and their possessions—is not new; in fact, it is 140 years older than the nation itself. In 1636 the first militia unit was organized in New England and not a skirmish or war has been waged since without the National Guard as an active participant.—SECRETARY OF THE ARMY KENNETH C. ROYALL, on the occasion of NATIONAL GUARD DAY, September 16, 1948.

Coast Artillery Newsletters

109th ANTI-AIRCRAFT ARTILLERY BRIGADE

5917 BROADWAY, CHICAGO 40, ILLINOIS

BRIGADIER GENERAL JULIUS KLEIN, *Commanding*

The 109th AAA Brigade is an all-Chicago unit with the exception of the 396th AAA (AW) Battalion, commanded by Lt. Col. Richard T. Dunn and stationed at Bloomington.

Other units are the 693rd AAA AW Battalion, Lt. Col. Eugene J. Modjeske commanding; 698th AAA Gun Battalion, commanded by Lt. Col. Frank Monico; components of the Antiaircraft Artillery Group, commanded by Col. Charles T. Pulham, and the 3625th Ordnance Company, commanded by 1st Lt. Chilton P. Brown.

Starting their training with a 36-hour bivouac near Camp Logan, Illinois, the men of the Brigade slept in pup tents, many for the first time in their lives, ate out of Army mess kits, and otherwise roughed it in their introduction to Army life.

Basic military training was the order for the first seven days of summer field training for the men of the 109th AAA Brigade. Returning to Fort Sheridan after the 36-hour bivouac, the remainder of the week was spent on the small-arms range, where many were introduced to the "M-1" for the first time. Carbines, 45 cal. submachine guns and pistols were also fired.

Friday night was "Party Night," GI party, that is, and men of the Brigade fell to scrubbing, washing and even polishing their quarters for their first inspection slated for the next morning.

The next morning, nervous Guardsmen stood at attention while eagle-eyed battery commanders peered down rifle barrels and checked clean uniforms.

Finally the suspense ended and as satisfied smiles lit the worried faces of first sergeants, the Guardsmen knew their passes were safe.

For the men who wanted to remain at Fort Sheridan over the week end, Brig. Gen. Klein had extended an invitation to have their families and friends visit them in camp and partake of an Army meal.

Parents who had wondered how the Army was treating their sons checked the accommodations in the barracks, noting with surprise the clean sheets and pillowcases on camp cots complete with springs and mattresses.

Generally speaking, comments on such inspections were favorable, with the most frequent remarks commending the improved posture and appearance in uniform of the young citizen soldiers.

The noon meal of steak with the appropriate courses served to the Guardsmen and their guests in the Brigade mess hall was enough to erase any skepticism that remained in Mother's mind.

Citizen GIs were amazed to find two generals who spent

more time in the kitchen than in the dining room on their tour of inspection.

Their amazement was caused by the unannounced visit of Major Gen. Kenneth F. Cramer, Chief of the National Guard Bureau, of the Department of the Army, accompanied by the Brigade Commander, Brig. Gen. Julius Klein.

Monday, the combat phase of the training opened the second week of summer encampment for the Brigade. Windows rattled in North Shore homes as the 90mm anti-aircraft guns boomed and the 37mm, 40mm and multiple 50 cal. machine guns added their voices to the chorus of weapons.

Inspecting officers were high in praise of the progress made by the 109th AAA Brigade since its inception, March 8, 1948. High rating was given the military bearing and excellent training being conducted throughout the Brigade area.

In traditional "Governor's Day" ceremonies held at Fort Sheridan, August 4, Governor Dwight H. Green, Commander-in-Chief of the Illinois National Guard, lauded Brigadier General Julius Klein for his work in making the 109th AAA Brigade one of the top outfits in the National Guard.

A picked Honor Guard greeted the Governor as he entered the gates of Fort Sheridan, and with General Klein, proceeded to inspect the troops. The thunder of a 19-gun salute rent the air as the party moved from the gate to the artillery firing points.

After watching a spectacular firing demonstration by the automatic weapons battalions under the direction of Col. Pulham, the Governor moved to the reviewing stand and watched the Brigade pass in review before him.

Following the review, the Governor addressed the troops and complimented them for their splendid showing and thanked the officers and men of the Guard for making it the respected, well trained organization that it is today.

"More armories will be built to accommodate our Guard units," the Governor revealed in his speech.

General Charles C. Dawes, known as the "father of the outfit," former commanding officer of the 202nd AAA Group, was present at the "Governor's Day" ceremonies.

The press of Illinois lauded Illinois' citizen-soldiers. An excerpt from an editorial in the Bloomington *Pantagraph* of August 1st is only one of the many praises showered on the Illinois National Guard. It reads as follows:

"It's not just a lark—this summer program. Nor is it just a bunch of fellows playing at being soldiers for the good time involved.

"Men who give up their vacations, sacrifice pay in some cases, and put up with the rigors and difficulties of military life deserve credit and support from their neighbors and their government."

103d AAA BRIGADE, CONNECTICUT NATIONAL GUARDBRIGADIER GENERAL RUSSELL Y. MOORE, *Commanding*

Famous units which saw considerable action in the various Pacific campaigns are included in the 103d AAA Brigade. Since Federal Recognition, these units, which include the 208th AAA Group, 211th AAA A.W. Bn.(SP), 238th Gun Bn., 242d AAA Group, 283d AAA A.W. Bn.(SP), 745th AAA Gun Bn., as well as the 172d Opns. Det. and the 712th Maint. AA Co., all in the 103d AAA Brigade, with headquarters in West Hartford, Connecticut, have grown steadily in strength and soldierly "know how."

For all units, the period before the summer encampment at Camp Edwards, Mass. (where the original 208th CA(AA) trained in 1941 before going overseas) was spent in concerted recruiting drives in an effort to obtain a well balanced group of antiaircraft veterans of World War II and younger recruits. It was Brig. Gen. Moore's opinion that the men under his command would be best trained and suited for field training if a group of experienced men who could act as instructors were augmented by a large number of eager young recruits. The wisdom of this thought was brought out in the actual summer training. Both officer and enlisted personnel progressed well in their armory training, their adaptability being later proven at Camp Edwards.

"Armory training" is almost a misnomer since one entire Gun Battalion (organized since 15 March) is situated in towns where no units previously existed. This situation is particularly acute in Connecticut with AAA units.

The move to the camp area was made on Saturday, 31 July by rail and truck convoy. No accidents were reported despite heavy week-end traffic encountered by the final two convoys as they neared their destination.

Due to the large number of recruits—over 600—the first week of the training was divided into two sections. Basic training was given to the new men while the more experienced personnel carried out advanced training programs.

On 6 August a review for Lt. Governor Parsons of Connecticut was held. It was apparent that the men in the various units had absorbed their basic training as they passed in review in an almost professional manner. Both the Lt. Governor and the Adjutant General of the State of Connecticut expressed pride and amazement at the men's bearing and soldierly appearance.

The second week of the encampment included overnight bivouacs and moves to the antiaircraft ranges at Wellfleet, a distance of some 55 miles. Radio communication was maintained at all times and was highly successful. The actual firing on the range was for familiarization rather than for record and both 40 millimeter and 50 caliber guns blazed away in their periods of firing.

The summer encampment was culminated by a review for Major General Frederick G. Reincke, the Adjutant General of the State of Connecticut.

Morale of the units was high. Food, always a subject dear to a soldier's heart was given the stamp of approval by all concerned. An extensive athletic program and special services program was carried out during the two weeks. Dances, ball games, swimming parties and group singing helped fill the off-duty hours of the men.

The convoys back to the various unit armories left on schedule and proceeded to their destinations without incident. With the summer encampment behind them the men of all units of the 103d AAA Brigade look back on fond memories of soldiering together and the prospects of the training and comradeship to come.

**74th AAA BRIGADE**COLONEL THOMAS F. MULLANEY, *Commanding*

A sizable number of commissioned and enlisted personnel of Chicago AA Reserve Units availed themselves of the opportunity for 2 weeks Active Duty Training at Ft. Riley, Kansas, August 1st-14th. In all, a total of 19 officers and 14 enlisted men, representing Hq and Hq Btry 74th AAA Brigade, 168th Operations Detachment, 383rd AAA (AW) Bn and 441st AAA (AW) Bn, were in attendance.

Prewar reservists were in agreement that the recent

training period was one of the most instructive they had ever attended. They reported classes as being exceptionally well-organized, and instruction as being of the highest calibre.

Firing with the 90mm. weapon was restricted to Trial Fire, but all attending reservists had opportunity to conduct ground fire with automatic weapons, including self-propelled.

Monthly activities of 74th AAA Brigade, and other Chicago AA Reserve Units will be resumed in September, 1948.



113th AAA BRIGADE

CINCINNATI, OHIO

COLONEL JOHN M. WELCH, *Commanding*

The 113th AAA Brigade Headquarters and Headquarters Battery, with its attached units, the 301st Operations Detachment and the 399th Automatic Wpns Bn (SP), from 8 to 28 August 1948, attended the first unit training camp since their activation at Ft. Story, Virginia.

The Brigade was activated in Cincinnati, Ohio, on 12 February 1947, as a Class "B" unit. It was the first unit in the State of Ohio to achieve Class "B" recognition. It has been very active ever since, having rolled up an imposing backlog of credit hours. The 301st Operations Detachment, also of Cincinnati and attached to the Brigade, reached Class "B" status shortly thereafter. During the summer of 1947, six officers of the Brigade and Operations Detachment had the opportunity of attending a two-week course at the Ground General School at Ft. Riley, Kansas.

From its inception, the Brigade has stressed in its training the proper functioning of the Staff, and has conducted a continuing problem on the hypothetical Antiaircraft Defense of the City of Cincinnati, with various features worked out on the Committee principle by the various staff sections, both officers and enlisted men participating.

As a result of a questionnaire submitted by the Brigade commander, the battalion commanders were practically unanimous in requesting that the period of the encampment be devoted to subject matter that could not be accomplished during the armory training conducted during the inactive training period, with special stress on firings of all types, both primary and individual weapons, field and CPX exercises, and physical conditioning.

In June, the Brigade received a real blow. Dates for the period of the camp were changed from early July to August. This worked a real hardship, since most civilian vacation

schedules are prepared in March and are well jelled by May. It necessitated a great deal of reorganization and the replacement of considerable personnel who were unable to meet the change. This was accomplished by "flying squads" of an officer and an enlisted man each in personal calls on every Coast Artillery Enlisted Reservist in the Brigade Area, and personal solicitation of qualified officer replacements from the Composite Group. The Brigade and Operations Detachment were successful in completely filling their quotas for the camp by these means, and in ample time to indoctrinate replacement personnel.

Requisitions for clothing and equipment were submitted on time, but did not arrive prior to departure for Camp.

In July, another blow fell. The training program was revised, due to lack of availability of certain facilities and curtailment of appropriations. The new schedule consisted of theoretical work (classroom) in the morning and practical work on Antiaircraft matériel in the afternoons, including primary weapon firings—40mm and cal. .50. All training with individual arms and field exercises was eliminated. Noted with surprise was the plan that instructors were to be provided by the ORC Camp Headquarters for every subject.

Training in MOS specialties was considered to be of prime importance. Administrative personnel were placed on duty in Camp Headquarters. Supply personnel were detailed to ORC Camp Supply. The Mess Sergeant worked with the Post Mess Supervisor. Staff Sections contacted their opposite numbers on the ORC Camp Staff and Post.

Since the Brigade had qualified instructors on certain subjects, the Brigade S-3 arranged to have them instruct on those subjects that fell within their specialties.

Climax of the camp came just as the unit commanders of a Pennsylvania National Guard AAA group mounted the control tower—when the target on the last course of the day was shot down!

**305th AAA BRIGADE**

30 WEST 44TH ST.

NEW YORK, N. Y.

BRIGADIER GENERAL H. RUSSELL DROWNE, JR.,

Commanding

From 1 August to 15 August the 305th Antiaircraft Artillery Brigade conducted intensive training of its officer and enlisted personnel at Camp Edwards, Mass., and at Fort Hancock, N. J. The Brigade, commanded by Brigadier General H. Russell Drowne, Jr., consists of Antiaircraft and Harbor Defense units from the metropolitan area of New York City.

The training program included such subjects as latest developments in AA, a review of AA gunnery problems, guided missiles, staff procedure, atomic energy, and the AA

role in collaboration with Infantry and the Armored Forces. Interest in the latter subject was heightened because the class was conducted by officers who utilized problems with which they had personally been faced during operations in the ETO. Practical work consisted of firing of various types of small arms for record, firing of the 40mm gun and the multiple .50 caliber machine gun on the range at Wellfleet, Cape Cod, using towed sleeves as targets, and night maneuvers.

The Fort Hancock contingent consisted of the Harbor Defense units under the command of Col. Thomas W. Colby. These units were trained in classroom and outdoor exercises, which included firing of the 6" subcaliber, 90mm AA gun, and small arms; study of seacoast radar, coordination of Navy-Air-Ground action, new methods of artillery fire control, and an overnight march and bivouac. Units also visited an Army mine planter and a mine casemate.

260TH ANTIAIRCRAFT ARTILLERY GROUP

DISTRICT OF COLUMBIA NATIONAL GUARD

COLONEL LEROY S. MANN, *Commanding*

When Colonel LeRoy S. Mann gave the final March Order to his antiaircraft battalions and attached units on 8 August 1948, the DC National Guard had completed its best year of antiaircraft training in postwar history. Trial-shot problems, tracking missions, and thousands of rounds of ammunition had been used to train dozens of gun crews in their duties.

Fifteen solid days of intensive work were completed, 25 July to 8 August, with the resultant success in motor marches to and from Camp Pendleton, near Virginia Beach, Virginia (235 miles from and to the Armory each way), tactical training, firing the guns and physical toughening.

Officers and noncommissioned officers received leadership and specialist training to command the ultimate authorized

strength of 2,028 men in the Group. The ceiling on recruitment prevented reaching that ultimate strength this year, but the battalions functioned as self-sufficient organizations under the tactical control of the group headquarters.

The 380th Automatic Weapons Battalion (Mobile) went through five days' work on the ranges at Dam Neck and Fort Story. The 340th Automatic Weapons Battalion (Self-propelled), had a similar schedule, and the half-tracks performed every day in road marches and in firing. Special radio schools were a feature of the two-week period. The 260th Gun Battalion (Mobile, Type C) worked trial-shot problems and engaged in firing in spite of transportation and emplacement difficulties.

The 257th Army Band enlivened the service calls and parades of the Group, and the 104th Ordnance Maintenance Company was especially cooperative. The 370th Signal Radar Maintenance Unit received valuable training and experience in early warning, communications, and maintenance activities.

**228TH ANTIAIRCRAFT ARTILLERY GROUP**

NATIONAL GUARD OF SOUTH CAROLINA

COLONEL D. W. BETHEA, *Commanding*

On July 4th the 228th AAA Group, S. C. National Guard moved into Camp Stewart, Ga. The movement consisted of Headquarters 228th Group, commanded by Col. D. W. Bethea of Dillon, S. C., the 107th AAA AW Bn (SP), commanded by Lt. Col. T. H. Pope of Newberry, S. C., the 263rd CA Bn commanded by Major J. C. Adams of Conway, S. C., the 678th AAA AW Bn. commanded by Lt. Col. M. T. Sullivan of Anderson, S. C. and the 713th AAA Gun Bn commanded by Lt. Col. B. N. Singleton of Florence, S. C. The Group moved on train and trucks and arrived at camp the afternoon of July 4th. The movement was very successful and the men conducted themselves like experienced soldiers.

All units were set up and ready for duty Monday morning, July 5th, and training started at once. A total of 75 officers and 1,159 men were encamped—the largest enrollment since the National Guard reorganized. All equipment for training was used to good advantage and all functioned satisfactorily.

Each Battalion functioned as a unit and all batteries fired their major armament at towed aerial targets. Garrison training was considered very good and mess training showed much improvement over last year's encampment. Each man at camp fired his individual small-arm weapon either for record or familiarization.

The second week of camp was devoted chiefly to firing of crew served AA weapons at aerial targets. Every man in camp who was assigned a position in either gun or range section participated in this firing which for many was their first such experience. The two automatic weapons battalions fired single Cal. .50 MG, quad 50's and 40mm guns. The AMTB batteries and the 713th Gun Battalion fired 90mm guns, with SCR 584 radar data, at medium altitude towed targets. Much valuable training was derived from these firings.

The US Navy based two aircraft at Chatham Field for the entire period, which provided tracking and firing missions. Cooperation of Navy personnel was commendable.

The camp authorities did a fine job in rehabilitating living quarters and training facilities. They all deserve high commendation for the excellent spirit and cooperation given the 228th Group at all times. A very excellent and inviting PX was available for the men.

J. Strom Thurmond, Governor of S. C., and Gen. James C. Dozier, Adjutant General of the S. C. National Guard, were visitors during the encampment and reviewed the troops. After the parade Gov. Thurmond presented a plaque to Capt. J. C. Koon, battery commander of Battery C, 678th AAA Bn of Greenville, S. C., for his battery's being the leading unit of the state in the Recruiting Campaign, Operation 88,888 last fall. The Governor and General Dozier addressed the men after troops were reviewed.

On the morning of July 18 each unit returned to its home station.



197TH ANTI-AIRCRAFT ARTILLERY GROUP

NATIONAL GUARD OF NEW HAMPSHIRE

COLONEL ALBERT S. BAKER, *Commanding*

The 197th Antiaircraft Artillery Group, NGNH, with the 744th AAA Gun Battalion, and the 210th AAA AW Battalion attached, completed the first postwar field training program at Camp Edwards, Massachusetts, on 15 August, and units returned to home stations prepared to swing into the new three-year training program upon receipt of official authorization.

All units of the firing batteries completed target practice objectives for 1948. This included the firing of 40mm guns on towed targets by all gun sections of the 210th AAA AW Battalion and the firing of trial shot problems by both batteries of the 744th AAA Gun Battalion. Up to now only two firing batteries each in the two battalions have been activated. Others await construction of armories.

All units moved from home stations to camp and return by motor convoy, from 400 to 600 miles each in organized convoys without accident or injury, and when they arrived at home stations each vehicle arrived under its own power and in its proper place in line. Convoys were conducted as single and multiple serials, in daylight and at night, with and without radio control, with and without police escort,

with and without posted guides, in order to demonstrate the many different methods of moving antiaircraft artillery combat teams over the highways, into and out of bivouac.

Inspectors found all subordinate unit commanders qualified to properly conduct unit training and the leadership of all officers and noncommissioned officers satisfactory. From the viewpoint of ultimate effect upon combat proficiency, they found that units had applied available time effectively in weapon and physical fitness, and individual defense training, tactical employment of batteries, establishment and maintenance of communications, supply and evacuation.

Units participated in all available demonstrations, made maximum use of the technical teams sent up from the antiaircraft artillery and guided missiles school at Fort Bliss. Ninety per cent of the personnel fired small arms, with which equipped, resulting in qualification by one-half of the enlisted personnel.

Expressing appreciation for the loyalty, energy and character of duty performance of all concerned which contributed to the fine report, the Group Commander, in a message to the command, declared the results of the first field training camp "should inspire us all to greater efforts during the armory training period ahead and particularly to next year's camp when a major objective will be to fire record target practices with all primary weapons."



Wanted: Comments

As the professional publication of antiaircraft artillerymen, the JOURNAL desires to collect and make a matter of permanent record the practical experience gained by antiaircraft artillerymen in World War II, whether lengthy studies, or the expression of particular opinions by men who participated.

