

ROLL OF HONOUR.

WE sincerely regret to announce the deaths of the following men killed in action, who were drawn from our Department for active service. (N) Navy. (A) Army.

Name.	Class.	District.
G. F. Adams (N)	Skilled Workman, unest.	S.E.
G. J. Barton (N)	" " "	"
A. Beard (A)	Labourer	"
P. Benford (Marines)	Skilled Workman, unest.	London
R. H. Boyle (A)	Labourer	"
F. A. Bremer (N)	Skilled Workman, Cl. II.	"
E. Bridges (A)	" " unest.	E.
C. Chapman (N)	Labourer	London
F. W. Chapman (N)	"	"
A. Clayton (A)	Skilled Workman, unest.	S. Mid.
W. Cobb (N)	" " "	S.W.
E. E. Cook (A)	" " "	London
W. H. Cousins (A)	" " "	N.E.
J. R. Davies (N)	" " "	S. Lancs.
J. Donnelly (A)	Labourer	Ireland
W. Eggar (A)	Skilled Workman, unest.	S. Mid.
D. Eyles (A)	Labourer	N. Wa.
E. Ezard (A)	Skilled Workman, unest.	S.W.
W. G. Gardner (A)	Labourer	London
H. J. Guymer (A)	Skilled Workman, unest.	"
H. Harmer (A)	Jr. Cl. Assist., "	N.W.
W. H. Harris (N)	Skilled Workman, "	S.E.
C. B. Harrison (N)	" " "	N. Wa.
F. Hills (N)	" " "	S.E.
F. Hogg (A)	Labourer	S. Wa.
G. Hollingsworth (N)	"	N. Mid.
A. Hooker (N)	"	E.
F. Johnson (A)	Skilled Workman	N.E.
A. D. Kerr (N)	Labourer	London
W. Matthews (A)	"	N. Wa.
W. McCann (A)	Skilled Workman, unest.	Scot. E.
C. Munday (A)	Labourer	S. Mid.
J. A. Munro (A)	"	Scot. E.
H. J. M. Nicholas (A)	Skilled Workman, Cl. II.	London
R. Norman (N)	" " unest.	S. Wa.
J. Pringle (A)	Labourer	N.
A. E. Prowse (A)	"	S.W.

STAFF CHANGES.

Name.	Class.	District.
J. Rayner (A) . . .	Labourer	London
H. Robinson (A) . . .	Skilled Workman, unest.	S. Mid.
J. W. Sharp (N) . . .	" " "	London
H. A. Stevens (A) . . .	Youth	S.W.
W. T. Tarrant (N) . . .	Liftman	London

The list has been extracted from the Post Office Circulars, and is complete up to and including the issue of December 15th.

~~STAFF CHANGES.~~~~POST OFFICE ENGINEERING DEPARTMENT.~~~~PROMOTIONS.~~

Name.	From.	To.	Date.
Gibbins, F. E. . . .	Exec. Engr., N. Wa. Dist.	Asst. Supt. Engr., N. Eastern Dist.	1 : 1 : 15
Partridge, T. T. . . .	Asst. Engr., E. in C.O.	Exec. Engr., N. Mid. Dist.	20 : 9 : 14
Field, A. W.	Engr., 2nd Cl., N.W. Dist.	Asst. Engr., N. W. Dist.	1 : 8 : 14
Day, W.	Engr., 2nd Cl., E. in C.O.	Asst. Engr., E. in C.O.	11 : 8 : 14
Osborn, W. M.	Engr., 2nd Cl., East Dist.	Asst. Engr., E. in C.O.	4 : 10 : 14
Grocott, J. R.	Chief Inspector, N.W. Dist.	Asst. Engr., N. W. Dist.	20 : 9 : 14
Balcombe, W. O. . . .	3rd Cl. Clerk, Provs.	2nd Cl. Clerk, Provs.	10 : 8 : 14

~~TRANSFERS.~~

Name.	Rank.	Transferred from.	To.	Date.
Smith, F. M.	Asst. Engr.	London Dist.	E. in C.O.	12 : 10 : 14
Payton, G. A.	"	E. in C.O.	"	12 : 10 : 14
Hannaford, F. S. . . .	"	"	London Dist.	13 : 10 : 14
Poole, J.	"	"	London Power Dist.	9 : 11 : 14
Statters, J. E.	"	North Midland	E. in C.O.	11 : 11 : 14
Perris, F. W.	3rd Cl. Clerk	South Eastern	Eastern	5 : 11 : 14
Reynolds, W. J. . . .	"	Eastern	South Eastern	6 : 11 : 14

~~At the November meeting, Mr. Tanner's paper on "Building Materials used by the Post Office Engineering Department" dealt with a phase of departmental work which had hitherto not been brought before the notice of the local members of the institution, and proved helpful, whilst Mr. Pickering's paper on "Devolution and its Effects," in December, cleared up many points.~~

~~Mr. Wolstenholme was to have been the lecturer at the January meeting, but, as he had obtained a commission in the Durham Light Infantry, Mr. Ray, of Carlisle, took his place, and delivered a paper on "Notes on Aërial Construction," which was illustrated by means of lantern slides, showing many difficult jobs which had come under his notice.~~

~~In February a special meeting was held so that the members of the institution might have the opportunity of hearing Mr. Renshaw deliver his paper on the "Ethics of Supervision," and all who have read that paper in the last number of the JOURNAL will readily understand that a lively discussion followed, which enabled the members to state fully their opinions, and it was interesting to note the different ideas of the essentials of supervision held by the members.~~

~~The attendance throughout the session has been well maintained.~~

ON ACTIVE SERVICE.

The members of the North-Eastern District are proud of one of their colleagues—Sergeant Tucker—whose conduct at Kleinzonnebeke was briefly referred to in the 'Post Office Circular' of the 9th February. The feat which Tucker performed, and for which he has been granted the Distinguished Conduct Medal, is all the more meritorious when the full circumstances are known. It was not carried out at a time when "a wild, mad rush" was being made, but when, with the knowledge of his senior officer's wishes, the predicament the whole of his company was placed in, and the quick decision made in the interests of his comrades, that Tucker coolly carried out his dangerous task.

* * *

A company of the 2nd King's Royal Rifles—Tucker was a private—occupied a trench at Kleinzonnebeke opposite a German trench, separated by fifty yards. The Germans placed a machine gun in position, and in a few minutes the company of the 2nd King's Royal Rifles would have been at the mercy of the Germans if the gun had not been put out of action. Tucker was asked by his lieutenant if he would volunteer to put the gun out of action, and although, as he modestly states, the job was not to his liking, he picked up a trenching tool, went into the open, and, covered by his

comrades' rifles, knocked the emplacement from under the gun and returned. His chagrin may readily be imagined when, on his return, he learned that the lieutenant was not satisfied with the work done, and that it was considered that the gun was as great a menace as ever! A second time he crossed the fifty yards, and, making certain of his work, caused the gun to roll over, so that it could not be replaced by the Germans without exposing themselves to the fire of the 2nd King's Royal Rifles. Tucker returned safely.



SERGEANT H. A. TUCKER, D.C.M.

He was promoted a corporal, then a sergeant, and is now—a hero.

Since the incident described above, Tucker was blown out of a trench at La Bassee on New Year's Day, and, as a result, has been suffering from nervous shock, but it is pleasing to record that he is recovering.

~~SCOTLAND WEST CENTRE.~~

~~The first meeting of the session was held on January 15th, 1915, when a paper was read by Mr. A. Jacquest on "Testing and Balancing of Underground Cables which are required for Super-imposed Telephone Working."~~

~~The lecturer gave a short description of the theory underlying the tests, and then described, in more detail, the actual operations which are carried out in order to balance, so far as possible, at each selected joint. The actual apparatus which is being used on the Glasgow Paisley and Glasgow Edinburgh cables was on view, and the practical arrangements described. A short description was also given of the tests for differential resistance and cross talk.~~

~~The local branch are much indebted to Mr. Jacquest for kindly preparing lantern slides and giving his paper and a practical~~



CORPORAL W. J. NORTHCOTE, D.C.M.

