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THE GENERAL SERVICE SCHOOLS
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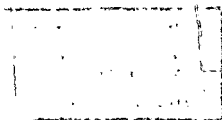
January 10, 1923.

Instructors' Summary of Military Articles
October-December, 1922

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DIGEST OF SELECTED ARTICLES

THE APPLICATION OF THE PRINCIPLES OF HIGH COMMAND

By Captain Harris Laning, U. S. Navy. 22 pages.—*United States Naval Institute Proceedings*, December, 1922, p. 2041.

This article purports to outline a practical method for insuring in naval forces the success of the high command. In the navy, there are two distinct types of command, high command and low command. The line of demarkation usually lies somewhere above the grade of captain. In the high command, the commander is a leader who creates ideas as well as directs the carrying out of them. In the low command, the commander is always a follower who merely carries out the ideas of another. The three fundamentals for success in high command are:—First, knowledge of exactly what is to be accomplished; second, ability to lay out the certain way to accomplish it with the forces at one's disposal; and third, skill in directing and leading the forces commanded so they will do the thing to be accomplished in the way decided on to do it. In other words, it means knowledge, planning, and execution. The first step toward high command is a study of war—what causes it, what constitutes a decision, and what principle of strategy and tactics should be followed to gain decisions. The second step consists in the application of principles in planning and carrying out successful operations pertaining to war. By such practice, an officer learns to estimate correctly situations and to reach sound decisions.

The principles of high command are embodied in the trinity—self-preservation, planning, and execution. No matter how well the commander may prepare himself, no matter how expert he may become in planning, these things go for naught unless he *organizes* his command to carry out his plan, *indoctrinates* it with the plan and method of carrying it out, trains it so it will act in coordinated effort in accordance with the indoctrination, and finally develops it in “the fighting spirit” and “the will to win”—or morale.

ARTILLERY, AND THE LESSONS WE HAVE LEARNT WITH REGARD TO IT IN THE LATE WAR

By Colonel-Commandant L. C. Oldfield. *The Journal of the Royal United Service Institution*, November, 1922, p. 579.

The author first calls attention to the prewar ideas of the limited amount of firing to be expected of artillery and to the restricted plan of employment of all the larger calibers. He then contrasts this with the present tendency to use all artillery as much as possible.

He believes that in anticipation of future war "— training should be such as to prevent static or position warfare —war of the future should be visualized always as a moving warfare." Consequently junior artillery officers must be well trained in artillery tactics; a knowledge of technique, while important, is not enough.

In a "grand" attack, when there has been plenty of time for preparation and where the ammunition supply is ample, he describes artillery support as:

- a. Counter battery by most of the heavy and medium howitzers and by a proportion of the field guns and howitzers.
- b. A small amount of accompanying artillery.
- c. The remainder firing a barrage.

When sufficient guns and ammunition are not available for the barrage, it may be supplemented by the use of tanks or employed on restricted areas only.

In the case of moving warfare or small operations, the author believes artillery support will take the form of "concentrations on localities for short periods of time."

Accompanying guns are classed as valuable; but not to be used for tasks which machine guns could do equally well. They are very useful in fighting in close country.

In a discussion of the defense, the following statements are found:

"The arrangement of putting down a protective barrage just in front of a defending infantry after the attack has commenced, finds few supporters now. It is the duty of the infantry to deal with the first elements of the attackers. The duty of the artillery is, by counter preparation and counter offensive, to inflict casualties on the enemy, to break up concentrations, and to isolate the first waves of the attack."

"The defense, like the attack, must keep a certain number of guns and howitzers, heavy and light, mobile to deal with fresh situations."

While ground observation is given as the best of all methods, the author believes most counter battery work will be with the assistance of aircraft.

The future employment of gas and smoke are summarized as follows:

"The outbreak of war between the leading nations will probably be heralded by tremendous gas attacks . . .

"Smoke is a weapon for attack, to conceal movements of troops and especially of tanks. . . . It will probably be used largely in future . . ."

Under communications:

"The most vital of all communication is liaison between officers of the different arms, and however great the shortage of artillery officers, this liaison should not be stinted."

NOTE: This article is quite lengthy and contains a considerable amount of interesting discussion on the subjects indicated above, as well as others of lesser importance.

A STUDY OF THE FRENCH F. S. R.

By Captain B. H. Liddell Hart. 12 pages.—*Journal of the Royal United Service Institution*, November, 1922, p. 666.

In this article, the author draws a comparison between the British and French Field Service Regulations. The former deal with the process generally applicable to any scale of formation, while the latter distinguish between the tactics of an army, an army corps, and a division, and treat each separately.

In the first section of the French regulations, the art of command and the influence of personality are discussed, leaving for the second section the use of the arms and devices and the tactical employment of the higher formations.

The French define a division as "the first unit which is capable of carrying out a proper attack by its own resources, but the range and duration of action is limited;" the army corps as "able to engage on an extended front and to continue until a decision is reached;" the army as "The strategical unit, and exclusively an organ of command and administration." While the essential elements of the subject "the commander—his plans and orders"—are the same, the British presentation is considered superior by the author, as it gives, first, a framework as to the method of drawing up operation orders.

The French are of the opinion that "security" depends on two important factors: information and the disposition of the troops, while the British devote separate chapters to "information" and "protection" which the author believes is more illogical and unscientific.

Under movements, the French survey the subject in less detail and in a more chronological order, viz: rail, mechanical transport, and marches, while the British follow the sequence, marches, rail, and mechanical transport. The French consider that rail moves are only justified for distances of at least 100 kilometers for an army corps, or 75 kilometers for a division. For motor transportation, using it for distances less than 20 kilometers in the case of infantry, or 60 kilometers in the case of artillery, is not deemed advisable.

There appears to be little difference between the French and British presentations of the principles connected with battle. However, the French doctrine of disregarding the use of tanks and of armoured cars for pursuit, and the prescription that it is best to maintain the same divisions in each corps, are considered unsound by the writer.

In the discussion of the army in battle, the French regulations divided the preliminary steps into:

- a. Exploration by aircraft and cavalry to determine the zone where the enemy is likely to be met.
- b. Disposition which ought to be adapted to the projected maneuver.
- c. Direction.
- d. Frontages.

In the British regulations, these important precepts are either omitted or not clearly brought out. In the next phase of battle, which comprises making contact with the enemy, followed by engagement, the British viewpoint appears to make an artificial separation of the action of the advance guard from that of the battle itself.

Under the defense, the French regulations lay stress on the importance of flanking positions to prevent penetrations or from which counter attacks may be launched. The British regulations do not cover this important point. The French doctrine that the attack is continued by the assault, is consid-

ered unsound by the author of the article, as the opportunity for assault is momentary and must be instantly seized. A general assault allows the moment to be lost.