The JOURNAL seeks out original articles wherever possible from outstanding authorities in the various fields of AAA and publishes them "in the raw," without submission for approval to the AAA School. The Commanding General of the School has approved this policy. These articles are

reviewed by other authorities prior to publication to insure authoritativeness and interest for JOURNAL readers.

Because the JOURNAL does not have access to the large number of antiaircraft artillerymen of all components who have valuable war experience, it must depend upon letters to the EDITOR to unearth them.

We have asked for and received valuable comments on such articles as "Proposed Changes in FM 44-8," "Proposed Changes in FM 4-104," and "An Antiaircraft Defense of Washington," by Colonel E. W. Thomson, which appeared in the July-August issue of the JOURNAL.



SEACOAST SERVICE



TEST SECTION

Any individual, whether or not he is a member of the service, is invited to submit constructive suggestions relating to problems under study by the Seacoast Service Test Section, Army Field Forces Board No. 1, or to present any new problem that may properly be considered by the Section. Communications should be addressed to the President, Seacoast Service Test Section, Army Field Forces Board No. 1, Fort Baker, California.

Items pertaining to Antiaircraft Artillery should be sent to the Antiaircraft Test Section, Army Field Forces Board No. 4, Fort Bliss, Texas.

Any recommendations made or views expressed herein are those of Army Field Forces Board No. 1 and are not to be construed as representing the opinion of all Department of the Army or Army Field Forces Agencies.

COLONEL R. E. DINGEMAN, Coast Artillery Corps, Director

LT. COL. WILLIAM B. HAWTHORNE, Coast Artillery Corps

LT. COL. JAMES T. BARBER, Coast Artillery Corps

LT. COL. RICHARD R. MOORMAN, Coast Artillery Corps

LT. COL. FREDERICK N. WALKER, JR., Coast Artillery Corps

LT. COL. WILLIAM L. SCHREIBER, Coast Artillery Corps

MAJOR FRANCIS J. PALLISTER, Field Artillery

CAPTAIN HAROLD R. BRANTNER, Coast Artillery Corps.

Mine Handling Equipment. A service test to determine suitable equipment for handling all heavy submarine mine matériel has been completed recently. The development of present-day mine matériel has outmoded Standard mine handling equipment because of the increased weights and bulk of ground mines and allied equipment. A survey made of all harbor defenses revealed that present equipment is generally inadequate, and in many cases, nonstandard and nonuniform.

During the late war, harbor defenses supplemented their mine handling equipment by the substitution of Engineer, Ordnance and Quartermaster materials handling equipment. In many instances, this substituted equipment proved highly satisfactory in performing mine work.

Based on the experience of the harbor defenses, the substituted equipment giving the most satisfactory results were tested. Several items of present mine handling equipment were also tested to determine whether they should be retained as Standard equipment.

Testing was done at Fort Baker, California, in conjunction with the recovery of the wartime mine project and with tests of other mine matériel. Ability of the equipment to lift and maneuver all classes of heavy mine matériel was stressed. The feasibility of using each of this equipment in mine storerooms, loading rooms, magazines and cable tanks and at dock and railhead was examined.

As a result of these tests, it was found that:

The Truck, Fork-lift, 10,000-lb., 120-inch lift is superior to the Crane, Tractor, 5,000-lb., in maneuverability, on hard-surfaced roads and lifting capacity.

The Crane, Truck-Mounted, M2, is superior to the fixed mine dock crane for loading and unloading mine planters,

and other mine craft. It is especially suited to handle all classes of heavy mine matériel in the mine installations.

The Tractor, Warehouse (gasoline) 5,000-lb., DBP, is satisfactory for towing all classes of mine matériel in the mine installations.

The Trailer, Warehouse, 7-ton capacity, is satisfactory for moving all classes of mine matériel in the mine installation when towed with the Tractor, Warehouse (gasoline) 5,000-lb., DBP.

The Truck, Hand-lift, is suited to the handling of all classes of mine matériel in the mine installation.

Pallets are suitable for transporting all classes of mine matériel in the mine installation.

The Truck, 2½-ton, 6 x 6, Cargo, SWB, is suitable for transporting all classes of mine matériel in the mine installation.

The Truck, 4½-ton, Mine Handling, T52, is *not* satisfactory for handling modern mine matériel. The operational techniques for which the truck was designed have been eliminated by the Standardization of arsenal loaded mines.

The Crane, Tractor, 5,000-lb., is *not* satisfactory for lifting and maneuvering arsenal loaded mines.

First and second echelon maintenance on the above equipment can be performed in the unit motor pool with *standard* tools and equipment.

It has been recommended in the Report of Test that:

Satisfactory items of equipment be either issued or retained, as the case may be, as Mine Handling Equipment.

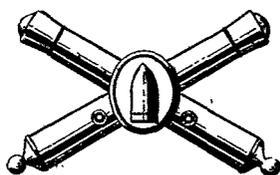
No further consideration be given to Truck, 4½-ton, Mine Handling, T52, and that Crane, Tractor-Mounted, 5,000-lb., be discontinued as Mine Handling Equipment.

(Continued on page 51)

ANTIAIRCRAFT JOURNAL

Address Supplement

As of 10 September 1948



The JOURNAL is including this Address Supplement with this issue as a ready reference for subscribers desiring to contact friends whose addresses they no longer have. The addresses are those given by the persons concerned. In the event there are any changes, we shall be pleased to make corrections in the November-December issue if notification is received by 18 November. For economy reasons the Supplement is printed as an integral part of the JOURNAL that can be pulled out to make a handy booklet. *This list contains only subscribers' names*—a list of all Regular Army Coast Artillery Officers is contained in the July-August 1948 issue of the JOURNAL.

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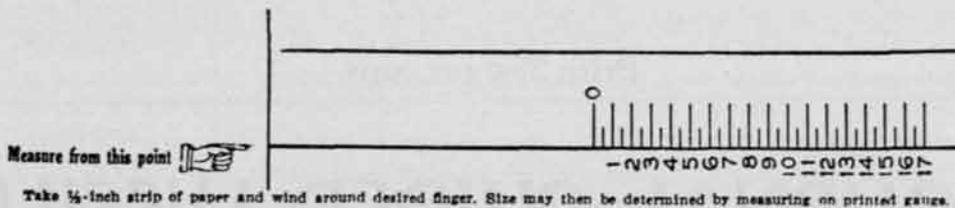
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(Continued from page 30)

Type A-2 Control Equipment. The control system with which Coast Artillery (Radio Controlled) JR Target Boats were originally equipped, is subject to many breakdowns and requires a great deal of maintenance. Simplicity and reliability of operation; design to facilitate operation, maintenance and repair; and operation intermittently for 1000 hours before requiring a major overhaul are among the more important military characteristics for JR-Boat control equipment.

An inquiry to the Air Force disclosed that Type A-2 con-

trol equipment, which consists of Target Control Transmitting Equipment AN/TRW-1, and Target Control Receiving Equipment AN/VRW-1, met the desired characteristics. Action was initiated to obtain Type A-2 equipment for testing with a view to replacement of all original A-1-A type equipment.

The receiver equipment has been installed in a JR-Boat and the transmitter equipment in a Q-Boat for preliminary test. Several trial runs have been made in San Francisco Bay and the equipment shows great promise. As the test progresses, additional information will be published.



Self-Marking Target Towed By Aircraft*

A self-marking target has been invented by SAAB (Svenska Aeroplan Aktieföretaget, Linköping, Sweden), which is primarily intended for towing by aircraft. The originator of this idea is Torsten Faxén who, in collaboration with Dr. Erik Wilkenson, has produced a system of target marking likely to revolutionize shooting practice both for fighter planes and antiaircraft defense units.

The system of practice-shooting at a target towed by an aircraft made possible by SAAB's invention differs from earlier methods. Hitherto it was necessary for the towing sleeve to be lowered and for the fighter plane pilot to land before he could ascertain his scoring results. By means of the new invention, however, the result of each shot can be communicated to him while he is actually firing, an advantage which is self-evident from the point of view of training. At the same time, the work of firing is facilitated and rendered more efficient, and a saving in flying hours and fuel is effected.

The operating principle of the Hit Indicator BT-13 is based on the fact that the shock wave of the projectile sets up radio signals through the medium of a special microphone built into the target, these signals being received by the marksman. Thus the main portion of the installation is the so-called "hit-transmitter"—a streamlined body enclosing the microphone. The influence of the air stream, the dynamic pressure and other disturbing effects caused by the towed target has been eliminated and it is the actual sound impulse set up by the projectile as it passes through the target zone which gives rise to the signal in the microphone.

From the hit-transmitter, conductors pass along the towing cable to a recording apparatus in the towing plane. The records are either read off by a person who informs the marksman verbally by radio of the result of his shots, or the marksman may himself receive a radio signal for each

projectile which passes through the target zone. The recording apparatus is fitted with a counting mechanism for recording the number of hits, and it is further provided with a device for varying the size of the target area. The zone within which hits can be indicated may be varied between 0.5 and 8 meters in radius according to the skill of the marksman and the caliber of the projectile, so that the degree of difficulty can be adopted to the stage of training attained.

In view of the fact that the invention is primarily intended for use with targets towed by airplanes, the weight of the equipment has been kept as low as possible. Thus the recording apparatus only weighs four kilos, the hit-indicator two, and the batteries for generating the current barely twenty-five kilos. The airborne parts occupy little space and can be conveniently mounted in the towing plane.

The new method permits the employment of much smaller targets, since no marking of the bullet holes is necessary. On this account the speed of the target plane may be increased and practice can be carried out under more realistic conditions.

A hit-indicating device of this kind may of course also be employed for targets on land or at sea, either stationary or towed. It thus possesses an all-round military value and in addition to this the employment of it means a considerable saving of the time of training and makes training more efficient, as the results of the shooting can be read off immediately. Furthermore, practice-shooting with this hit-indicator will be much more economic than present methods, which is still one reason for the great interest in this new invention that has been shown by the military authorities.

It is evident that the hit-indicator BT-13 will be of a value in the training of fighter pilots and antiaircraft defense personnel, and it would appear that the adoption of this self-marking target will give all military practice-shooting an extraordinary increased efficiency.

*Reprinted from the July, 1948 *Air Services* by permission.

Antiaircraft Journal

Fifty-seventh Year of Publication

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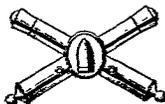
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The purpose of the Association shall be to promote the efficiency of the Coast Artillery Corps by maintaining its standards and traditions, by disseminating professional knowledge, by inspiring greater effort towards the improvement of matériel and methods of training and by fostering mutual understanding, respect and coöperation among all arms, branches and components of the Regular Army, National Guard, Organized Reserves, and Reserve Officers' Training Corps.

News and Comment

This Issue's Cover

The cover shows Fort Bliss as it looked in 1853, five years after its founding. The picture is taken from a print that hangs in the office of the Commanding General at the fort. A picture of the print as it will look on the Fort Bliss Centennial 3¢ Postage Stamp appears on page 4. The stamp will have a first-day cancellation at El Paso, Texas, on November 5.

/ / /

Association Name Change Postponed

The change in the name of the Coast Artillery Association that was the subject of a recent survey among Association members has been postponed pending the outcome of a study currently being made of the future organization of the Army.

/ / /

Refresher Instruction For Officers and Enlisted Men Assigned to AAA Units

Senior AAA officers, including brigade, group and battalion commanders and their executives, who have not recently had AAA assignments will be given the opportunity of attending a two-week indoctrination course in antiaircraft artillery.

Field grade officers, less commanders and executives, may attend the Associate Advanced Course (AA) of thirteen weeks' duration. Battery grade officers and Reserve officers recalled to active duty may attend the Associate Basic Course of thirteen weeks' duration.

The following cadre courses have been established for the training of qualified enlisted men: Master Gunners, MOS 671, 834 and 814, 16 weeks; Fire Control Electrician, MOS 633, 14 weeks; Fire Control Electrician, MOS 634, 14 weeks; Radar Repair and Maintenance, MOS 952, 31 weeks; Radar Repair and Maintenance, MOS 952, 16 weeks; and Radar Operators, MOS 514, 6 weeks.

/ / /

CAC Units Authorized Combat Chevrons

Certain CAC units are now included in the list of personnel authorized to wear combat chevrons. A news release from the Department of the Army states that paragraph 9 of D/A Circular 202, 1948, has been broadened. The release states in part:

The new definition of personnel entitled to combat insignia of grade is as follows:

(1) Personnel assigned to units whose mission is to combat the enemy by direct means, or units at Corps level or below whose mission is to control or support directly such units.

(2) Personnel when assigned to units in combat at Corps level or below.

(3) Personnel assigned to units or installations whose primary mission is to direct combat training of Infantry, Artillery, and Armored units and individuals.

The new types of specific units whose personnel are authorized the combat chevrons are:

All Field Artillery units—in lieu of the specific types of artillery units previously listed.

All Coast Artillery and Antiaircraft units—not previously listed.

Chemical Smoke Generator Companies—not previously listed.

All constabulary units—in lieu of the former listing of constabulary brigades, regiments, squadrons, and component units thereof. This will authorize Constabulary Headquarters personnel to wear the combat chevrons.

Corps Hq and Hq Company and the attached or assigned Military Police Company—not previously listed.

The Combat Arms, Combat Engineer, and Airborne Detachments of the 1802nd Special Regiment, USMA—not previously listed.

Training Divisions (cadre and overhead only)—not previously specifically listed.

Instructors and demonstration personnel at Artillery, Armored and Infantry Centers and Schools—not previously listed.

✓ ✓ ✓

R.O.T.C. Intelligence Training

R.O.T.C. students who volunteer for such study will be trained at five universities in the Fifth Army Area in the purposes and methods of military intelligence. The schools are: University of Missouri, Columbia, Mo.; University of Illinois, Champaign, Ill.; Michigan State Agriculture and Applied Sciences College, Lansing, Mich.; University of Nebraska, Lincoln, Nebr.; and the University of Wyoming, Laramie, Wyo. The training will include lectures in the various types of intelligence and operations, intelligence functional organization and agencies, demonstrations by intelligence specialist teams, local contacts with the FBI and other investigative agencies, classroom problems, and field maneuvers.

✓ ✓ ✓

Modern Armory Plans Developed For Use By National Guard

Under a plan initiated by the Chief of the National Guard Bureau, and with Bureau guidance, definitive drawings, outline specifications and pictures of model armories for the National Guard have been completed by the Army Corps of Engineers and now are being distributed to The Adjutants General of the several States.

It is estimated that approximately 1,500 new armories will be required to house the greatly increased troop basis of the new National Guard. When organization is complete, the Guard will have a strength of approximately 683,000 men, as compared with an average strength of 185,000 before World War II.

"The armory shortage already has become a major factor in the continued growth of the National Guard," Major General Kenneth F. Kramer, Chief of the National Guard Bureau, stated.

The strength of the National Guard as of January 15,

* * * * *

BALLOT

UNITED STATES COAST ARTILLERY ASSOCIATION INSTRUCTIONS AND INFORMATION

The President and three members of the Executive Council are to be elected on this ballot, to replace officers whose terms of office expire December 31, 1948. Please show your interest in the Association by voting.

Please record your vote by making an "X" in the appropriate square or indicate your choice by writing in the name of your candidate. Ballots received with signatures, but with no individual votes recorded, will be considered proxies for the President of the Association.

Each candidate was considered in connection with the geographic location of his residence. The Constitution of the Association requires that at least five members of the Council reside in the Washington area, and that at least three of them be on active duty, in order to facilitate the transaction of business.

Ballots received after December 31, 1948, cannot be counted.

Ballots may be collected by Post, Battalion, or other unit commanders and forwarded under one cover.

Locally prepared ballots, cast by those who do not wish to mutilate their Journals, will be accepted if they are signed.

FOR PRESIDENT (1949-1950)

Lieutenant General LeR. Lutes
Director of the Staff, Munitions Board,
National Military Establishment.

FOR MEMBERS OF THE EXECUTIVE COUNCIL

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Colonel Charles M. Boyer
Assistant to the Executive Director, Reserve Officers' Association, Washington, D. C.

From National Guard (One Member)

Brigadier General John C. Henagan
Assistant Division Commander, 51st Infantry Division, South Carolina National Guard.

From Regular Army (Vote for One)

Brigadier General Robert W. Crichlow
Army Secretary, Research and Development Board, National Military Establishment.

Colonel Legare K. Tarrant
Member of Joint Staff Plans Group of the Joint Chiefs of Staff.

Colonel Frank T. Folk
Chief, Far East Pacific Branch, Plans and Operations Division, General Staff, United States Army.

Signature _____

Rank & Organization _____

Address _____

* * * * *

1948, was 213,767, some 28,000 in excess of the average prewar strength. At the present time this excess is being housed in rented facilities, war surplus buildings and air installations.

"I believe the National Guard can go to a strength in excess of 300,000 with present facilities, but expansion beyond that point will depend in large measure upon the acquisition of additional armories," General Cramer said.

The Governors of the several States accepted the greatly increased troop allotments subject to the provision that they would receive federal aid in the construction of new armories. At the present time the Gray Committee on Civilian Components is making a study on the need for training facilities by the civilian components of all services, and its recommendations will be presented to Secretary Forrestal.



**Paul W. Rutledge Becomes Permanent
Brigadier General**

Paul W. Rutledge, who commands the 34th AAA Brigade at Fort Bliss, Texas, was promoted to temporary brigadier general on 16 July 1948 and to the permanent grade of brigadier general on 1 September 1948.

General Rutledge was commissioned a second lieutenant in the Coast Artillery Reserve on 15 August 1917 and in Coast Artillery Corps of the Regular Army on 26 October 1917.

Before World War II, his assignments included tours at the University of Alabama as PMS&T, with the Civilian Conservation Corps, in Panama and in the Philippines. In 1940 he was assigned to the National Guard Bureau. On 30 October 1942, he became a temporary brigadier general

in command of the 45th Coast Artillery Brigade at Camp Stewart, Georgia. He accompanied that brigade overseas in April 1943 to the North African Theater of operations and later he was designated commanding general of the 45th Antiaircraft Artillery Command, Fifth Army.

Upon return to the United States in August 1945, he assumed command of the 4th Antiaircraft Artillery Command, San Francisco, California. He was assigned to the United States Strategic Air Forces in Guam in August 1945.

General Rutledge was assigned as Commanding General, Atlantic Sector and AAA Defenses of the Panama Canal Department prior to his assignment to the 34th AAA Brigade.

We Congratulate

We congratulate the 138th AAA Group, commanded by Col. George E. Young, for its continuous and intensive training cycle's being conducted without interruption of its primary mission of providing security guards for service installations in the Yokohama area.

The 138th AAA Group is composed of the 753rd AAA Gun Battalion (120mm), commanded by Lieut. Col. Francis L. Beaver; the 933rd AAA AW Battalion, Semi-Mobile, commanded by Major William E. Holmes; the 76th AAA AW Battalion (Self-Propelled), commanded by Major David B. McFadden; the Eighth Army Radio Controlled Aerial Target Unit, commanded by First Lieut. Stanley Smith, attached to the 138th's 162nd AAA Operations Detachment, commanded by Major Kyle E. Davis.

Requirements for RA Competitive Tours Broadened

The Department of the Army, in a recently published Army Regulation (AR 605-8), has announced new eligibility requirements for competitive tours of active duty leading to appointment in the Regular Army. The tours are open to Reserve and National Guard Officers, and appointments will be in grades of First and Second Lieutenant depending on whether the appointee has more or less than three years' active Federal Commissioned service subsequent to 31 December 1947.