~~demonstration of the work involved in this new branch of cable balancing.~~

Corporal W. J. Northcote, Cable Company, Royal Engineers (Territorials), a skilled workman from Glasgow Post Office, has been awarded the Distinguished Conduct Medal for repairing a telegraph line on November 21st under shell fire after it had been destroyed by German shells. Two of the Worcesters were killed and three wounded in proximity to the line. Corporal Northcote has done continued good work since he went to the front, and, it is claimed, is the first Territorial to receive the D.C.M. For that reason his comrades at the front are proud of him, as letters to friends in Glasgow testify, and we are sure all at home will heartily agree with the sentiment.

The opportunity is also taken of thanking Mr. A. S. Renshaw for reading his paper on the "Ethics of Supervision" during his visit to this district. A profitable discussion followed the reading of the paper, and Mr. Renshaw is to be congratulated on the manner in which he placed the ethical views of supervision before his hearers.

Mr. C. E. Pollock and Mr. R. D. S. Norman, both members of the local centre, have been given commissions as second lieutenants in the Signal Section of the Royal Engineers. Both of these gentlemen served through the Boer War. Lieut. Norman has been serving in one of the signalling units at Aldershot since October, and has only recently received his promotion. Lieut. Pollock, who left the district at the beginning of February, is now on active service with a signalling unit.

BOOK REVIEWS.

'Automatic Telephony: A Comprehensive Treatise on Automatic and Semi-Automatic Systems,' by Arthur Bessey Smith, E.E., and Wilson Lee Campbell, E.E. (The McGraw-Hill Book Coy., 6, Bouverie Street., London, E.C. 17s.)

In the early days of the development of automatic telephony in the United States, practically the only printed information available on the subject, on this side of the Atlantic, was contained in certain pamphlets bearing the names of the writers of the above volume. Prior to 1908, the installation of automatic telephone equipment was almost entirely carried out by the "independent" companies, and while it was in the interests of these companies that the claims of the automatic systems to superiority should be bruited abroad, it did not follow that the publication of detailed descriptions of the mechanisms and circuits would be to their advantage. In these latter days, however, the literature on the subject has grown apace, and, incidentally, it is not claiming too much to say that this JOURNAL has done more than any other periodical to spread the knowledge of the various systems. The articles by Messrs. W. J. Bailey, R. Lawson, J. Hedley, and others, which have appeared in our pages, have been widely read throughout the world, and from all parts appreciatory notices have been received.

Our descriptions have, however, appeared at intervals, as the British Post Office installed the exchanges, and the necessity had arisen for a text-book on the subject which would combine within its covers a comprehensive study of the systems as they are now in operation, so that the telephone engineer may compare readily the methods and efficiencies of the several plants. Such a text-book is now before us. The authors have done their work in an exhaustive fashion. Detailed descriptions are given of the Automatic Electric Company's switchboard apparatus and system, of the American Automatic Telephone Company's plant, the Siemens and Halske system, the Lorimer, the Clement automatic arrangement, the Western Electric Company's semi-automatic and automatic systems. Chapters are also devoted to traffic distribution schemes, power plant, traffic and development studies.

The plates and diagrams are clear, and the printing and binding are of the best quality. The volume is one that every telephone expert should have at hand, if he wishes to keep in touch with the extraordinary development which has taken place in machine switching in the last half-dozen years.

~~The importance of the electrical industry is illustrated in a very marked fashion by the fact that in this year's edition of the above there are no fewer than 35,390 names of firms engaged in the manufacture or distribution of electrical material.~~

In spite of its bulk, however, there is no confusion in the compilation, the sections being subdivided into alphabetical and classified parts, a thumb index indicating where each section may be found. Telegraphic addresses, telephone numbers, and financial particulars of limited liability companies are given, and in the list of supply undertakings full particulars of the capacity and character of the plant are quoted. In the British Section a list of specialities appears, together with the necessary information as to where they can be obtained. The edition maintains its character for accuracy, and should be invaluable to the electrical trade generally. Price £1 1s. 0d., post free, the "A" edition, which omits the Continental and U.S.A. sections, 12s. 0d., also post free.

~~The following books have been added to the Library, and are available for issue to members.~~

No. 529. ~~'Handbook of Technical Instructions for Wireless Telegraphists.'~~ J. C. Hawkhead.

~~530. 'C.B. Telephone System.' W. Atkins.~~

531. ~~'Automatic Telephony.'~~ A. B. Smith and W. L. Campbell.

532. ~~'Instruction in Army Telegraphy and Telephony.'~~ Vol. I. Instruments.

~~533.~~ " " " " Vol. II. Lines.

~~NEW EDITION.~~

~~228. 'Engineers' Year Book,' 1915. H. R. Kempe.~~

WE sincerely regret to announce the deaths of the following men killed in action, who were drawn from our Department for active service. Second List. (N) Navy. (A) Army.

Name.	Rank.	District.
A. G. Adams (N)	Labourer	S. Mid.
H. Alcock (N)	"	London
J. F. Allison (N)	"	Scot. E.
R. J. Anderson (A)	"	N.W.
J. Ashbrook (A)	"	S. Lancs.
A. Barfield (A)	"	N. Mid.
H. Barnard (A)	"	S. Mid.
S. E. Barnden (A)	Unest. Skilled Workman	E.
H. W. Barnes (A)	Labourer	"

ROLL OF HONOUR

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Name.	Rank.	District.
H. Barnett (A)	Unest. Skilled Workman	N. Mid.
W. J. Betts (A)	Labourer	E.
D. Carney (A)	Skilled Workman, Cl. II.	Scot. E.
F. Clark (A)	Labourer	N. Mid.
C. Clarke (A)	"	S. Wa.
H. J. Clarke (A)	"	N. Mid.
P. A. Coe (A)	"	E.
E. W. Cole (A)	"	S. Mid.
W. Cunnington (A)	"	N. Mid.
J. Edgell (A)	Unest. Skilled Workman	S. Mid.
J. Fitzgerald (A)	Labourer	N. Wa.
B. W. Girard (A)	Skilled Workman	S. Lancs.
C. R. Goakes (A)	Labourer	N. Mid.
S. J. Green (A)	Skilled Workman	N.W.
B. Hopkins (A)	Labourer	E.
R. Horton (A)	"	N.E.
W. E. Hughes (N)	"	S.E.
P. H. James (N)	Unest. Skilled Workman	London
E. J. Jones (A)	Labourer	S. Lancs.
M. King (A)	"	N.
J. Leitch (A)	Boy	Scot. E.
R. H. Marsden (A)	Labourer	S.W.
H. Miller (N)	"	S. Wa.
F. C. Morgan (A)	"	S. Mid.
G. J. Morris (N)	Unest. Skilled Workman	London
H. E. Norvill (A)	" " "	S. Wa.
E. R. Ponsford (A)	Labourer	S. Mid.
A. C. Royal (N)	"	"
M. Scully (A)	"	Ireland.
J. J. T. Skinner (A)	"	S.E.
G. Smith (A)	"	S.W.
James Smith (A)	Unest. Skilled Workman	Scot. W.
C. Stearman (A)	"	N.
F. C. Stubbs (A)	Labourer	London
W. Swanson (A)	"	Scott E.
A. Whitehead (A)	"	London
S. O. Wilson (N)	"	S. Mid.
A. E. Woodbine (A)	"	E.
W. G. Workman (A)	Skilled Workman	S. Wa.
A. Young (A)	Labourer	S. Lancs.

