

CHEMICAL WARFARE

A Magazine devoted to the activities of the
CHEMICAL WARFARE SERVICE

Of Interest To All Arms

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Edited By STAFF, CHEMICAL WARFARE SCHOOL

RESERVE OFFICERS AT EDGEWOOD ARSENAL.

On July 6th, fifty officers of the Chemical Warfare Reserve reported at Edgewood Arsenal for two weeks training. Training for these officers was conducted by the Chemical Warfare School, this being the largest class in the history of the School.

The class consisted of both BA and TA Group officers and included thirteen officers from the 301st Gas Regiment. This is the first time officers of this organization have been assembled for training. The work for this unit was divided between training at the Chemical Warfare School and training with the 1st Gas Regiment.

During the training the 301st carried out their first unit operation, it being a Livens projector shoot laid out and installed by the officers of the regiment. Lieut. Col. E.E. Corry, commanding the 301st, fired the battery. The result was all that could be asked.

The class worked hard and showed great interest in the work. Work started at 7:15 A.M. and ended at 4:00 P.M. The interest of the Reserve and the desire to fit themselves for duty in case of emergency cannot be better illustrated than by the fact that two of this group of officers traveled nearly two thousand miles and devoted two weeks of their time entirely at their own expense.

The value of the R.O.T.C. units in our colleges was more apparent than ever before. A number of the junior officers in training have received this class of training and the benefits were marked.

Before being relieved from duty the class made up a roster showing the address and business connections of each member. It was felt by members of the class that such a roster would aid in keeping them in touch with each other both from a military and business standpoint.

The instruction ended Saturday morning, July 18th, with an address by Major General A. A. Fries, Chief of Chemical Warfare Service, at which time certificates were presented to each officer. The officers left expressing a high degree of satisfaction with the instruction received and many expressed regret that but two weeks could be had.

"Chemical Warfare" suggested a year ago that Reserve Officers who had received training at the Chemical Warfare School might well be used as instructors in this subject, for "Winter Plattsburg", and to conduct training for Chemical Warfare Reserve Officers who have not had the opportunity of active duty. It is again suggested that those interested communicate with members of this year's class, a list of whom follows:

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LEAGUE TOTALS LOSSES CAUSED BY WORLD WAR.

London, July 24. - After several years' work, the League of Nations has finished the first complete assessment of the material losses of the World War, officially compiled from all the nations that participated.

Here is the net result of the shot fired 11 years ago next Wednesday by a gay Austrian officer:

| | |
|--|------------------------------|
| 9,998,771 known dead | 6,295,512 seriously wounded |
| 2,991,800 presumed dead | 14,002,039 otherwise wounded |
| \$186,333,637,097 direct cost of the war | |
| \$ 29,960,000,000 property loss of the war | |
| \$ 33,551,276,280 capitalized value of loss of life. | |

In assessing the capitalized value of life loss the league figures the value of a human life for war purposes at \$4,720 for Americans; \$4,140 for British; \$2,900 for French. - *From Syracuse, N.Y. Journal, July 25, 1925.*

REDS TO USE DISEASE GERMS TO SUBDUE FUTURE ENEMIES.

London, Aug. 9 - The Soviet Red Army plans to fight its future enemies by inoculating them with disease germs according to information conveyed to the War Office here.

Evidence that the Soviets are actively engaged in storing up stocks containing germs of encephalitis lethargica commonly known as sleeping sickness has been communicated to the British authorities by the Allied Intelligence Department, it was learned today.

It has been known for some time that the Red Army chiefs have been paying special attention to chemical warfare and have employed a large number of foreign scientists, many of them Germans, for research in this direction. - *From Philadelphia Inquirer, August 10, 1925.*

CHEMISTRY IN WAR: AN 18TH CENTURY VIEWPOINT.

By Tenney L. Davis.

Reprinted from Army Ordnance, Washington, D.C., May-June, 1925.

Chemistry has been so greatly credited in recent print with providing the resources of war, and so greatly blamed for contributing its horrors, that it is surprising to find the great Dutch physician and chemist, Hermann Boerhaave, giving it the same praise and blame nearly two hundred years ago. After money, Boerhaave considered chemistry to be the chief support of war. But he also arraigned chemistry for making war so destructive to mankind. All the more astonishing to us now is his indictment, for his particular grievance was against black powder.

"It were indeed to be wish'd," writes¹ Boerhaave in his *Elementa Chemiae*, "that our art had been less ingenious, in contriving means destructive to mankind; we mean those instruments of war which were unknown to the ancients, and have made such havoc among the moderns. But as men have always been bent on seeking each other's destruction by continual wars; and as force, when brought against us, can only be repelled by force, the chief support of war, must, after money, be now sought in chemistry.

"Roger Bacon, as early as the twelfth century², had found out gunpowder, wherewith he imitated thunder and lightning; but that age was so happy as not to apply so extraordinary a discovery to the destruction of mankind. But two ages afterwards, Barthold Schwartz, a German monk and chemist, happening by some accident to discover a prodigious power of expanding in some of this powder which had been made for medicinal uses, he apply'd it first in an iron barrel, and soon after to the military art, and taught it to the Venetians. The effect is, that the art of war has since that time turned entirely on this one chemical invention: so that the feeble boy may now kill the stoutest hero; nor is there any thing, how vast and solid soever, can withstand it. By a thorough acquaintance with the power of this powder, that intelligent Dutch General Cohorn quite alter'd the whole art of fighting; making such a change in the manner of fortification, that places formerly held impregnable, now want defenders. In effect, the power of gunpowder is still more to be fear'd. I tremble to mention the stupendous force of another powder, prepar'd of sulphur, nitre, and burnt lees of wine; to say nothing of the well-known power of *aurum fulminans*. Some person taking a quantity of fragrant oil, chemically procured from spices, and mixing it with a liquor procured from salt-petre, discover'd a thing far more powerful than gunpowder itself; and which spontaneously kindles and burns with great fierceness, without any application of fire. I shall but just mention a fatal event which lately

¹A New Method of Chemistry: including the History, Theory, and Practice of the Art: translated from the Original Latin of Dr. Boerhaave's *Elementa Chemiae*, as published by himself. To which are added, Notes; and an Appendix, showing the necessity and Utility of Enlarging the Bounds of Chemistry. By Peter Shaw. M.D., F.R.S." 3rd. edition. London, 1753. Vol. 1, pp: 189-191.

²The information here is not correct. Roger Bacon was of the thirteenth century, and Barthold Schwartz is now generally considered to be a myth.

happened in *Germany*, from an experiment made with balsam of sulphur terebinthinated, and confined in a close chemical vessel, and thus exploded by fire; God grant that mortal men may not be so ingenious at their own cost, as to pervert a profitable science any longer to such horrible uses. For this reason I forbear to mention several other matters far more horrible and destructive than any of those above rehearsed."

On the foregoing passage, Peter Shaw, translator and editor of Boerhaave's work, has added the following note: "On this occasion we cannot omit to admire an instance of a noble and generous principle, in the late king of *France*, *Louis XIV.* A *Roman* chemist, *S. Poli*, having discovered something of this kind, of prodigious effect, came to *France* in 1702, on purpose to make an offer of it to that prince; who, tho' he was then going to be engaged in a war against a powerful confederacy; yet voluntarily renounced all the advantages of such a secret: handsomely rewarded the inventor, but enjoined him to let it perish."

Primitive men fighting with stones and clubs no doubt felt a resentment against the unsportsmanlike conduct of the first enemy who threw sharpened sticks of wood. But they rapidly adopted the use of spears, and, in due course of time, were again annoyed by an adversary who was not content to throw his pointed sticks but shot them with a greater velocity by reason of the elastic force of a bended bow. To use the fighting of the golden days seems to have been largely a matter of brawn, but intelligence and skill were really considerable factors in it. To primitive man it would seem to depend but little upon brute strength; it would appear to be largely a matter of the appliances, armor, weapons and instruments, which were used. The feeble shepherd boy, David, was able to slay the stout hero, Goliath, by means of a simple physical instrument in the use of which his powerful opponent was not skilled. The advantage has always been with the more intelligent, and improvements in methods of warfare have been due to advances in scientific knowledge. Except for the smoke-pots of the Chinese and the spouting, extinguishable fire of the Byzantines, improvements in warfare previous to gunpowder were due, not to chemistry, but to physics.

Since the introduction of gunpowder, changes have been in the direction suggested by chemical discovery. Slow burning powder has made rifled artillery possible. The chemistry of steel and that of the compounds of carbon have given us the tank and the engine which propels the airplane. Physical instruments have made use of chemical energies; the powder has propelled the bullet, the airplane has dropped the high explosive, the depth bomb has shaken the submarine as a cat would shake a mouse, the thing to be accomplished by the means provided by chemistry has been, until recently, a physical change, and the damage to the enemy has been physical.