Greatest change in the policy is the raising of the age limit. The former age limit of 27 may be increased by as much as 5 years in certain cases. Age limit may be increased: (1) by total period of active Federal commissioned service subsequent to 31 December 1947, no more than 5 years to be included in this category; (2) or by total period of active Federal commissioned service performed between 7 December 1941 and 2 September 1945, but in no event under this category will the person be more than 30 years of age on the date of his appointment. These age limits do not apply to Judge Advocate General officers who may be 32 years of age; chaplains who may be 34, and Medical Service Corps candidates who may be 30.

Candidates must pass an Army educational examination unless they have two years of college in which case they may be exempt from the examination.

The next tour begins on 15 January. More than 400

vacancies in the Regular Army can be filled from those entering the tour at this time. Officers on active duty should submit applications to The Adjutant General through their commanding officers, and officers not on active duty should apply direct to The Adjutant General.

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EAD Requirements Announced

Army-wide requirements for recall to Extended Active Duty as of August 20th are listed below:

	Lt. Col.	Major	Captain	Lieut.
CAC	8	36	359	1153
AGD	0	0	34	598
CE	8	28	363	955
CHAP	5	2	0	360
CML	1	3	31	161
FD	0	0	72	255
JAGD	5	7	9	0
CMP	4	4	0	282
ORD	6	14	92	561
QMC	0	0	53	932
SC	18	18	66	412
SPSV	2	5	0	88
TC	22	15	175	821
FA	3	38	615	1531
INF	48	119	1590	2555
CAV	9	30	463	833

Not listed in the above tabulation, are numerous vacancies in the Medical Department, including the Army Nurse Corps, Dental Corps, Medical Corps, Medical Service Corps, Veterinary Corps, and Women's Medical Service Corps.

Age restrictions have been raised so that company grade male officers may be recalled, provided they can serve for one, two, or three years prior to reaching the age of 50 years, and field grade officers who may serve one, two, or three years prior to reaching age of 60. The age restrictions for all female officers are the same as for field grade male officers.

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Citizenship Stressed In Army Training Program

A sizable portion of the time used for the basic training of new soldiers will be devoted to lectures, discussions and motion pictures covering broad phases of good citizenship and subjects designed to foster quick adjustments from civil to military life, the Department of the Army announced recently.

A comprehensive program has been prepared by the Troop Information and Education Division, which drew on its wide experiences in World War II in selecting and outlining topics. The basic troop information program consists of 12 discussion periods spread out over the eight weeks of basic training. Training officers in all eight of the Army's training centers will adhere to the same program and all new troops will cover the same educational ground.

Because of the strong emphasis placed on troop information and education by the Army, the soldier will be informed as to his advantages and obligations as an American citizen at the same time he is learning the rudiments of military life. He will also get a better understanding of American ideals and an adequate and intelligent explanation of Army processes, which will tend to foster the dignity and integrity of the individual soldier.

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Guided Missiles Pamphlet Wins Praise

Here is one of the many letters the JOURNAL has received in praise of its guided missiles pamphlet:

To the Editor:

I have already expressed my enthusiastic approval of the JOURNAL's guided missiles articles and we will continue to recommend them as reference material for the courses of instruction presented here at the school. Having them all assembled in one place will be a great convenience to those who wish to review them or keep their notes together. Every member of a recent class of National Guard and Reserve Officers indicated that he would like to buy one or more copies and expressed disappointment that none were yet on hand.

It is my estimate that our bookstore will sell at least 500 copies this year.

LAWRENCE W. BYERS,
Lt. Colonel, CAC,
Director, Guided Missiles Dept.,
The Artillery School,
Ft. Bliss, Texas.

/ / /

Officers' Service Club

The Officers' Service Club located at 1644 Twenty-First Street, Northwest, in Washington, D. C. has transient accommodations available for officers of all components of the services. Double rooms are available at \$10.00 per person a week and single rooms are \$12.00 a week.

Other facilities offered by the Club include a barroom, lounges, a ballroom and a dining room.

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Guided Missile Course Opens

With 36 Army and Navy officers enrolled, Guided Missile Course No. 4 opened at Fort Bliss, August 20.

The 37-week course will be devoted to study of all phases of guided missiles and the guided missile program of the United States. Tactics of guided missiles from both the Army and Navy standpoint will be studied. Instruction will be given in aerodynamics, propulsion, and control of guided missiles and their expected application.

Lt. Col. Lawrence W. Byers is course supervisor.

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Don't Miss The Ballot On Page 53

United States Army Caribbean Conducts Gunnery Course for Argentine Artillerymen

The United States Army Caribbean recently conducted a gunnery course for a group of officers and noncommissioned officers from the Republic of Argentina.

The artillery school was under the supervision of Major General Edward H. Brooks, Commanding General of the United States Army Caribbean. The school Commandant was Colonel Paul B. Nelson who commands the 65th AAA Group, Fort Amador, Canal Zone, where the school was held.

Included in the artillery course at Fort Amador were most of the training aids common to U. S. Army classes. Liberal use was made of training films and combat documentaries. An intensive course in English was included in the curriculum to enable the Spanish-speaking students to receive technical instruction in the original language.

Don't Miss The Ballot On Page 53

Japanese Underground Manufacturing Facilities Studied

Studies made by analysts at Army Air Forces headquarters in Washington and at Air Matériel Command headquarters at Wright Field, Ohio, have disclosed that the Japanese achieved some remarkable results in their resort to underground manufacturing of aircraft and component parts to escape American bombs.

The analysis of foreign manufacturing experience is a part of the current Army Air Forces Industrial Preparedness Planning Program.

The Japs started dispersal of the Nakajima Aircraft Plant No. 3 of the Ota Works in 1945 due to the destruction caused by B-29's of the 20th Air Force. The major portions of the dispersal sites were existing stone quarries in the Oya area.

The Otome plant for fabrication of sheet-metal parts was put into an underground installation consisting of 12 parallel tunnels driven through a hill so as to be open at both ends. In general, this plant was similar to the German plan for the horizontal type plant.

Stone quarries in close proximity to each other and varying in size from a few thousand square feet to 98,000 square feet were utilized by the Japs. Entrance was gained by means of vertical shafts and inclined ramps apparently depending upon the topography of the locale. One outstanding feature of this group of underground sites was the utilization of existing tunnels connecting the various plants to form a network of underground installations.

Monument Erected to 184th AAA Gun Battalion

A memorial to the 184th AAA Gun Battalion was unveiled by Mrs. Lewis W. Douglas, wife of the American Ambassador to England, on July 13, 1948, at Lippitts Hill, Essex, England.

The 184th was activated in England in August 1943 by converting the 1st Battalion of the 61st Coast Artillery Regiment. The battalion participated in the AA defense of London from 1 January to 26 May, 1944.

From London the battalion moved on to the European mainland where it established an enviable record which included many First's, some of which were:

First American Antiaircraft Unit to fire on a hostile target in the ETO, Keflavik, Iceland, 14 August 1942.

First American Antiaircraft Unit to be credited with the destruction of an enemy plane in England, 0115 hrs 19 April 1944.

First and only American Gun Battalion operational in the Gun Defense of the City of London.

First in the destruction of V-1 bombs, officially credited with the destruction of 365.

First in the number of rounds of ammunition expended by 90mm guns at aerial targets.

Among the first in continuous overseas duty, departed the U. S. on 19 Feb. 1942 and returned to U. S. on 5 Dec. 1945, making a total of 45 months and 16 days.

Overseas Duty for NG and Reserve Officers

The Adjutant General has reported that Reserve and National Guard Officers, recalled to extended active duty in the Army expansion program who have served less than 12 months overseas since 7 December 1941, will be immediately eligible and available for duty abroad.

Comment on FM4-104

To the Editor:

Reference. "Proposed Revision of FM 4-104" in the May-June issue of the JOURNAL.

Normally all items published in field manuals are taken as the final word. Therefore, accuracy is most essential for the individuals who live by the book rather than by experience. The following comments are made on the above reference to help clear up certain points that may cause difficulty:

1. Gun Densities: The gun density must be determined by the highest command on the Area or Theater. The following items will influence the size of the gun density:

- a. Number of AAA batteries available for assignment to an objective compared to the importance of the objective.
- b. The terrain.
- c. The estimate of the enemy's situation.
- d. Status of training of the troops.

(Any attempt to permanently fix a gun density will obligate higher commands to accept an excuse from lower headquarters for the lack or shortage of complete defense.)

2. Selection of Position: AAOR: The most important consideration to be made in selecting a position for an AAOR is protection and concealment. Normally the communications are flexible enough to consider as secondary.

3. Gun Battery:

- a. When the terrain permits, the ideal situation for a gun battery would be to locate the guns 100 yards from the tracker, to prevent vibrations and dust from interfering with the tracking. More accurate firing can be obtained by locating the tracker to the nearest

5-yards from the D.P. (directing point of the battery) and placing both on the north/south or east/west line to reduce the amount of necessary parallax correction.

- b. The formation of the guns of the battery may be of different types depending on the mission, terrain, and expected approach of the target. The best tactical formation for all around defense with a single gun battery is an equilateral triangle (40 yards between guns) with the fourth gun placed on the D.P. or center of the triangle. When each battery has a sector assigned the square or trapezoid will prove to be the best formation. The best training formation, or when the direction of approach of the target is known, is all guns on a straight line.

4. Command Post: The battery C.P. should be set up at a location where the battery commander can observe the largest portion of his tactical equipment with adequate telephone communication to each installation. The range officer is stationed in the director trailer.

5. Machine Guns: The machine guns assigned to the battery are employed to provide local defense for the batteries' position. The following should be considered when determining the positions for these machine guns:

- a. Terrain—good all around field of fire.
- b. Low-flying aircraft.
- c. Ground attack.

6. Amphibious Operations:

1. Training should include tactics of small infantry units.

2. Liaison with appropriate arms should be stressed.

ROLAND E. DENBY,
Major, CAC
Commanding
532d AAA Gn Bn (PS)

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Industrial College of the Armed Forces

The third regular session of the Industrial College of the Armed Forces, at Fort Lesley J. McNair, Washington, D. C., began its ten-month term on August 26th. The class of 115 officers includes 54 Army, 22 Naval, 3 Marine, and 36 Air Force officers.

1 1 1

New Insignia System For Army Enlisted Men

Providing for two new types of insignia, combat and non-combat, the Department of the Army has completed a new circular designed to implement Circular 1 recently issued and which set forth the basic foundation for the new Career Plan.

Circular 1 announced the abolition of technician grade titles and provided for seven single grade titles. Under the new circular released in May and effective in July when the new combat chevrons were expected to be in general supply, enlisted men will be instructed to change their insignia of grade to conform to their positions under the Army's "career guidance" program. After the changeover, it was announced, men in combat jobs will wear chevrons of dark blue on a gold-colored embroidered background, and

noncombat soldiers will wear insignia of gold on a dark-blue background. The new emblems will be one and three-quarters inches wide on backgrounds two inches wide, or about two-thirds the size of present insignia. In the case of first sergeant, an occupational title of the first enlisted grade, a lozenge or "diamond" such as is now worn by first sergeants will be worn inside the first-grade insignia.

In addition to the distinction of color between the chevrons of combat and noncombat men, those noncommissioned officers designated as combat leaders—such as squad sergeants and platoon sergeants—will wear a green cloth tab, one inch wide, on the middle of each shoulder loop. This tab will be relinquished, the Army said, when the individual vacates his "combat command" position, though he may or may not retain his combat chevrons.

Basically, the chevrons to be worn by each grade will be similar to those now worn by the same grade. However, there will be no differentiation between "technician" and "line" personnel in a given grade except for the color of the insignia.

As presently worked out insignia for each grade are as follows:

- First grade, three chevrons above three arcs.
- Second grade, three chevrons above two arcs.
- Third grade, three chevrons above one arc.
- Fourth grade, three chevrons.
- Fifth grade, two chevrons.
- Sixth grade, one chevron.
- Seventh grade, no chevrons.

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Retired Generals

Coast Artillery officers promoted under the new Act (Public Law 810), which provides for promotions on the retired list, in the highest wartime temporary grades in which personnel served satisfactorily for at least six months are:

Advanced to Major General

Brig. Gen. Kenneth T. Blood
Col. Homer R. Oldfield

Advanced to Brigadier General

Col. Joseph F. Battley
Col. James H. Cunningham
Col. Bonner F. Fellers
Col. Charles A. French
Col. Ralph E. Haines
Col. Charles Hines
Col. Henry B. Holmes, Jr.
Col. Harold F. Nichols
Lt. Col. Theodore M. Osborne
Col. Robert M. Perkins
Col. James R. Townsend

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Army Doubles Number of Officer Candidate Courses

In order to help meet the demand for officers in the expanding Army the number of Army Officer Candidate Courses will be doubled while the minimum age limit for attendance has been reduced, the Department of the Army has announced.

Beginning in October, a new class will be started each

month at the School located at Fort Riley, Kansas. In the past a new class was started every other month. Approximately 200 students constitute each class.

The change in the age requirement now makes it possible for individuals who have reached their nineteenth birthday to be enrolled in the course. Previously, the minimum age was twenty years and six months. The maximum limit remains 28 years of age.

Qualified civilians who are high school graduates may still enlist in the Army in the grade of Sergeant (formerly called Staff Sergeant) specifically for the purpose of attending the AOCC. Applicants who have not had basic training or its equivalent prior to enlistment will be sent to a training center for basic training before starting the course. Graduates will be given an opportunity to seek a Regular Army commission by serving on competitive tours of active duty as Reserve officers.

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USAFI Facilities Available to Basics

A new directive extends the facilities of the United States Armed Forces Institute to all personnel on active duty. USAFI courses were not previously available to basics.

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Inflatable Pads to Protect Sleeping Troops From Chill

The Quartermaster Corps is working on the development of a new type inflatable sleeping pad to provide troops sleeping on the snow or cold ground with adequate protection from chilling due to heat loss.

A mummy-shaped, inflatable mattress, weighing 56 ounces, which can be folded and readily packed for carrying, is undergoing extensive field tests. This pad is assembled from lightweight nylon cloth coated with butyl rubber. It has a cradled cross section which provides a hollowed-out effect and overcomes the tendency of a sleeper to roll off an air mattress. The 6-foot 6-inch length is considered sufficient for all personnel. Efforts will be made to reduce the weight to 35 ounces.

The mummy shape was selected because it allows weight savings of about 10 per cent over the oblong design, and is so constructed that it may be placed in the bottom of the cold-weather sleeping bag. Consideration is being given to integrating the pad with the sleeping bag.

War experience showed that woolen blankets and down-filled quilts, which provide excellent insulation when used as covers, completely fail to prevent heat loss to the ground when placed beneath the body. This is because the body weight compresses the wool or down, eliminating the still air spaces which prevent heat loss.

Quartermaster Corps technicians point out that an air mattress, by preventing body contact with the ground, reduces heat loss by conduction. Some heat is transferred across the air space by radiation but it is planned to overcome this by adhering aluminum foil to the inner surfaces of the pad, or by filling the air spaces with glass fiber or a down-feather mix.

Since rubber loses its flexibility under extremely low temperatures, improvements must be made in the rubber coatings. Another problem is presented when troops at-

tempt to inflate the mattress with their breath, causing moisture to condense and accumulate as ice within the pad. Plans are being made to develop a small hand bellows or an inflating device which will utilize compressed or liquefied gas in a manner similar to the carbon dioxide cartridges used for inflating life rafts and life jackets.

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We Commend:

A group of reserve officers from San Antonio, Texas, who visited the New Orleans Port of Embarkation, Saturday, 11 September 1948, for a week-end training tour to observe Port facilities and operation of the Transportation Corps.

Each officer volunteered for this training on a non-pay status, paying his own expenses for the trip. On completion of the tour, the party inspected the USAT *Pvt. William H. Thomas* before returning to San Antonio. They were pleased about their visit and made many appreciative comments for the courtesy and cordiality shown them.

✓ ✓ ✓

New Temporary Promotion Rules Set Up

Regulations prescribing a new system for the temporary promotions of Regular and Reserve officers on active duty have received top Department of the Army approval and are slated for official release within the next few weeks.

The new rules for temporary promotions, which will be made by selection and which are not dependent on unit vacancies, but rather on Army-wide vacancies, will go into effect on 1 November.

Disclosure of details concerning the new plans followed months of rigorous study by Army personnel experts who have striven to provide an equitable basis for effecting all temporary promotions.

Promotions to major and above on the Army Promotion List will be made following selection processes for which The Adjutant General has responsibility.

Promotion of officers on the Army Promotion List to the grade of captain will be made by the major commands.

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Guard Bureau Reorganized

A reorganization of the National Guard Bureau to provide Army and Air Divisions under command of major generals will become effective 1 October 1948.

In announcing the action, Maj. Gen. Kenneth F. Cramer, Chief, National Guard Bureau, said the NGB will be organized and will function as a Special Staff agency of both the Department of the Army and the Department of the Air Force.

The two major generals will be selected from among general officers of the National Guard of the United States.

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Civilian Component Tours

Recruiting duty is now considered a civilian component tour, according to a recent directive of the Army. Other tours in this category are NG, ORC, and ROTC.

Don't Miss The Ballot On Page 53

On Colonel Thomson's Flak Article

To the Editor:

I am in wholehearted agreement with Colonel Thomson's article, "An Antiaircraft Defense of Washington," that appeared in the July-August issue of the JOURNAL, and his remarks about the necessity of basing tactics upon flak analysis of our own dispositions, reconsidering the composition of our gun batteries, wind effect, consideration of adjacent defenses in planning a defense, increasing the number of guns defending important areas and pulling them in close to the objective—in fact, I think that practically all of Colonel Thomson's conclusions are not only sound but necessary to an intelligent assessment of the problems facing the AAA in devising suitable tactics.

I should, however, like to discuss certain points in detail, and for convenience I am grouping them under subject headings.

First, the *Grosse Batterien*:

This technique increases concentration of fire because of the increased number of guns bearing on one target, and increasing flexibility because of the additional number of directors and radars per fire unit. Increase of concentration will increase hit expectancy; increased flexibility is mainly valuable if air attack is to be made by large formations or by simultaneous, coordinated attacks from several directions. It is my opinion, as I indicated in my article, that large formation attacks are obsolete (Colonel Thomson implies the same thing when he describes the reduction in planes per formation that occurred in the Eighth Air Force), but there remains the possibility—the increased possibility—of simultaneous attacks from different directions and altitudes. It might be advisable to consider increasing the gun battery to, say, six guns with two directors and radars: one director and radar could be used to track the target being engaged and the other to track the target to be engaged next. In any case, the four-gun battery need not be sacrosanct; the British employ a battery of two six-gun "troops," each troop being a fire unit; and the Germans, in effect if not in their T/O, seemed to have more six-gun batteries than anything else, generally speaking.

Also, adaptation of the Field Artillery type of Fire Direction Center to AAA uses might prove profitable in trying to increase concentration. I do not believe that the AAOR duplicates the FDC. Such an adaptation would, of course, be limited in application by the efficiency of the warning service, communications, concentration of defenses and perhaps other factors as well. *Grosse Batterien*, per se, were perhaps expedients, but the principle involved (increase of fire power and flexibility of the fire unit) is one which we should not discard without the most thorough investigation.

Anti-flak:

There are two sides to this argument, and while no one can dispute the advantages to an attacking air force of reducing flak effectiveness, reduction of AA positions by aerial attack can be an expensive process. Because of the altitude at which heavy bombers fly, heavy bombing attacks on AA positions are no more risky for the bomber than any other type; on the other hand, for a pinpoint target such as a battery they are not very accurate, either. A medium

bomber making an attack would have to run the gauntlet of the medium and light AA sited for local defense (as pointed out by Colonel Thomson), not to mention point-blank fire from the batteries being attacked. The most effective type of attack on AA positions would be by fighter-bombers, but this is also the most hazardous method. Our only experience of this type in the Eighth Air Force was in connection with Operation MARKET, the airborne part of the invasion of Holland in mid-September, 1944. Approximately one hundred fighters from three groups were sent out, and thirty were lost. There were, however, complications in that case: friendly AA units were expected to be in the area, so the orders were that only hostile batteries could be engaged (a hostile battery was one that fired on a plane first); and one group had its area changed just at take-off time, when it was too late for the Flak Analysis Officer to rebrief the pilots. Nevertheless, the indications are that AA batteries are particularly dangerous targets.