The French regulations seem to make a distinction between the exploitation of success and the final pursuit. Exploitation is carried out in breadth and in depth. If the beaten enemy abandons the contest and retires in disorder, then the pursuit begins by the troops of the first line, preceded by cavalry, and the author adds "tanks are surely more effective than cavalry in the first stages, at least, before the enemy's defenses are entirely broken.

In conclusion, the French regulations are summarized as being distinguished by clarity of thought and expression, a grasp of essential outlines of the subject, and a scientific arrangement. The British regulations are considered as lacking in the mastery of the subject, but contain practical methods which show to better advantage.

THE PROBABLE INFLUENCE OF AIR RECONNAISSANCE ON STRATEGY AND TACTICS

By Flight Lieutenant C. J. Mackay. 20 pages. *Journal of the Royal United Service Institution*, November, 1922, p. 622.

The collection of information about the enemy, insures not only an essential part of the protection of an army, but forms also the foundation on which plans and actions in war are based. The enemy must be continuously sought out and constant touch kept with him so that the fullest information as to his whereabouts and intentions may be obtained. Information is essential to both strategy and tactics—in fact to the making of plans. The acquisition of accurate information has always been one of the most difficult tasks of a commander in the field. In reading the history of a campaign and in criticising the dispositions and actions of a commander, many students fail to realize the difficulties which beset the subject of their criticism at the time.

Prior to the advent of the airplane, information about the enemy was obtained by some of the following means:

- a. Cavalry.
- b. Operations in force.
- c. Espionage.

- d. Prisoners and cross-examination of local inhabitants.
- e. Enemy press and captured papers.

The advent of the airplane has developed another medium of reconnaissance. It is possible to see what is on the other side of the hill.

Lack of information produced two great surprises on the Western Front in 1914, namely:

- a. The strength of the German flank attack delivered through Belgium.
- b. The appearance of the Army of Paris (6th Army) on Moltke's right flank before the Marne.

In defining the different types of aerial reconnaissance, it is difficult to denote the dividing line between the strategical and the tactical.

Just as ground reconnaissance has been classified as protective, contact, and independent; so too air reconnaissance may be classified as contact, protective, and independent; with two subsidiary forms: counter battery and survey.

The advantages of air reconnaissance are: Large radius of activity, and rapidity in delivering information secured to the commander. However, air reconnaissance is liable to interruption owing to adverse weather conditions; but even then, such conditions are not likely to last sufficiently long to allow an enemy opportunity for surprise. A commander must discriminate between the positive and negative air report. Negative reports must be treated with reserve.

The immediate influence of air reconnaissance on the conduct of war may be summarized as follows:

- a. It reduces the inherent unreadiness of modern armies. A modern army corps occupies a road space of thirty-five miles, and takes thirteen hours to deploy—no small measure of unreadiness. The early information, however, which the airplane is capable of supplying, allows ample time for this deployment.

- b. It compels night movement of troops. "Night marches," said Blucher, "are more to be dreaded than the enemy." But now night marches are less to be dreaded than discovery. On the other hand, it should not be forgotten that

*This refers to an European army corps.

aerial night reconnaissance is in its infancy. In future wars, night reconnaissance with the aid of powerful flares will reveal almost as much as by day, with the additional advantage that observation can be carried out from a low altitude.

c. It precludes the wide turning movement. Had aircraft then been so developed as they are now, and their application as fully understood, von Kluck's turning movement through Belgium would have been doomed at its inception. In the face of airplane observation, the turning movement will in future be one of the most difficult operations of war.

d. It precludes the possibility of losing touch with an opponent. It is true that, in 1917, under cover of mists of the Somme, the V Army lost touch with the retreating Germans for a few days, but only tactically, on a limited front.

e. It supplies the commander with the only means of following, and thus controlling, the tactical development of the modern battle.

f. It introduces the necessity for deception (or camouflage) many miles behind the battle front in areas hitherto considered immune from enemy observation.

g. It facilitates the use of long range artillery, which, with the aid of air observation, can harass enemy back areas with accuracy.

h. It renders the surprise factor more difficult to achieve.

The value of air reconnaissance is not confined to land operations. Successful naval battles of the future will be based on the adoption of methods of air reconnaissance and observation of fire brought about by the airplane.

While the airplane has developed a superior method of acquiring information about the enemy, and in many cases the only method, it cannot be said that aerial reconnaissance will revolutionize warfare. The principles of war have not been modified. Aircraft, like any other innovation of war, has an influence in the application of principles of war to the methods of warfare.

(Digester's note: This article, which is a prize essay, is amplified with historical examples of the World War and of other wars. While all the conclusions of the author might not be accepted "*in toto*," it is a valuable study.)

PSYCHOLOGY AND TACTICS

Marshal Psychologos.—By Lieutenant Hesse.—Instructors' File No. 110-C (compiled from report of G2, American Forces in Germany).

Lieutenant Hesse of the German Army has published a book in which he emphasizes the necessity of paying more attention to the psychology of troops. The author claims that there is some psychology in every tactical decision; and that in many situations, psychology must be given preference over purely intellectual tactics. In large and small matters psychology and tactics go hand in hand. While in peace training an effort is made to move skirmish lines at prescribed intervals and at times this training succeeds in the drill ground, the opposite result is reached on the battlefield, as gregarious instinct is much stronger than all energy of commanders. It is the important task of subordinate commanders to prevent the feeling of isolation that overcomes troops and interferes with the gaining of ground. In the execution of this task, it may be necessary to adopt decisions which do not correspond to purely intellectual tactics.

A platoon, under fire, attacks a machine gun nest across a narrow passage. A squad, protected by machine guns, has succeeded in crossing this passage. The question confronting the platoon commander is: Shall I advance my light machine guns and then continue the attack or shall I leave them in the present position until the attack has succeeded? Cold reason replies: The firing power will not be improved by advancing them. It cannot be done without sustaining losses. I shall leave them. Psychological considerations, however, say: The squad beyond the sector feels itself abandoned. It is apprehensive, and continuation of the attack will lack the necessary spirit. The decision, therefore, is: I shall first advance my light machine guns and then continue the attack.

Finally the soldier must know what he does and why he does it. Unfortunately, this commonplace is often neglected.

(*Digester's note:* In view of the footnote comments appearing in British and German service magazine concerning the scope of this book, it has been ordered for the Library.)

CHEMICAL WARFARE IN THE FUTURE

By Captain J. M. Seammell, Infantry, O. R. C. 5 pages.—*North American Review*, Oct., 1922, p. 476.

This article, which is interesting as representing views of a military writer who is not a specialist on the subject of chemical warfare, begins with the statement that "Chemical warfare offers tremendous potentialities, not only in making war less cruel and less destructive, but in making it less frequent." The discussion that follows relates principally to matters already familiar, at least in a general way, to the readers of the SUMMARY.