The present revolution in methods of warfare involves far more than the exploitation of chemistry. War has become more than ever a matter of intelligence. We now attack the enemy, not merely in a physical way, but by every means which an improved understanding of

nature has provided for us. We attack him economically and politically, we attack him psychologically by means of propaganda and by other efficacious devices, and we attack him chemically by means of powerful reagents. The resulting horrors are obviously not to be ascribed to psychology and to chemistry, for these are sciences, neither for harm nor for good, but simply for the better understanding of certain aspects of the world in which we find ourselves.

It has been said that "an army travels on its stomach." We cannot have meat unless we have vegetation upon which the animals may feed, and we cannot have vegetation unless there is chemically combined nitrogen in the soil for food for plants. An army then travels upon its nitrogen. While the amount of uncombined nitrogen in the atmosphere is unlimited, the amount of combined nitrogen available for use by plants is frequently meager. Soils require to be fertilized. The greatest accomplishment of chemistry then would seem to be that it has brought mankind into the present Nitrogen Age and has taught him how to fix the nitrogen of the atmosphere in the form of ammonia and nitrates for use in fertilizers.

Without powder and explosives serious physical damage cannot be done to an enemy, the powerful reagents of chemical warfare cannot be brought into play, propaganda and other psychological agents cannot be made effective. Since all useful powders and explosives are manufactured from ammonia or from nitrates as raw materials, it appears that an army fights by means of its nitrogen.

Warfare becomes increasingly a matter of intelligence. While admitting the dependence of intelligence upon heredity, stimulating environment, etc., we find nevertheless that there is a chemical something without which there can be no thinking. Since the gray matter of the nerves and brain is made up of carbon compounds of phosphorus and nitrogen, it appears that without nitrogenous foods there can be no thinking - and an army thinks with its nitrogen. Whatever may have been the case in Boerhaave's day, in the present Nitrogen Age it is certainly true that "the chief support of war must now be sought in chemistry." It may be that chemistry is more important than money, for without nitrogen we can have no food, no powder, and even no ideas about the matter.

DEADLY GAS PROTECTS CASE OF COSTLY PLUMES OF RARE BIRD.

From Baltimore American, July 31, 1925.- Deadly war gas yesterday protected a case containing a valuable collection of plumes of the bird of Paradise and other rare fowls installed on the second floor of the Maryland Academy of Sciences, 105 West Franklin Street.

A sign on the outside of the case warns that "to open this case is to court death." It tells any prospective thief that gas protects the exhibit and that the plumes also have been poisoned as to make them dangerous to handle.

When the collection was installed yesterday Dr. Francis C. Nicholas, dean of the academy, remembering the theft of a stuffed bird of Paradise, valued at \$350, in 1923, took this means of protection.

LECTURE DELIVERED TO NEW YORK POLICE DEPARTMENT AT CAMP PEEKSKILL.

By Capt. Adrion St. John, C.W.S.

The New York Police and particularly the Riot Battalion is concerned mostly with mass domestic disturbances, which naturally lead to the operation of mobs and to riots both large and small. It is my intention to make a few remarks on the general conditions that promote domestic disturbance and lead to mob formation; then to cover the operation and formation of mobs in general and finish up by a few remarks on how to control mobs and riots by the use of chemical agents.

You perhaps know that it would be an extremely rare occasion when federal troops would be called in and martial law declared. When such a condition does arise the martial law puts the control of the situation entirely in the hands of the military and the police are only called in to handle the ordinary civil crimes. This is not the condition, however, with which the United States is most familiar. Federal troops are seldom called in and federal martial law hardly ever declared and for that reason we will not concern ourselves with martial law conditions. The most likely condition is where the situation is not entirely beyond the control of state and city authorities, but where the assistance of the military is advisable and is called in mostly for its moral effect and of course to be present in case more dangerous conditions may develop.

In such cases the police and the military work hand in hand. Examples of such cases that I am personally familiar with are the negro riots in Washington, the powder strike in Glens Falls and the Mingo Co. mine disturbances, all of which will be covered later.

The American people are always so certain that their country and government is secure; that no large disturbance could ever gain headway, that they refuse to prepare for what they call such an unlikely condition. Large riots and disturbances have occurred all through European countries. The momentum has not reached the U.S. yet, but it will eventually, because the conditions that produce the disturbance are now present. It is essential that we be prepared to meet it when it arrives.

Covering the situation briefly we may say that all the radical organizations are divided into two broad classes (a) political, (b) industrial. The first class seek to influence the government by obtaining control of the political machinery, the second class attempt to influence by obtaining control of industry. There are sections of both classes which advocate the use of force and violence to overthrow the existing government and these sections are operating illegally, not because the things sought are necessarily improper, but because the means to be employed are repugnant to the Constitution and By-Laws of the United States. The illegality is not dependent on the actual use of illegal means, the mere advocated use of force against the government is sufficient. The Department of Justice in 1920 caused many arrests which were upheld by the courts on the mere fact that the propaganda advocated the overthrow

of the Government by force and violence. This is sufficient precedent for all arrests of a similar character.

The latest figures on the radical man power of the country is as follows:

380,000 members of true type radical organizations,

322,000 members of semi-radical organizations,

200,000 non-enrolled adherents of the above groups.

In addition to the above figures are the undetermined classes that are likely to join with any radical movement once started. There are 40,000 unorganized aliens, 50,000 unorganized criminals and a guess of 50,000 uncertain elements making a total of 1,042,000 whom the government would have to contend with once a radical outbreak was well under way. This number would concern the police of the country for perhaps three months before the legal machinery would permit the use of the Regular Army and perhaps 9 months before martial law could be definitely declared in any area. The outbreaks from such organizations works along gradually and it is only after they have real force and are really dangerous to the federal government that a call is made for federal troops.

The earlier any uprisings are attacked, the greater the ease of suppressing them. This is historically proven by the handling of the Communists in Germany and the handling of them in certain sections of Italy and it is clearly proven how delayed action meets with failure when we consider the experience of Russia where no corrective measures were taken until the government was practically overthrown. The localities which are regarded as the most likely for violent revolutionary activities are Chicago, Cleveland, New York, Seattle and San Francisco. Other localities likely to be involved are Boston, Buffalo, Pittsburgh, Dayton and Baltimore.

The proportion of radical sympathizers in essential industries and public utilities are 20%; with the highest number enrolled among the coal miners, longshoremen, amalgated clothing workers, railway track men and yard men, silk workers and metal trade workers. The most dangerous seat of disturbance is always in large cities which have a high percentage of foreigners. Such a condition furnishes a fertile field for the spread of the necessary propaganda, which is usually put out in the language that the foreigners understand and cannot be very well refuted by counter propaganda in the daily press because it could not be read and understood. This in a brief way covers the existing conditions which may at some future date breed domestic disturbances and riots.

The conditions prior to the gathering of the mob or the start of rioting is a function, we may say, of statecraft or the judiciary department. During and after the formation of the mob the entire situation must be turned over to the police and the military, the military in the early stages of course being the National Guard.

The formation of large mobs which have any semblance of organization are rarely spontaneous, although a large number of the people joining the mob may join in a moment of super-enthusiasm. The leaders and a large percentage of the assemblage always have a definite

aim and method of conduct. Strange as it may seem the most intense and the most vitally interested units of the mob are rarely in the front, they are usually in the rear and center pushing forward and urging on the less enthusiastic members. There is normally, of course, a few of the real leaders at the head. This is a point to remember because when you attack the head of the mob column it may try to break, but the vital nucleus in the center and rear hold them in place and make the breaking up difficult. This system of mob formation was employed back in the early days of the French Revolution and has been used to a certain extent ever since. The mobs in West Virginia in 1921 during the mining disturbances followed this system to a certain extent, but since no direct attack was made it is difficult to analyze how they would have operated.

EQUIPMENT - The equipment for regular troops for riot duty is Machine Guns, 3" mortars, aeroplanes, tanks and armoured cars, and Chemical Warfare materiel such as Grenades, Candles and Cylinders and the standard equipment of the individual soldier, the rifle being replaced here and there with the standard riot shot gun. The ammunition for the rifles, machine guns, etc., should be mostly of reduced charges because all the work will be at close range and the full charged ammunition might be dangerous to disinterested parties.

Tanks and the armoured cars are very useful in cleaning up detached groups, breaking down barricades in streets, etc., a beam can be strapped across the front and the street cleared very rapidly, or a beam may be strapped to a tank going slow and used as a battering ram to clear barricades. They can be put out of commission easily by hurling charges of explosives from the roofs, but it is rare that a mob would have such material. (Mentioned because accomplished in Italy). The aeroplanes are very valuable for reconnaissance and for keeping riflemen off roofs, etc., they should never be given the open mission of machine gunning formations and groups especially since mobwork is scattered as it usually is in the cities. The machine guns and mortars should be used against mobs which have taken up a defensive position and plan to hold out. The chemical materiel can be used against all bodies of the mob in movement. Whenever used against defensive positions their use should be coordinated with the use of all other weapons, a haphazard attack with only part force is always an error.