~~permits of all the junction wiring being done exactly alike, so that the conversion from one type of junction to another can be done by cross-connecting. Comparative details were also given of the reed-ringer and the new ringing vibrator which is being used.~~

~~Brief descriptions of the testing and battery arrangements were also given.~~

~~Mr. Paterson has made a special study of the exchange systems, and he was cordially thanked for his illuminating paper.~~

~~The following Committee have been elected for next session:~~

~~Chairman: Mr. Stewart. Vice-Chairman: Mr. Hardie. Mr. F. D. Horton, Mr. J. K. Murray. Secretary: Mr. G. A. Struthers. Librarian: Mr. H. McCallum.~~

ROLL OF HONOUR.

WE sincerely regret to announce the deaths of the following men killed in action, who were drawn from our Department for active service. Third List. (A) Army. (A.T.F.) Territorials. (R.M.L.I.) Marines.

Name.	Rank.	District.
L. B. Adams (A)	Assistant Clerk	London
J. W. Ashley (A)	Labourer	N. Wa.
F. W. Barlow (A)	Bricklayer	London
W. Bedford (A)	Labourer	N.E.
W. Bell (A)	"	N.
H. Bichener (A)	Unest. Skilled Workman	S. Mid.
G. H. Chappell (A)	Labourer	S. Lancs.
J. Clark (A.T.F.)	"	"
C. Colhoun (A.T.F.)	Unest. Skilled Workman	London
J. A. Depledge (A)	Youth	N. Mid.
H. Dobson (A)	Labourer	N. Wa.
E. Farmer (R.M.L.I.)	Skilled Workman, Cl. II.	S.E.
E. Fleming (A)	Youth	N.E.
H. Fricher (A)	Unest. Skilled Workman	S. Wa.
S. H. Henderson (A.T.F.)	Youth	S. Lancs.
E. Hollamby (A)	Labourer	S. E.
J. A. Howes (A)	Skilled Workman, Cl. II.	E.
H. Hudspeth (A)	Labourer	N.
W. A. James (A)	Unest. Skilled Workman	S. E.
J. R. Jones (A)	"	S. Wa.
W. G. E. Keep (A.T.F.)	Skilled Workman, Cl. I.	Test. Br.
M. Lane (A)	Skilled Workman, Cl. II.	London

STAFF CHANGES.

Name.	Rank.	District.
F. Lawrence (A)	Unest. Skilled Workman	S. Mid.
A. McAffer (A)	" " "	Scot. W.
W. McQueen (A)	" " "	Scot. W.
A. A. Moody (A)	Boy Clerk	E. in C.O.
A. Morris (A.)	Labourer	S. Lancs.
A. Norton (A)	Unest. Skilled Workman	E.
R. C. Pace (A)	" " "	London
A. Redfern (A)	Labourer	N. Mid.
G. Riley (A)	Youth	S. Lancs.
A. Smith (A)	Labourer	N.E.
A. B. Smith (A)	"	N.
A. M. Taylor (N)	Unest. Skilled Workman	Scot. E.
W. J. Taylor (A)	Labourer	S. Wa.
H. E. Waite (A)	Youth	N.W.
H. Walker (A)	Unest. Skilled Workman	Scot. W.
J. Watson (A)	" " "	N.
H. W. Webb (A)	Labourer	S. Mid.

~~STAFF CHANGES.~~~~POST OFFICE ENGINEERING DEPARTMENT.~~~~PROMOTIONS.~~

Name.	From.	To.	Date.
Gomersall, E.	Asst. Suptg. Engr., S. Mid.	Suptg. Engr., Ireland	23 : 4 : 15
Evans, T.	Engr., 2nd Cl., Scot. W.	Asst. Engr., N. Wales	6 : 4 : 15
Ray, J. W.	Chief Inspr., N.W.	Asst. Engr., Ireland	22 : 4 : 15
Devereux, T.	Engr., 2nd Cl., E. in C.O.	Asst. Engr., E. in C.O.	12 : 4 : 15
Bowyer, G.	Engr., 2nd Cl., N.W.	Asst. Engr., Ireland	23 : 4 : 15
Phillips, F. J.	Chief Inspr., London	Asst. Engr., London	12 : 4 : 15
Watson-Weatherburn, S. W.	Chief Inspr., Scot. E.	Asst. Engr., Scot. E.	25 : 5 : 15
Medland, G. F.	Clerk, 3rd Cl., E. in C.O.	Clerk, 2nd Cl., E. in C.O.	18 : 5 : 15
Barlow, J. E.	Clerk, 2nd Cl., E. in C.O.	Postmaster of Gosport	6 : 5 : 15
Waller, J.	Engr., 2nd Cl., E. in C.O.	Asst. Engr., Ireland	To be fixed later
Stanton, J. D.	Engr., 2nd Cl., S.W.	Asst. Engr., E. in C.O.	To be fixed later

ROLL OF HONOUR

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~~Single Wire Mileage.~~

Telegraphs	21,469	} Inclusive of spare wires, exclusive of Post Office wires on railways, maintained by railway com- panies.
Telephone exchange -	979,272	
Telephone trunks	30,732	

~~The total length of cables is now 7061 miles.~~

~~C.T.O. SECTION.~~

~~The original $1\frac{1}{4}$ inch Creed air-pressure main has now been replaced by one of $2\frac{1}{2}$ inch bore. The new main has been run from the container in the basement to the first, second, and third floors, and already the majority of the seventeen outlets provided have been allocated to Creed sets.~~

~~St. James' Street B.O.—A set of house tubes has been installed in this office and, being of brass, are of an ornamental character. The motor-pump has been fitted in a cellar away from the main building, and all noise and vibration in the office has thereby been avoided.~~

~~Hatton Garden B.O.—The above office was removed recently, and this involved cutting the existing street tube in Hatton Garden and extending it to the new office. The office fittings were installed well in advance of the date of removal, and a stoppage of only a few hours was involved, in order to make the actual cross-connection in the street.~~

~~Ludgate Circus B.O.—The street tubes have been removed to a new position in this office, and a local tube, with power obtained from one of the street tubes, has been installed; the necessity for a hand pump has thereby been avoided.~~

~~Staff Notes.—It was very pleasant to observe the almost affectionate farewell which was accorded, by the telegraphists of the News Division, to Mr. R. M. Spratley on his retirement. Mr. Spratley was a mechanic who, for a generation at least, had charge of the T.S. pneumatic perforators, and faithfully fulfilled his duty.~~

~~The promotion of Foremen Mechanics Liston and Dykes, of the Central Telegraph Office Workshops, to the rank of Inspector, is worthy of note as indicating the trend of modern telegraphy in the direction of automatic machinery.~~

~~Typewriting telegraphy bids fair to bring about the supersession of skilled telegraphists by skilled mechanics.~~

ROLL OF HONOUR.

THE Board of Editors sincerely regrets to announce the deaths on active service of the under-mentioned members of the Engineering Department.

Fourth List. (A) Army. (N) Navy. (R.N.D.) Royal Naval Division. (R.N.V.R.) Royal Naval Volunteer Reserve.