Three points are brought out that are of special interest:

1st. *The greatly increased importance, in mobile situations, of the employment of harassing gas operations.* In such situations, "high concentrations are difficult to achieve except under extraordinary conditions. * * * In many cases so infrequent will be the opportunities to use the majority of gases, that, if any are used, it will be those that promise results in low concentrations. * * * Among the most important uses of gas is that of reducing the physical and moral resistance of troops by forcing them to wear the mask for long periods. There is a second important characteristic of gas warfare: That the effect of a mild concentration is very difficult to diagnose, and continued activity on the part of a mildly gassed soldier may lead to serious consequences, while, if he remain inactive, he may suffer no ill effects; and since a soldier must be given the benefit of the doubt, among troops of low morale a great opportunity for malingering is provided. Gas, therefore, by emphasizing the moral factor in war, decreases the stubbornness of the resistance of the side weaker morally, and decreases bloodshed thereby. From these arguments, it will be seen that tactical requirements have reduced the number of gases that can be employed economically, and have largely restricted the uses of gas to the inflicting of mild and temporary casualties."

2d. *The possibilities of decreasing the likelihood of war in certain cases through the use of gases.* Chemical warfare "excludes whole groups of people from fighting. For example,

no longer can a savage people, or even a non-industrial nation, hope successfully to go to war with a power that uses gas."

3d. *The use of gas attacks from aircraft on cities.* To those who paint lurid pictures of such a use of gas, Captain Scammell answers "that an overwhelming preponderance of air strength would be necessary to carry out such an attack, for not only would it be a tremendous undertaking to obtain a sufficient concentration of gas to produce an appreciable effect, but the effect would not be worth the effort, particularly as the bombing planes would have to be escorted by combat planes in sufficient numbers to beat off all possible aerial counter attacks."

(Note: This view does not seem to accord with French fears expressed in a recent article in the *Paris Matin*, "Protective Measures in France." Captain Scammell's estimate of the difficulties of gassing cities appears also to be at variance with certain American calculations which would indicate that a city ten miles square—larger, say, than the two Kansas Citys combined—could be covered by as little as two tons of economical tear gas, if properly distributed, or by 70 tons of mustard gas.)

Captain Scammell devotes considerable space in his interesting article to a consideration of past and present efforts to prohibit the use of chemicals in war. His conclusion is that "Gas as a weapon of war has not been abolished. * * * Even the signatories of the (Washington) agreement, if a non-signatory nation were to enter a war upon the side of one of them, would not be bound by the restriction. And even were the war confined to two of the signatory powers, gas would be used. An excuse for beginning could always be found."

THE PROGRESS OF THE WAR DEPARTMENT IN COMPLIANCE WITH THE NATIONAL DEFENSE ACT OF 1920

19 pages.—*Government Printing Office* (Library No. 355.4).

The War Department has published a pamphlet in which there is outlined the progress made by the Department in carrying out the missions assigned to the military branch of the Government by the National Defense Act.

The Army of the United States is covered under the following subheads:

(a) Regular Army: missions, functional distribution, administrative overhead, coast defenses of the United States and their functions.

(b) National Guard: mission, strength, and contemplated program of training.

(c) The Organized Reserves: strength and program of training.

(d) The Reserve Officers' Training Camp: mission and strength.

(e) The Citizens' Military Training Camps: aim and development.

Under "Commissioned Officers" there is shown the distribution of 13,214 officers, the number required in the Regular Army to meet the needs of the various units and agencies connected with the military establishment.

Under "cost of the army" there is shown the financial phase of the problem, an important factor in any military program.

REVIEW OF NEW BOOKS RECEIVED IN THE LIBRARY

THE KAISER'S MEMOIRS

English translation by Thomas R. Ybarra. 342 pages. (Harper & Bros., New York and London, 1922.) Library No. 923.

1. This is a book which is interesting more for what it does not say than for what it does say. There appears to be little question that the Kaiser, had he been so inclined, could have given many interesting accounts of the World War, and this is what readers naturally look for in this volume. But less than 50 pages are devoted to the World War, and only three events of the war are discussed. These events are:

The commencement of the war.
The efforts of the Pope to make peace.
The Kaiser's abdication.

2. Concerning the beginning of the war, data and argument are submitted to show that the Kaiser did not know a

war was brewing, while on the other hand the Entente were making full preparations. The argument and evidence accompanying it are entitled to consideration; but is evidently a one-sided account which omits much that might have been said on this point.

3. The only two other items discussed on the war contain little information not already known and this is not of very great value.

4. The first 240 pages of the book relating to the pre-war period are interesting as illustrating German court life and the Kaiser's point of view. The last part of the book is a discussion of guilt for commencing the war and, as might be expected, is a very biased account.

5. As a whole the book is of little value from a military point of view, but has value politically. It is also interesting as a narrative of court life.

JAPAN'S PACIFIC POLICY

By K. K. Kawakami. 269 pages. (E. P. Dutton & Company, New York, 1922.)

This book consists principally of articles by the author, which appeared in various newspapers during the Washington Conference.

The aim seems to be two-fold—to produce a feeling of friendliness toward Japan on the part of the Powers, and to cause the Japanese Government to conduct itself in carrying out the provisions of the agreements reached at the Conference so as to *deserve* the friendship and confidence of the conferring nations and of the world at large. The author claims that Japan made a good impression at the conference, but that a clinging to old ideas and practices in dealing with Siberia and China will nullify what has been accomplished.

The book devotes a part to naval armament and the Pacific Treaty. The greater part is devoted to Japan's policy in Manchuria and China proper, especially Shantung.

It is apparent throughout the discussion of the Armament question that the author considers that Japan gave up more than any of the other parties to the agreement. He states "A nation with unlimited resources, both in money and raw ma-

terials, may scrap half a million tons of warships today and embark upon a gigantic building scheme tomorrow, if sudden change of international relations requires it. * * * That which is easily made can be easily destroyed. But it is human nature to cling to a thing resulting from a great heroic sacrifice." He gives the impression that Japan's attitude on the question of the mandates of the Pacific islands north of the equator is purely defensive and that if the United States would postpone her Philippine and Guam projects she would willingly give up these mandates.

The author is inclined to attach little importance to the "Pacific Treaty" between England, Japan, France, and the United States, for the reason that the Pacific possessions never could have been a cause for war between any of the contracting parties. He believes that the point of danger is China and that if Japan and the United States ever go to war it will be because of disagreement over Chinese questions. China's internal affairs are fully gone into and it appears that an attempt is being made to show that the country never will be able to govern itself. The Shantung question is discussed at length and it is shown that Japan has good reasons for declining to return to China the German possessions which were seized during the World War. After making a good case for Japan, the author seems much pleased at Japan's declarations of her willingness to evacuate Shantung.