Before going into the tactics to be employed against mobs it would be well to define both crowds and mobs since they are radically different in composition and operation. A crowd is a group or a number of separate groups which is or may be disorderly and inclined to violence, but which has not as yet lost its sense of fear. A crowd lacks organization and unity of purpose. It is cowardly, hesitates to commit unrestrained violence and while kept in hand retains its collective cowardice and so remains a crowd instead of a mob. When the controlling forces weaken and some striking feature wipes out the collective cowardice the group is transformed immediately into a mob. This crisis may be brought about by an act of audacious violence, a fiery speech by a leader, the appearance of

some conspicuous or hated person, and many other inciting events. A mob is distinguished by the fact that under the stimulus of intense excitement its members have lost all sense of the fear of law and can only be brought to their senses by an over-powering demonstration of force. There are two classes of mobs, organized mobs and unorganized mobs. The police are primarily concerned with crowds and unorganized mobs. Whenever an organized mob of large numbers is formed it is practically always necessary to call on the military.

CROWD TACTICS - Firearms should not be used if other suitable weapons are available, the officers of the law, either police or soldiers can always come in close contact with the crowd. Clubs may be used and ropes may be employed to divide the crowd into sections; i.e., a rope may be run through the center of the crowd and then pulled in one direction, separating the crowd into two parts. A stream of water from a fireman's hose is quite effective. Operations against one flank and rear simultaneously are also effective. It is always well in dealing with a group to remember that it may be a mob in a few seconds and therefore a reserve armed with rifles, shotguns, etc., should always be provided. Once the crowd is broken up it is necessary to keep it moving. Patrols must be detailed to follow up the groups and to force the groups to subdivide and keep them from re-collecting. Any persons who stand out as prospective leaders or seem to be trying to excite the crowd should be arrested or hustled away. The use of the non-fragmenting Lachrymator Grenade is probably the best weapon known for the early dispersion of a crowd. In the use of this Grenade the crowd should not be thoroughly gassed, it should be given every opportunity to split up, no effort should be made to hem it in or gas it on all sides because the object is to get the greatest amount of dispersion. It is believed that not more than 5 or 6 grenades to the windward should be used in breaking up a crowd of 500 or 600 persons. You will note that tactics employed when we are dealing with both organized and unorganized mobs is radically different from the tactics applied to crowds, and this difference in method is entirely due to the element that psychologists call collective fear.

MOB TACTICS - The methods to be employed against mobs are different from that required against crowds, less dispersion of force is permitted. More force must be used and it must be used in a determined manner and kept well in hand at all times.

Under our law a Presidential Proclamation is required when Federal Troops are employed, but it is always well for every commander in dealing with mobs to issue some sort of a proclamation urging the mob or insurgents to disperse within a definite time. The mob should always be commanded to disperse and given sufficient time to do so before force is applied. On the other hand a mob must not be talked to, bullied or bluffed and above all it must not be threatened or dared.

Generally a mob should be attacked on only one flank, dependent on the direction it is desired to move it. In addition to this flank attack it may be held from advancing in the front or loitering

in the rear, but it should not be penned up as the mission is to disperse it and not to confine it. Rarely should the mob be held back on more than two sides. Experience has shown that many times an attack on the front is bad tactics because although the personnel in the front may wish to retreat, the non-affected persons in the rear will not permit retirement. Therefore the logical method is to hold fast in the front, attack in the rear with force and permit the mob to disperse on both flanks. A mob should be fired on only as a last resort, but when that time comes there should be no temporising. The aim should be low so as to miss vital organs and also not hit innocent persons assembled toward the rear. The number of shots used should never be greater than is absolutely necessary. Blank cartridges should never be used nor should a volley be fired over the heads of the mob as such actions are an admission of weakness and an attempt at bluff. When firing is decided upon every effort should be made to injure persons in the mob as it is only by casualties that the element of fear can be installed once more.

When employing chemicals against an unorganized mob the procedure should be to place a few Candles or Lachrymator Grenades to the windward of the mob so as to catch the center and rear. After the gas has reached this portion of the mob a determined attack on the front using more Lachrymator Grenades, or if necessary the Lachrymator Cylinders and a few White Phosphorus Grenades which are extremely dangerous and produce casualties. This attack on the front should be the climax to breaking up the mob. The Lachrymators fired on the center and rear are used earlier in order to release the pressure and give the front a chance to break when the main blow is struck. In employing chemicals, of course, it must be remembered that the wind is a vital factor in determining the direction of the attack.

Cavalry may be used and is very effective against mobs fairly well formed up in the open. It always has the effect of breaking up the mob and keeping it on the move.

Rioters in the houses may be driven out by the use of the Rifle Lachrymator Grenades fired in through windows or if it is possible to approach the house by dropping Hand Grenades or Candles down chimneys or through sky-lights. Once the process of clearing is started it must be followed through from room to room.

In retaking cities or large localities that are held by rioters or the radical element the following procedure has met with the greatest results, both in Germany and Italy where they have been tried. The American Government has not yet had a situation demanding such tactics. In December, 1918 and January, 1919, Germany lost control of a number of large cities, the Reds established control and from the large number of returning soldiers were able to defend the cities remarkably well. These Reds or Communists were furnished with large quantities of Rifles, Hand Grenades, Machine Guns and plenty of ammunition.

In such situations we must understand that the rioting force

were well organized and well armed and understood in a general way minor tactics. Between Jan. 1 and April 1st, Halle, Magdurg, Brunswick, Leipzig and many other cities were taken in the following manner: - Insincere negotiations were opened up with the Communists and offers of compromise made. Since the Communists or radical element follow the announced policy of never standing back of agreements the attacking force used the same policy and after a week or ten days of negotiations suddenly would make an assault. The attacking forces were drilled and well organized a considerable distance from the cities to be attacked. They were dismissed from the training areas with instructions to assemble individually at definite localities close to the city to be captured. The assembly in this way was sudden and fairly secret, giving the riot detachment only about 24 hours notice of the formations going on in their locality. In nearly every case two columns marched on the city and these columns were rarely more than a mile apart and always in close communication, one with another. The city was rarely attacked in this fashion on more than one side. The formation was approximately as follows: - three to six aeroplanes flying low preceded the column with the primary mission of spotting all groups of Communists, rioters on roofs, barricades, etc., and signal back the facts to the attacking columns. Here and there they fired on rioters on roofs.

Leading the ground troops came armoured cars - usually heavy trucks covered with sheet iron and manned with machine guns. Then came the Infantry with machine guns and many Hand Grenades. Artillery followed, but was rarely used. The attacking force cleaned up thoroughly each area that it struck, except that it segregated any well defended area and left that completely alone until most of the smaller defended sections had been captured. They then found that the strongly defended area would have to surrender because it was thoroughly surrounded.

In Italy the tactics were somewhat similar except that Cavalry was used to a greater extent. I observed the following tactics against crowds and riots in Rome and Milan during 1919.

USE OF CHEMICALS - Lachrymators are without any question the most satisfactory weapon to be employed against crowds and unorganized mobs. The Lachrymators are put in the form of Hand Grenades and Rifle Grenades, Candles, Stokes Mortar Bombs, Aviation Bombs and for extremely heavy doses may be loaded in Cylinders.

CHEMISTS PROTEST BAN ON POISON GAS.

From Baltimore American, August 5, 1925.- Los Angeles, Cal. Aug. 4. The ban on poison gas pronounced by the Geneva Conference was denounced today by the executive committee of the American Chemical Society as a menace to national safety and to humanity.

The committee at the annual meeting of the society, declared in a resolution that pacifists were seeking to undermine national defense. Prohibition of chemical warfare, the resolutions said, means the abandonment of humane methods for the old horrors of attack.