Name.	Rank.	District.
W. M. Adams (A)	Labourer	N.
E. Aitchison (A)	Unest. Skilled Workman	S. Lancs.
F. Ansell (A)	Labourer	S. Mid.
S. Ashmore (A)	"	N. Mid.
F. J. J. Barclay (A)	"	London
J. A. Bickerton (A)	Unest. Skilled Workman	N.E.
R. Binks (A)	Labourer	N.
R. Bloomfield (A)	Unest. Skilled Workman	Ireland
C. Brand (A)	"	N. Wa.
T. Burke (A)	"	S. Lancs.
D. D. Carruthers (A)	Youth	Scot. W.
C. S. Carter (R.N.D.)	Clerical Assistant	S.E.
E. H. Clarke (A)	Skilled Workman, Cl. II.	London
F. Couch (A)	Labourer	S.W.
O. F. G. Creber (A)	Unest. Skilled Workman	London
H. J. de Bell (N)	Labourer	London
G. Dowler (A)	"	S. Mid.
J. Evans (R.N.D.)	"	London
W. Fellowes (A)	"	N. Mid.
W. Harmer (A)	"	London
A. Herrity (A)	Skilled Workman, Cl. II	N.E.
A. F. Hobbs (A)	Labourer	S. Mid.
J. W. Hunter (A)	Unest. Skilled Workman	S. Lancs.
P. L. Jackman (A)	Clerical Assistant	N. Mid.
W. Jennings (A)	Labourer	N.E.
T. Joiner (A)	"	London
C. Kane (N)	"	N. Wa.
D. Kennedy (A)	"	S. Lancs.
D. Laker (A)	"	S. Mid.
E. G. Layton (A)	Boy	London
J. A. Lee (A)	Unest. Skilled Workman	S. Lancs.
F. D. MacLanen (A)	"	N.E.
G. G. Meiklejohn (A)	Youth	Scot. W.
J. Miller (A)	Labourer	E.
F. Minshell (A)	Youth	S. Lancs.
G. Morris (A)	Labourer	N. Mid.
W. Muir (A)	"	Scot. E.
J. Ormsby (A)	"	N.E.
W. F. Pearson (A)	Clerical Assistant	N.
A. S. Perriman (A)	Labourer	S.W.
C. H. Read (A)	Youth	S. Mid.
A. E. Sayers (A)	Unest. Skilled Workman	S. Mid.

HONOURS

MENTIONED IN DESPATCHES.

Name.	Rank.	District.
P. F. Scull (A)	Assistant Clerk	London
G. H. B. Shoddick (A)	Labourer	N.
J. Shelvey (A)	"	Scot. E.
J. Sherwin (A)	Unest. Skilled Workman	N. Wa.
C. H. Spurway (A)	Labourer	London
C. C. F. Staden (A)	Unest. Skilled Workman	Eastern
F. Stapleford (A)	Labourer	N.
E. Weston (A)	"	S. Mid.
F. Wilson (A)	Unest. Skilled Workman	N. Mid.
G. F. York (R.N.V.R.)	"	Scot. W.

MENTIONED IN DESPATCHES.

THE Board of Editors has great pleasure in publishing the names of the under-mentioned officers of the Engineering Department who have been honoured by mention in the Commander-in-Chief's despatches, or by other mark of distinction. It will be observed that this initial list includes the names of thirty-six members of the Post Office Engineering Service, and the list is of exceptional interest to the staff in view of the fact that the "K" Company, Royal Engineers, has been singled out for special recognition. Prior to the outbreak of the war the "K" Company was engaged on Post Office Engineering duties in Ireland.

Hearty congratulations are tendered to all on the very signal honours that have been bestowed.

" K " COMPANY, R.E.

Maj. E. V. Turner. Mentioned in despatches (three times) and promoted to Brevet-Col.

Capt. D. C. Jones. Mentioned in despatches, awarded the Legion of Honour (Croix de Chevalier), and promoted Major.

Capt. K. E. Edgeworth. Mentioned in despatches (twice) and awarded the Military Cross.

Capt. A. L. Owen. Mentioned in despatch.

Lieut. J. Watson. Mentioned in despatch, awarded the Military Cross, and promoted Captain.

2nd Cpl. R. Birch. Mentioned in despatch.

Sergt. T. J. Bridges.

Cpl. A. T. Brittan. Awarded the Distinguished Conduct Medal.

2nd Cpl. J. Brown. Mentioned in despatch.

Cpl. W. A. Bultitude.

Sap. S. M. Chapman. Awarded the Distinguished Conduct Medal.

2nd Cpl. G. A. Crane. Mentioned in despatch.

Sergt. F. C. A. Eynott. Mentioned in despatch.
 Lce.-Cpl. W. J. Hall. " "
 Sergt. G. S. Harris. " "
 Cpl. A. C. Hopkins. " "
 Supt. Clerk C. H. Hutton. Mentioned in despatch and awarded
 the Military Cross.
 2nd Cpl. C. Membry. Mentioned in despatch.
 Sap. G. Reddaway. " "
 Cpl. S. G. Rickard. Awarded the Distinguished Conduct Medal.
 2nd Cpl. L. T. Silvester. Mentioned in despatch.
 Sergt. J. Smeeth. " "
 Sergt. E. Stooke. " "
 Lce.-Cpl. H. W. Wright. " "

Temp. Capt. W. M. Batchelor, R.E., Signal Section (Assistant
 Superintending Engineer, Northern District). Mentioned in
 despatches.

Sap. C. Redley, R.E. (Unestablished Skilled Workman, South
 Eastern District). Mentioned in despatches.

Lce.-Cpl. E. Hopkins, R.E., Signal Section (Labourer, London
 District). Mentioned in despatches.

Sap. F. V. Jones, R.E., Signal Section (Skilled Workman, Class
 II, North Western District). Mentioned in despatches.

Pte. H. Radcliffe, Gordon Highlanders (Lineman-in-training,
 North Western District). Distinguished Conduct Medal.

Pte. R. Binks, King's Royal Rifles (Labourer, Northern District).
 Distinguished Conduct Medal.

Sergt. A. E. Faithfull, R.E., Signal Section (Skilled Workman,
 South Eastern District). Distinguished Conduct Medal.

Lce.-Cpl. F. J. Gatwood, 1st Cambridgeshire Regiment (Clerical
 Assistant, Eastern District). Mentioned in despatches.

Pte. J. T. Sproates, 2nd Durham Light Infantry (Labourer,
 Northern District). Mentioned in despatches.

Pte. W. McFarlane, 2nd Royal Scots (Labourer, Scotland East
 District). Distinguished Conduct Medal.

Cpl. G. Repton, R.E., Signal Section (Skilled Workman, Class
 II, North Eastern District). Distinguished Conduct Medal.

Sergt. W. H. Wicks, Leinster Regiment (Unestablished Skilled
 Workman, South Midland District). Distinguished Conduct Medal.

Corporal George Repton is the second member of the Lincoln
 Section staff to gain the Distinguished Conduct Medal. It was
 awarded in this instance for work done under fire during the landing
 of the forces at the Dardanelles. The only intimation received, in
 addition to the bald official announcement, is contained in a letter
 from Corporal Repton dated July 28th, in which he says :

COMMISSIONS ARMY AND NAVY OFFICERS.

“I am pleased to say our O.C. has recommended me for the D.C.M. (which I did not expect) for picking up wires and getting them through under shell-fire. It was duty, and that is what I came for.”

True: that was his reason for going, and the reason is worthy to rank with the achievement.



CORPORAL REPTON.

Corporal Repton, who was lineman at Gainsborough before the war, is with the G.H.Q. Signal Co., Mediterranean Expeditionary Force, at Cape Helles. F. M.

LIST OF OFFICERS IN THE ENGINEERING DEPARTMENT HOLDING COMMISSIONS IN THE ARMY OR NAVY (SECOND LIST).

Name.	District.	Military or Naval Rank.	Corps.
McGowan, C. R.	E. in C.O.	2nd Lieut.	Hon. Artillery Compy.
Johnson, J. A.	"	"	Royal Field Artillery.

STAFF CHANGES.