Japan's position in Manchuria is then discussed and it is shown how the country has improved during Japan's occupation. The difference between Japan's position in Shantung and in Manchuria is stressed—the former having resulted from her seizure of German territory while the latter resulted from her victory over Russia and a subsequent treaty with China. The author states "In Manchuria, Japan's rights are defined in a treaty with China. That right Japan has never had the idea of bartering for any expediency or purpose."

A reading of the book gives the impression that there is a definite relation between Japan's attitude toward Shantung and her position in Manchuria. If she can conduct herself so as to induce the Powers to agree to her domination of Manchuria, she is willing to give up all claims to any part of Shantung.

Japan has realized that the Powers have a watchful eye on China and that nothing will be tolerated which violates the integrity of that country. She stands to gain more from the good will of the Powers than from any aggression in China.

Japan's position in Siberia is discussed. It is admitted that the Japanese occupation was a mistake and has been a failure; but it is hoped that something will be accomplished before withdrawing, in order to satisfy the Japanese people. What to expect is not indicated. However, that Japan's position would be greatly improved by Russian's agreeing to Japan's policy in Manchuria is evident.

THE FREEDOM OF THE SEAS

By Louise Fargo Brown. 262 pages. (E. P. Dutton & Co., New York, 1919.) Library No. 940.9.

This presentation is largely an attempt to discover what is meant by the freedom of the seas by delving into history to ascertain what it has meant in the past. It is early stated that for centuries men have been laboring on the one hand to establish sea freedom, and on the other to frame such a law of the sea as shall maintain its freedom at all times. As indicating the slow progress that has been made, it is asserted that in 1305 France and England were quarreling over a question of prize jurisdiction, which was finally submitted to arbitration, but war broke out before a settlement had been reached; and that in 1907 the decision was reached to establish an international prize court, but it never sat because no agreement could be reached as to what was the law of the sea. Before any settlement was found, the World War broke out.

The author follows through the early struggle for sea sovereignty in which an unsuccessful effort was made by certain countries, including Portugal and Spain, actually to parcel out the seas and exercise dominion over them. The efforts and influence of Great Britain as a maritime power are discussed, also trade in general, the closed door and the open sea, the balance of power and trade, and the influence of French freedom.

Various international experiments are reviewed, an interesting one being the efforts of Czar Alexander I in the direc-

tion of the formation of a league of nations. His ideas ranged all the way from a body possessing supernational powers down to a league to prevent the spread of the liberal views of the Holy Alliance. In 1804, he submitted to Pitt a scheme which did not go to either extreme. After discussing perpetual peace as a mere dream, the scheme proposed a league which would guarantee national rights, assure the privilege of neutrality, delay war until mediation had proved unavailing, and punish breaches of international law. As Pitt was engaged at the time in a war which took no account of neutral rights, the part of the plan respecting neutrality did not impress him favorably. As a means of guarantee against territorial aggression, however, a league of nations appealed to him and his successors, and the British representative was instructed to further such a league in 1814 at Vienna.

Chapter VIII discusses "Free Trade, Free Ships, Free Goods" from the time the idea became crystallized as a conviction in the mind of Napoleon while meditating at St. Helena, down to 1859 when the United States won her campaign against Danish tolls on the Baltic. Against the Danish policy upholding the right of a single nation "to treat one of the great maritime highways as a closed sea," President Pierce successfully led the fight for the American policy "to maintain the freedom of the seas and of the great natural channels of navigation."

The last two chapters discuss the Law of the Sea of Yesterday and the Law of the Sea of Tomorrow, respectively, the latter closing with the conclusion that if the world's peace is to prevail upon the high seas so that ships may ply their business there in safety and tranquillity, there must be international machinery for enforcing the law of the sea and an international tribunal to judge transgressions of it.

WAR-TIME STRIKES AND THEIR ADJUSTMENT

By Alexander M. Bing, with an introduction by Felix Adler. 329 pages. (E. P. Dutton & Co., New York, 1921.) Library No. 940.9.

This book surveys the labor difficulties which occurred during the recent war, including the post-armistice period; also the difficulties which industry experienced in meeting

the needs of the war, and reaches the conclusion that these were but the natural growth and results of pre-war conditions rather than new factors created by the war.

The chief strictly military interest of the book centers about Chapters V and VI in which are discussed the mediating agencies of the War and Navy Departments employed during the war, including the Administration of Labor Standards in Army Clothing, the Arsenal and Navy Yard Wage Commission, the National Harness and Saddlery Adjustment Commission, and the Industrial Service Sections of the Ordnance Department, Quartermaster Corps, and Air Service.

THE MEXICAN WAR DIARY OF GENERAL GEORGE B. McCLELLAN

Edited by W. S. Myers. 93 pages. (Princeton University Press, Princeton, 1917. Library No. 9736.)

A published manuscript, giving an account of the author's experiences during the war in Mexico in 1846 and 1847. The author was then a lieutenant of engineers. He covers his experiences, such as might be expected from an officer of his rank. Nothing of value on tactics or strategy is discussed, being beyond the duties of the officer writing, and beyond his experience. On the other hand, the local life of the time, and some useful information on the equipment, training, and duties of our troops are given.

ARMY LETTERS (1861-1865)

By Oliver Willcox Norton. 355 pages. (O. L. Deming, Chicago.) Library No. 923.

The author served as an enlisted man in the 83d Penn. Volunteers from 1861 to 1863, and thereafter until the end of the war as a lieutenant in the 8th U. S. (colored) Infantry. The letters are those written to friends and relatives. They naturally contain much matter of no interest to any but those engaged in the correspondence. However, they contain considerable information concerning customs of the times, equipment, and morale of the troops, and descriptions of the country traversed. Good descriptions of conditions during the Peninsula campaign of 1862 are given.

SECRETS OF CREWE HOUSE

By Sir Campbell Stuart, K. B. E. 252 pages. (Hodder & Houghton, London, New York, Toronto, 1921.) Library No. 940.9.

A story of the British propaganda campaign conducted by Viscount Northcliffe in enemy countries during 1918.