CHANGES - CHEMICAL WARFARE OFFICERS' RESERVE CORPS.

| <u>NAME AND RANK</u> | <u>ASSIGNMENT JURISDICTION</u> | <u>REMARKS</u> |
|------------------------|------------------------------------|---|
| COLONELS | | |
| Burrell, George A. | O.C.,CWS | 120 Ruskin Apts., Pittsburgh, Pa. Apptd. 5/19/25; acctpd. 6/8/25. BA Group, Technical Div., OC-CWS. |
| Chadbourne, William M. | O.C.,CWS | Add. chgd. from: W. 54th St., New York City, to: 165 Broadway, New York City. BA Group, Supply Div., OC-CWS. |
| LT. COLONELS | | |
| Bancroft, Wilder D. | O.C.,CWS | 7 East Avenue, Ithaca, N.Y. Apptd. 6/29/25; acctpd. 7/11/25. BA Group, Edgewood Arsenal. |
| Bingham, Eugene C. | O.C.,CWS | Lafayette College, Easton, Pa. Apptd. 3/26/25; acctpd. 3/31/25. BA Group, Edgewood Arsenal. |
| Corry, Edwin E. | 1st C.A. | Add. chgd. from: U.S. Engr. Office, Burwood, La. to: U.S. Engr. Office, 13th Floor, Custom House, Boston, Mass. TA Group. |
| Hunt, George A. | 9th C.A. | Add. chgd. from: 245 Market St., San Francisco, Cal. to: 5369 Broadway, Oakland, Cal. TA Group. |
| Lowenstein, Arthur | O.C.,CWS | Add. chgd. from: 5132 Greenwood Ave., Chicago, Ill. to: 4100 So. Ashland Ave., Chicago, Ill. BA Group, Tech. Div., OC-CWS. |
| McCullough, Ernest | 2nd C.A. | Old perm. add. 43 Broad St., New York City. Old temp. add. to be discontinued: Africa House, Kingsway, London, W.C. 2; New perm. add.: 4123 Carolin St., Long Island City, N.Y. TA Group. |
| Mills, James E. | O.C.,CWS | Edgewood, Md., Apptd. 3/14/25; acctpd. 3/21/25. BA Group, Edgewood Arsenal. |
| Richter, George A. | O.C.,CWS | 158 Prospect St., Berlin, N.H. Apptd. 5/23/25; acctpd. 6/5/25. BA Group, Tech. Div., OC-CWS. |
| Rohde, Leo M. | 1st C.A. | Add. chgd. from: 15 Elm St., West Springfield, Mass. to: 62 Randolph Ave., Waterbury, Conn. TA Group. |

| <u>NAME AND RANK</u> | <u>ASSIGNMENT JURISDICTION</u> | <u>REMARKS</u> |
|-----------------------|--------------------------------|---|
| LT. COLONELS (Cont'd) | | |
| Sibert, William O. | 2nd C.A. | 10 Park Ave., Bloomfield, N.J. Trans. from BA Group, Replace. Center, E:A. to TA Group, 8/4/25. |
| Tolman, Lucius M. | O.C., CWS | 7217 Yale Ave., Chicago, Ill. Apptd. 7/20/25; acptd. 7/31/25. BA Group, Edgewood Arsenal. |
| MAJORS | | |
| Abrams, Allen | O.C., CWS | Cornell, Wis. Prom. from Captain 7/1/25. BA Group, Chem. Div., E.A. |
| Akers, James C. | 4th C.A. | Add. chgd. from: 1503 Broadway, Nashville, Tenn. to: 1006 - 17th Ave., South, Nashville, Tenn. TA Group. |
| Cade, William R. | O.C., CWS | 3719 S. Street, N.W., Washington, D.C. Apptd. 7/10/25; acptd. 7/20/25. BA Group, Edgewood Arsenal. |
| Cramer, William B. | O.C., CWS | 412 Campbell St., Warren, Ariz. Apptd. 3/24/25; acptd. 4/2/25. BA Group, Edgewood Arsenal. |
| Esselen, Gustavus J. | O.C., CWS | 437 Puritan Road, Swampscott, Mass. Apptd. 5/19/25; acptd. 5/26/25. BA Group, Tech. Div., OC-CWS. |
| Essex, Jesse L. | O.C., CWS | 610 South Washington St., Crawfordsville, Ind. Apptd. 7/6/25; acptd. 7/16/25. BA Group, Edgewood Arsenal. |
| Freud, Benjamin B. | O.C., CWS | 1242 Rosedale Ave., Chicago, Ill. Apptd. 7/22/25; acptd. 7/30/25. BA Group, Edgewood Arsenal. |
| Garner, Harrison L. | 6th C.A. | Add. chgd. from: 1 East Main St., Madison, Wis. to: 4 South Carroll St., Madison, Wis. TA Group. |
| Heaton, Wilbur M. | O.C., CWS | 609 W. 14th St., Pueblo, Colo. Trans. from Med-Res 4/25/25. BA Group, Edgewood Arsenal. |
| Hine, Thomas B. | Unassigned | 229 Lawn Ave., Western Springs, Ill. Apptd. 7/27/25; acptd. 8/15/25. |
| Kendall, William E. | O.C., CWS | 228 So. Ridgeland Ave., Oak Park, Ill. BA Group, Trans. from Medical Div., OC-CWS to Edgewood Arsenal. |

| <u>NAME AND RANK</u> | <u>ASSIGNMENT JURISDICTION</u> | <u>REMARKS</u> |
|----------------------|--------------------------------|--|
| MAJORS (Cont'd) | | |
| Lawrence R. B. | O.C., CWS | BA Group, Tech. Div., OC-CWS. Add. chgd. from: 62 No. Harrison Ave., Bellevue, Pittsburgh, Pa. to: 402 Fairfax Road, Battery Park, Bethesda, Md. |
| McArthur, Leslie | O.C., CWS | 200 Oxford Ave., Kenilworth, Ill. Apptd. 5/25/25; accptd. 6/4/25. BA Group, 4th CWS Procurement Dist. |
| McGuigan, Hugh A. | O.C., CWS | 2315 Sherman Ave., Evanston, Ill. Apptd. 7/6/25; accptd. 7/15/25. BA Group, Edgewood Arsenal. |
| Namm, Benjamin H. | O.C., CWS | Add. chgd. from: Hotel Ambassador, New York City, to: 452 Fulton St., Brooklyn, N.Y. BA Group, 2nd CWS Procurement Dist. |
| Popp, Earl C. | 1st C.A. | Add. chgd. from: 14 Allen Ave., Westfield, Mass. to: 33 Day Ave., Westfield, Mass. TA Group. |
| Rowe, Donald H. | 9th C.A. | Add. chgd. from: 661 Multomah St., Portland, Ore. to 230 Worcester Bldg., Portland, Ore. TA Group. |
| Shockley, Homer G. | O.C., CWS | Add. chgd. from: 101 Crescent Ave., Great Hills, S.I., N.Y. to: c/o Geo. B. Hills Co., Chosen, Fla. BA Group, Training Div., OC-CWS. |
| Supple, Lee F. | O.C., CWS | 1949 Lakeside Place, Ravinia, Ill. Apptd. 7/27/25; accptd. 8/4/25. BA Group, Edgewood Arsenal. |
| Thiele, Ludwig A. | O.C., CWS | 127 So. 7th St., Upper Sandusky, O. Apptd. 3/20/25; accptd. 3/28/25. BA Group, Edgewood Arsenal. |
| Thompson, Louis E. | O.C., CWS | Add. chgd. from: Marland Oil Co., Ponca City, Okla. to: 401 No. 10th St., Ponca City, Okla. BA Group, Prod. Div., E.A. |
| Trumbull, Harlan L. | Unassigned | Box 464, Hudson, Ohio. Apptd. 8/11/25; accptd. 8/25/25. |
| Walton, James H. | O.C., CWS | Add. chgd. from: Univ. of Wisconsin, Madison, Wis. to: 2152 W. Lawn Ave., Madison Wis. BA Group, C.W. School. |

| <u>NAME AND RANK</u> | <u>ASSIGNMENT JURISDICTION</u> | <u>REMARKS</u> |
|------------------------|--------------------------------|---|
| MAJORS (Cont'd) | | |
| Weaver, Fleming R. | O.C., CWS | Edgewood Arsenal, Edgewood, Md. Prom. from Captain 8/19/25. BA Group, Mech. Div., E.A. |
| Witten, George W. B. | 2nd C.A. | Apptd. 6/11/25; acpptd. 6/11/25. 146 E. 35th St., New York City. TA Group. |
| CAPTAINS | | |
| Barnes, Otis A. | O.C., CWS | Add. chgd. from: Univ. of Utah, Salt Lake City, Utah to: Colorado College, Colorado Springs, Colo. BA Group, Chem. Div., E.A. |
| Brown, Brian S. | O.C., CWS | c/o Georgia Rosin Products Co., Brunswick, Ga. Apptd. 7/3/25; acpptd. 7/8/25. BA Group, Edgewood Arsenal. |
| Bullard, Edward W. | O.C., CWS | 2901 Pierce St., San Francisco, Cal. Apptd. 5/29/25; acpptd. 7/9/25. BA Group, 5th CWS Proc. Dist. |
| Byrne, Samuel A. | Haw. Dept. | c/o Hawaiian Med. Depot., Ft. Armstrong, H.T. Trans. to Med. Res. 8/6/25. TA Group. |
| Carp, Fred | O.C., CWS | Route #6, Wichita, Kas. Apptd. 4/13/25; acpptd. 5/6/25. BA Group, School Bn., E.A. |
| Chaine, Vincent M. | Unassigned | 196 Cambridge St., Boston, Mass. Apptd. 6/20/25; acpptd. 7/31/25. |
| Chittick, Martin B. | O.C., CWS | Add. chgd. from: 3219 Lyndale Ave., So., Minneapolis, Minn. To: c/o Pure Oil Co., Cincinnati, O. BA Group, C.W. School, E.A. |
| Clark, Jay R. | O.C., CWS | 941 Naples St., San Francisco, Cal. Apptd. 5/11/25; acpptd. 5/25/25. BA Group, 5th CWS Procurement Dist. |
| Colley, Reginald F.E. | O.C., CWS | c/o Asso. Adv. Clubs of the World, 383 Madison Ave., New York City. Trans. from Inf-Res. 7/14/25. BA Group, Edgewood Arsenal. |
| Crede, William H. | O.C., CWS | U.S. Veterans Bureau, Camp Kearney, Cal. Apptd. 6/5/25; acpptd. 7/15/25. BA Group, Edgewood Arsenal. |
| Eliot, Charles B. | O.C., CWS | 25 Lynn Fells Parkway, Melrose, Mass. Apptd. 5/15/25; acpptd. 5/18/25. BA Group, E. A. |