1915 October

Name.	District.	Military or Naval Rank.	Corps.
Hudson, J. A.	Testing Branch	2nd Lieut.	Royal Engineers Sig. Sect.
Herbert, R. C.	Lond. Eng. Dist.	"	9th Battn. Royal West Surrey Regt. (The Queen's).
Matthews, F.	"	"	3/24th County of Lond. Regt.
Lamb, S. E.	"	"	174th Brigade Royal Field Artillery.
Tucker, G. H.	"	"	5th Battn. Royal Fus.
Sirett, A. W.	South Wales	Lieut.	Royal Engineers Sig. Sect.
Tissington, H. G.	"	2nd Lieut.	Do.
Whitchurch, G.	"	"	"
Norman, R. D. S.	Northern	"	Roy. Engineers, Special Reserve, Sig. Sect.
Barton, C. T.	North-Western	"	Royal Field Artillery.
Laidlaw, J. B.	Scotland West	Lieut.	Asst. Military Director, Post and Telegraphs, German Cameroons.
Smith, C. P.	South Western	2nd Lieut.	14th Notts and Derby Regt.

~~STAFF CHANGES.~~~~POST OFFICE ENGINEERING DEPARTMENT.~~~~PROMOTIONS.~~

Name.	From.	To.	Date.
Ramsay, M.	Asst. Staff Engr., E. in C.O.	Staff Engr., E. in C.O.	1 : 8 : 15
Allan, W.	Exec. Engr., Seot. W. Dist.	Asst. Suptg. Engr., N. Wa. Dist.	1 : 9 : 15
Scarr, W.	Asst. Engr., E. Dist.	Exec. Engr., Technical Section, E. Dist.	13 : 8 : 15
Waller, J.	Engr., 2nd Cl., E. in C.O.	Asst. Engr., Ireland	1 : 7 : 15
Stanton, J. D.	Engr., 2nd Cl., S.W. Dist.	Asst. Engr., E. in C.O.	4 : 7 : 15
Chambers, J. L.	Chief Insp., Seot. W. Dist.	Asst. Engr., Seot. W. Dist.	To be fixed later

~~the flow of current in a three-phase circuit being included. This chapter also contains a clear and well-illustrated description of a wattmeter, and a discussion of the methods of measuring power in polyphase circuits.~~

~~In the chapter on alternations there is a good description of the different types to be met with, their general construction and windings and methods of synchronising, including a description of the "synchronoscope."~~

~~Chapter V opens with the subject of choking coils, and gives as a practical example a complete description of a "dimming switch" for electric light. The different methods of construction and transformers, the types met with, their advantages and disadvantages, and methods of testing are fully discussed.~~

~~The final chapter treats of alternating current motors, including synchronous motors, induction motors, and single phase commutator motors. A simple explanation of the working of each type is given, together with a discussion of their characteristics and spheres of usefulness. The method of constructing the "circle diagram" for induction motors is stated, and the different methods of starting explained. A very useful collection of City and Guilds and A.M.I.E.E. questions is provided at the end of each chapter, answers being given for all numerical questions. An index of formulae and a *résumé* of the vector diagrams contained in the book are somewhat novel features.~~

~~The book is well written, well illustrated, and well printed, and as a preliminary introduction to the study of alternating currents is thought to be unequalled.~~

MILITARY HONOURS.

THE Board of Editors has great pleasure in publishing the following further list of honours awarded to members of the Engineering Department on active service :

Sergeant Faithfull and Private Binks had already been awarded the Distinguished Conduct Medal, and Sergeant Scaife was mentioned in despatches. Lance-Corporal Halsall was JOURNAL representative in Manchester until called to the colours, and his distinction is particularly gratifying.

Capt A. Evans, R.E., Signal Service (Assistant Engineer, Peterborough). Mentioned in despatches.

Sergt. A. E. Faithfull, R.E., Signal Company (Skilled Workman, Class II, South-Eastern District). Awarded the Cross of the Order of St. George, 4th Class (Russian).

HONOURS

TWO EDINBURGH SECTION

Sergt. T. J. Scaife, R.E. (Skilled Workman, Class II). Awarded the Medal of St. George, 2nd Class (Russian).

Sap. F. M. Tupper, R.E., Signal Service (Unestablished Skilled Workman, London District). Awarded the Medal of St. George, 4th Class (Russian).

Pte. R. Binks, King's Royal Rifles (Labourer, Northern District). Awarded the Medal of St. George, 3rd Class (Russian). The name of Pte. Binks appeared in our Roll of Honour list of last issue—killed in action.

Lce.-Cpl. T. G. Halsall, R.E., Signal Service (Third Class Clerk, South Lancs. District). Mentioned in despatches.

Sap. George Frier, R.E., Signal Service (Skilled Workman, Class II, Scotland, E.) Awarded the Distinguished Conduct Medal.

Sergt. S. B. Andrews, Signal Coy., R.N. Div. (Skilled Workman, Class I, Eastern District). Mentioned in despatches.

Sergt. E. Pratt, Royal Warwicks (Unestablished Skilled Workman, Birmingham). Awarded the Distinguished Conduct Medal.

“ K ” COMPANY, R.E.

Lce.-Cpl. J. C. Williams. Awarded the Medal of St. George, 3rd Class (Russian).

Sap. A. E. Messenger. Awarded the Cross of the Order of St. George, 4th Class (Russian).

TWO EDINBURGH SECTION D.C.Ms.

IN our last issue attention was directed to the fact that two members of the Lincoln Section staff had gained the Distinguished Conduct Medal. Edinburgh Section now claims a similar distinction in the persons of Private W. McFarlane of the 2nd Royal Scots, and a “ braw, braw lad ” from Galashiels, Sapper George Frier, R.E.'s Signal Service.

Private McFarlane's name appeared in our October list of honours as having received the D.C.M., and in the special P.O. Circular of November 27th, appeared the following account of the deed that brought him the award :

For conspicuous gallantry as a stretcher-bearer, notably on the night of February 28th, 1915. When a company was heavily shelled on this bright night, he, with three others, went to the rescue of a wounded man, and although one of the stretcher-bearers was killed and Private McFarlane himself was wounded, they succeeded in bringing the man in.

TWO EDINBURGH SECTION D.C.M.



PTE. W. MCFARLANE, 2ND ROYAL SCOTS. D.C. MEDAL ON LEFT. KING'S SOUTH AFRICAN IN CENTRE. QUEEN'S SOUTH AFRICAN ON RIGHT.



SAPPER GEORGE FRIER, R.E., SIGNAL SERVICE.

ROLL OF HONOUR

ROLL OF HONOUR.

The photograph was taken in Edinburgh last month; McFarlane has been discharged from the Army and is now a fitter in the Section.

Sapper Frier volunteered to connect up a wire between headquarters and the trenches in face of severe fire and great danger. Along with a sergeant of the Argyle and Sutherland Highlanders he successfully carried out the work and established communication between the points.

ROLL OF HONOUR.

The Board of Editors sincerely regrets to record the deaths on active service of the undermentioned members of the Engineering Department. Fifth List. All the names are from the Army.

Name.	Rank.	District.
J. Angell	Unest. Skilled Workman	S.W.
W. H. Archer	Labourer	Eastern.
R. Ashton	"	N.W.
R. Atkinson	"	N.
W. Atkinson	Unest. Skilled Workman	S. Lancs.
F. Banks	"	London
C. J. Barratt	Youth	London
L. Barratt	"	S. Lancs.
E. Berwick	Labourer	S. Mid.
J. Brooker	"	"
J. W. Brown	"	N.
J. W. Burnett	Assistant Clerk	London
J. W. Clarke	Youth	N. Mid.
J. W. Cliffe	"	Eastern
W. J. Collins	Labourer	S.W.
E. C. Crowe	"	Eastern
F. Crummett	Unest. Skilled Workman	"
F. Dank	Boy	London
T. F. Elliott	Unest. Skilled Workman	S. Mid.
J. L. H. Firman	Labourer	Eastern
E. Hackett	"	S. Mid.
R. G. Harradine	"	S. Mid.
P. G. Heffron	"	S. Lancs.
J. W. Hogg	Unest. Skilled Workman	"
E. Jeffery	Labourer	S.E.
W. A. Kemp	"	S. Mid.
G. G. Kethel	Junior Electrical Assistant	Scot. W.
W. J. Leonard	Unest. Skilled Workman	S.E.
E. F. Levick	"	London

STAFF CHANGES.