Of course, the above discussion is more pertinent to the air force side of the problem; our concern should be more with the AA phase. It is safe to say that AAA should anticipate anti-flak attacks; countermeasures should emphatically be considered by the officers who are rewriting the manuals. By countermeasures, I mean something besides digging slit trenches. The four quadruple-mount .50s in power turrets which are organically part of the gun battery are fine within their limitations, but an important part of AW units' responsibility should be the protection of nearby gun batteries. Gun batteries themselves should be trained and exercised in point-blank fire, which can be most effective if the losses our air force sustained to it can be considered a criterion.

Adjacent Defenses:

A Flak Analysis Officer helping to plan a mission is not concerned solely with the flak at the target, but with all the flak that must be encountered between the bases and the target. In Europe we could not, for example, consider the defenses of Brunswick without considering those of Hanover. Yet, the defense of Washington is considered a separate problem entirely from that of Baltimore. Certainly a defense should be planned so that it ties in with adjacent defenses. This point was mentioned in "Proposed Revision of FM 4-105" in the May-June JOURNAL as well as by Colonel Thomson, and would seem, therefore, to be on the way to acceptance. While we can hardly expect to have enough guns to prevent gaps between adjacent defenses, we should plan our various defenses so as to make the approaches to any major target as difficult as possible.

Wind:

Prevailing wind is certainly a primary consideration in the disposition of batteries. I have no comment to make on Colonel Thomson's discussion of this subject other than to agree with it. However, it does bring me logically to one point on which I question his conclusion. The use of flak analysis and the consideration of wind effect will certainly restrict our choice of battery positions. Only by fortuitous chance, therefore, can we expect even a city with numerous parks, such as Washington, to have sufficient open space in the right places. While I hold no brief for flak towers, they do constitute one means of providing gunights

in built-up areas. Even when open spaces do exist, the tall buildings which characterize most American cities pose a problem in field of fire, which also could be solved by flak towers. Certainly, if we accept Colonel Thomson's thesis that guns should be concentrated near the objective, with AA strength increasing inward rather than outward (and I do accept it), we must find some solution to this problem.

The construction of alternate positions is a solution to the problem posed by the possible shift of prevailing winds, and the point about dummy positions is well taken. The need for deception to foil enemy flak analysis cannot, in my opinion, be too strongly emphasized.

Light Flak:

From the standpoint of flak analysis as an air force device, I cannot agree that there can ever be for light flak "a proper method of flak analysis based upon probabilities" except, perhaps, for dive-bombing or for level attacks from an altitude of not less than five hundred feet. Even then, AW flak analysis cannot hope to begin to be accurate until photo interpretation is perfected to the point that it will reveal the number of barrels on each located mount and at least the approximate caliber of the barrels. I struggled with this problem for seventeen months during the war and came to the conclusion that the only practical approach was to stress proper fighter tactics (surprise, speed, single passes, line-abreast formations, etc.); I tried to point this out in my article, "Flak Versus Fighters," published in the *JOURNAL* for July-August, 1946.

From the standpoint of AAA, however, the use of flak analysis to determine the effectiveness of our own AW defenses is quite feasible, for we know the various calibers and the number of barrels on each mount. However, it is essential that the influence of terrain mask on AW effectiveness be kept constantly in mind in any such analysis.

Exact data on hit expectancy were being collected on both guns and AW, as well as data on relative effectiveness against targets at various altitudes, by the Flak Analysis Test Firing Project at the AAA School during 1945 and 1946. I was for some months Assistant Director of the project, and at the time I left to come overseas (August, 1946), most of the figures had been collected. Although the project was absorbed into the Research and Analysis Department, it was my understanding that the projected studies were to be completed. In any case, construction of flak computers based on exact rather than estimated figures has either been completed or can be completed with relatively little effort.

Smoke:

Colonel Thomson suggests that smoke would be advantageous in obscuring targets. It would, of course, force the attackers to bomb by radar, which at present is, I believe, less efficient than visual bombing. Would it not likewise be advantageous to attempt to jam the bombers' radar at the same time that we set off a smoke screen?

As I see it, AAA has two major tactical problems: one is with AA in stable situations and the other is with AA with the field forces. These two divisions overlap only partially, for each has many difficulties peculiar to itself. Flak analysis, however, is a common denominator to both, necessary as a foundation for the tactics of both. Here-

tofore, most of us who were in flak analysis have talked and written of it as an air force matter, whereas in its initial concept it was meant as a basis for the evaluation of our own tactical dispositions. I believe that this fundamental aspect should be stressed and reiterated until it is accepted by the Corps.

Flak analysis is, of course, capable of considerable refinement, especially as applied to the AAA side of the question. However, even before the war ended some officers at Bliss devised a so-called "Flak-O-Meter" which readily gives the relative reduction in effectiveness, by percentages, for varying degrees of compromise with the field manual ideal of disposition. Unfortunately, the "Flak-O-Meter" was classified Confidential, because it was based on the old (theoretical) hit expectancy curve. As far as I know, its classification has never been downgraded. In any case, a refurbished "Flak-O-Meter" is the answer to the tactical problem as far as guns are concerned, and construction of an AW "Flak-O-Meter," incorporating a consideration of terrain mask, should be simple, though it would be tedious.

Very truly yours,

JOHN B. B. TRUSSELL, JR.
Major, CAC.

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Advanced Course Begins at Bliss

Initiating the 1948-49 "school year" at Fort Bliss, the Advanced Artillery Officers' Course formally opened with its first 9-week phase August 14.

More than 160 officers enrolled for the course were welcomed to Fort Bliss by Major General John L. Homer, the Commanding General of the AAA and GM Center, and by Brig. Gen. Charles E. Hart, Director of the AA and GM Branch of The Artillery School.

Colonel E. B. Thompson, Director of the Department of Tactics of the AA and GM Branch of The Artillery School, has been designated as class supervisor.

After completing this phase of the course, officer-students will continue their study at Fort Sill, Oklahoma.

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Establish General Research Office

Major General A. C. McAuliffe, Deputy Director for Research and Development of the Army General Staff, has announced a contract with The Johns Hopkins University in Baltimore, Md., for establishment of a General Research Office.

Scientists assigned to this office will attempt to solve important military problems in the fields of weapons development, strategy, tactics and logistics. Additional projects will be subcontracted to various other universities and research organizations.

Although most of the problems which will be studied are highly classified, examples of some to be solved are:

Analysis of optimum weapons, equipment and systems for anti-aircraft defense.

Studies of relative value of short-range guided missiles, free rockets and artillery.

Studies of comparative over-all costs of various methods of waging ground warfare.

Analyses of most effective uses of motivational forces of

group association and the development of esprit de corps in the training and absorption of replacements and in the methods of training troops for Army operations.

Applications of the principles of Biomechanics to equipment designing in the Army.

Matching research programs with military objectives.

Feasibility of logistical support of an Airhead, as opposed to a Beachhead.

Analysis of factors and principles involved in choices and determination of individual protection from radiological and chemical warfare, conventional explosives and bullets and all other weapons and munitions in modern warfare.

Establishment of a General Research Office is the implementation of a recommendation made in January of this year by the Policy Council of the Research and Development Board of the Armed Services. It will be headed by Dr. Ellis A. Johnson, formerly a Navy officer and later a civilian research analyst for the Air Force. Lt. Col. W. C. Farmer, GSC, Army General Staff, has been designated "Project Officer."

The central group of 20 to 30 scientists will be located at Fort Leslie J. McNair in Washington, D. C. In addition, several teams representing the major scientific fields will be sent to various military installations to perform "on-the-spot" analyses of military, tactical and technical problems.

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QMC Operates Army's "Lost and Found" Bureau

More than \$8,000,000 in personal funds which had either been lost by Army personnel or found among the effects of deceased soldiers has been returned to the proper owners since December, 1942, by the Army Effects Bureau at Kansas City, Missouri, the Department of the Army has announced.

This sum, dispatched along with personal effects valued at thousands of dollars, was part of the operations of perhaps the largest lost and found agency of its kind in the world. The bureau is operated by the Office of The Quartermaster General.

Currently the Army Effects Bureau is making an effort to establish the identity of owners of a large amount of valuable property which has been carefully stowed away against the day when ownership is determined.

In assisting in locating owners, photographic studios, watch companies, high schools and many business firms have been very cooperative in furnishing leads which eventually brought property back to the hands of those who had lost it.

Ownership in one case was established through a ring which was part of personal effects to be returned. The only available clue was an inscription on the ring which gave the name of a high school, a date and three initials. Bureau personnel scanned the graduation list of the high school for the year given on the ring and eventually found the only name which matched the initials. The owner had been killed in action, but a grateful sister received the ring as a keepsake.

The bureau has a long arm, and sometimes recovers property which had long been given up as permanently lost. A Captain of Infantry, for example, was one of the

few Americans to survive the bombing of a Japanese transport that was en route to a prison camp in Japan. Later he died. Before his death, however, he related to a fellow officer a story of having traded his expensive watch with a Japanese sentry aboard the ship in exchange for food. The Jap had not kept his part of the bargain, and the Captain wanted his watch back. The fellow officer returned to the United States and told his story to the Army Effects Bureau. After months of search, the Japanese sentry was located, the watch recovered and sent to the Captain's parents.

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Address Corrections

The following corrections have been received by the JOURNAL for addresses of officers on the list of Regular Army Officers that appeared in the July-August issue:

<i>Name</i>	<i>Correct Address</i>
Anderson, David L., Maj., 59th AAA AW Bn (SP), Ft. Bliss, Texas.	
Barnard, Bruce McC., 1st Lt., AAA&GM Br, TAS, Ft. Bliss, Tex.	
Benner, John A., Maj., 384th AAA Gun Bn, Ft. Bliss, Tex.	
Blair, Warren S., Maj., TAS, Ft. Sill, Oklahoma.	
Cavanna, Augustus R., Jr., 1st Lt., 59th AAA AW Bn (SP), Ft. Bliss, Tex.	
Cordell, Ben Early, Col., Ass't G-1, Hq, AFF, Ft. Monroe, Va. (Listed erroneously previously as Lt. Col.)	
Daley, Edward J., 1st Lt., 384th AAA Gun Bn, Ft. Bliss, Tex.	
Dodson, Minot B., Lt. Col., AAA&GM Br, TAS, Ft. Bliss, Tex.	
Dworak, John L., Capt., 267th AAA Gp, Ft. Bliss, Tex.	
England, J. M., Col., Pine Camp, New York.	
Fischer, Kenneth P., 1st Lt., 384th AAA Gn Bn, Ft. Bliss, Tex.	
Fox, Elmer W., Maj., 267th AAA Gp, Ft. Bliss, Tex.	
Heasty, Charles F., Jr., Lt. Col., AAA&GM Ctr, Ft. Bliss, Tex.	
Heilfron, M., Col., 6607 ASU, Sen. Army Instructor, Nev. Instr. Gp, State Bldg., Reno, Nev.	
Moore, Howard E., Capt., 34th AAA Brig., Ft. Bliss, Tex.	
Nanney, David Y., Maj., 384th AAA Gn Bn, Ft. Bliss, Tex.	
Reidy, William J., 1st Lt., AAA&GM Br, TAS, Ft. Bliss, Tex.	
Russo, Joseph, 1st Lt., AAA&GM Br, TAS, Ft. Bliss, Tex.	
Scarborough, Samuel T., 1st Lt., AAA&GM Br, TAS, Ft. Bliss, Tex.	
Stuckey, Jonas W., 1st Lt., 59th AAA AW Bn (SP), Ft. Bliss, Tex.	
Sweek, Jack G., Maj., AFF Bd No. 4, Ft. Bliss, Tex.	
Wolfe, Shuey, Col., Hq 87th AAA Gp, APO 331, c/o PM, San Francisco, Calif.	
Yantis, Myron E., Capt., AAA&GM Ctr, Ft. Bliss, Tex.	

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Don't Miss The Ballot On Page 53

Weather Facsimile Network Developed

Development of a weather facsimile service for the transmission of weather maps for the Air Force Air Weather Service was recently announced jointly by the Air Force and the Army Signal Corps. It is the first such system of its kind and will put at the disposal of Air Force Ground and Flight personnel factual, up-to-the-minute weather data. This material is furnished in the form of a map and requires no further plotting.

Approximately 15,000 miles of circuits are employed in furnishing the facsimile system which comprises four separate networks of telephotography (facsimile) transmission channels. These networks can be interconnected so that one sending station may transmit to all receiving stations.

Hitherto, the transmission of weather information to the forecasters at all domestic Air Force fields has been limited to the use of private line teletypewriter networks of the Air Force and the Department of Commerce.

Now, domestic as well as international weather maps are prepared at the main control point at Arlington, Virginia, and sent from there on an almost half hourly basis to all Air Force bases in the United States. In addition, regional maps are distributed from secondary transmitting points at New York, California, Texas, Oklahoma and Georgia.

Under the new arrangement, once the basic weather information has been plotted and analyzed in chart form, the facsimile method permits the transmission of the completed chart in about 20 minutes. This provides the forecasters at Air Weather Service Stations with comprehensive data from which local and route forecasts can be developed without loss of time and without detailed clerical operations on their part.

Although developed primarily to keep pilots fully informed on weather conditions throughout the country as they are occurring and without the time-consuming process of plotting, the new facsimile service involves important economies as well. It will mean a substantial reduction in personnel engaged in the service of transmitting and receiving weather data over conventional teletype services while eliminating completely, at all but the master and the four regional analysis centers, the exacting task of plotting frequently occurring weather changes.

The service is the result of joint action by the Air Force and the Signal Corps which handled the engineering problems involved through the Long Lines Department of the American Telephone and Telegraph Company in cooperation with the Associated Bell System Companies who provide the communication channels required for this extensive network. The Signal Corps will assume the cost of operation. The machines used to transmit and receive the weather maps are identical with those used in daily newspaper offices for the transmission and receipt of telephotos, and the facsimile newspaper.

Economy of operation and efficiency in the weather reporting service are not the only factors involved, Captain G. D. Furlong of the Signal Corps, pointed out. A more efficient weather reporting service has a very definite bearing on air safety in which the Army and the Air Force have an abiding interest, he said.

Plans are now in the formative stage, he said, for participation in the service by America's commercial airlines.

"The facsimile service such as we are now making available to pilots," Captain Furlong said, "ultimately will make the conventional weather reporting system for the use of pilots obsolete. It eliminates the hazard of surprise changes in the weather which might, if known, alter the flight plan. Thus the ends of safety are served fully as well as the convenience of the pilot."

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ROTC Summer Camp Has Unusual Setup

The second ROTC Summer Camp since the war was held at Fort Benning from 19 June to 31 July 1948. This year both Artillery and Infantry were trained at Benning during the six-week period. The camp was set up in the Harmony Church Area with three companies of Infantry and one battery of Artillery.

An interesting aspect of the camp was the way it was organized. At times in the past various ROTC personnel were ordered to a post from a number of schools covering a wide area and told to get going. The senior PMS&T was designated camp commander and he organized his staff, made preliminary arrangements for camp site and all the thousands of items that must be requisitioned, obtained and checked. In addition he or his staff submitted training plans for approval.

This conglomerate group of officers and enlisted men, many of whom didn't know each other, was expected to get together and organize themselves into an effective team, set up camp from scratch, run it and conduct training; then turn it over in a short time, usually just as it was beginning to function.

This year at Benning an unusual approach to the problem was tried out and proved to be very successful from all angles. The Post Commander, Major General Withers A. Burress, was appointed Camp Commander. This immediately established the camp as part of the post and not a party of strangers intruding for six or eight weeks.

General Burress in turn appointed Colonel Irvine C. Scudder, Commanding Officer of the Student Training Regiment, Deputy Camp Commander in addition to his other duties. Lt. Colonel Wesley U. Moran of the Adjutant General's office was appointed S-1 and Major William A. Beachler of the Student Training Regiment was appointed S-4. These appointments tied the ROTC camp firmly to the post and assured a smoothness and efficiency of operation in the two places where coordination with the units of the post are so important—Administration and Supply.

After this basis was established, the ROTC personnel ordered to camp were in a position to perform efficiently in line with their permanent assignment. The senior PMS&T, Colonel Theodore L. Futch, was ordered from The Citadel to be Camp Executive, and the other ROTC personnel were assigned to the Plans and Training Section, assistants in the other sections, and to the training companies.

It is the opinion of all concerned that this arrangement put responsibility for training and the internal administration of the camp upon the ROTC personnel where it rightfully belonged while at the same time it provided coordination between the camp and the post. When the first officers

and men reported two weeks before the opening of camp, they found an organization already functioning. Requisitions were in for everything that would be needed by the camp, the area selected and the buildings in the process of rehabilitation. From this original group of officers and men, supply officers and supply sergeants were selected, and the already requisitioned supplies were then drawn by them from the S-4. Consequently everything down to the last minute detail was handled and disposed of properly before the first students set foot on the reservation.

As indicated above, the ROTC personnel had full responsibility for training. A conference between Camp S-3 officers and Fort Benning officers was held in the latter part of April when the detailed training schedule was drawn up and submitted to Army for approval. This schedule was approved before the officers reported to Benning for the camp. Training was organized and controlled by the S-3 section, but each company commander was responsible for the training of his company. In addition to the company training, the Plans & Training Section, under Lt. Colonel William P. Grace, Jr., from Davidson College, had arranged for many conferences and demonstrations to be conducted by the Infantry School.

The climax of the camp was reached on the morning of 30 July when all the students assembled in the camp theater for their final exercises. The camp commander, Major General Burrell, was there and witnessed the distribution of awards. The high light of the ceremony was the awarding of Reserve Commissions to forty of the students.

After the ceremony it was the consensus of all concerned, from the general down to the lowest ranking student, that the ROTC Summer Camp at Benning had been a very successful smooth running camp.

FRANCIS J. RODDY,
Major, CAC.

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Commissions in the Counter Intelligence Corps of the Military Intelligence Reserve

New and attractive opportunities for appointment in the Military Intelligence Section of the Officers' Reserve Corps up to the grade of Colonel have been opened up. The opportunities for the Counter Intelligence Corps Specialization of the Military Intelligence Reserve are equally available to individuals with or without previous military experience, who possess technical knowledge or skills closely adaptable to the type of duties performed by agents of the Counter Intelligence Corps.

The grades offered are commensurate with the training and experience offered by the applicant, details of which are available in Paragraph 9, WD Circular 208, 1947 and Paragraphs 17 and 18 of WD Circular 101, 1947.

The procedure for application, as outlined in Paragraph 18, WD Circular 101, 1947, is briefly, as follows:

- (1) In triplicate on WD AGO Form 170 (Application for Appointment and Statement of Preference for Reserve Officers).
- (2) Accompanied by the following:
 - a. Original or photostat of last discharge (where applicable).

b. Documentary evidence to support educational level claims.

c. Report of Physical Examination (WD AGO Form 63 or 64).

- (3) If notified to appear before an Army Examining Board, be prepared to substantiate with documentary evidence, all claims to professional, military, and educational qualifications and experience.