| <u>NAME AND RANK</u> | <u>ASSIGNMENT JURISDICTION</u> | <u>REMARKS</u> |
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| CAPTAINS (Cont'd) | | |
| Evans, Sylvester M. | O.C., CWS | Add. chgd. from: 618 Fountain St., Havre de Grace, Md. to: 313 No. Union Ave., Havre de Grace, Md. BA Group, School Bn., E. A. |
| Fox, Joseph E. | 9th C.A. | 480 Hobart St, Oakland, Cal. Trans. from Inf-Res 8/15/25. TA Group. |
| Freas, Raymond | O.C., CWS | Add. chgd. from: Dept of Chemistry, L.S.U., Baton Rouge, La. to: RFD #2, Baton Rouge, La. BA Group, Chem. Div., E.A. |
| Harrouff, Earl R. | O.C., CWS | 11th Floor, A.O.U.W. Bldg., Little Rock, Ark. Apptd. 6/24/25; acctd. 7/2/25. BA Group, Edgewood Arsenal. |
| Herrick, Horace T. | O.C., CWS | Add. chgd. from: 1003 La Belle Ave., Steubenville, O. to: 8545 - 115th St., Richmond Hill, N.Y. Apptd. 5/18/25; acctd. 6/6/25. BA Group, Tech. Div., OC-CWS. |
| Howson, Charles E. | 3rd C.A. | Div. 31, U.S. Patent Office, Washington, D.C. Apptd. 5/23/25; acctd. 6/1/25. TA Group. |
| Hurd, Lester W. | 9th C.A. | 3125 Arkansas St., Oakland, Cal. Trans. from Engr.-Res. 8/15/25. TA Group. |
| Hutchman, James E. | O.C., CWS | 1849 No. 4th St., Columbus, O. Apptd. 6/20/25; acctd. 6/25/25. BA Group, Edgewood Arsenal. |
| Jackson, Vestus T. | O.C., CWS | 415 So. 9th St., Gainesville, Fla. Apptd. 4/27/25; acctd. 5/4/25. BA Group, Edgewood Arsenal. |
| Johnson, Frank R. | Unassigned | 908 W. 76th St., Chicago, Ill. Apptd. 8/10/25; acctd. 8/18/25. |
| Johnson, William S. | O.C., CWS | 542 W. 112th St., New York City. Apptd. 4/7/25; acctd. 4/13/25. BA Group, Edgewood Arsenal. |
| Killeffer, David H. | O.C., CWS | 52 E. 41st St., New York City. Apptd. 3/19/25; acctd. 3/25/25. BA Group, Edgewood Arsenal. |
| Ligorio, Cosmo | O.C., CWS | 2b King St., New York City. Temp. add. to 12/1/25: Ceglie Messapice, Lecce, Italy. Apptd. 5/20/25; acctd. 5/27/25. BA Group, Technical Div., OC-CWS. |

| <u>NAME AND RANK</u> | <u>ASSIGNMENT JURISDICTION</u> | <u>REMARKS</u> |
|-----------------------|------------------------------------|---|
| CAPTAINS (Cont'd) | | |
| Loehwing, Walter F. | O.C., CWS | Add. chgd. from: 6006 Eberhart Ave., Chicago, Ill. to: Johnsville, Cal. BA Group, Chemical Div., E.A. |
| McElvain, Samuel M. | Unassigned | University Club, Madison, Wis. Apptd. 7/10/25; accptd. 8/12/25. |
| Manning, John R. | O.C., CWS | 1109 A.O.U.W. Bldg., Little Rock, Ark. Apptd. 2/26/25; accptd. 3/12/25. BA Group, Edgewood Arsenal. |
| Odland, Theodore E. | O.C., CWS | West Virginia University, Morgantown, W. Va. Apptd. 6/26/25 accptd. 7/3/25. BA Group, Edgewood Arsenal. |
| Phelps, Raymond A. | O.C., CWS | 58 Polk St., Oshkosh, Wis. Apptd. 5/22/25; accptd. 6/1/25. BA Group, Edgewood Arsenal. |
| Racicot, Phileas A. | O.C., CWS | Add. chgd. from: 12 Maple Ave., Somerville, Mass. to: 151 Charles St., Boston, Mass. BA Group, Mech. Div., E.A. |
| Ragsdale, Oren M. | Unassigned | Golden Hill, Indianapolis, Ind Apptd. 8/10/25; accptd. 8/19/25. |
| Rogers, Charles H. | 7th C.A. | 819 University Ave., S.E., Minneapolis, Minn. Trans. from BA Group, Tech. Div., OC-CWS to TA Group. |
| Ruby, George B. | O.C., CWS | Add. chgd. from: 1515 3rd St., Beaver, Pa. to: 90 Oak St., Aurora, Ill. BA Group, Prod. Div., E.A. |
| Seth, George L. | O.C., CWS | Add. chgd. from: 1112 Leclair Ave., Pittsburgh, Pa. to: 400 Elmwood Ave., Buffalo, N.Y. BA Group, 3rd CWS Procurement Dist. |
| Sharpe, Harold C. | O.C., CWS | 5222 W. Ohio St., Chicago, Ill. Trans. from CW-Res to CA-Res 7/7/25. BA Group, Prop. Div., E.A. |
| Silver, Frank V. | O.C., CWS | 3755 Rokeby St., Apt. 2, Chicago, Ill. Prom. from 1st Lt. 6/23/25. BA Group, Chem. Div., E.A. |
| Simmons, Hezzleton E. | 5th C.A. | 331 Beechwood Drive, Akron, Ohio. Apptd. 6/25/25; accptd. 7/27/25. TA Group. |

| <u>NAME AND RANK</u> | <u>ASSIGNMENT JURISDICTION</u> | <u>REMARKS</u> |
|-----------------------|------------------------------------|--|
| CAPTAINS (Cont'd) | | |
| Stiegler, Harold W. | O.C., CWS | 535 Howard St., Lawrence, Mass. Apptd. 4/3/25; acpctd. 4/13/25. BA Group, Edgewood Arsenal. |
| Streeter, Elford D. | O.C., CWS | Add. chgd. from: Box 671, Port Arthur, Texas. to: 3447 - 7th St., Port Arthur, Texas. BA Group, Edgewood Arsenal. |
| Sturgeon, Harry E. | O.C., CWS | Clinton, S.C. Trans. from TA Group to BA Group, Edgewood Arsenal. |
| Valentine, Howard D. | 6th C.A. | Add. chgd. from: 122 So. Michigan Blvd., Chicago, Ill. to: Room 319, Peoples Gas Bldg., Chicago, Ill. TA Group. |
| Van Riper, Willard F. | O.C., CWS | 5 Crawford Circle, Wilmington, Del. Apptd. 5/12/25; acpctd. 6/27/25. BA Group, Ind. Rel. Div., OC-CWS. |
| Van Tassel, Edward D. | O.C., CWS | 199 Forest St., Medford, Mass. Apptd. 3/18/25; acpctd. 3/25/25. BA Group, Edgewood Arsenal. |
| Walton, George P. | O.C., CWS | 6008 - 33rd St., Chevy Chase, D.C. Apptd. 6/8/25; acpctd. 6/17/25. BA Group, E.A. |
| Zimmerman, Arthur C. | O.C., CWS | 1143 Demphle Ave., Dayton, O. Apptd. 4/9/25; acpctd. 4/17/25. BA Group, Edgewood Arsenal. |
| FIRST LIEUTENANTS | | |
| Acker, Lewis F. | 3rd C.A. | Add. chgd. from: 2 Wellsford St., Oakland Station, Pittsburgh, Pa. to: 3831 Dawson St., Oakland Station, Pittsburgh, Pa. |
| Alley, John D. | O.C., CWS | 544 Celeron St., Pittsburgh, Pa. Apptd. 3/6/25; acpctd. 3/16/25. BA Group, 3rd CWS Procurement Dist. |
| Ballam, George A. | O.C., CWS | Add. chgd. from: 1145 Sherman Ave., Madison, Wis. to: 134 So. Superior St., Antigo, Wis. BA Group, Chem. Div., E.A. |
| Beam, Raymond O. | O.C., CWS | 119 E. Liberty St., Punxsutawney, Pa. Apptd. 3/13/25; acpctd. 3/21/25. BA Group, Mech. Div., E.A. |
| Beckstrom, Robert C. | O.C., CWS | Add. chgd. from: 1200 - 12th St., Golden Colo. to: 1215 - 16th St., Golden, Colo. BA Group, Chem. Div., E.A. |