DOCUMENTS RECEIVED IN INSTRUCTORS' FILE ROOM

FROM ARMY WAR COLLEGE

	Instructor's File No.
G1 COURSE:	
<i>Period of Informative Studies. G1 Course.. Lecture by</i>	
Col. Andrew Moses, F. A.—G1 Course No. 1	P.H. 139-F-1
<i>Functions of G1 of a Corps Area. Lecture by Lt. Col. E.</i>	
H. De Armond, G.S.—G1 Course No. 5	P.H. 139-F-5
<i>Outline of the G1 Course. By Col. G. S. Simonds</i>	P.H. 139-F
<i>Organization and Functions of the Personnel Division,</i>	
<i>War Dept. General Staff. Lecture by Col. C. D.</i>	
Herron, G. S.—G1 Course No. 2	P.H. 139-F-2
<i>Functions of G1, War Plans Div., and G1, G. H. Q. in the</i>	
<i>Field. Lecture by Lt. Col. D. K. Major, Jr., G.S.—</i>	
G1 Course No. 3	P.H. 139-F-3
<i>Functions of The Adjutant General's Office and its Rela-</i>	
<i>tions with the General Staff, Chiefs of Branches, and</i>	
<i>Corps Area Commanders. Lecture by Maj. Gen. R.</i>	
C. Davis, The Adjutant General of the Army.—G1	
Course No. 4	P.H. 139-F-4
<i>Welfare and Morale of Troops. Lecture by Lt. Col. R. H.</i>	
Pierson, G.S.—G1 Course No. 6	P.H. 139-F-6
G2 COURSE:	
<i>Comparative Government from the Standpoint of Military</i>	
<i>Strength. Lecture by Dr. Wm. Starr Myers.</i>	P.H. 138-C-38
<i>Economic Resources of France and Germany. Lecture by</i>	
Prof. J. Russell Smith.—G2 Course No. 36	P.H. 138-C-36
<i>Summary of the Estimate on Mexico. By Committee No. 1</i>	P.H. 138-C-3
<i>Summary of the Estimate on Argentina, Brazil, and Chile.</i>	
By Committee No. 2	P.H. 138-C-4
<i>Summary of the Estimate on Turkey and Greece. By Com-</i>	
mittee No. 6	P.H. 138-C-8
<i>Summary of the Estimate on France. By Committee No. 7</i>	P.H. 138-C-9
<i>Summary of the Estimate on Germany. By Committee No.</i>	
8	P.H. 138-C-10
<i>Summary of the Estimate on Russia. By Committee No. 9</i>	P.H. 138-C-13
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- Summary of the Estimate on Raw Materials.* By Committee No. 17. P.H. 138-C-26
- Thesis for Discussion at G2 Conference. Important elements of military strength and weakness.* P.H. 138-C-33
- Probable Future Orientation of Russia toward her immediate neighbors and especially toward Poland and the Baltic Provinces.* By Dr. A. C. Coolidge. P.H. 138-C-37
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G3 COURSE:

- Period of Informative Studies. Committee Assignments and subjects of study.* P.H. 139-E
- Period of Informative Studies.* By Lt. Col. C. E. Kilbourne. P.H. 139-E-1
- Comparative Study of Military Organization.* By Col. O. L. Spaulding, Jr., F.A. P.H. 139-E-2
- Organization and Functions of the Operations and Training Div., W.D., G.S.* By Brig. Gen. W. Lassiter. P.H. 139-E-3
- Training Branch, G3, W.D., G.S.* By Col. H. B. Fiske, G. S. P.H. 139-E-4
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- Terminology in Instructions for Mobilization.* As prepared in Office of G3, W.D. P.H. 139-E-7
- Organization of the Typical Field Army and of the Theater of Operations appropriate thereto. Major items of equipment.* By Committee No. 2. P.H. 139-E-9
- Individual and Unit Training. Shelter in Mobilization.* By Committee No. 3. P.H. 139-E-10
- Initial Concentration.* By Committee No. 4. P.H. 139-E-11
- Comparative Studies of Organization of the Armies of the U. S., Japan, Great Britain, France and Pre-War Germany.* By Committee No. 5. P.H. 139-E-12
- Organization Charts, Armies of the U. S., Great Britain, France, Japan and Pre-War Germany.* Used in connection with Conference by Committee No. 5. P.H. 139-E-13
- Informative Period. Individual Problem. General Instructions.* P.H. 139-E
- Organizational Requirements of the Zone of the Interior.* Conference by Committee No. 6. P.H. 139-E-14
- Coordination of Reports of Committees No. 1 to 6.* Conference by Committee No. 7. P.H. 139-E-15
- Functions of G3 of a Corps Area.* By Lt. Col. R. H. Williams, G.S. P.H. 139-E-16

COMMAND COURSE:

- Command and the Command Course.* By Col. E. L. King. P.H. 138-B-1
- Problem No. 1, Blue.* P.H. 138-B-2
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- Critical Analysis of Certain Phases of the World War.* Problem No. 2. P.H. 138-B-8
- Cooperation Between the Army and Navy.* By Lt. Col. John W. Gullick, G.S. P.H. 139-D-2

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<i>Outline of the Course.</i> By Col. G. S. Simonds, Inf.	P.H. 138-A-3
<i>Military Policy of the U. S. and Present State of Development of Military Forces thereunder.</i> By Col. Palmer, Inf.	P.H. 138-A-4
<i>Some Advice on Health.</i> By Maj. A. P. Clark, M. C.	P.H. 138-A-9
<i>Books: How to judge them and how to use them.</i> By Col. O. L. Spaulding, Jr., F.A.	P.H. 138-A-11

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<i>The Brigade, Regimental and Squadron Staff in the Field</i>	P.H. 140-3
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<i>Logistics.—Supply System—Supply—Ordnance (ammunition)—Transportation—Miscellaneous</i>	P.H. 140-14
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<i>Field Artillery Ammunition. Document No. 7</i>	P.H. 142-9
<i>Artillery Intelligence No. 17. Conference</i>	P.H. 142-14
<i>Evacuation, Repair and Resupply of Artillery Material—Division in a Relief. Log. No. 20. Conference</i>	P.H. 142-21
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<i>Reconnaissance Troop. Illustrative Problem, Cavalry.</i> S.A. No. 18	P.H. 142-19
<i>Functions and Agencies of the Division Medical Service.</i> Log. Nos. 22 and 24. Conference	P.H. 142-22

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MISCELLANEOUS DOCUMENTS

<i>Signal Communications for All Arms.</i> Pamphlet No. 2. The Signal Corps School	P.H. 27-1
<i>Liaison Service in the German Army.</i> From the Bulletin de Renseignements	610-II
<i>Germany—Organization of a Cavalry Division.</i> Hdqrs. A. F. G.	610-DD
<i>French Cavalry during the First Three Months of the Campaign.</i> By Col. Monsenergue. Translation from the French	320-H
<i>Study of the Employment of Cavalry in a Specific Situation in 1921.</i> Translation of an article in <i>Revue de Cavalerie</i> , July-Aug., 1922, and Sept.-Oct., 1922	320-J and 320-I
<i>Concerning a Maneuver of the 1st Cavalry Division at Camp Mailly.</i> Translation of an article in the <i>Revue de Cavalerie</i> , Jan.-Feb., 1922	320-K
<i>Organization of Machine Gun Companies in the German National Army.</i> From Bulletin de Renseignements No. 25. Hq. A.F.G.	610-EE
<i>Germany—Automobile Formations in the Reichsheer (National Army)</i>	610-GG
<i>Germany—Review of Gen. Von Wrisberg's Book "Defense and Arms, 1914-1918."</i> By Gen. Von Kuhl, Ret.	610-JJ
<i>Study of the Employment of Tanks.</i> By Col. Chedeville. Translation of an article from <i>Revue d'Infanterie</i>	1320-F
<i>Protection of Tanks in Battle.</i> By Maj. Bloch, Arty. Translation of an Article from <i>Revue d'Infanterie</i> , Sept. 1922	1320-H