Don't Miss The Ballot On Page 53

Special Command and Staff Training Courses Developed for National Guard and ORC Officers

Special Command and Staff training courses for National Guard and Reserve officers will be taught in each of the Army Areas, the Army announced today.

Developed by the Command and General Staff College, Fort Leavenworth, Kansas, the courses are meant to provide a local means for Guard and Reserve officers to further their military education and prepare for Staff and Command assignments with divisions.

National Guard and Reserve officers may attend the regular courses of the Command and Staff College. Many, however, are unable to arrange the extended time off from their civilian pursuits to attend the school. The special courses are meant to fill this gap.

Under present plans, the program will consist of three progressive two-week courses conducted over a period of two years in one or more locations in each of the numbered Army areas by the Army Commanders. The first of the three progressive courses will be given during the period October 1, 1948 to March 1, 1949.

Instruction will be for officers of the Division level to begin with, and it is anticipated that it will be expanded to include Command and Staff officers of the regiment, battalion and lower levels at a later date.

Instructors will be chosen from among highly qualified Regular Army and Civilian Components officers. Application to attend the courses, which will be under the direct supervision of the numbered Army Commanders, should be made through proper State channels to the appropriate Army area headquarters.

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Categories of the Officers' Reserve Corps

A recent D/A Circular has set up three categories of officers in the Officers' Reserve Corps:

Active Reserve: Physically and professionally qualified age-in-grade officers who are required in T/O&E positions plus those "for necessary replacement and expansion of the Army in mobilization."

Inactive Reserve: Physically and professionally qualified officers (1) overage-in-grade; (2) excess to numbers in grade; (3) unable or unwilling to participate in required activities; (4) physically disqualified temporarily.

Honorary Reserve: Officers whose service has been honorable and (1) who have reached maximum age-in-grade with 20 years' service; (2) who, upon completing 20 years'

service apply for transfer; (3) have become physically disqualified other than through their own misconduct, or (4) have reached their 60th birthday.

Officers while assigned to the Inactive and Honorary Reserve will *not* be eligible for inactive duty training pay or promotion; nor will any time-in-grade credit toward promotion accrue to any officer while in the Inactive and Honorary Reserve. Officers assigned to the Honorary Reserve will not be eligible for any active duty.

/ / / Vacuum Tube Has Rival

A new transistor, made of semi-conducting germanium, may result in more stable and durable radios, television sets, and electronic devices.

The glass vacuum tube in radios thus has its first rival in 40 years—a bit of semi-conducting metal that amplifies or oscillates current without the complexity of plates and wires in an airless bulb.

Invented at Bell Telephone Laboratories in New York, the new transistor should allow more stable and durable radios, television sets and electronic devices. Radios may be made smaller, when the new cylinder, slimmer than a pencil and less than an inch long, comes out of the development laboratories into production.

Since electrical speech waves traveling between telephones can be amplified, the transistor will probably replace the vacuum repeater tubes now used on long distance and other telephone lines.

/ / / Reserve to Take Important Part in Organization of M-Day Force

The Organized Reserve was given an important role by the Army in plans announced recently for further organization of an M-Day mobile striking force.

Many Reserve officers are receiving mobilization assignments in Organized Reserve units in which they will be prepared to serve in the event of military emergency. Such units will be designated as elements of the proposed striking force.

In general, mobilization assignments will be given Reservists in units supporting combat divisions of the M-Day force. In other instances, assignments will be made to training units especially organized to train officers according to their military specialties. Where assignments of this nature are prohibited by geographical residence of the individual officer, assignments may be made to authorized governmental agencies necessary for National Defense, or to posts, camps and stations near their homes.

The plan will give the maximum possible number of Reservists definite assignments in keeping with their military and civilian qualifications and will enable rapid mobilization of striking force units should the need arise.

Responsibility for mobilization assignments of all Reserve officers on extended active duty and others whose assignments are controlled by the Department of the Army has been delegated to the Director of Personnel and Administration, Army General Staff. Commanding generals of area commands are engaged in giving mobilization assignments to members of the Officers Reserve Corps not on extended active duty or otherwise not under Department of the Army control. These include Reserve officers now holding enlisted

grades or warrant officer appointments in the Regular Army.

Assignment vacancies exist in units of all branches of service, including Armored Cavalry, Coast Artillery, Field Artillery, Engineers, Medical Department, Signal Corps, Quartermaster Corps, Intelligence, and Ordnance.

The Army preparedness plan calls for mobilization assignments to be reviewed annually and for reassignments to be made if necessary, to maintain the program at top-level efficiency.

An active Reserve officer entering on extended active duty will be relieved of any current mobilization assignment to accept that for which he is called to extended duty, and his old assignment will be filled by another appointment.

A Reserve officer will be notified promptly upon being given a mobilization assignment. It was emphasized that such assignments for active Reserve officers are in no way to be considered as active duty assignments except in the event of emergency mobilization of the armed forces.

/ / / National Guard Lifts Ceilings on Officers and Certain Veterans

Major General Kenneth F. Cramer, Chief, National Guard Bureau, has announced that commissioned officers, warrant officers and certain enlisted veterans may join the National Guard and Air National Guard without regard to established strength ceilings.

The ceiling of 341,000 Guardsmen by June 30, 1949, established by the National Guard Bureau was an aggregate figure of enlisted men and officers.

General Cramer emphasized that the lifting of limits on officer procurement would not in any way reduce the number of enlisted men the States could enlist during the current fiscal year. Actually, more enlisted men may have the opportunity to join the Guard as officers will no longer be charged against the revised strength ceilings. Full officer strength of the National Guard is approximately 51,000. States with an enlisted strength greater than the new quotas will retain the overage until it is absorbed by normal attrition.

Veteran enlisted men may be enlisted in the National Guard without regard to strength ceilings if they have served honorably between September 16, 1940, and June 24, 1948, for at least 90 days but less than twelve months in the Army, Air Forces, Navy, Marine Corps, Coast Guard, Public Health Service or the armed forces of any nation allied with the United States in World War II prior to September 2, 1945.

/ / / National Guard Organizes 4,665 Army, Air Units

The National Guard of the United States has organized a total of 4,665 Army and Air units in the States, the District of Columbia, Puerto Rico and Hawaii, Major General Kenneth F. Cramer, Chief, National Guard Bureau, has announced.

Of the 5,693 Army units and 514 Air units allotted the postwar National Guard, 4,248 Army and 417 Air units had gained Federal recognition on August 6, 1948.

Three states—Alabama, North Dakota and Oklahoma—and the District of Columbia have completed organiza-

tion of all their allotted Army and Air units. Seven states—Arizona, Hawaii, Maine, Nevada, South Dakota, Vermont and Wyoming—are within three or less units of being completely organized.

/ / /

National Guardsmen May Win Appointment to West Point

Appointment to the United States Military Academy at West Point, New York, is one of the many opportunities for advancement offered to members of the National Guard of the United States, according to Major General Kenneth F. Cramer, Chief of the National Guard Bureau.

"Enlisted men of the National Guard between the ages of 19 and 22 (or between 19 and 24 if they have completed one or more years active duty in any of the armed forces of the United States), and who will have served honorably as enlisted men in the National Guard for one year as of July 1, 1949, are eligible to apply," General Cramer said.

"In addition to the United States Military Academy, all of the schools and specialists instruction courses of the Regular Army and Air Force are open to members of the National Guard," General Cramer said.

/ / /

Army Ordnance Technical Advisors Assigned to the National Guard

The Department of the Army has authorized the assignment of 38 officers and 38 enlisted men as Ordnance Technical Advisors to the Senior Army Instructors on duty with the National Guard, Major General Kenneth F. Cramer, Chief of the National Guard Bureau, has announced.

They will be assigned to those States which are not allocated Ordnance Instructors. At the present time 13 Regular Army officers and 13 enlisted men are assigned as instructors.

"This makes possible the assignment of one Ordnance officer and enlisted man to each state, the District of Columbia, Hawaii and Puerto Rico to assist in establishing an effective Ordnance training program in keeping with the M-Day Mission of the National Guard," General Cramer said.

The Ordnance Technical Advisors will help the Senior Army Instructors in supervising unit instruction and training in Ordnance subjects and when necessary organize and conduct schools for training National Guard instructors in these subjects.

They will perform technical inspections, and generally assist the state authorities in every way necessary to establish a completely balanced and coordinated Ordnance supply and maintenance system.

/ / /

60 AGF Liaison Pilots Assigned To National Guard Training

In order to assist the National Guard in its newly established training program for ex-Air Force pilots, ground crews and other ground light aviation personnel, 60 Army Ground Forces liaison pilots have been assigned as advisers

to the Senior Ground Instructors who supervise the program, General Jacob L. Devers, Commanding General, Army Ground Forces, announced today.

The AGF pilots are undergoing a three weeks' orientation course at Fort Still, Oklahoma, prior to assuming their posts with National Guard units throughout the country. One such course is now in progress and another is scheduled to begin November 30.

The primary function of these advisers will be to assist the Senior Ground Instructors in the establishment of ground light aviation schools in each State authorized five or more liaison type aircraft. Ex-Air Force pilots who satisfactorily complete the courses at these schools will then be qualified as AGF pilots and assigned to Ground Force units of the Guard.

/ / /

New Training Plan Set Up for National Guard Units

A new master plan for training the National Guard which is calculated to cut in half the time needed to prepare it for its M-Day mission has been developed by the Army Field Forces and the National Guard Bureau, Major General Kenneth F. Cramer, Chief of the National Guard Bureau, has announced.

Based on a three-year instead of the current six-year training program, the new plan will be initiated for approximately 300,000 men in about 4,500 Federally recognized Army units at the beginning of the fall Armory training period in September.

The program, to which the finishing touches are now being put, is the result of the concerted efforts of officers of the National Guard Bureau, the Army Field Forces and selected National Guard officers from the various States.

It takes into consideration the unique make-up of National Guard units whose membership simultaneously includes veterans, men at various stages of training and raw recruits.

Salient features of the program:

Training is conducted on both a unit and individual basis with the first hour of the weekly two-hour armory period devoted to general training for the entire group.

The second hour is for individual training, with men of the unit divided into three groups: basic; intermediate and specialist; and advanced.

The first group will include new recruits or men with no basic training in that type of unit.

Men who have completed or have the equivalent of basic training will be in the second group. Another division of this group would include men being trained to fill specialist positions in Company or Battery Headquarters.

In the third or advanced group will be men in the third year of enlistment or with sufficient previous combat experience or training to become noncommissioned officers and instructors for the two lower stages.

Under the new plan training is to be concentrated on a minimum of essential subjects needed to prepare the National Guard for its initial M-Day or emergency combat mission.

To enter a campaign or sustained combat a National Guard unit would usually require at least an additional

three to four months of field training during which it could complete other necessary but less urgent training.

Training programs for each type unit will be prepared and sent to unit commanders. All units of the same type will conduct the same number of training hours in the same essential subjects. This will establish a minimum standard of training for the National Guard as a whole. Higher commanders will be relieved of the time-consuming job of preparing annual training programs and be able to give more time to the actual supervision of training.

The stepped-up production of specialists and efficient noncommissioned officer instructors under the new program working in close conjunction with the Regular Army instructors assigned the National Guard will assure that the Guard is prepared to carry out its M-Day mission of immediate action against any attacking enemy.

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National Guard Units to Have Civilian Administrative Assistants

A program to relieve National Guard commanders of rapidly increasing administrative duties and permit them to concentrate on the primary mission of preparing their units for their defense assignments has been announced by Major General Kenneth F. Cramer, Chief, National Guard Bureau.

Under the program as authorized by the Military Appropriations Act for 1949 officers and enlisted men of the National Guard will be appointed as civilian administrative assistants to the commanders of the National Guard units. As such, they will be responsible for all administrative matters, including the heavy load of "paper work," and otherwise assist their unit commanders.

Although on a civilian pay status, the administrative assistants must be members of the National Guard, ranking in the first three grades for enlisted men and from first lieutenant to lieutenant colonel, inclusive, for officers. They will be employed either full time or part time as immediately necessary, at authorized yearly salaries within the limits set by the National Guard Bureau from funds appropriated by Congress.

The officers and men employed under the program would hold military assignments in their units involving comparable duties. This would prevent any disruption of duties or responsibilities in case of emergency. For example, the officer administrative assistant for a regiment would be either the adjutant or unit personnel officer.

The program, for which Congress made appropriation for the 1949 Fiscal year beginning June 30, 1948, goes into partial effect September 1, when the Adjutants General of the several states are authorized to begin employment of administrative assistants as required for units above company-size, from battalion to division level.

The Adjutants General of the several states have been requested by the National Guard Bureau to prepare plans for the employment of administrative assistants for company-size units of their states.

At full strength of approximately 5,693 Army units it is expected that some 500 officers and 4,500 enlisted men may be employed as full-time administrative assistants.

Additional National Guard Units

The following National Guard Coast Artillery Corps units have been Federally recognized since the last issue of the JOURNAL:

California:

184th Operations Detachment, AAA, San Francisco.
Battery C, 728th AAA Gun Battalion, San Francisco.

Connecticut:

Battery B, 238th AAA Gun Battalion, Groton.
Battery C, 238th AAA Gun Battalion, West Brook.

Delaware:

Medical Detachment, 945th AAA AW Battalion, Dover.

Georgia:

Battery C, 950th AAA AW Battalion, Thomson.
Medical Detachment, 950th AAA AW Battalion, Macon.

Illinois:

Battery C, 396th AAA AW Battalion, Leroy.
Battery C, 698th AAA Gun Battalion, Chicago.
3625th Ordnance Maintenance Company, AAA, Chicago.

Louisiana:

Battery A, 769th AAA Gun Battalion, Baton Rouge.
Battery B, 769th AAA Gun Battalion, Baton Rouge.

Massachusetts:

Battery A, 685th AAA AW Battalion, Middlesborough.
Battery C, 704th AAA Gun Battalion, Boston.
Medical Detachment, 704th AAA Gun Battalion, Boston.

Nevada:

Battery C, 421st AAA Gun Battalion, Elko.
Battery D, 421st AAA Gun Battalion, Ely.

New Jersey:

Headquarters & Headquarters Battery, 310th AAA AW Battalion, Jersey City.
Battery D, 310th AAA AW Battalion, Jersey City.

New Mexico:

395th Signal Radar Maintenance Unit, Albuquerque.

North Carolina:

Battery C, 677th AAA AW Battalion, Sanford.

Pennsylvania:

Battery C, 416th AAA AW Battalion, Philadelphia.
Battery C, 707th AAA Gun Battalion, Philadelphia.
Battery B, 709th AAA Gun Battalion, Philadelphia.
Battery C, 724th AAA Gun Battalion, Pittsburgh.
3622d Ordnance Maintenance Company, AAA, Pittsburgh.

Virginia:

Headquarters & Headquarters Battery, 224th AAA Group, Glen Allen.

Washington:

Battery A, 240th AAA Gun Battalion, Kirkland.
Medical Detachment, 420th AAA Gun Battalion, Yakima.

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Don't Miss The Ballot On Page 53

COAST ARTILLERY ORDERS

Department of the Army and AFF Special Orders covering the period 21 June through 31 August 1948.

BRIGADIER GENERALS

Hesketh, William, Retired.
Rutledge, Paul W., Hq., 34th AAA Brigade, Fort Bliss, Texas.

COLONELS

Adams, Carl R., to Far East Command, Korea. Mailing Address: Casual Pers Sec, 14th BPO, APO 815, c/o PM, San Francisco, Calif.
Bates, James C., Retired.
Bender, Arthur H., to AA & GM Branch, TAS, Fort Bliss, Texas.
Boyd, Harry R., to 34th AAA Brigade, Fort Bliss, Texas.
Brey, William G., Retired.
Carey, George R., to Det. TC SEPE, Seattle, Washington.
Chaplin, Robert T., to Far East Command, Yokohama, Japan. Mailing address: Casual Pers Central Mail Directory, APO 503, c/o PM, San Francisco, California.
Denson, Pierre B., to 34th AAA Brigade, Fort Bliss, Texas.
Fonville, John H., to 34th AAA Brigade, Fort Bliss, Texas.
Grimm, Henry F., Retired.
Hickey, Daniel W., Jr., to 34th AAA Brigade, Fort Bliss, Texas.
Jaccard, Paul A., to AA & GM Branch, TAS, Fort Bliss, Texas.
Jones, Clifford R., to 335th ASU Florida National Guard Instrs, State Arsenal, St. Augustine, Fla., w/sta Miami, Fla. Detailed as CAC Instructor.
McNamee, William L., to 34th AAA Brigade, Fort Bliss, Texas.
Metzler, John E., Retired.
Milburn, Bryan L., to 4001st ASU, Fourth Army, Fort Bliss, Tex.
Ostenberg, Frank T., to 34th AAA Brigade, Fort Bliss, Texas.
Pape, Robin B., to 34th AAA Brigade, Fort Bliss, Texas.
Phillips, Thomas R., to Special Joint Planning Group, Washington, D. C.
Pierce, Harry R., to 34th AAA Brigade, Fort Bliss, Texas.
Sullivan, Andrew P., Retired.
Turnbull, Harold T., Retired.
Villaret, Eugene, Retired.
Woods, Fred J., to 6601st ASU, California National Guard Instructor Group, c/o AG, State Office Bldg N, Sacramento, Calif., w/sta San Francisco. Detailed as CAC Instructor.

LIEUTENANT COLONELS

Ballentine, John F., to 267th AAA Group, Fort Bliss, Texas.
Barry, Robert B., to 34th AAA Brigade, Fort Bliss, Texas.
Bolt, Lewis G., to 34th AAA Brigade, Fort Bliss, Texas.
Boyer, Roswell R., to OC of S, Washington, D. C., for dy w/Intelligence Division, GSUSA.
Broyles, Harmon E., to Far East Command, Yokohama, Japan. Mailing Address—Casual Officers Sec Casual APO, Camp Stoneman, Pittsburg, California.
Bush, Ernest L., to 34th AAA Brigade, Fort Bliss, Texas.
Cory, Ira W., to SCBTAS, Fort Winfield Scott, California, for dy w/staff & Faculty.
D'Arezzo, Alfred J., transferred to CE.
Darrah, James T., to 5th AAA Group, Fort Bliss, Texas.
Duff, Charles B., detailed as a member of GSC.
Ellsworth, Leonard K., to 34th AAA Brigade, Fort Bliss, Texas.
Freund, John F., to 5th AAA Group, Fort Bliss, Texas.
Fultz, William S., to 34th AAA Brigade, Fort Bliss, Texas.