| <u>NAME AND RANK</u> | <u>ASSIGNMENT JURISDICTION</u> | <u>REMARKS</u> |
|----------------------------|------------------------------------|--|
| FIRST LIEUTENANTS (Cont'd) | | |
| Burt, Roy A. | O.C., CWS | Add. chgd. from: 902 Land Bank Bldg., Kansas City, Mo. to: 309 Lank Bank Bldg., Kansas City, Mo. BA Group, School Bn., E.A. |
| Bray, John R. | O.C., CWS | Buena Vista, Colo. Apptd. 3/26/25; accptd. 4/20/25. BA Group, Edgewood Arsenal. |
| Carthaus, William J. | O.C., CWS | 406 E. 9th St., Alton, Ill. Apptd. 3/21/25; accptd. 3/28/25. BA Group, School Bn., E.A. |
| Comley, Roy C. | O.C., CWS | Add. chgd. from: c/o G. H. Elmore, Wesley Bldg., Phila., Pa. to: c/o G.H. Elmore, Schaff Bldg., Phila., Pa. BA Group, School Bn., E.A. |
| Currie, Lauchlin M. | O.C., CWS | Add. chgd. from: 116 Oak Ave., Ithaca, N.Y. to: 1280 N. 73rd St., Cleveland, O. BA Group, Chem. Div., E.A. |
| Dalot, Arthur J. | 1st C.A. | Add. chgd. from: Bayville, N.J. to Addison, Maine. TA Group. |
| Denton, Samuel A. | O.C., CWS | Add. chgd. from: C.W.S., Ft. Sheridan, Ill. to: C.W.S., Jefferson Bks., Mo. BA Group. |
| Drake, Lloyd B. | O.C., CWS | Junior College, Miami, Okla. Apptd. 3/16/25; accptd. 4/6/25. BA Group, C.W. School, E.A. |
| Earlenbaugh, Lawrence E. | O.C., CWS | 624 Walnut St., Leavenworth, Kas. Apptd. 5/23/25; accptd. 6/12/25. BA Group, Edgewood Arsenal. |
| Edmunds, Norman | 1st C.A. | Add. chgd. from: 93 Burrill St., Swampscott, Mass. to: 100 Stetson Ave., Swampscott, Mass. TA Group. |
| Goodwin, Robert C. | O.C., CWS | 33 Conant Hall, Cambridge, Mass. Apptd. 7/23/25; accptd. 7/28/25. BA Group, Edgewood Arsenal. |
| Gould, Edward A. | Unassigned | 7630 Colfax Ave., Chicago, Ill. Apptd. 8/14/25; accptd. 8/21/25. |
| Hampton, George W. | O.C., CWS | Box 423, Boulder, Colo. Apptd. 4/18/25; accptd. 4/24/25. BA Group, Edgewood Arsenal. |
| Harris, Loyd E. | O.C., CWS | 303 Princeton Ave., Madison, Wis. Apptd. 3/2/25; accptd. 3/13/25. BA Group, Edgewood Arsenal. |

| <u>NAME AND RANK</u> | <u>ASSIGNMENT JURISDICTION</u> | <u>REMARKS</u> |
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| FIRST LIEUTENANTS (Cont'd) | | |
| Horne, Orlin D. | O.C., CWS | 711 Marland Drive, Ponca City, Okla. Apptd. 6/27/25; acctd. 7/14/25. BA Group, Edgewood Arsenal. |
| Huntley, Otto E. | O.C., CWS | 3750 No. Kildare Ave., Chicago, Ill. Apptd. 4/18/25, acctd. 4/23/25. BA Group, Edgewood Arsenal. |
| Jenkins, Glenn L. | O.C., CWS | 803 State St., Madison, Wis. Apptd. 6/25/25; acctd. 7/2/25. BA Group, Edgewood Arsenal. |
| Lerner, Hay S. | 9th C.A. | Add. chgd. from: 201 Citizens Savings Bank Bldg., Pasadena, Cal. to: Elks Club, Pasadena, Cal. TA Group. |
| Marshall, Fred A. | 9th C.A. | 1244 Evelyn Ave., Berkeley, Cal. Apptd. 5/9/25; acctd. 6/11/25. TA Group. |
| Meharg, Virgil E. | O.C., CWS | 7048 No. Paulina St., Chicago, Ill. Apptd. 6/27/25; acctd. 8/1/25. BA Group, Edgewood Arsenal. |
| Moore, William A. | 5th C.A. | University of Akron, Akron, O. Apptd. 6/25/25; acctd. 7/10/25. TA Group. |
| Noble, Royce J. | O.C., CWS | 133 Mt. Vernon St., Malden, Mass. Apptd. 7/6/25; acctd. 7/21/25. BA Group, Edgewood Arsenal. |
| Perkins, Melville F. | O.C., CWS | Add. chgd. from: 4506 - 17th Ave., N.E., Seattle, Wash. to: Box 200, Maurer, N.J. BA Group, Chem. Div., E.A. |
| Persing, Kimber M. | O.C., CWS | 1321 Lakefront Ave., Cleveland, O. Apptd. 6/11/25; acctd. 6/19/25. BA Group, Edgewood Arsenal. |
| Pryor, Ralph W. | O.C., CWS | 105 So. Kensington Ave., La Grange, Ill. Apptd. 4/11/25; acctd. 4/22/25. BA Group, Mech. Div., E.A. |
| Robinson, Donald E. | O.C., CWS | Add. chgd. from: 1413 Mervin Ave., Dormont Boro, Pittsburgh, Pa. to: 56 Florence Ave., Mt. Lebanon, Pittsburgh, Pa. BA Group, Prop. Div., E.A. |

| <u>NAME AND RANK</u> | <u>ASSIGNMENT JURISDICTION</u> | <u>REMARKS</u> |
|----------------------------------|------------------------------------|--|
| FIRST LIEUTENANTS(Cont'd) | | |
| Royse, William C. | O.C.,CWS | Temp. add. to 6/1/26: 334 - 4th St., Dayton, Ky. BA Group, Admin. Div., E.A. |
| Schindler, Henry M. | 9th C.A. | 5364 Belgrave Place, Oakland, Cal. Trans. from QM-Res 8/14/25. TA Group. |
| Senty, Walter B. | O.C.,CWS | Add. chgd. from: 1214 E. Main St., Arcadia, Wis. to: 1212 E. Main St., Arcadia, Wis. BA Group, Chem. Div., E.A. |
| Snell, Myron A. | O C.,CWS | 220 Wisconsin Ave., Oak Park, Ill. Apptd. 7/7/25; accptd. 7/14/25. BA Group, Edgewood Arsenal. |
| Spero, Samuel | O.C.,CWS | 700 Bartlett Ave., Milwaukee, Wis. Apptd. 7/21/25; accptd. 7/27/25. BA Group, Edgewood Arsenal. |
| Stoddard, Edgar S. | O.C.,CWS | 3313 Home Ave., Berwyn, Ill. Apptd. 6/30/25; accptd. 7/15/25. BA Group, Edgewood Arsenal. |
| Travers, Frank A. | O.C.,CWS | Add. chgd. from: 3717 E. 2nd St., Long Beach, Cal. to: 3321 E. Ocean Ave., Long Beach, Cal. BA Group, Prod. Div., Edgewood Arsenal. |
| Weigand, Herman | O.C.,CWS | 605 Walnut St., Leavenworth, Kas. Apptd. 2/15/25; accptd. 3/12/25. BA Group, Edgewood Arsenal. |
| Wilkins, Richard A. | O.C.,CWS | Add. chgd. from: 245 Washington St., Belmont, Mass. to: 2 Com- monwealth Ave., Boston, Mass. BA Group, Mech. Div., Edgewood Arsenal. |
| Wilson, Leslie E. | 9th C.A. | Add. chgd. from: c/o Mid-Northern Oil Co., Billings, Mont. to: 1020 Channing Lane, Palo Alto, Cal. TA Group. |
| Winter, Willis L. | 9th C.A. | Add. chgd. from: 809 Grange Road, Burlingame, Cal. to: 217 State St., San Mateo, Cal. TA Group, |
| Woodward, Paul S. | 4th C.A. | 85 Cherry St., Atlanta, Ga. Trans. from BA Group, Chem. Div., E.A. to TA Group. |