Name.	Rank.	District.
D. S. Linklater	Unest. Skilled Workman	Scot. E.
J. N. G. Lynch	Youth	S. Mid.
G. A. Mankelow	Labourer	S.E.
W. Martin	"	S.W.
G. J. Medford	Skilled Workman, Cl. II	S. Lancs.
D. Mitchell	Unest. Skilled Workman	Scot. E.
A. Nineham	Youth	S. Mid.
M. Nolan	"	London
H. J. Rabbitts	"	S.E.
T. J. Redfern	Labourer	N.E.
F. Roberts	Clerical Assistant	"
W. G. Robinson	Labourer	N. Wa.
J. Rome	"	Eastern
J. Reeves	"	S. Wa.
S. G. Selley	Clerical Assistant	S.E.
E. R. Shepherd	Circuitman	S. Wa.
G. W. Southam	Unest. Skilled Workman	N.E.
W. F. Spiller	"	S. Mid.
J. Summer	"	"
A. Taylor	"	N. Wa.
D. Thomas	Labourer	S. Wa.
E. Ticehurst	Unest. Skilled Workman	S.E.
G. W. Valerius	"	London
A. E. Wiles	Skilled Workman, Cl. II.	N.E.
H. D. Wilson	Unest. Skilled Workman	S. Mid.
H. Woodley	Labourer	Eastern
W. E. Wright	"	London
W. E. Young	Youth	S. Mid.

~~STAFF CHANGES.~~~~POST OFFICE ENGINEERING DEPARTMENT.~~~~PROMOTION.~~

Name.	From.	To.	Date.
Smith, D.	Sub-Engr., Scot. E. Dist.	Chief Inspector, Scot. E. Dist.	29.11.15

~~"PRIVATE MACAULAY."~~

~~[From an English soldier in Flanders to a friend in South Kensington.]~~

~~I was far away in fair Courtonne,
The lads both fit and able,
Were ready there when called upon
To lay a line of cable.~~

~~The sergeant quick his whistle blew,
The lads got to their places;
And o'er the ground they simply flew,
With horses straining traces.~~

~~The shells kept bursting overhead,
To left, to right, in front, behind,
But on, and on, and on they sped,
Their line was all they seemed to mind.~~

~~They quickly changed an empty drum,
Then onward, forward, fast as ever,
As if to say, "Oh, let 'em come!
For touch us they can never!"~~

~~For we are but the common sons
Of Shamrock, Rose, and Thistle,
And care less for the German guns
Than for the sergeant's whistle.~~

~~Two miles of wire the gallants laid,
Eight minutes they expended,
When Andy from the wagon said,
"We're through, boys—signals splendid!"~~

~~'Evening News,' 1st February.~~

LIST OF OFFICERS IN THE ENGINEERING DEPARTMENT HOLDING COMMISSIONS IN THE ARMY OR NAVY (FOURTH LIST).

Name.	Office or District.	Military or Naval Rank.	Corps.
Turner, S.	E. in C.O.	2nd Lieut.	Royal Flying Corps, Wireless Sect.
Thorne, A. E.	"	"	"
Robertson, A. J.	"	"	Royal Engineers.

COMMISSIONS

ARMY AND NAVY OFFICERS.

1916 April

Name.	Office or District.	Military or Naval Rank.	Corps.
O'dell, G. F.	E. in C.O.	2nd Lieut.	Royal Engineers.
Levey, S. A. J.	"	"	West Yorks Regt.
Stiles, O. S.	"	Sub-Lieut.	R.N.V.R.
Johnson, A. S. A.	"	2nd Lieut.	Royal Engineers.
Hill, H.	"	"	"
Murphy, F.	"	"	Royal Flying Corps.
Holder, F. W. W.	London	"	Royal Engineers.
Woodhouse, B. W.	"	"	"
Applegate, F. E.	"	"	Kent Fortress Coy., Royal Engineers.
Talbot, J. N.	"	"	"
Deane, W.	"	"	Royal Engineers.
Cumberland, W. B.	"	"	"
Hogben, G. D.	"	"	Special Reserve, Royal Field Artillery.
Berkeley, P. C. O.	"	"	—
Norman, R. D. S.	Northern	"	Special Reserve, Royal Engineers.
Hammond, G. W.	North-Eastern	"	N. Signal Coy., Army Troops, R.E.
Graham, R. B.	South Lancs.	"	East Lancs. Division, Royal Engineers.
Dimond, G.	South Mid.	"	Royal Engineers.
Partridge, G. N.	South Wales	"	Royal Engineers (T.).
Woodland, S. H.	South-Western	"	Royal Engineers.
Barthwick, G.	Sub. Woolwich	Junr. Engr.	H.M.S. "Vindex."
Flovel, —	"	Lieut.	Royal Navy.

In our January issue the name of H. Yorke-Starkey was shown as 2nd Lieut. in the 2/4 Battalion Norfolk Regt. Mr. Yorke-Starkey was gazetted to the Norfolks in July last, but was transferred to the 3/1 Signal Coy., East Anglian R.E.'s, on December 15th.

The total list of officers withdrawn for active service from the Engineering Department up till February 1st is as follows:

Engineering officers	54
Chief inspectors, etc.	33
Senior " "	33
Inspectors	89
Clerical officers	833
Skilled workmen (established)	1675
" " (unestablished, labourers, youths, etc.)	6108
Other grades	377

Total 9202

In addition to the above there are 103 Royal Engineers withdrawn from Ireland.

MILITARY HONOURS.

THE Board of Editors has great pleasure in publishing the following further list of honours awarded to members of the Engineering Department on active service:

Capt. W. M. Batchelor, R.E., Signal Service (Assistant Superintending Engineer, Northern District). Mentioned in despatches twice, and awarded the Military Cross.

Capt. G. H. Comport, R.E., Signal Service (Assistant Superintending Engineer, South Midland District). Mentioned in despatches.

Capt. (temporary Major) A. S. Angwin, R.E., Signal Service (Assistant Engineer, Scotland West). Mentioned in despatches.

2nd Lieut. N. F. Cave Brown Cave, R.E., Signal Service (Assistant Engineer, North Wales). Mentioned in despatches.

Capt. (temporary Major) E. A. Lewis, R.E., Signal Service (Chief Inspector, North Wales). Mentioned in despatches.

2nd Lieut. A. J. Taylor, R.E., Signal Service (Third Class Clerk, South Wales). Mentioned in despatches.

Sergt. J. Moffatt, Highland Light Infantry (Skilled Workman, Class II, Scotland West). Awarded the Distinguished Conduct Medal.

Sap. T. R. Tombs, R.E., Signal Service (Skilled Workman, Class II, South Wales). Mentioned in despatches.

Petty Officer (First Class) F. F. Lynch, Royal Fleet Reserve (Skilled Workman, Class I, London). Awarded the Distinguished Service Medal.

Sap. W. C. McClelland, R.E., Signal Service (Unestablished Skilled Workman, London). Mentioned in despatches.

Lce.-Cpl. V. R. Pettitt, R.E., Signal Service (Unestablished Skilled Workman, London). Awarded the Distinguished Conduct Medal.

Sergt. C. F. G. Weinel, R.E., Signal Service (Skilled Workman, Class II, London). Awarded the Distinguished Conduct Medal.

Sap. F. V. Jones, R.E., Signal Service (Skilled Workman, Class II, North Western). Mentioned in despatches twice.

Sap. W. C. McClelland, R.E., Signal Service (Unestablished Skilled Workman, Scotland West). Awarded the Distinguished Conduct Medal.