<i>The Reorganization of the Army. Tanks.</i> By Col. Romain. Translation of an article from <i>Revue de Paris</i> , Oct. 15, 1922.	1320-L
<i>British Tanks on the Cambrai Front.</i> By Lt. Col. Gemeau. Translation of an article from the <i>Revue Militaire Francaise</i> , Oct., 1922.	1320-J
<i>Concerning the Protection of Tanks.</i> By Maj. G. Bloch, Arty. Translation of an article from <i>Revue d'Artillerie</i> , Oct. 15, 1922.	1320-M
<i>Attack Orders. Reims, July, 1918. 1st German Army. Battle of the Marne</i>	610-AA
<i>Extracts from the War Diary of the Army Group of the German Crown Prince. Operations Reims-Marne Protection, 1918, and Operations West 1, June 18, 1918</i>	610-Z
<i>Conference Notes on Section Foreign Armies, June 15, to Aug. 15, 1918. Weekly Reports of the Armies, German G. 1918., July 1 to Aug. 15, 1918.</i>	610-FF
<i>Germany—Psychology and Tactics.</i> Review of Lieut. Hesse's Book "Marshall-Psychologos." Review report Hq. A.F.G.	1110-C
<i>Artillery Firing at French Maneuvers.</i> (Distribution of M.A. Reports, Oct. 28, 1922. G2 Office, Washington)	490-BBB
<i>Preparation of Fire and Adjustment.</i> Cours de Perfectionnement d'Artillerie. French Text	550-L
<i>Reflection of an Artilleryman.</i> By Gen. Rouquerol. Translation of an article from <i>Revue Militaire Generale</i> , Sept., 1922.	1200-W
<i>Motorized Advance Guard Problem in French Autumn Maneuvers.</i> (Distribution of M.A. Reports, Oct. 28, 1922.) Filed in G2 Office, Washington	490-BBB
<i>Engineer Organization.</i> (Distribution of M.A. Reports Oct. 28, 1922.) Filed in G2 Office, Washington	490-BBB
<i>Preparations for Offensive Combat.</i> Translation from the French of the German Regulations, Sept. 1, 1921. (See <i>Bulletin Belge des Sciences Militaires</i> , Oct., 1922, p. 1257)	1200-T
<i>Manual of Instruction for the Minenwerfer.</i> By Lieut. Biermann, 2d Division Staff. With 58 illustrations in the treatise and 5 illustrations in the form of Lithographs. From MID., G2, G.S., W.D.	1200-U
<i>Infantry Gun.</i> Translation of an article entitled "Infanterie-geschul," by J. N. Breunese, Lieut. of Grenadiers.	610-NN
<i>Study of the Provisional Drill Regulations of the U. S. Inf.—The Infantry in Combat.</i> Translation of an article from <i>Revue d'Infanterie</i> , July, 1922	1200-V
<i>Counter-Attack of the Moroccan Division on April 28, 1918.</i> (From official documents.) Translation of an article from <i>Revue Militaire Francaise</i> , Nov., 1922	1200-X
<i>Actual Lessons of the War. A Meeting Engagement. Neufchateau.</i> (Aug. 22, 1914.) By Maj. A. Grasset. Translation of an article from <i>Revue Militaire Generale</i> , Sept., 1922	1200-Y

MAGAZINES RECEIVED IN LIBRARY

NOTE:—The following is a list of periodicals received currently in the Library:

Weeklies:

Army, Navy and Air Force Gazette (English).
Army and Navy Journal.
Army and Navy Register.
Engineering News-Record.
Literary Digest.
L'Illustration (French).
London Illustrated News (English).
Militar Wochenblatt (German).
Outlook.
Saturday Evening Post.

Semi-Monthlies:

Arms and The Man.
Canadian Military Gazette.
Revue de Paris (French).
Revue des Deux Mondes (French).

Monthlies:

Archives de la Grande Guerre (French).
Bulletin of the Pan-American Union.
Bulletin Belge des Sciences Militaires (French).
Coast Artillery Journal.
Chemical Warfare.
Current History.
Geographical Review.
Infantry Journal.
Memorial de Infanteria (Spanish).
Memorial de Artilleria (Spanish).
Military Surgeon.
National Geographic.
North American Review.
Review of Reviews.
Revue d'Infanterie (French).
Revue d'Artillerie (French).
Revue Militaire Generale (French).
Revue Militaire Francaise (French).
Revue Militaire Suisse (French).
Scientific American.
Tank Corps Journal (English).
The Bookman.
U. S. Cavalry Journal.
U. S. Naval Institute Proceedings.
World's Work.
Boletin del Ejercito (Spanish).
Journal of the Royal Artillery (English).

Bi-Monthlies:

Army Ordnance.
Field Artillery Journal.
Military Engineer.
Revue de Cavalerie (French).
Quartermaster Review.

Quarterlies:

American Journal of International Law.
American Historical Review.
Army Quarterly (English).
Cavalry Journal (English).
Journal of American History.
Marine Corps Journal.
Royal Engineers Journal (English).
Royal United Service Institute (English).
Yale Review.

**IMPORTANT ARTICLES OF MILITARY INTEREST
THAT HAVE APPEARED IN MAGAZINES**

UNITED STATES

Army Ordnance. September-October, 1922. Progress in Artillery Development; Munitions Supply in an Army Area; Artillery Division Notes.

November-December, 1922. The Horse and the Motor; Infantry Artillery Weapons; War Production of the Saint Chamond Company; German vs. U. S. Artillery.

Cavalry Journal. October, 1922. The French Cavalry Raid in the Battle of the Marne; "M. I. D." and How it Works; The Role Played by the Serbian Cavalry in the World War (continuation); The British Cavalry in Palestine and Syria (continuation); Air Service and Other Auxiliaries for Cavalry.

Chemical Warfare. October, 1922. Assistant Secretary Wainwright explains the Value of Chemical Industry; Summer Training in Chemical Warfare; Relation of Chemistry to National Defense.

November, 1922. Tactical Considerations in Use of Smoke; French Increase Output of Dyes; Chemical Agents in the Civil War; Protective Measures in France.

Coast Artillery Journal. October, 1922. A Study on Organization and Training for Coast Artillery Troops; The Training of Coast Artillery Signal Details; On the Firing Line of the Industrial Sector.