| <u>NAME AND RANK</u> | <u>ASSIGNMENT JURISDICTION</u> | <u>REMARKS</u> |
|---------------------------|------------------------------------|---|
| SECOND LIEUTENANTS | | |
| Andrews, William R.E. | O.C.,CWS | 407 No. 63rd St., Philadelphia, Pa. Apptd. 6/3/25; accptd. 6/11/25. BA Group, Edgewood Arsenal. |
| Aycock, Lemuel M. | O.C.,CWS | Add. chgd. from: Jonesville, S.C. to: 161 So. Elliot Place, Brooklyn, N.Y. BA Group, Chem. Div., E.A. |
| Baird, Selar H. | O.C.,CWS | Add. chgd. from: 708 Woodlawn Ave., Springfield, Ill. to: 2025 Lowell Ave., Springfield, Ill. BA Group, Chem. Div., Edgewood Arsenal. |
| Baker, Samuel G., Jr. | O.C.,CWS | 26 Newton Ave., Woodbury, N.J. Apptd. 4/21/25; accptd. 6/2/25. BA Group, Edgewood Arsenal. |
| Barrett, Flavius L. | O.C.,CWS | Claremore, Okla. Apptd. 7/14/25; accptd. 7/23/25. BA Group, Edgewood Arsenal. |
| Beale, Edward B. | O.C.,CWS | 7220 Blair Rd., Takoma Park, D.C. Trans. from Inf-Res 5/11/25. BA Group, School Bn., E.A. |
| Brattain, William F. | O.C.,CWS | C.F. & I., Y.M.C.A., Pueblo, Colo. Apptd. 3/20/25; accptd. 3/26/25. BA Group, Replacement Center, E.A. |
| Buffett, George M. | Unassigned | 621 No. Lake St., Madison, Wis. Apptd. 8/11/25; accptd. 8/17/25. |
| Burkitt, Joel L. | O.C.,CWS | Add. chgd. from: c/o Procter & Gamble Co., Ivorydale, O. to: 741 Froome Ave., Cincinnati, O. BA Group, Edgewood Arsenal. |
| Burr, Alexander C. | O.C.,CWS | 432 Melbourne, Detroit, Mich. Apptd. 4/1/25; accptd. 4/8/25. BA Group, Edgewood Arsenal. |
| Campbell, Thomas P. | O.C.,CWS | 818 Patterson Bldg., Denver, Colo. Trans. from AS-Res 3/14/25. BA Group, Mech. Div., Edgewood Arsenal. |
| Carey, Francis P. | 2nd C.A. | Add. chgd. from: 153 W. 84th St., New York City. to: 2664 Grand Concourse, New York City. TA Group. |
| Carswell, Harry E. | O.C.,CWS | 823 Irving Court, Madison, Wis. Trans. from FA-Res 3/23/25. BA Group, Edgewood Arsenal. |

| <u>NAME AND RANK</u> | <u>ASSIGNMENT JURISDICTION</u> | <u>REMARKS</u> |
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| SECOND LIEUTENANTS (Cont'd) | | |
| Caveness, Hugh L. | O.C.,CWS | 603 Alston Ave., Durham, N.C. Trans. from TA Group, 4th C.A. to BA Group, Edgewood Arsenal. |
| Cavett, Edwin S. | 3rd C.A. | Box 274, Ridgway, Pa. Apptd. 7/10/25; accptd. 7/15/25. TA Group. |
| Cohn, Ralph F. | Unassigned | 5105 Webster St., Omaha, Neb. Apptd. 8/5/25; accptd.8/15/25. |
| Collier, Thomas W. | O.C.,CWS | 620 No. Main St., College Park, Ga. Trans. from Inf-Res 4/13/25. BA Group, Edgewood Arsenal. |
| Cowdrey, Charles F. | O.C.,CWS | 5 Bluff Ave., Fitchburg, Mass. Apptd. 5/18/25; accptd. 5/26/25. BA Group, 1st CWS Procurement Dist. |
| Culley, Dudley D. | O.C.,CWS | Woodville, Miss. Apptd.6/8/25; accptd. 6/25/25. BA Group, Edgewood Arsenal. |
| Davis, Chester B. | O.C.,CWS | 312 So. 13th St., Herrin, Ill. Apptd. 5/11/25; accptd. 5/23/25. BA Group, C.W. School, E.A. |
| Davis, George | 7th C.A. | Add. chgd. from: 604 W. Central St., Miami, Okla. to: Hornersville, Mo. TA Group. |
| Davis, Paul R. | O.C.,CWS | Add. chgd. from: 2646 Dwight Way, Berkeley, Cal. to: c/o C. & H. Sugar Refining Corp., Crockett, Cal. BA Group, Prod. Div., E.A. |
| Dietrich, Harold E. | O.C.,CWS | 3620 Terrace St., Pittsburgh, Pa. Apptd. 3/27/25; accptd. 4/2/25. BA Group, Edgewood Arsenal. |
| Faure, Leonard L. | O.C.,CWS | 616 Highland Ave., Houston, Texas. Trans. from Inf-Res 4/16/25. BA Group, Edgewood Arsenal. |
| Filson, George W. | O.C.,CWS | 621 No.. Lake St., Madison,Wis. Apptd. 3/6/25; accptd.3/17/25. BA Group, Edgewood Arsenal. |
| Finzel, Theron G. | O.C.,CWS | 621 Lake St., Madison, Wis. Apptd. 6/11/25; accptd. 6/22/25. BA Group, Edgewood Arsenal. |
| Fischer, Sidney | 2nd C.A. | Add. chgd. from: 3657 Broadway, New York City, to: 240 Kent Ave., Brooklyn, N.Y. TA Group |

| <u>NAME AND RANK</u> | <u>ASSIGNMENT JURISDICTION</u> | <u>REMARKS</u> |
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| SECOND LIEUTENANTS (Cont'd) | | |
| Ford, Edwin L. | O.C.,CWS | 409 - 16th St., S.E., Washing- ton, D.C. Trans. from Inf-Res 7/25/25. BA Group, Edgewood Arsenal. |
| Frisbie, Frederick G. | O.C.,CWS | 509 Mt. Vernon Ave.,Coraopolis. Pa. Apptd. 5/19/25; accptd. 5/26/25. BA Group, E.A. |
| Halloran, Henry E. | 1st C.A. | 131 Ashmont St., Dorchester, Mass. Apptd. 6/26/25; accptd. 6/30/25. TA Group. |
| Heller, Preston B. | O.C.,CWS | 3925 Calumet Ave.,Chicago, Ill. Apptd. 6/15/25; accptd. 6/25/25. BA Group, E.A. |
| Howe, Charles H. | O.C.,CWS | Old perm. add.: Chapman, Kas. Temp. add. to be discontinued: Dept. Agri. Econ., U. of Wis., Madison, Wis. New perm. add.: Dept. Agri. Econ.,Kansas State Agri. College, Manhattan, Kas. BA Group, E.A. |
| Jacobson, Orin B. | 6th C.A. | Add. chgd. from: 1103 W. Il- linois St., Urbana, Ill. to: 5537 Washington Blvd., Chicago, Ill. TA Group. |
| Jenkins, Grant V. | 9th C.A. | 1000 No. Orange Drive, Holly- wood, Cal. Trans. from AG- Res 7/1/25. TA Group. |
| Johnson, Otto | O.C.,CWS | 1512 - 7th St., S.E., Min- neapolis, Minn. Apptd. 3/27/25; accptd. 4/4/25. BA Group, Edgewood Arsenal. |
| Johnson, William H. | O.C.,CWS | 314 So. Clinton St., Iowa City, Iowa. Trans. from Engr-Res 7/30/25. BA Group, Edgewood Arsenal. |
| Joyner, Houston C. | O.C.,CWS | Virginia Episcopal School, Lynchburg, Va. Trans. from FA-Res 6/3/25. BA Group, 1st Gas Regt. |
| Kimsey, John K. | O.C.,CWS | Add. chgd. from: Cornelia, Ga. to: Gen. Del., Ft. Pierce, Fla. BA Group, Chem. Div., E.A. |
| Knight, Charles W. | 6th C.A. | Add. chgd. from: 39 Gladstone Ave., Windsor, Ontario, Canada, to: Box 66, Walkerville, On- tario, Canada. TA Group. |