Lce.-Cpl. C. T. Hendley, R.E., Signal Service (Labourer, North Midland). Awarded the Distinguished Conduct Medal.

Sap. H. H. Baxter, R.E., Signal Service (Skilled Workman, Class II North Eastern). Mentioned in despatches.

STAFF CHANGES.

Name.	Rank.	District.
A. Mearns	Skilled Workman, Cl. II	Ireland.
J. Pates	Labourer	N.E.
J. Pert	Unest. Skilled Workman	S. Mid.
T. Popplewell	Doorkeeper	S. Lancs.
G. Powell	Labourer	S. Wales.
F. P. Rivers	Boy	London
A. Robertson	Labourer	S. Mid.
E. G. Russell	"	London
W. J. Sell	Skilled Workman, Cl. II	S. Mid.
H. G. Shore	Unest. Skilled Workman	London
W. Slater	Youth	S. Lancs.
C. R. Steele	Unest. Skilled Workman	S. Wales
E. Stokes	Labourer	"
C. W. Waterman	"	S. Mid.

~~STAFF CHANGES.~~~~POST OFFICE ENGINEERING DEPARTMENT.~~~~TRANSFERS.~~

Name.	Rank.	Transferred from.	To.	Date.
Boryer, W. F.	Asst. Engr.	London	London Power	10 : 1 : 16
Martin, L. C.	"	E. in C.O.	Eastern	3 : 1 : 16
Faulkner, H.	"	"	S. Mid.	5 : 1 : 16
Kingsbury, H.	"	"	S.E.	22 : 1 : 16

~~RETIREMENTS.~~

Name.	Rank.	District.	Date.
Pollard, F.	Subm. Supt.	Cable Ship	Superantd. 22 : 2 : 16
Gray, W. J.	Asst. Engineer	" Monarch "	" 1 : 1 : 16
Poole, J.	"	E. in C.O.	" 1 : 1 : 16
Greene, T.	Clerk, 3rd Class	London Power	" 3 : 2 : 16

ROLL OF HONOUR

ROLL OF HONOUR.

Cpl. Collingbourne, R.E., Signal Service (Unestablished Skilled Workman, North Eastern). Mentioned in despatches.

Sergt. J. F. Ryan, R.E., Signal Service (Unestablished Skilled Workman). Mentioned in despatches and awarded the Medaille Militaire (French).

Pte. J. Morris, R.A.M.C. (Labourer, South Lancs.). Mentioned in despatches.

Sap. M. Maloney, R.E., Signal Service (Unestablished Skilled Workman, South Lancs.). Awarded the Distinguished Conduct Medal.

Sap. J. E. Taylor, R.E., Signal Service (Unestablished Skilled Workman, South Lancs.). Awarded the Distinguished Conduct Medal.

Driver C. T. Bold, A.S.C. (Clerical Assistant Northern District). Awarded the Distinguished Conduct Medal.

Second Corporal W. J. Hawkins, R.E., Signal Service (Labourer, London District). Awarded the Distinguished Conduct Medal.

ROLL OF HONOUR.

THE Board of Editors sincerely regrets the deaths on active service of the undermentioned members of the Engineering Department. Sixth List. With one exception all men were in the Army.

Name.	Rank.	District.
J. H. Barrett . . .	Labourer	. N. Wales.
H. N. Bartley . . .	Unest. Shorthand Writer and Typist	. E. in C.O.
F. M. Bowers . . .	Assistant Clerk	. London
W. Butcher . . .	Unest. Skilled Workman	. N. Wales.
A. C. Cook . . .	"	. S. Mid.
W. J. Criddle (Navy) . . .	"	. S. West.
D. T. Cummins . . .	Labourer	. S. Mid.
E. C. Franks . . .	Unest. Skilled Workman	. N. Mid.
J. M. Gill . . .	Labourer	. E.
G. Healey . . .	"	. N. Mid.
C. T. Hendley . . .	"	. "
W. Hickson . . .	Unest. Skilled Workman	. S. Lancs.
G. J. Hill . . .	Labourer	. London
J. A. Hupper . . .	"	. "
W. Jeffery . . .	Third Class Clerk	. "
W. Mahon . . .	Labourer	. N.W.

"Your son to-day earned the admiration and gratitude of us all by giving prompt and gallant help to a man who had fallen over-board and who otherwise might have been drowned."

BREAKDOWN IN THE MIDLANDS.

Up to the end of May, 265 members of the Staff had been withdrawn for temporary work in the Midlands to assist in repairing damage caused by the blizzard of March 28th and 29th.

CENTRAL TELEGRAPH OFFICE SECTION.

Street Tubes.—The re-arrangement of the street tube-terminals within the Central Telegraph Office has been completed, and also the substitution of modern pneumatic switches for the old double sluice valves. The work has taken two or three years, but progress was necessarily slow as no tube could be stopped for more than a few hours at a time, and, in many cases, temporary shifts had to be made to enable the final sites to be prepared for the new switches. A very great improvement in the working of the tubes has resulted.

Owing to the war, female operators will be employed, and, so far as they have been tried, they appear to have had little or no difficulty in coping with the work.

The pressure of work on one of the tubes has been so great that batches of carriers have had to be sent, and a 20 seconds timing signal has been installed to enable carriers to be inserted at regular intervals. Blockages have thereby been avoided, although ordinary signals are used only at the beginning and end of each batch.

House Tubes at Post Offices.—In spite of the war these labour-saving devices are in frequent demand, and improvements in signalling are being tried.

Telegraph Apparatus.—The more complicated modern telegraph apparatus is still in demand. Six typewriter perforators have displaced a similar number of pneumatic perforators in the News Division, and Baudots and Creeds continue to be installed.

LIST OF OFFICERS IN THE ENGINEERING DEPARTMENT HOLDING COMMISSIONS IN THE ARMY OR NAVY (FIFTH LIST).

Name.	Office or District.	Rank.	Corps.
Turner, L. B.	E. in C.O.	Capt.	General List.
Woods, E.	Scot. East.	Sub-Lieut.	R.N.V.R.

The total list of officers withdrawn for active service from the Engineering Department up till May 1st is as follows :

Engineering officers	56
Chief inspectors, etc.	35
Senior " "	28
Inspectors	97
Clerical officers	919
Skilled workmen (established)	1752
" " (unestablished, labourers, youths, etc.)	6464
Other grades	400
Total	9751

105 Royal Engineers.

MILITARY HONOURS.

THE Board of Editors has great pleasure in publishing the further list of honours awarded to members of the Engineering Department on active service :

Temporary Major E. A. Lewis, 2nd North Midland Division Signal Co., R.E. (Chief Inspector, Hanley). Awarded the Distinguished Service Order.

Company Sergeant-Major W. T. Husband, 2nd Battn. London Regiment (Royal Fusiliers) (Skilled Workman, Class II, London District). Awarded the Distinguished Conduct Medal.

Corporal A. H. Townsend, R.E., Signal Service (Unestablished Skilled Workman, North-Eastern District). Awarded the Distinguished Conduct Medal.

Lance-Corporal (Acting Corporal) C. R. Grace, R.E., Signal Service (Unestablished Skilled Workman, London District). Awarded the Distinguished Conduct Medal.

Gunner (Acting Bombardier) A. E. H. Hogarth, R.G.A. (Labourer, London District). Awarded the Distinguished Conduct Medal and the Croix de Guerre (French).

ROLL OF HONOUR.

THE Board of Editors sincerely regrets the deaths on active service of the undermentioned members of the Engineering Department. Seventh List. All the men were in the Army.