November, 1922. The American Artillery in France; On the Firing Line of the Industrial Sector (continuation); Land Artillery to the Fore.

December, 1922. The Mission of the Coast Artillery Corps; On the Firing Line of the Industrial Sector (concluded); Summary of Tests of Caterpillar Adapters for the G. P. F.; French Artillery Doctrine.

Infantry Journal. October, 1922. Lessons of the War; The Ecole Supérieure de Guerre; Alexander Hamilton's Military Plans.

November, 1922. Machine Gun Pack Equipment (with illustrations); Officer Influence in High Schools; Indoor Training Schedule; Chemical Warfare Service (to be continued); C. M. T. C. Recruiting.

December, 1922. The Infantry School; Tank Radio Communication; The Chemical Warfare Service (concluded); Napoleon's Maxims of War (Civil War Study).

Marine Corps Gazette. September, 1922. The Battle of Blanc Mont Ridge (continuation).

Military Engineer. September-October, 1922. Our Military Policy; Army Engineer Operations; Bridging the Rhine; Traffic Regulation in the Advanced Zone; The Fortifications of Metz (a resume of an article by Commandant Tricaud in the *Revue du Genie Militaire* of Sept., 1922); A Floating Plank Bridge (a translation from *Revue du Genie Militaire* of Dec., 1921); History of the Corps of Engineers to 1915.

November-December, 1922. Engineer Summer Training Camps, 1922; The Sieges of the Franco-German War; Industrial Preparedness; Problems of War Time Procurement; Army Engineer Operations in the St. Mihiel and Meuse-Argonne Offensives; History of the Corps of Engineers (concluded).

Military Surgeon. November, 1922. A Plan for the Correlation of the Three Federal Medical Services in Preparation for War, during the Continuance of Hostilities, and Through the Subsequent Period of Reconstruction; Story of a Military Surgeon of the Battle of Borodino, 1812; Delousing American Troops at Bordeaux, France, prior to their Embarkation to the U. S.; The Brigade Surgeon with a Tropical Expeditionary Force.

Quartermaster Review. September-October, 1922. The Corps Area Quartermaster; The Division Quartermaster.

November-December, 1922. The Camp Quartermaster.

U. S. Naval Institute Proceedings. November, 1922. Some Considerations Affecting Naval Polity; The U. S. Naval Air Force in Action 1917-1918; Is the Fleet Strategically Concentrated?

December, 1922. The practical Application of the Principles of High Command; The Spirit of the Offensive.

ENGLAND

Army Quarterly. October, 1922. The Influence of Aircraft on Problems of Imperial Defense; Another Legend of the Marne, 1914.

Cavalry Journal. October, 1922. Operations of the Mounted Troops of the Egyptian Expeditionary Force; Notes on the Work of the Independent Air Force During the War; The Machine Gun Corps (Cavalry) in France, 1916-1918.

Royal Engineers Journal. September, 1922. The Tactical Theories of Capt. Liddell Hart (A Criticism); an Outline of the Egyptian and Palestine Campaigns, 1914-1918 (continuation); Manual of Anti-aircraft Defense.

October, 1922. Imperial Organization; An Outline of the Egyptian and Palestine Campaigns, 1914-1918, (continuation).

November, 1922. Military Roads on the Indian Frontiers; An Outline of the Egyptian and Palestine Campaigns, 1914-1918 (continuation); With Divisional R. E. in Palestine; German Repair of Railways in France and Belgium.

December, 1922. Organization of Engineer Services; An Outline of the Egyptian and Palestine Campaigns, 1914-1918 (concluded); The Employment of Divisional Engineers in Conjunction with Other Arms in War.

Journal of the Royal Artillery. September, 1922. Notes on Artillery Organization; Guns with Infantry.

October, 1922. A Field Artillery Group in the General Advance (to be continued).

November, 1922. A Field Artillery Group in the General Advance (concluded); Pack Artillery—The Weapon of Accompaniment.

Journal of the Royal United Service Institute. November, 1922.

Artillery, and the lessons we have learnt with regard to it in the late War; The Anti-Bolshevik Movement in South Russia, 1917-1920; The Probable Influence of Air Reconnaissance on Strategy and Tactics; The Battle of Sokol-Dobropolgie; Australian Patrol Operations, Strazeele, July, 1918; A Study of the French "F. S. R."; Modern Development in Physical Training; The Employment of Machine Guns with a Battalion of Infantry; Tank or Light Mortar as a Weapon of Infantry.

Tank Corps Journal. October, 1922. Tanks in French Army Maneuvers; The Tank—Ten Possibilities.

CANADA

Canadian Military Gazette. November 28, 1922. Poison Gas in War.

FRANCE

Revue d'Artillerie. September, 1922. Use of a Special Mortar as an Infantry Accompanying Gun; Our Heavy Artillery during the War.

October, 1922. Protection of Tanks; Use of a Special Mortar as an Infantry Accompanying Gun (continuation).

November, 1922. Individual protection against gas (French and German) during the World War; Use of a Special Mortar as an Infantry Accompanying Gun (concluded).

Revue d'Infanterie. September, 1922. The German Theory of the Organization of the Ground; The Opposed Gallipoli Landing; Protection of Tanks on the Battlefield; The Crisis of the Infantry; The Conduct of Military Operations in Morocco.

October, 1922. The German Theory of the Organization of the Ground (concluded); The Opposed Gallipoli Landing (concluded).

November, 1922. Exercise of Command and Moral Forces; Recasting of the Infantry Regulations.

Revue de Cavalerie. September-October, 1922. Employment of Cavalry in a specific Situation (continuation); Operations of the 2d Cavalry Division on the Ourcq (30 May-7

June, 1918); Cavalry patrolling during Aug., 1914; Modern Cavalry and rapid mixed bodies.

Revue Militaire Française. October, 1922. Automobile Transportation in a War of Movement; The French High Command in 1916; The British Tanks along the Cambrai Front.

November, 1922. Signal Communications with Armies; Gap between the Armies of Kluck and Bulow; Automobile Transportation in a War of Movement (continuation); Counter Attack of the Moroccan Division 26, April, 1918; Infantry Pre-War Regulations.

Revue Militaire Générale. August, 1922. The 12th Battle of Isonzo; Comparative Study of Infantry Tactics, before and after the War; The Recasting of the Regulations and our Doctrines of War.

September, 1922. Meeting Engagement (illustration from the World War) (to be continued); Reflections of an Artilleryman; Role of the High Command from the Economic Viewpoint; Strategy and Allied Operations in the North.

October, 1922. A Meeting Engagement (Illustration from the World War) (continuation); Recasting of the Regulations and Our Doctrines of War; Strategy and Allied Operations in the North (continuation); Tactics of Colonial Warfare.