Gallagher, Robert E., transferred to US Air Force.
Gifford, James R., to 5th AAA Group, Fort Bliss, Texas.
Glines, Victor I., to Hq. Fourth Army, Ft. Sam Houston, Tex.
Greenlee, Halford R., to Army-Air Force Central Welfare Fund, Washington, D. C.
Hackett, Charles J., to C & GS College, Fort Leavenworth, Kansas.
Hewitt, Harry, to 34th AAA Brigade, Fort Bliss, Texas.
Hill, Cyril D., transferred to JAGD.
Holt, Roger H., to 34th AAA Brigade, Fort Bliss, Texas.
Kallis, Stephen A., to Washington ORC Instr Gp, Rm 1606 Textile Tower, 7th Ave and Olive Way, Seattle, Wash.
Kauffman, Roy K., to 5th AAA Group, Fort Bliss, Texas.
Keller, James S., to 5th AAA Group, Fort Bliss, Texas.
Kinard, William H., Jr., to OC of S, Washington, D. C., for dy in Office, Chief of Information.
Liwski, Francis A., to OC of S, P & O Div, Washington, D. C.
Loiselle, Postford A., to 5th AAA Group, Fort Bliss, Texas.
Longanecker, Charles R., to 34th AAA Brigade, Fort Bliss, Texas.
Luczak, Bernard R., transferred to Ordnance Department.
McFeely, Henry G., to 34th AAA Brigade, Fort Bliss, Texas.
McKennedy, Stewart L., to 82d Airborne Division, Ft. Bragg, N. C.
McLamb, Nathan A., to 6822d ASU, ROTC, Glendale High Schools, Glendale, California.
McMillan, Donald L., to AFF Board No. 4, Fort Bliss, Texas.
MacNeill, John P., to 6701st ASU, Northern California-Nevada ORC Instr Group, Presidio of San Francisco, California. Detailed as Instructor.
Moses, DeMaurice, to 2434th ASU, ROTC, Hampton Institute, Hampton, Virginia.
Munske, Charles R., to 34th AAA Brigade, Fort Bliss, Texas.
Murphy, Allen M., transferred to CAC.
Nygaard, John R., retired.
O'Reilly, Charles A., Jr., to US Army Forces, Antilles, San Juan, P. R. Mailing Address—Casual Officers Co., New Orleans Pers Cen, New Orleans, La.
Owen, Richard W., to 34th AAA Brigade, Fort Bliss, Texas.
Partin, Calvin L., to 34th AAA Brigade, Fort Bliss, Texas.
Pichel, James F., retired.
Piram, Joseph S., to Stu Det, AFSC, Norfolk, Va.
Pirkle, Russell L., to 34th AAA Brigade, Fort Bliss, Texas.
Raleigh, Robert C., to detailed at 3243rd ASU, ROTC, Jacksonville State Teachers College, Jacksonville, Ala.
Raymond, Montgomery B., to 1802d Special Regiment, USMA, West Point, N. Y.
Reiersen, John E., to 34th AAA Brigade, Fort Bliss, Texas.
Schaefer, Arthur P., to 34th AAA Brigade, Fort Bliss, Texas.
Schechinger, Ernest H. T., detailed in AGD, AGO, Washington, D. C., for dy w/Personnel Bureau.
Schermacher, August W., to Fourth Army, Camp Chaffee, Arkansas.
Smith, Hiram N., to SCBTAS, Fort Winfield Scott, California, for dy w/Staff and Faculty.
Snodgrass, John T., to 34th AAA Brigade, Fort Bliss, Texas.

Stayton, Thomas V., to 34th AAA Brigade, Ft. Bliss, Tex.
Stone, John E., to 5th AAA Group, Fort Bliss, Texas.
Thorkelson, William L., to Stu Det, Hq First Army, Governors Island, N. Y., w/sta Syracuse Univ., Syracuse, N. Y.
Virag, Alfred, to 34th AAA Brigade, Fort Bliss, Texas.
Webster, George B., Jr., to 34th AAA Brigade, Fort Bliss, Texas.
Weinnig, Albert J., to Office, Chief, AFF, Fort Monroe, Va.
Weyand, Frederick C., transferred to Infantry.
Wood, John E., Jr., to 5th AAA Gp, Ft. Bliss, Texas.
Woodman, Ernest A., to 5th AAA Group, Fort Bliss, Texas.
Yarnell, Kenneth L., to 34th AAA Brigade, Fort Bliss, Texas.

MAJORS

Anson, Paul A., to 34th AAA Brigade, Ft. Bliss, Texas.
Benner, John A., to 384th AAA Gun Bn, Ft Bliss, Texas.
Bolton, Lee B., to 101st Abn Div, Cp Breckinridge, Ky.
Britt, Chester K., Transferred to Ord Dept.
Brown, Harry C., to 34th AAA Brigade, Ft Bliss, Texas.
Bursley, Harry C., to 34th AAA Brigade; Ft Bliss, Texas.
Chapman, Daniel T., to ROTC duty at College of Mines & Metallurgy, El Paso, Texas.
Chotas, Matthew E., to OC of S, Civil Affairs Div, Washington, D. C.
Cole, Norman E., to 34th AAA Brigade, Ft Bliss, Texas.
Collison, Tom D., to Armed Forces Special Wpns Project, Sandia Base, Albuquerque, N. Mex.
Compton, Robert J., to Hq. Fifth Inf Div, Ft Jackson, S. C.
Conelly, Raymond J., to 34th AAA Brigade, Ft. Bliss, Texas.
Davenport, Clarence M., to ROTC Florida A & M College for Negroes, Tallahassee, Fla.
Demetropolis, Harry, to US Army Caribbean, Canal Zone. Mail address Casual Officers Co, Pers Center, New Orleans Port of Embarkation, New Orleans, La.
Dillon, James R., to AFF Board No. 4, Ft Bliss, Texas.
Dunlap, Claude E., Jr., to 34th AAA Brigade, Ft Bliss, Texas.
Ellis, Bertram J., to 34th AAA Brigade, Ft Bliss, Texas.
Evans, John T., to 5th AAA Gp, Ft Bliss, Texas.
Ewing, Howard F., to 34th AAA Brigade, Ft Bliss, Texas.
Gemmell, James D., to Hq & Hq Btry, 34th AAA Brigade, Ft Bliss, Texas.
Gildart, William J., to 34th AAA Brigade, Ft Bliss, Texas.
Gooding, Earl R., to 1st GM Regt, Ft Bliss, Tex.
Gramborf, Everett A., to 34th AAA Brigade, Ft Bliss, Texas.
Gundlach, Philip J., to Armed Forces Petroleum Board, Washington, D. C.
Haviland, Morris E., to 1st GM Regt, Ft Bliss, Texas.
Hertz, Clyde E., to 34th AAA Brigade, Ft Bliss, Texas.
Hussey, William J., to 5th AAA Gp, Ft Bliss, Texas.
Iulucci, Thomas P., detailed in Inf.
Jensen, Martin E., to 4310th ASU Office Sr Instr ORC State of Texas, Austin, Texas, w/sta Tyler, Texas.
Johnson, Stanley, to 34th AAA Brigade, Ft Bliss, Texas. ↗

- Kelly, John P. A., to Stu Det, Arty Sch, Ft Sill, Okla.
- Kelton, John E., to 34th AAA Brigade, Ft Bliss, Texas.
- La Capria, Arthur, to 10th Inf Div, Ft Riley, Kans.
- Lancaster, Oscar W., to 5th AAA Gp, Ft Bliss, Texas.
- Langfitt, Bruce B., to 34th AAA Brigade, Ft Bliss, Texas.
- Leek, Calvin B., to 1225th ASU HD, Ft Hancock, N. J.
- Lotozo, James A., to Stu Det AA & GM Br Arty Sch, Ft Bliss, Texas.
- Mancuso, Antonio H., to AA & GM Br Arty Sch, Ft Bliss, Texas.
- Marnfield, Robert, to 34th AAA Brigade, Ft Bliss, Texas.
- May, Joseph B., to 267th AAA Gp, Ft Bliss, Tex.
- Osthues, Henry E., to 34th AAA Brigade, Ft Bliss, Texas.
- Ottinger, Charles F., to European Comd, Bremerhaven, Germany. Mail address Casual Officers Co, Cp Kilmer Pers Center, New Brunswick, N. J.
- Parr, William R., to 1st GM Regt, Ft Bliss, Texas.
- Rehrig, Lester B., to 5th AAA Gp, Ft Bliss, Tex.
- Reitz, James T., to Stu Det "R" ID GSUSA, Washington, D. C. w/sta Oberammergau, Germany. Mail address Casual Officers Co, Cp Kilmer Pers Center, New Brunswick, N. J.
- Riggin, George B., to European Comd, Bremerhaven, Germany. Mail address Casual Officers Co, Cp Kilmer Pers Center, New Brunswick, N. J.
- Salmon, Eugene H., to US Army Alaska. Mail address Casual Officers Co, Ft Lawton Pers Center, Ft Lawton, Wash.
- Shaver, Wilet F., Jr., to Seacoast Br Arty Sch, Ft Winfield Scott, Calif. for dy w/Staff & Faculty.
- Smith, Bailey B., detailed at 3207th ASU ROTC, Univ of Alabama, University, Ala.
- Stabler, Joseph P., to Stu Det Second Army Ft George G. Meade, Md. w/sta Univ. of Virginia, Charlottesville, Va.
- Stano, Ferdinand, to US Army Gp American Mission for aid to Turkey, Ankara, Turkey. Mail address c/o Chief TUSAG, 243 Ataturk Blvd, Ankara, Turkey.
- Stringer, Ralph E., to 34th AAA Brigade, Ft Bliss, Texas.
- Terry, Frank E., to 34th AAA Brigade, Ft Bliss, Texas.
- Thames, John W., to 34th AAA Brigade, Ft Bliss, Texas.
- Unger, Jacob P., to 34th AAA Brigade, Ft Bliss, Texas.
- Wanner, William S., to 34th AAA Brigade, Ft Bliss, Texas.
- Wade, Charles W., to 1st GM Regt, Ft Bliss, Tex.
- Wadsworth, Corwin Q., to 1st GM Regt, Ft Bliss, Texas.
- Whitaker, Willis F., to 5th AAA Gp, Ft Bliss, Texas.
- Williams, William J., to 34th AAA Brigade, Ft Bliss, Texas.
- Wolff, Paul B., 5th AAA Gp, Ft Bliss, Texas.

CAPTAINS

- Adams, Oscar L., Jr., to Philippine-Ryukyus Comd, Manila, P. I. Mail address Casual Pers Sec 22d BPO, APO 900, c/o PM, San Francisco, Calif.
- Allen, Stanley C., to Far East Comd, Yokohama, Japan. Mail address Casual Pers Sec, APO 503, c/o PM, San Francisco, Calif.
- Amacher, Aaron G., to European Comd, Bremerhaven, Germany. Mail Address Casual Officers Co, Cp Kilmer Pers Center, New Brunswick, N. J.
- Aman, Paul W., to 34th AAA Brigade, Ft Bliss, Texas.
- Bianchi, Joseph J., to CIC Center, Cp Holabird, Md.
- Black, Don W., to 34th AAA Brigade, Ft Bliss, Texas.
- Brown, Leo F., to 2556th ASU Ohio ORC Instr Gp, Ft Hayes, Columbus, Ohio, w/sta Lima, Ohio. Detailed as Instr.
- Burdick, Charles W., to First Army 1202d ASU Rctg Det No. 3, Newark, N. J. w/sta 1202d ASU det US Army & USAF rctg sta, Paterson, N. J.
- Burns, Louis J., Jr., Detailed in SAC.
- Calvert, Lawrence R., to First Army 1202d ASU Det No. 2, w/sta Hempstead, Long Island, N. Y.
- Cancellare, Anthony D., to HD of Boston, Ft Banks, Mass.
- Carey, Nelson B., to AA & GM Br Arty Sch, Ft Bliss, Texas for dy w/Staff & Faculty.
- Casaus, Carlos M., to Stu Det Army Lang Sch, Presidio of Monterey, Calif.
- Cibulski, Fred D., to 34th AAA Brigade, Ft Bliss, Texas.
- Clark, Alfred V., to Far East Comd, Yokohama, Japan. Mail address Casual Pers Sec APO 503, c/o PM, San Francisco, Calif.
- Clark, Robert W., to Stu Det Arty Sch, Ft Sill, Okla.
- Conkle, John D., to 34th AAA Brigade, Ft Bliss, Texas.
- Conklyn, Herbert W., to 267th AAA Gp, Ft Bliss, Texas.
- Connors, Gerald T., to 59th AAA AW Bn, Ft Bliss, Texas.
- Cripps, George W., to 34th AAA Brigade, Ft Bliss, Texas.
- Cucolo, Belmonte P., to 108th CIC Det First Army, 39 Whitehall St, New York, N. Y.
- Davis, Harry V., to 10th Inf Div, Ft Riley, Kans.
- Dougherty, Harry S., to 10th Inf Div, Ft Riley, Kans.
- Dowling, Joseph B., Detailed in IGD w/sta at Hq 2d Engr Sp Brigade, Ft Worden, Wash.
- Easley, James W., to 5th Inf Div, Ft Jackson, S. C.
- Emery, Emil E., to 5th AAA Gp, Ft Bliss, Texas.
- Evans, Luther, Jr., to ROTC, Florida A & M College for Negroes, Tallahassee, Fla.
- Furguele, Peter M., to European Comd, Bremerhaven, Germany. Mail address New Arrivals Sec 25th BPO, APO 743, c/o PM New York, N. Y.
- Gaborsky, Godfrey V., to First Army 1104th ASU Hq & Hq Det HD of Portland, Ft Williams, Me.
- Gerome, George W., to 10th Inf Div, Ft Riley, Kans.
- Grant, Ralph G., to Hq Special Troops, Fifth Army, Chicago, Ill.
- Hall, Clair Le'J., to AA & GM Br Arty Sch, Ft Bliss, Texas.
- Ham, Richard H., to 1st GM Regt, Ft Bliss, Tex.
- Hawke, Leonard T., to AA & GM Br Arty Sch, Ft Bliss, Texas.
- Hendrep, Kenneth H., to US Army Gp American Mission for aid to Turkey, Ankara, Turkey. Mail address c/o Chief TUSAG, 243 Ataturk Blvd, Ankara, Turkey.
- Henry, George, to US Army Forces Antilles, San Juan, P. R. Mail address Casual Pers Sec APO 846, c/o PM Miami, Fla.
- Hill, Ralph O., to Stu Det AA & GM Br Arty Sch, Ft Bliss, Texas.
- Holden, Milo E., to AA & GM Br Arty Sch, Ft Bliss, Texas, for dy w/Staff & Faculty.
- Jennings, Howard M., to First Army 1202d ASU Rctg Det No. 1, 12th Floor Chimes Bldg, 109 Onondaga St., Syracuse, N. Y.
- Jesurun, Gladstone M., to European Comd, Bremerhaven, Germany. Mail address Casual Officers Co, Cp Kilmer Pers Center, New Brunswick, N. J.
- Jones, Philip I., to Stu Det Army Lang Sch, Presidio of Monterey, Calif.
- Kane, Daniel G., to US Army Pacific, Ft Shafter, T. H. Mail address Cas Pers Sec 15th BPO, APO 459, c/o PM, San Francisco, Calif.
- Keller, Harold W., to Arty Center, Ft Sill, Okla.
- Knight, Robert L., to AA & GM Br Arty Sch, Ft Bliss, Texas, for dy w/Staff & Faculty.
- Kuharic, John J., to Army Lang Sch, Presidio of Monterey, Calif.
- Lancaster, Virgil M., to Hq First Army, Governors Island, N. Y.
- Landsman, Harry, to 34th AAA Brigade, Ft Bliss, Texas.
- Lantz, Doyle R., to AA & GM Br Arty Sch, Ft Bliss, Texas for dy w/Staff & Faculty.
- Lenning, Charles F., to Second Army 2164th ASU, Ft Eustis, Va.
- McKee, Herbert C., to Philippine-Ryukyus Comd, Manila, P. I. Mail address Casual Pers Sec 22 BPO, APO 900, c/o PM, San Francisco, Calif.
- McKinsey, Millard F., to AA & GM Br Arty Sch, Ft Bliss, Texas for dy w/Staff & Faculty.
- Mahoney, Francis M., to 10th Inf Div, Ft Riley, Kans.
- Mercer, Edwin W., Detailed in CMP.
- Miss, David C., to 10th Inf Div, Ft Riley, Kans.
- Moratelli, William R., to 2423d ASU ROTC Univ. of Pittsburgh, Pittsburgh, Pa.
- Morrow, Alfred, to US Army Pacific, Ft Shafter, T. H. Mail address Casual Pers Sec 15th BPO, APO 459, c/o PM, San Francisco, Calif.
- Mumford, Howard F., to Fifth Armd Div, Cp Chaffee, Ark.
- Nuwer, John E., to AA & GM Br Arty Sch, Ft Bliss, Texas for dy w/Staff & Faculty.
- Okert, Fred H., to 34th AAA Brigade, Ft Bliss, Texas.
- Pallman, George H., to 34th AAA Brigade, Ft Bliss, Texas.
- Pappas, George E., to Stu Det AA & GM Br Arty Sch, Ft Bliss, Texas.
- Perrotta, Donato F., to Fourth Army 4205th ASU Army & USAF Dallas Rctg Dist, Dallas, Texas, w/sta Rctg Main Sta, Tyler, Texas.
- Petrovsky, Paul, to 1st GM Regt, Ft Bliss, Texas.
- Phillips, Hal B., to US Army Caribbean. Mailing address Casual Pers Sec, New Orleans Port of Embarkation, New Orleans, La.
- Pullen, Richard T., Jr., to Far East Comd, Yokohama, Japan. Mail address Casual Officers Co, Ft Lawton Pers Center, Ft Lawton, Wash.
- Ramsey, Kenneth W., to 5th AAA Gp, Ft Bliss, Texas.
- Rogers, Velvin D., to 34th AAA Brigade, Ft Bliss, Texas.
- Romans, Warren L., to 5th AAA Gp, Ft Bliss, Texas.
- Ryan, Daniel D., Jr.; to 34th AAA Brigade, Ft Bliss, Texas.
- Schardt, Bruton B., to Stu Det AA & GM Br Arty Sch, Ft Bliss, Texas.
- Seward, Donald G., to Sixth Army Rctg Dist, 109 Tower Ave., Seattle, Wash.
- Simmons, John M., Resigned.
- Smirnoff, Robert L., to European Comd, Bremerhaven, Germany. Mail address New Arrivals Sec 25th BPO, APO 743, c/o PM, New York, N. Y.
- Smith, Laurence A., to 1st GM Regt, Ft Bliss, Texas.
- Snow, James A., to 59th AAA AW Bn, Ft Bliss, Texas.
- Standal, Hjalmar L., to 34th AAA Brigade, Ft Bliss, Texas.
- Starr, John F., to 34th AAA Brigade, Ft Bliss, Texas.
- Stewart, Loren F., to AA & GM Br Arty Sch, Ft Bliss, Texas for dy w/Staff & Faculty.
- Talbot, Charles H., to 5th AAA Gp, Ft Bliss, Texas.
- Taylor, Richard F., to Stu Det Army Lang Sch, Presidio of Monterey, Calif.
- Testa, John F., to 34th AAA Brigade, Ft Bliss, Texas.
- Turner, Wilbur D., to 384th AAA Gun Bn, Ft Bliss, Texas.
- Vitulo, Theodore L., to 34th AAA Brigade, Ft Bliss, Texas.
- Waters, Fred D., to 34th AAA Brigade, Ft Bliss, Texas.
- Whitcomb, Robert J., to 34th AAA Brigade, Ft Bliss, Texas.
- Young, Cecil G., to Armed Forces Special Wpns Project Sandia Base, Albuquerque, N. Mex.
- Zaldo, William T., to 1st GM Regt, Ft Bliss, Tex.

FIRST LIEUTENANTS

- Abel, Charles R., to 267th AAA Group, Ft Bliss, Tex.
- Allen, Joe L., to Fourth Army, 4001st ASU, Ft Bliss, Tex.
- Anderson, Harold B., to 34th AAA Brigade, Ft Bliss, Tex.
- Anderson, Richard C., to 59th AAA AW Bn., Ft Bliss, Tex.
- Avery, William H., Jr., to 384th AAA Gun Battalion, Ft Bliss, Tex.
- Babb, Leo D., to 5th AAA Group Ft Bliss, Tex.