| <u>NAME AND RANK</u> | <u>ASSIGNMENT JURISDICTION</u> | <u>REMARKS</u> |
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| SECOND LIEUTENANTS (Cont'd) | | |
| Kuhne, Cecil C. | O.C., CWS | Oil Hill, Kas. Apptd. 4/16/25; accptd. 4/27/25. BA Group, Edgewood Arsenal. |
| Labarthe, Jules | O.C., CWS | 3620 Terrace St., Pittsburgh, Pa. Apptd. 4/28/25; accptd. 5/21/25. BA Group, Edgewood Arsenal. |
| Lazier, Wilbur A. | O.C., CWS | Add. chgd. from: 128 No. Orchard St., Madison, Wis. to: 1001 Gilpin Ave., Wilmington, Del. BA Group, E.A. |
| McColm, Eugene M. | O.C., CWS | University Club, Akron, O. Apptd. 4/17/25; accptd. 4/30/25. BA Group, Edgewood Arsenal. |
| McCrea, Forrest D. | O.C., CWS | 229 Clifford Court, Madison, Wis. Apptd. 6/11/25; accptd. 7/30/25. BA Group, Med. Res. Div., E.A. |
| Malone, Harold C. | Unassigned | U.S. Engr. Office, Burwood, La. Trans. from Inf-Res 6/1/25. Resigned 7/29/25. |
| Marshall, Housden, L. | O.C., CWS | Univ. of Maryland, College Park. Md. Trans. from Inf-Res 3/16/25. BA Group, School Bn., E.A. |
| Mateer, Robert E. | O.C., CWS | 311 E. Union St., Punxsutawney, Pa. Apptd. 6/26/25; accptd. 7/2/25. BA Group, Edgewood Arsenal. |
| Merrill, Henry B. | O.C., CWS | 393½ Olive St., Milwaukee, Wis. Apptd. 3/12/25; accptd. 3/19/25. BA Group, C.W. School, E.A. |
| Meyer, Joe E. | O.C., CWS | Perm. add.: Prague, Okla. Temp. add. to 10/1/25: Empire Refineries, Okmulgee, Okla. BA Group, Training Div., E.A. |
| Mortimer, John E. | O.C., CWS | Add. chgd. from: Guantanamo Sugar Co., Guantanamo, Cuba, to: 1402 Hamilton Ave., Wilmington, Del. BA Group, Prod. Div., E.A. |
| Mulrooney, Thomas W. | O.C., CWS | 800 West St., Wilmington, Del. Trans. from CA-Res 3/18/25. BA Group, Edgewood Arsenal. |
| O'Kelly, R. Edwin | O.C., CWS | 109 No. 16th St., Ft. Smith, Ark. Apptd. 4/14/25; accptd. 4/23/25. BA Group, E. A. |

| <u>NAME AND RANK</u> | <u>ASSIGNMENT JURISDICTION</u> | <u>REMARKS</u> |
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| SECOND LIEUTENANTS (Cont'd) | | |
| Phillips, Frank M. | O.C.,CWS | c/o Tenn. Mil. Inst., Sweetwater, Tenn. Apptd. 3/18/25; accptd. 3/26/25. BA Group, School Bn., E.A. |
| Pole, Gordon R. | O.C.,CWS | Mellon Inst., Pittsburgh, Pa. Apptd. 3/21/25; accptd. 3/30/25. BA Group, Edgewood Arsenal. |
| Popejoy, John R. | O.C.,CWS | Add.chgd. from: Box 880, Raton, N. Mex. to: c/o Int'l Creo. & Const. Co., Beaumont, Tex. BA Group, E.A. |
| Prisley, Frederic A. | O.C.,CWS | Add.chgd. from: 15 William St., Burlington, Vt. to: 141 Loomis St. Burlington, Vt., BA Group, Chem. Div., E.A. |
| Proctor, Bernard E. | O.C.,CWS | Add. chgd. to: 177 Mt. Vernon St., Malden, Mass. BA Group, Replacement Center, E.A. |
| Ramage, William D. | 9th C.A. | 1525 Arch St., Berkeley, Cal. Trans. from FA-Res 6/20/25. TA Group. |
| Rodes, William | O.C.,CWS | Add.chgd. from: 429 W. 2nd St., Lexington, Ky. to: 308 Hanover Ave., Lexington, Ky. BA Group, Chem. Div., E.A. |
| Rogers, Richard | Phil.Dept. | 2nd Obs. Sqdrn., Kindley Field, Ft. Mills, P.I. Apptd. 4/7/25; accptd. 5/15/25. TA Group. |
| Sanders, James R. | O.C.,CWS | Edgewood, Md. (Staff Sgt., 1st Gas Regt.) Apptd. 6/1/25; accptd. 6/6/25. BA Group, 1st Gas Regt. |
| Schoenwetter, Wm. G. | O.C.,CWS | 201 Main St., Hamburg, N.Y. Apptd. 3/16/25; accptd.3/23/25. BA Group, Edgewood Arsenal. |
| Schroeder, Frederic W. | O.C.,CWS | Add. chgd.from: Warrenton, Mo. to: 4800 Forbes St.,Pittsburgh, Pa. Apptd. 5/13/25; accptd. 5/23/25. BA Group, Edgewood Arsenal. |
| Schultz, Edward G. | O.C.,CWS | 91 E. Merrill St., Fond du Lac, Wis. Apptd. 7/27/25; accptd. 8/3/25. BA Group, E.A. |
| Showalter, Albert M. | 2nd C.A. | Add. chgd. from: 400 So. 22nd St., Philadelphia, Pa. to: 322 No. 3rd St., Camden, N.J. TA Group. |

| <u>NAME AND RANK</u> | <u>ASSIGNMENT JURISDICTION</u> | <u>REMARKS</u> |
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| SECOND LIEUTENANTS (Cont'd) | | |
| Schreiner, Claude L. | O.C., CWS | 321½ W. Hopocan Ave., Barber- ton, Ohio. Trans. from Inf- Res 3/16/25. BA Group, Prop- erty Div., E.A. |
| Smith, Earl D. | O.C., CWS | Add. chgd. from: c/o American Aluminum Co., Alcoa, Tenn. to: 112 E. Main St., Maryville, Tenn. BA Group, Prod. Div., E.A. |
| Snider, Hiram F. | O.C., CWS | 907 So. 6th St., Champaign, Ill. Apptd. 5/16/25; accptd. 5/21/25. BA Group, E.A. |
| Squibb, Francis P. | O.C., CWS | Add. chgd. from: 619 Ridge Ave., Lawrenceburg, Ind. to: 751 Beechwood Ave., Cincinnati, O. BA Group, Prod. Div., E.A. |
| Stubblefield, Henry I. | O.C., CWS | 1500 U St., Lincoln, Neb. Apptd. 3/12/25; accptd. 3/23/25. BA Group, Edgewood Arsenal. |
| Taylor, Haywood M. | O.C., CWS | Add. chgd. from: Box 545, Chapel Hill, N.C. to: 28 Argyle Rd., Brooklyn, N.Y. BA Group, Chem. Div., E.A. |
| Tracey, Cyril S. | O.C., CWS | Add. chgd. from: 542 Muriel Parkway, Elizabeth, N.J. to: 524 Muriel Parkway, Elizabeth, N.J. BA Group, Prod. Div., E.A. |
| Trice, Marion F. | O.C., CWS | Add. chgd. from: State College, Raleigh, N.C. to: 723 Locust St., Hendersonville, N.C. BA Group, Chem. Div., E.A. |
| Tyson, Harry D. | O.C., CWS | Holt, Ala. Apptd. 3/12/25; accptd. 3/20/25. BA Group, Edgewood Arsenal. |
| Van Orden, Seymour L. | O.C., CWS | Add. chgd from: 303 W. Pleas- ant Ave., Syracuse, N.Y. to: 60 Spencer Ave., Owego, N.Y. BA Group, Chem. Div., E.A. |
| Wakerlin, George E. | O.C., CWS | 6353 So. Wood St., Chicago, Ill. Apptd. 3/23/25; accptd. 3/30/25. BA Group, Edgewood Arsenal. |
| Walker, Burnham S. | O.C., CWS | Evans Memorial Inst., 80 E. Concord St., Boston, Mass. Apptd. 3/18/25; accptd. 3/23/25. BA Group, Edgewood Arsenal. |

| <u>NAME AND RANK</u> | <u>ASSIGNMENT JURISDICTION</u> | <u>REMARKS</u> |
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| SECOND LIEUTENANTS (Cont'd) | | |
| Warren, Charles E. | O.C., CWS | 110 Hancock St., Brooklyn, N.Y. Apptd. 5/6/25; accptd. 5/12/25. BA Group, Replacement Center, E.A. |
| Wellington, Lewis C. | O.C., CWS | Add. chgd. to: 145 Allen St., Massena, N.Y. BA Group, Chem. Div., E.A. |
| Wilder, Cecil N. | O.C., CWS | Add. chgd. from: 755 Baxter St., Athens, Ga. to: Georgia State College of Agri., Athens, Ga. BA Group, Prod. Div., E.A. |
| Wildman, Charles F. | 4th C.A. | Add. chgd. from: 817 No. Broad- way, Baltimore, Md., to: Par- mele, N.C. TA Group. |
| Wille, Clarence W. | O.C., CWS | Add. chgd. from: 947 - 4th St., Milwaukee, Wis. to: Waupun Hotel, Waupun, Wis. BA Group, Prod. Div., E.A. |
| Withrow, Lloyd L. | O.C., CWS | 803 State St., Madison, Wis. Apptd. 7/12/25; accptd. 7/25/25. BA Group, Edgewood Arsenal. |

RESERVE OFFICERS PLEASE NOTE.

It is requested that any errors or omissions noted in these lists of Reserve Officers, be reported to the Personnel Section, Office, Chief, Chemical Warfare Service, Munitions Building, Washington, D.C.

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