Les Archives de la Grande Guerre. May, 1922. The Truth on the Loss of St. Mihiel in Sept., 1914 (continuation); Psychology of Italian G. H. Q. under General Cadorna (concluded); Before St. Mihiel in 1915 (concluded).

Revue de Paris. September, 1922. The Problem of the Marne, (6-12, September, 1914); Tanks.

L'Illustration. November 11, 1922. Allied Operations Contemplated in Lorraine for Nov. 14, 1918, with Instructions for same.

BELGIUM

Bulletin Belge des Sciences Militaires. October, 1922. Conduct and Combat of the Combined Arms (translation of the German Regulations, 1921); The Operations of the Belgian Army during War of 1914-1918; Military Opera-

tions in the Italian Theater; Security Measures Against Hostile Aircraft; The Functioning of the Services in the Communications Zone—Ammunition.

November, 1922. The Operations of the Belgian Army during the War of 1914-1918 (Oct. 1, 1914) (continuation); Battle of the Marne—Study of the orders given by Lieut. Col. Hentsch; Attack of March 21, 1918—Study of the Operations (Infantry and Artillery Tactics, Aviation, Tanks, Cavalry); Inundations on the Belgian Front.

SWITZERLAND

Revue Militaire Suisse. September, 1922. The Infantry Gun during the World War (French, German and English solutions); The H and H' plans during the World War (use of Railroads in connection with military operations through Switzerland).

October, 1922. The Infantry Gun during the World War (French, German and English solutions) (continuation); The Sixth Arm.

MISCELLANEOUS MAGAZINES

Bulletin of the Pan-American Union. November, 1922. New Tendencies in the Public Instruction of Mexico.

December, 1922. Railway Transportation in South America.

Current History. October, 1922. Atlantic and Pacific Sea Power; The Greek Collapse in Asia Minor.

November, 1922. The New Turkish Crisis; The League of Nations—Third Assembly; The Nationalist Ferment in Islam; How Mustapha Kemal formed his Army.

December, 1922. America Again Defenseless; The Navy as a Protective Investment; The United States and Latin America.

January, 1923. How Large was the Confederate Army?

Engineering New-Record. December 7, 1922. Simple Aerial Photography for Practising Engineers.

Geographical Review. October, 1922. Aerial Photographic Mapping.

National Geographic. November, 1922. Adventuring Down the West Coast of Mexico (with 45 illustrations); A Sketch of the Geographical History of Asia Minor (with 13 illustrations):

Review of Reviews. November, 1922. Outstanding Factors in the Near Eastern Crisis.

October, 1922. The Greek Defeat and European Discord.

Scientific Monthly. December, 1922. Topographical Maps of the United States.

World's Work. October, 1922. Universal Military Training in Cleveland High Schools.

INDEX TO SELECTED MAGAZINE ARTICLES, DOCUMENTS AND BOOKS

ADVANCE GUARD

See under Tactics.

AIR-CRAFT

See also under Air Service.

THE INFLUENCE OF AIR-CRAFT ON PROBLEMS OF IMPERIAL (BRITISH) DEFENSE. 11 pages. By Squadron Leader A. A. Walser, M.C., D.F.C., R.A.F.—*Army Quarterly*, Oct., 1922, p. 38.

AIR SERVICE

See also under Cavalry (Auxiliaries); Security (Aviation); World War (Naval Air Force, U. S.); Reconnaissance (Air); Air-craft.

World War

NOTES ON THE WORK OF THE INDEPENDENT (BRITISH) AIR FORCE DURING THE WAR. 12 pages.—(*British Cav. Jour.*, Oct. 1, 1922, p. 387.

AMERICAN LEGION

AMERICAN LEGION BACKS NATIONAL DEFENSE. 1½ cols.—*A. & N. Jour.*, Nov. 4, 1922, p. 222.

ANTI-AIRCRAFT DEFENSE

MANUAL OF ANTI-AIRCRAFT DEFENSE. 4½ pages. By Maj. A. E. King, R.G.A.—*Royal Engrs. Jour.*, Sept., 1922, p. 178.

APPROPRIATIONS

See under Estimates.

ARMORED AUTOMOBILES

TEST OF CHRISTIE TRUCK. ¼ col.—*A. & N. Reg.*, Dec. 9, 1922, p. 569.

ARMY AND NAVY

COOPERATION BETWEEN THE ARMY AND NAVY. Lecture by Lt. Col. J. W. Gulick, G.S., Army War College. Instructors' File No. P.H. 139-D-2.

ARMY ORGANIZATION

See also under *Charts*.

COMPARATIVE STUDIES OF ORGANIZATION OF THE ARMIES OF THE U. S., JAPAN, GREAT BRITAIN, FRANCE AND PRE-WAR GERMANY. Conference by Committee No. 5. G3 Course, Army War College. Instructors' File No. P.H. 139-E-12.

REORGANIZATION AND REDISTRIBUTION OF THE ARMY. 1½ cols.—*A. & N. Reg.*, Oct. 14, 1922, p. 361. Also *A. & N. Jour.*, Oct. 14, 1922, p. 165.

ARTILLERY

See also under *World War (Artillery); Infantry (Auxiliary Weapons)*.

ACCURACY TESTS; DEFORMATION OF TOP CARRIAGE, 4.7-IN. GUN CARRIAGE; 3-IN. ANTI-AIRCRAFT MATERIAL—TRAILER MOUNT. 1½ pages.—*Army Ordnance*, Sept.-Oct., 1922, p. 119.

ARTILLERY, AND THE LESSONS WE HAVE LEARNT WITH REGARD TO IT IN THE LATE WAR. 20 pages. Lecture by Col. Commandant L. C. L. Oldfield, C.B., G.M.G., D.S.O.—*Jour. Royal United Ser. Inst.*, Nov., 1922, p. 579.

GERMAN VS. U. S. ARTILLERY. 1 page. By O. L. Garver.—*Army Ordnance*, Nov.-Dec., 1922, p. 162.

LAND ARTILLERY TO THE FORE. 25 pages. By Maj. Sanford Jarman, C.A.C.—*Coast Art. Jour.*, Nov., 1922, p. 408.

Development

PROGRESS IN ARTILLERY DEVELOPMENT. 10 pages. By G. F. Jenks, A.O.A.—*Army Ordnance*, Sept.-Oct., 1922, p. 76.

Doctrine

FRENCH ARTILLERY DOCTRINE (A REPORT). 3 pages.—*Coast Art. Jour.*, Dec., 1922, p. 535.

Intelligence

ARTILLERY INTELLIGENCE No. 17. Conference Nov. 17, 1922, F.A. School. Instructors' File No. P.H. 142-13.

Materiel

OUR (FRENCH) HEAVY ARTILLERY DURING THE WORLD WAR. French Text, 23 pages. By General Fain.—*Revue d'Artillerie*, Sept., 1922, p. 240.

Tactics

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