Barrett, Peter T., to 108th CIC Det, First Army, 39 Whitehall St, New York, N. Y.
 Beckett, James E., to Stu Det, AA & GM Br, TAS, Ft Bliss, Tex.
 Blohm, John D., to Far East Command, Korea, Mail Address—Cas Pers Sec, 14th BPO, APO 815, c/o PM, San Francisco, Calif.
 Bond, James J., to US Army Caribbean, Mail Address—Army Locator, US Army Caribbean, APO 834, New Orleans, La.
 Brabec, Robert, to 10th Inf. Div., Ft Riley, Kans.
 Brown, Vivian C., detailed in QMC.
 Campbell, John L., to 59th AAA AW Bn, Ft Bliss, Tex.
 Chaplesky, Marion P., to 34th AAA Brigade, Ft Bliss, Tex.
 Clark, Harry E., to 384th AAA Gun Bn., Ft Bliss, Tex.
 Dolan, Thomas M., to Stu Det, AA & GM Br, TAS, Ft Bliss, Tex.
 Emme, Arthur H., Jr., to 113th CIC Det, Fifth Army, 1660 E. Hyde Park Blvd, Chicago, Ill.
 Flanagan, Charles P., Jr., to 101st Abn Div, Camp Breckinridge, Ky.
 Francisco, Louis B., to AA & GM Br, TAS, Ft Bliss, Tex.
 Gabriel, Jack E., to AF Sp Wpns Project, Albuquerque, N. Mex.
 Gage, Joseph M., to 10th Inf. Div, Ft Riley, Kansas.
 Gerber, John F., to 34th AAA Brigade, Ft Bliss, Tex.
 Hartwig, Henry A., to 9th Inf. Div., Ft Dix, N. J.
 Hayden, James L., to AA & GM Br, TAS, Ft Bliss, Tex.
 Hottle, Fred C., to US Army Alaska, Mailing address—Cas Pers Sec, Fort Lawton, Washington.
 Hoyt, Edwin B., to 1st GM Regiment, Ft Bliss, Tex.
 Kasprowski, Edward, to 109th CIC Det, Second Army, Ft George G. Meade, Md., w/sta at Xenia, Ohio.
 Landress, James R., to US Army Caribbean. Mailing add—Casual Officers Co., New Orleans Pers. Center, New Orleans, La.
 Lanestaff, James D., Jr., to 5th AAA Group, Ft Bliss, Tex.
 Lewis, John D., to 59th AAA AW Bn., Ft Bliss, Tex.
 Logan, Mehl M., to 10th Inf. Div., Ft Riley, Kans.
 McConnell, Lester O., to US Army Forces, An-

tilles, San Juan, P. R. Mailing address—Casual Pers Sec, APO 846, c/o PM, Miami, Fla.
 McCracken, Bruce O., to 34th AAA Brigade, Ft Bliss, Tex.
 Manthey, Harlan H., to Army Language Sch., Presidio of Monterey, Calif.
 Mantiply, Samuel T., to 34th AAA Brigade, Ft Bliss, Tex.
 MeHaffie, Harold B., to 34th AAA Brigade, Ft Bliss, Tex.
 Meyers, Charles H., Jr., to US Army Alaska. Mailing Address—Casual Officers Pers Sec, Ft Lawton Pers Center, Fort Lawton, Washington.
 Morissey, Frederick K., to 108th CIC Det., First Army, 39 Whitehall St., New York, N. Y.
 Morrisroe, William J., detailed to CMP w/sta at Ft Dix, N. J.
 Murphy, Francis J., to 34th AAA Brigade, Ft Bliss, Tex.
 Murray, Charles M., to 59th AAA AW Bn., Ft Bliss, Tex.
 Myers, Robert B., to AA & GM Br, TAS, Ft Bliss, Tex.
 Nitsche, Richard E., to 59th AAA AW Bn., Ft Bliss, Tex.
 O'Donnell, Neil J., to Stu Det, AA & GM Br, TAS, Ft Bliss, Tex.
 Ormsby, Justin R., to European Command, Bremerhaven, Germany. Mailing address—Casual Officers Company, Camp Kilmer Pers Center, New Brunswick, N. J.
 Parker, Fred C., III, to 34th AAA Brigade, Ft Bliss, Tex.
 Pettigrew, George W., to 34th AAA Brigade, Ft Bliss, Tex.
 Pierce, Lester W., Jr., to 34th AAA Brigade, Ft Bliss, Tex.
 Richman, Murray L., to 34th AAA Brigade, Ft Bliss, Tex.
 Salesby, Claude, to 101st Abn Div., Camp Breckinridge, Ky.
 Scarborough, Samuel T., to Stu Det, AA & GM Br, TAS, Ft Bliss, Tex.
 Shuffata, George J., to 34th AAA Brigade, Ft Bliss, Tex.
 Smith, Donald E., to 384th AAA Gun Bn., Ft Bliss, Tex.
 Sovitski, Charles, to 267th AAA Group, Ft Bliss, Tex.
 Sparks, Lawrence E., to Stu Det, QM Center, Camp Lee, Va.
 Spitz, John R., to 34th AAA Brigade, Ft Bliss, Tex.

Stuckey, Jonas W., to Stu Det, AA & GM Br, TAS, Ft Bliss, Tex.
 Sweers, Peter C., to 34th AAA Brigade, Ft Bliss, Tex.
 Tongue, Robert C., to 113th CIC Det., Fifth Army, w/sta at St. Paul, Minn.
 Towne, Cedric C., to US Army Pacific, Ft Shafter, T. H., Mailing Address—Cas Pers Sec, 15th BPO, APO 459, c/o PM, San Francisco, Calif.
 Trotta, Oscar D., to US Army Forces Antilles, San Juan, P. R., Mailing Address—Casual Pers Sec, APO 846, c/o PM, Miami, Fla.
 Unrath, Walter J., to European Command—Mailing Address: Casual Officers Co., Camp Kilmer Pers Sec., Camp Kilmer, N. J.
 Walsh, Edward F., to Philippine-Ryukyus Command, Manila, P. I., Mailing Address: Casual Pers Sec 22d, BPO APO 900, c/o PM, San Francisco, Calif.
 Williams, Russell H., to AA & GM Br, TAS, Ft Bliss, Tex., for dy w/staff and faculty.
 Zeitz, Gordon F., to 384th AAA Gun Bn., Ft Bliss, Tex.

SECOND LIEUTENANTS

Backhaus, Gus, to 384th AAA Gun Bn, Ft Bliss, Texas.
 Baxley, James W., to European Comd, Bremerhaven, Germany. Mail add New Arrivals Sec 25th BPO APO 743, c/o PM, New York, N. Y.
 Etzold, Engberg, to 384th AAA Gun Bn, Ft Bliss, Texas.
 Graham, Douglas M., to 9th Inf Div, Ft Dix, N. J.
 Gretchen, Mike, to 109th CIC Det 2d Army, Ft Geo G. Meade, Md.
 Hustace, Charles H., to 5th AAA Gp, Ft Bliss, Texas.
 Korens, Kendall W., to 59th AAA AW Bn, Ft Bliss, Texas.
 McNicol, Wallace N., to 384th AAA Gun Bn, Ft Bliss, Texas.
 Maliko, Joseph, to AA & GM Br Arty Sch, Ft Bliss, Texas for dy w/Staff & Faculty.
 Manners, Donald M., to 384th AAA Gun Bn, Ft Bliss, Texas.
 Norcom, Henry C., to 503d Abn AA Bn, Ft Bragg, N. C.
 Starman, Charles D., to 384th AAA Gun Bn, Ft Bliss, Texas.
 Whiteside, Paul W., to 384th AAA Gun Bn, Ft Bliss, Texas.



Army's New School Catalog Ready For Distribution

Secretary of the Army Royall said recently that education as a big business in the Army will get another shot in the arm when a 523-page booklet, entitled "The Army School Catalog," comes off the Government Printing Office's press.

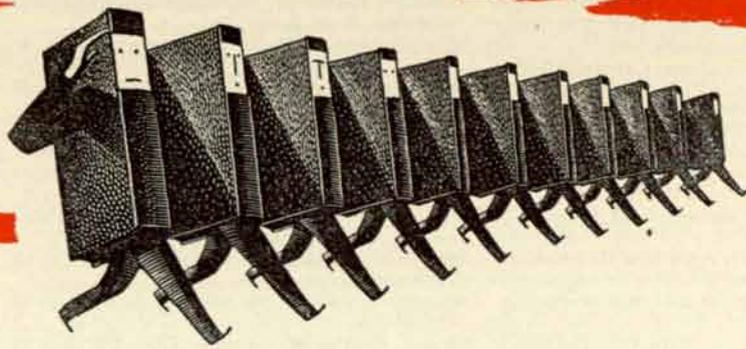
The book, officially known as Department of the Army Pamphlet No. 20-21, offers in the most complete form ever prepared information about 136 courses for officers and 198 for enlisted personnel in the Army's vast educational system. Ranging from Neuropsychiatric Nursing to Pastry Baking, the courses are designed to increase the skill of Army members in all ranks.

Pamphlets of this nature have been circulated heretofore, but never in the detailed form of the new School Catalog.

A loose-leaf volume, the new book can be amended from time to time by the issuance of single revised pages without necessitating expensive republication of the entire volume or awkward "posting" of addenda.

When distribution begins in the near future, units as small as companies will be furnished copies. These will be available to every officer and enlisted man in the Army as an aid in advancing his career.

Each course—one to a page—is described by its title, number and length in weeks. The prospectus shows the Military Occupational Specialty awarded on graduation, the location of the school, purpose of the course and a summary of the instruction program. Mandatory and desirable prerequisites for the course are outlined in detail.



BOOK REVIEWS

MO

UNDERCOVER GIRL. By Elizabeth P. MacDonald. The Macmillan Company. 305 Pages; \$3.00.

Lieutenants often turn pale when they carry the documents from one file to another. Colonels may gloat over being included on the circulation list of highly classified papers. Generals sometimes make a full-time job of paraphrasing each other's ideas in immaculate mimeographing. *Tremendous* things are in the air! Such is the idea held by too many officers of the Military Establishment about present-day psychological warfare. Everybody, including Drew Pearson, says we ought to get busy at it. But do we do it? We ain't saying.

In the sadly overclassified field of psychological warfare, very little was as heavily classified as MO—morale operations, or "black propaganda." (To find out exactly what that is you will either have to get this book or buy my own book from the Infantry Journal Press, which published it. *Psychological Warfare*. \$3.50. Autographs free. Not an advt.) American "black" propaganda was classified very highly during the war. Since it was never released to the U.S. public, presumably it still is.

Do you get that point? Classified? Still classified, very much so? Fine.

Well, this MacDonald girl appears to have skimmed the whole lot of it—names, dates, places, operational review, evaluation, echelons, basic doctrine. She has printed it. College professors can't get it, if they want to write books. Historians can't get it. Newspapermen can't get American "black propaganda." Nobody can get it.

Except, it would seem, here.

Just in case anyone, including the Tass news agency or the Red Army general staff, had doubts about this being the Mc-

Coy or the MacDonald, General "Wild Bill" Donovan wrote a preface to this book in which he endorses it. Some day a security officer in nameless buildings of nameless agencies is going to realize that not all the world is mimeographed and numbered, and is going to wake up to the fact that a statement of MO doctrine thus endorsed, is on sale at \$3.00 per copy.

The book itself is deceptive. It is told on a uniform level of vehement feminine humor. Miss MacDonald practically splits a gut trying to be one of the boys and sometimes the joviality is wearing. But underneath the fluffduffery, the personal anecdote and the no-extra-cost travelogue stuff, Miss MacDonald packs a wallop of doctrine. She points out the limitations of the function, shows how we faked Japanese documents, goes into specific techniques for corrupting enemy morale and snafuing hostile strategy, and describes how personnel limitations were overcome.

If a stranger tried to write this book—a good patriotic American newspaperman or retired officer or psychologist—and went down and asked nicely for the materials, he could wait until four inches of ice covered Hades before he saw any of the documents which Miss MacDonald describes in her book. Generals Brereton, Eisenhower, Stilwell and Patton have given their inside stories of the war; Secretaries Stimson and Hull have done so; the Harry Hopkins estate is making a pot of money out of classified documents which would have gotten you or me in jail if we had tried to borrow them for our memoirs. And any day now, it seems almost possible, General Zilbert K. Zooch may sell the whole blessed files of the Manhattan Project to some syndicate as a comic strip. Individuals can apparently talk all they want to, but the documents—God bless their little hearts—remain classified. Print them. And they're still classified, for all I know.

If you don't believe me, ask the Army or the Navy for copies of some of the stuff Miss MacDonald prints. Or even better, ask Miss MacDonald. At page 305 of a book dedicated to the ultra-hush topic of MO, she blithely remarks: ". . . We had been warned to keep MO hush-hush."

The reviewer would worry about reviewing this "classified" book which Macmillan sells for three bucks, except for his staunch conviction that the security people most concerned never—no, no, never—read anything which is not marked classified. Hence they won't see this issue of the *INFANTRY JOURNAL* unless a copy is brought back from the upper Lolo country, photographed, stamped **DREADFULLY SECRET**, and shown only to those officers of the class of '26 whose first names include two vowels.—P. M. A. LINEBARGER.

Fragments of Geopolitics

TOTAL POWER: A Footnote to History. By Dr. Edmund A. Walsh. Doubleday & Company. 373 Pages; Index; \$5.00.

Dr. Edmund A. Walsh, of Georgetown University, is extremely erudite and well-travelled. His book bears testimony to both facts. In addition, he disarms criticism by remarking in his foreword that "These leaves from a Nuremberg diary are fragments of a more detailed study now in preparation which in its entirety will require three volumes."

Nevertheless, criticism there will be, especially from this corner. In the first place, Father Walsh is all too apt when he refers to *Total Power* as fragmentary.

Even the first section, which deals with Karl Haushofer, is none too well coordinated internally. A good deal of extraneous verbiage and the travelogue approach tend to weigh it down considerably and obscure the outlines of what might well have made a Greek tragedy. Haushofer, the general

turned philosopher, did much to bring geopolitics closer to the status of a science. Walsh, on a basis which seems a little too arbitrary and patronizing, estimates that fifty per cent or more of Haushofer's doctrines were valid.

Despite his denials, Haushofer was unquestionably the man who provided Nazi aggression with its geopolitical foundations and shibboleths. He was also the husband of a Jewess, and the monster which he helped create kept him in a constant state of terror over her welfare and her life. The son, a thoroughgoing anti-Hitlerite, was murdered as a result of his activities.

Haushofer himself, after Nuremberg, joined his wife in suicide; both took poison, and to make assurance doubly sure, arranged to hang themselves afterwards. His wife was successful. Haushofer, weak and old, failed to reach his self-selected gallows. The poison got him first, and he was found face down in the Bavarian mud.

The second part of the volume is devoted to a study of power, its anatomy and abuses. This section is uncoordinated—almost unorganized. Page after page turns up little more than litanies of names of philosophers who nourished the power cults, of emperors and kings who practiced abuses, and only murkily out of this welter of psychological and philosophical theses does Father Walsh's opinion—(1) that power is an indispensable attribute of society, and (2) that it must at all times be subject to an informed and sensitive morality—emerge.

Only in its third section—dealing with the new geopolitics in Europe and Asia, and American responsibilities—does Walsh's book reach the clarity and the force which we have a right to expect. Here he notes the deficiency which the air age has imposed on Mackinder's basic theory of power, and notes, too, that Soviet Russia, "with genuine geopolitical foresight, is now compensating for . . ." that deficiency. His whole chapter on the new geopolitics is as tidy a roundup on current history, and the present world position geopolitically as has ever been turned out for the American reader.

Walsh would have been very well advised to devote another three years to expanding and clarifying his comments on power, which as sketched in the present book will take a good three volumes by themselves, and his publishers would have done better to publish the saga of Haushofer, and the geopolitical review as separate books, priced closer to their individual worth.—J. P. C.

Europe, Including Its Women

FIELDING'S NEW TRAVEL GUIDE TO EUROPE. By Temple Fielding. William Sloane Associates. 260 Pages; Illustrated; \$3.75.

Mr. Fielding, a former officer in the U. S. Army, has been around (22 lands in the past year or so) and he has written a topi-

cal and pleasantly different guide book, neglecting such details as how the sun sets beyond the Nile, but including details on life after the sun sets in Europe, Ethiopia and Egypt. It is the sort of book that will induce itchy feet in the most home-loving American male. True, Mr. Fielding tells women how to pack fifty pounds of the most devastating but practical clothes, how to find a permanent or a gigolo in Europe, but he chiefly thinks of the American tourist as male, and for those discriminating gourmets of food, beer, hard liquor and women, this book is useful.

For instance, Mr. Fielding discusses how to go, what to take, how much tickets, hotels, food, tips, liquor and cigarettes are apt to cost, what shots are necessary before leaving, where to get passports and visas and how long it takes, what to eat and drink en route, and though at times, he may seem a bit motherly, most of this is valuable to the prospective tourist.

He alphabetizes countries and gives such miscellaneous information as the amount of postwar recovery, attitude toward tourists, money, prices and the black market, customs and immigration officials, night clubs, restaurants, taxis, trains, laundry, things to see, things to buy, ladies and women. This last department makes for fascinating reading. A little of Mr. Fielding's information is half-baked (he says for example that "England's House of Lords is roughly like our Senate") but his knowledge of ladies and women is thorough and documented.

His ideal conglomerate country emerges thus: Denmark for food and healthy fun, Spain for climate, England for true courtesy, Eire for high moral standards and taxis, Italy for laundry (count it first), Egypt and France for night clubs, Switzerland for watches and scenery, Sweden for lenient customs officials.

Women? The women are terrific in France, Italy, Egypt, England, Ireland, Denmark, Spain, Portugal, the Netherlands, Belgium, Norway, Sweden and Ethiopia.—D. C. R.

Curious Blend

THE INDIANS OF THE AMERICAS.

By John Collier. W. W. Norton & Company. 326 Pages; Illustrations; Bibliography; Index; \$3.75.

This excellent book, by one of the world's outstanding authorities on Indian affairs, is a curious blend of fact, history, speculation, and poetry. The poetry is implicit in every sentence of the book: one suspects that Mr. Collier's passionate convictions, expert knowledge, and sensitive nature make it impossible for him to write anything drab or humdrum.

In the first part of the book, "Out of the Past," there is a discussion of the American Indian in long-range terms. "The Stone Age lives and moves now in his memory. His social energy stems directly from the long hungers and imprisoned strivings of mankind through the centuries." In a sub-

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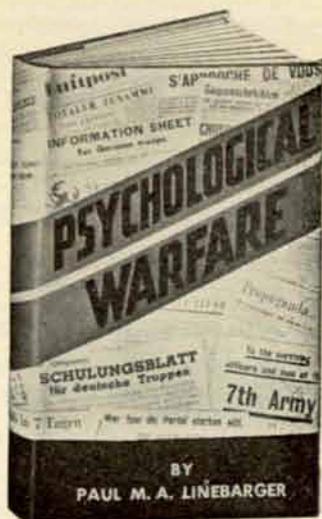
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PSYCHOLOGICAL WARFARE

By PAUL M. A. LINEBARGER

A brilliant study of psychological warfare—the only modern study, in fact, of a subject of the most tremendous concern to every American and more specifically to every American soldier. Linebarger's book is not only a study of the psychological warfare techniques of the past and of World War II, but an introduction on "how to do it," and a book that shows how to combat other people's psychological warfare.

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section entitled "The Indian of Prehistory," the discussion moves with convincing smoothness to the conclusion that the Indians had—and in great part still have—the only answer to the problems of psychological uneasiness and ultimate weapons which are the plague of our times. "Ancient man could send us a message if he could speak and if he would be heard. For he knew and practiced truths of the shaping of human nature—truths which we as a society have lost."

Part Two, "South of the Rio Grande," deals historically with the Incas, the Aztecs, the Spanish conquest, Spanish rule, and ends with an appraisal of the Indian situation today in the South American republics. Part Three, "North of the Rio Grande," is concerned with the Indians of North America. Part Four, "Into the Future," presents Mr. Collier's most impassioned and hopeful view of the Indian future—hopeful for us as well as for the Indians, if we will learn the basic lesson which Indian societies can teach us: the social art, the art of group living.

Some readers, perhaps, will find Mr. Collier's future too extended, his hopes too vivid, his vision too immense. However, the book is a very convincing piece of writing. It is rich with ideas, alive with a basic understanding of the needs and nature of mankind. It is a difficult book to appraise in academic terms (one suspects that most anthropologists, for example, might disagree with some of the ideas which are fundamental to Mr. Collier's discussion), but it is an equally difficult book to reject or ignore. And it is, above all, a wonderful and fascinating book to read.—M. S. LINEBARGER.

Survey Without Malice

EUROPE: A Personal And Political Survey of 3,000 Years of European History. By C. A. Alington. Charles Scribner's Sons. 395 Pages; Maps; Index; \$3.75.

There exist, generally speaking, two classes of historians; the men who study the minutiae of history as other men pore over electron microscopes, and the men who take the cosmic view—the philosopher of history—Marx, for instance, whose views are just now beginning to impress themselves painfully on Western civilization. Or Töynbee, whose two best sellers ornament many a mantel and piano top, whose views will not for another half century effectuate the Western Revival for which he pleads so urgently between the lines.

Between these men of minute detail, and the men of cosmic, the ordinary man-at-arms, whatever his rank, stands bewildered. Not so confused perhaps as the ordinary citizen. But not so intimately acquainted with the living processes of history as the average European.

History for the European begins with folk-legends, is constantly renewed by elbow-rubbing friction with peoples who have, within the memory of his grandparents, been friends, enemies, allies and de-

stroyers. History for the American begins all too often with the American Revolution and continues through a serene pageant of effortless victories up to 1939.

World War II re-opened the subject. Europe and its Eastern environs have become subjects of engrossing interest to Americans and to the American Army.

Europe is now, in effect, something more than terrain. It is an area where people and their beliefs count for more than infantry divisions, where tradition, religion, politics loom as bulwarks dwarfing even statistics of production and problems of supply.

So much makes a lengthy introduction to a book which will probably make no ripple on the best-seller lists. But a book which can present unobtrusively and without malice a survey of European history and a perspective which many Americans lack has for years been an urgent need.

C. A. Alington, in his *Europe*, has the book. Urbane, polished, Alington expresses his intention in a quote from Oliver Goldsmith—"not to add to historical knowledge, but to contract it."

He has contracted it successfully in his 395 pages; far more successfully than most college texts, with a cleanness of detail and a grasp of general outline which will rejoice the general reader, with a disregard for the forms and formulae of conventional histories which will alarm not only Britons dead and gone, but many a Ph.D. now flourishing.

In essence Alington has provided a fast-moving panorama of Europe, from its beginnings to 1900, precisely the background necessary to explain European attitudes, precisely the "fill-in" needed to orient Americans who tend to view European history as something that began at Sarajevo or Versailles.

Europe is not easy reading; it takes attention, and readers who can bring to it even fragmentary knowledge of the subject will profit in proportion. But to citizens of the United States, preparing to dip a quivering toe into the frigid maelstrom of international politics, it will be vastly helpful. It won't make the water any warmer, but it will at least prepare them for the shock of icy truth.—J. C.

Old K.C.

CROSSROADS OF AMERICA, The Story of Kansas City. By Darrell Garwood. W. W. Norton & Company. 331 Pages; Index; Illustrated; \$4.00.

Darrell Garwood has adapted a curious technique for his study of Kansas City; he chooses to tell the story of the *Crossroads of America* in terms of the men who worked, fought, built, and destroyed in and around the Missouri-Kansas border. The result is a sort of hybrid history, something between Carlyle and Cleveland Amory's *Proper Bostonians*, but it is beyond dispute a readable result.

For one thing, the sheer variety of the characters Garwood has to deal with bring

a certain fascination to his work. John Brown and Thomas Hart Benton, the senator, Thomas Hart Benton, the painter, and Jesse James, William Rockhill Nelson, a titan who was equally potent in the editorial offices of the Kansas City *Star* and Bull-Moose politics. The wealthy Colonel Swope, who was poisoned by his son-in-law, and Tom Pendergast, who swapped a political kingdom for the horses—they're a few of the people whose careers make the book as they made Kansas City; and Garwood, even if he were less of a reporter than he is, could hardly have failed to make a fast-reading narrative out of his material.

And geography and history proper (as distinct from the history of personalities) conspired, in their turn, to make an epic out of Kansas City. It was never the head of steamboat navigation in the West, of course, but it is located exactly at the point where the Missouri turns North, instead of West, and it inevitably became a boat-terminal, a terminus for trails to the West, and a rail-terminal in turn.

An erratic genius named Stilwell, inspired literally by visions, connected Kansas City to the Gulf by rail, a move which made K.C. a wheat center—the wheat center, in fact, because Stilwell's inspiration cut freight costs on export wheat from twenty-six to sixteen cents a hundred pounds. Kansas City was a natural terminal, too, for the beef drives up from Texas.

It was, in fact, almost unduly favored by geography as a hotbed of history; it lay, as the author points out, exactly at a four-way junction, where the East jumped off the Great American Desert and the West, and where the North and South came into bloody conflict even before Secession touched off the Civil War.

Garwood has only skimmed the surface of a mother-lode of history and adventure; but his book is certainly worth having till a better one comes along.—J. P. C.

Millennial Perspective

THE UNITED STATES AND CHINA.

By John King Fairbank. Harvard University Press. 384 Pages; Maps; Index; \$3.75.

Professor Fairbank of Harvard has viewed "the United States and China" in a millennial perspective. The first half of the book is a good general history of China, with many fresh interpretations which will interest and delight all those who have a professional or expert knowledge of China. His discussion of the mystery of China's great population growth, for example, is the best the reviewer has seen in English (pp. 138-143). It is a pity that the publishers did not permit annotation of a book as valuable as this; one is tempted to follow up the well-presented points which Professor Fairbank brings forth in a clear and understandable style.

The latter part of the book discusses current policies. The author has a very low opinion of Generalissimo Chiang and of

the Chinese government, and a high opinion of the liberal groups whom General Marshall praised. There is, therefore, a pro-Left bias which—properly understood—detracts nothing from the value of the book. After many discussions of "what America ought to do" framed in moral generalizations, it is refreshing to find an author who takes a very determined and definite stand, marshals his evidence effectively so as to support his point of view, and (within the limits of human frailty) tries to let the reader see what he is doing, so that the reader—if he wishes to think up a better or different China policy for himself—can at least know at what point he should start disagreeing.—PAUL M. A. LINEBARGER.

Pirate River

THE CHAGRES, River of Westward Passage. By John Easter Minter. Rinehart and Company. 418 Pages; Illustrated; Index; \$4.00.

The first in the excellent "Rivers of America" series to go outside the United States is this story of the Chagres, written by an author known to *INFANTRY JOURNAL* readers as "Lieutenant Monoxide."

There is nothing soporific about this account of the Panamanian river. In fact, the author has made the pardonable mistake of being overcome by the blood and thunder of its history and often writing in a "Gee Whizz!" manner. The Chagres was the gateway to Peru and along its banks millions in gold were transported across the isthmus by slaves chained in long lines. Gold was naturally followed by banditry and banditry by piracy. Men like Sir Henry Morgan, who sacked Panama City, and Pedrarias, the tyrannical Spanish governor who reduced the population by eighty per cent in eleven years, rub shoulders in history with Goethals, the engineer who built the canal, and Gorgas, the physician who made it possible to live there—and Teddy Roosevelt, probably the most daring of the lot, who got the whole isthmus away from Colombia.

History, fable, fact and myth are neatly blended in this story of the Chagres. The book is entertaining and it is useful. What more do you want from a book?—R. G. McC.

Genuine Southwest Flavor

NO MAN'S LAND. By Carl Coke Rister. University of Oklahoma Press. 210 Pages; Illustrated; Index; \$3.00.

Lawmakers do funny things. Like overlooking four million acres of land. They did that with what is now the Oklahoma Panhandle when they were reassigning territories after the Compromise of 1850. Consequently, without any organized government, this orphaned no-man's-land became a refuge for outlaws and border ruffians; a battleground on which peaceful settlers challenged the lawless in a struggle to bring order out of chaos; a huge

Two by Perelman

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By S. J. Perelman

This latest Perelman book gives an account of his trip around the world with Al Hirschfeld the artist. Acid comments on accommodations, fellow travelers, food, transportation, local habits and himself in Perelman's bitter vocabulary. Hirschfeld's illustrations enliven the book and make it even more hilarious.

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Perelman is at his best in this book of fifty pieces, most of which originally appeared in the *New Yorker* magazine. Here the master of words takes a cut at books, advertising, magazines, publishers, the movies, columnists and socialites—all the offensive flora and fauna of the decade.

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This is the whole story of the invasion and the Battle of Gettysburg told through diaries, letters, reports, and recollections. Not merely the chronicle of troop movements and commanders but also the composite account of the invasion and the three dramatic days of battle written in the words of men in both armies.

Conventional history and the simplified account of what the generals did are disregarded in this book which searches, digs into the human factors which prompted their decisions.

GETTYSBURG is history—told by the men and women who made it.

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WOMAN WITH A SWORD

By Hollister Noble

WOMAN WITH A SWORD is one of the most astounding bits of history ever to emerge from the whole tangled story of America, and brings to light a woman who is perhaps worthy of being named America's foremost heroine. Miss Anne Carroll was a secret member of Lincoln's cabinet during the Civil War.

She wrote the document upon which Lincoln based his war powers. She was also a military genius and conceived the plan for the Tennessee campaign which led directly to the defeat of the South.

Anne Carroll was capable of an overwhelming passion for a cause and her story is one of the most moving and absorbing in American history.

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economic unit whose inhabitants survived banditry to bring law and prosperity, and then the prolonged mismanagement of the soil and the drought of the "Dirty Thirties" to dig out and once more reap fortune in grain harvests.

Carl Rister has produced a compact and authentic account of an almost overlooked region. The pulp-magazine type of outlaw escapades and the triumph of frontier virtue; the vigilantes who cleaned up Sod Town where schoolboys carried six-shooters; and many other incidents expertly told give this book a genuine flavor of the Southwest. Physically, it is in keeping with the fine standards set by the publisher.—R. G. McC.

OLD KOREA. By Elizabeth Keith. Philosophical Library. 72 Pages; Illustrated; \$7.50.

This charming book gives us a vivid description of Old Korea, through its colored illustrations, sketches and well-worded text. It consists of impressions received over a quarter of a century ago while visiting "The Land of Morning Calm," a name often given to Korea. The writer has hoped to arouse more interest in these people now striving for their independence. She and her sister, who has captured in paintings a great art of Korea, have combined their talents.—W. D. DeS.

Air Photo Use in Forestry

AERIAL PHOTOGRAPHS IN FORESTRY. By Stephen H. Spurr. The Ronald Press Company. 340 Pages; Illustrated; Index; \$6.00.

In combat, the infantryman's usual concern with aerial photos is that there are never enough of them. A few, who were able to attend the special brief course at Camp Ritchie, managed to get a pretty good working knowledge of the elements of photo-interpretation, and some insight into the wealth of information actually available through careful and detailed interpretation. Not fully realized, perhaps, was the extent to which military photo-interpretation is indebted to the work of the foresters and agriculturists who pioneered in the extraction of information from photos of unmapped or inaccessible areas.

Spurr's book, specialized as it is, is nevertheless bound to be of tremendous interest to photo-interpreters, and to the men who want to know more about it.

It is, in the first place, an excellent introduction to the whole subject, with explanations of the principles of stereovision, and stereoscopes, and careful, accurate discussion and explanation of principles underlying the instruments which enable the photo-interpreter to measure heights and areas on a pair of matching photos, to measure scale and distances on oblique photos, and to carry on the obscure mysteries of his art. In addition, it contains a long and excellent discussion about the uses and types of film, filters, printing papers, etc., and their applica-

bility to photo-interpretation, a discussion which this reviewer never found in any of the manuals and TMs which he sweated over trying to master the subject some three or four years ago.

The last of the four parts of the book deals intensively with the specific utility of air photos in forestry (although most of the examples are taken from that field) and even in these sections, the notes on methods of estimating slope, ground drainage, soil types and moisture content of soils should be of extreme value to interpreters of the upper echelons.—J. C.

A GHOST TOWN ON THE YELLOWSTONE. By Elliot Paul. Random House. 341 Pages; \$3.50.

This is volume two of Mr. Paul's autobiography, in relation to chronology. *Linden on the Saugus Branch* was the first installment; *Ghost Town* has the same virtue and the same faults. No one in his right mind ever accused Elliot Paul of inability to hold the reader's interest, even with such trivia as which unimportant residents of which unimportant town patronized which brothel. Elliot Paul, the hero of the story, comes off very well with bad horses, bad men, bad women, and even worse weather—and at the age of sixteen. Literate biography and interpretation of history, economics and political science make a curious concoction when mixed with semi-fictional tales of other characters, even their innermost thoughts. No mention made of ouija-boards or crystal balls; the reader must take the truth with the guesses and never be sure which is which. But still, it's a book that can be read for itself alone—it really makes little difference if the story-teller is Elliot Paul himself or youth named Jones, because the man can write, and can make one feel what he felt and see what he saw.—A. S.

JUNGLE MAN, The Autobiography of Major P. J. Pretorius. With a Foreword by Field Marshal J. C. Smuts. E. Dutton & Co., Inc. 256 Pages; Illustrated; Index; \$3.75.

This fine book ranks right on top of the African adventure stories. Soldier and hunter-rifleman, Pretorius is one of the legendary men of the outdoors, and his death in 1945 removed another of the most extinct line of "mad white men" typified by Doughty, Lawrence, Selous, Clifton and Cotter. Traditionally, the quiet, unassuming little guy is the most dangerous when it comes to a show-down and Pretorius was cast right in the traditional mold. He was endowed with infinite patience. Once while tracking the German cruiser *Königsberg* through a jungle river he sat for a month recording the hour change in tides. Absolutely fearless, he stood his ground when charged by frightened elephants. Cunning as a panther, he planned for the British Navy the search and destruction of the *Königsberg* hidden in an African river. Written modestly, and with fascinating details, this is a book

enthralling interest to those who like yarns of single-handed military adventures and of great big-game hunting experiences.—R. G. McC.

Saga of the Shenandoah

DIXIE RAIDER. THE SAGA OF THE C.S.S. *Shenandoah*. By Murray Morgan. E. P. Dutton & Co., Inc. 336 Pages; Illustrated; \$4.00.

The *Alabama*, the *Sumter* and the *Shenandoah*, all of them hit-and-run sea raiders of the Civil War, were as glamorous commands as any captain could want. Of the three, the *Shenandoah* had as exciting and fantastic a career as any ship ever launched. A lovely, lean, black-hulled, full-rigged ship, she could peel off sixteen knots under sail and nine knots with her 150-horsepower steam auxiliary. She started her career, sharklike attacks against the Union commerce with only nineteen men and twenty-three officers—forty-two men to man a ship which needed 150 to sail and fight. Minus any gun tackle, she was unable to fire her guns, and had to depend on the unbacked bluff of the grim muzzles thrust through the ports to cow the enemy. Gradually picking up supplies as she captured, looted and burned ship after ship, the *Shenandoah* became as much of a terror on the seas as the most ruthless pirate. In the Bering Sea, she rounded up ten whaling ships, the cream of the New England fleet, the most daring ships and the most competent commanders, to set an all-time record of singlehanded conquest. So constantly did she stay away from land that her commander didn't know the Civil War was over, and five months later they were still burning Union ships. In her one year at sea, the *Shenandoah* circled the globe captured thirty-eight ships, took a thousand prisoners, achieved \$15,000,000 of direct damages, and \$110,000,000 indirectly without the loss of a single man.

The cruise of the *Shenandoah* is a sparkling sea yarn, and a stirring picture of a fascinating type of naval warfare. The author has handled his material excellently, and except for an unfortunate habit of battering his pages with modern slang, has been content to let the crew tell their own swift-paced story. The biggest fault in the book is the lack of an index—an inexcusable omission.—R. G. McC.

SMALL BOAT ENGINE MANUAL. By C. Morgan Jones. Cornell Maritime Press. 287 Pages; Illustrated; Index; \$4.00.

C. Morgan Jones presents in straightforward, precise language as much about small boat engines as the average power boat sailor needs. He presumes little knowledge, and tells factually how to select, install, operate and maintain small marine engines. He covers both gasoline and diesel, used engines and marine conversions, auxiliary power plants, and has a very useful chapter on trouble shooting. He has written a practical workbook for the small boat owner.—R. G. McC.

FUNK AND WAGNALLS HOME MAINTENANCE HANDBOOK. By Douglas Toumey. Funk & Wagnalls Company. 332 Pages; Illustrated; Index; \$4.50. How to save money by making your own household repairs.

PRISONERS OF WAR. Institute of World Policy. 98 Pages; Illustrated; \$1.50. A study of fact and policy in relation to prisoners of war.

HUNTING AND FISHING IN THE GREAT SMOKIES. By Jim Gasque. Alfred A. Knopf, Inc. 215 Pages; Index; \$3.75. The first book for sportsmen covering an area that is growing more popular each year.

HUNTING IN THE NORTHWEST. By Clyde Ormond. Alfred A. Knopf, Inc. 277 Pages; Index; Illustrated; \$5.00. Hunting in the northwest with emphasis on big game.

ONE STORY OF RADAR. By A. P. Rowe. Cambridge University Press. 208 Pages; Index; Illustrated; \$2.50. How radar was developed for the Royal Air Force.

WE HOLD THESE TRUTHS. By Stuart Gerry Brown. Harper & Brothers. 429 Pages; Index; \$2.75. "A source book of democracy." Many of the primary documents of American history along with the significant addresses and speeches.

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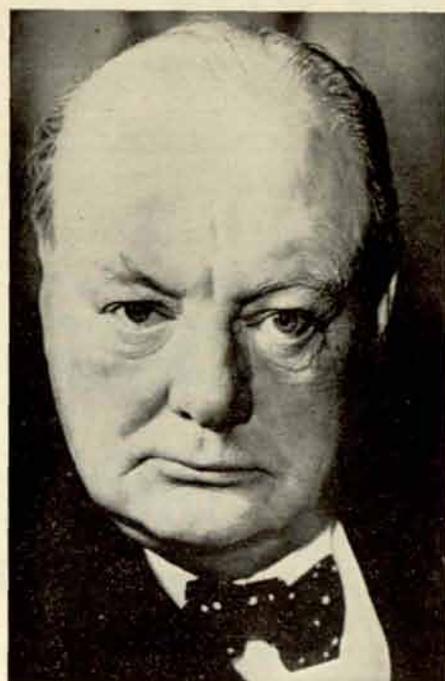
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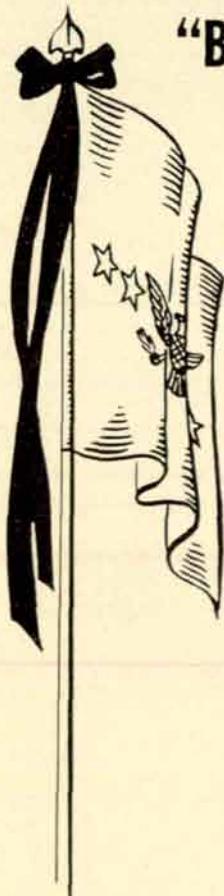
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