Name.	Rank.	District.
W. Adams	Labourer	Scot. E.
W. Boden	Unest. Skilled Workman	N. Wales.
S. Bull	"	S.W.
A. T. Byworth	Labourer	London
J. Campbell	"	Scot. W.
G. E. Duncombe	Youth	London
T. Farrell	Labourer	N.W.
W. Futrill	"	E.
J. Gannon	"	S. Mid.
L. Goodwin	Boy Clerk	Met. Power
W. Hanna	Assistant Engineer	N. Wales.
A. C. Havelock	Unest. Skilled Workman	London
H. G. Hawkings	"	"
J. J. Houston	Labourer	S. Wales
A. Kearney	"	London
C. A. P. T. Russell	Assistant Clerk	"
J. Stott	Unest. Skilled Workman	Scot. E.
C. Thomas	"	S. Wales.
E. Williams	"	N. Wales
R. Williams	Labourer	N. Mid.
J. Wode	Youth	N.W.

STAFF CHANGES.

POST OFFICE ENGINEERING DEPARTMENT.

PROMOTIONS.

Name.	District.	From.	To.	Date.
Macdonald, J. . . .	Submarine	Steward, Dover	Chief Steward, Woolwich	23 : 3 : 16
Henley, H. J. . . .	E. in C.O.	Asst. Clerk, London	3rd Class Clerk, Money Order Office	11 : 6 : 16

MAJOR E. A. LEWIS.

MAJOR E. A. LEWIS has been awarded the Distinguished Service Order, as announced in our last issue.

He has been on active service since the declaration of war, and in France since February of last year.

Prior to the declaration of war he was Captain in the North Midland Divisional Signal Company, Royal Engineers, Stoke-on-Trent, and while at Luton, prior to proceeding to France, he was



MAJOR E. A. LEWIS.

promoted to the rank of Major. He was mentioned in despatches early this year.

Major Lewis is a T.S. man, and joined the telegraph service in 1890. He transferred to the Engineering Department in 1903, and was in the South Wales District until 1907, when he was transferred to the North Midland District. He is now attached to the Hanley Section of the North Wales District.

Needless to say, all his colleagues are very proud of the distinction he has won.

A. E. G.

THE LATE CAPTAIN C. S. WOLSTENHOLME.

The death of Captain C. S. Wolstenholme on active service has caused great regret to those who knew him.

Mr. Wolstenholme entered the service of the National Telephone Company in February, 1897, and soon made rapid progress. He



CAPTAIN C. S. WOLSTENHOLME, 12TH DURHAM LIGHT INFANTRY.

was appointed Local Manager at Leeds in December, 1898, District Manager of East Kent in June, 1904, and Chief Engineer at Liverpool in July, 1906. On the transfer of the National Company's system to the Department he was graded as Executive Engineer, and in November, 1913, was appointed Assistant Superintending Engineer of the North Eastern District.

On the outbreak of war Mr. Wolstenholme, who had served as a volunteer for several years—first, in the ranks of the Leeds Rifles,

COMMISSIONS ARMY AND NAVY OFFICERS.

and afterwards as an artillery officer, applied for a commission and was gazetted lieutenant in the 12th Durham Light Infantry. He was promoted to a captaincy after a few months' service, and in that capacity led his company in the great attack on the German positions on July 19th. His death was instantaneous.

During his period of service with the Post Office, Mr. Wolstenholme showed himself to be a good organiser and controller of men, and letters which have been received from his Colonel and others show that the respect and liking with which he was regarded by the Post Office Staff were fully shared by officers and men in his battalion.

His death is a distinct loss to the Department as well as a personal bereavement to his colleagues. T. B. J.

LIST OF OFFICERS IN THE ENGINEERING DEPARTMENT HOLDING COMMISSIONS IN THE ARMY OR NAVY (SIXTH LIST).

Name.	Office or District.	Rank.	Corps.
Purves, T. F.	E. in C.O.	Captain	R.E.
Willmot, A. J.	Testing Branch	2nd Lieut.	Cinque Port; (Fortress Section) R.E.
Hogben, G. D.	London	„	R.F.A.
Browning, T. J.	„	„	R.W. Surrey (The Queen's)
Clarke, R. G.	„	„	R.F.A.
Taylor, C. W.	„	„	31st (Reserve) Battn., R.F.

The total list of officers withdrawn for active service from the Engineering Department up till August 1st is as follows:

Engineering officers	65
Chief inspectors, etc.	38
Senior „ „	32
Inspectors	113
Clerical officers	1003
Skilled workmen (established)	1869
„ „ (unestablished, labourers, youths, etc.)	6954
Other grades	407

Total 10,481

106 Royal Engineers.

MILITARY HONOURS.

THE Board of Editors has great pleasure in publishing the further list of honours awarded to members of the Engineering Department on active service:

Sapper J. T. Fletcher, Signal Service, R.E. (Unestablished Skilled Workman, North-Western District). Mentioned in Despatches.

Lance-Corporal (Acting Second-Corporal) H. McBryde, Signal Service, R.E. (Skilled Workman, Class II, North-Western District). Awarded the Distinguished Conduct Medal.

Bombardier A. M. Teare, R.F.A. (Clerical Assistant, North-Eastern District). Mentioned in Despatches.

Sergeant E. H. Vick, Royal Irish Fusiliers (Inspector, South Lancashire District). Awarded the Distinguished Conduct Medal.

Sergeant W. Monteith, Signal Service, R.E. (Skilled Workman, Class II, North-Western District). Awarded the Military Medal.

Private L. T. Butler, Notts and Derby Regiment (Labourer, North Midland District). Awarded the Distinguished Conduct Medal.

Petty Officer W. E. Byrne, R.F.C., R.N.A.S. (Skilled Workman, South Lancs District). Mentioned in Despatches.

Sergeant-Major E. E. Fenn, Signal Service, R.E. (Chief Inspector, North Wales District). Mentioned in Despatches.

Sergeant W. Linder, Signal Service, R.E. (Inspector, South Midland District). Mentioned in Despatches.

Lance-Corporal R. N. Webber, Signal Service, R.E. (Skilled Workman, Class II, Eastern District). Mentioned in Despatches.

Acting-Corporal H. Rose, Signal Service, R.E. (Skilled Workman, Class II, South-Eastern District). Mentioned in Despatches.

Acting-Sergeant G. H. Cole, 20th Battn. London Regiment (Third Class Clerk, London District). Awarded the Distinguished Conduct Medal.

Second-Corporal D. V. Wilton, R.E. (Wayleave Officer, Eastern District). Awarded the Military Medal.

Sapper S. M. Coe, Signal Service, R.E. (Labourer, Eastern District). Awarded the Military Medal.

Corporal F. V. Jones, Signal Service, R.E. (Skilled Workman, Class II, North-Western District). Awarded the Military Medal.

ROLL OF HONOUR.

THE Board of Editors sincerely regrets the deaths on active service of the undermentioned members of the Engineering Department. Eighth List. (N) is Navy.

Name.	Rank.	District.
S. Ackroyd . . .	Skilled Workman, Cl. II .	N.E.
W. Angus . . .	Unest. Skilled Workman .	N.
J. H. Arthur . . .	Clerical Assistant .	Scot. W.
W. H. Ashworth . . .	Assistant Clerk .	London.
J. Bagnall . . .	Labourer .	N. Wales.
C. A. Barratt . . .	Junior Clerical Assistant .	S. Lancs.
A. G. Bartlett . . .	Unest. Skilled Workman .	S. Mid.
M. N. Barton . . .	Clerical Assistant .	N.E.
C. Berghe . . .	Unest. Skilled Workman .	S. Mid.
A. Brown . . .	Labourer .	S. Wales.
J. Burnett . . .	" .	N.W.
J. H. L. Callaway . . .	Unest. Draughtsman .	S. Lancs.
M. Canning . . .	Labourer .	Ireland.
R. O. Carter . . .	" .	N.
J. A. Chalmers . . .	Unest. Skilled Workman .	London.
C. H. Chidgey . . .	Labourer .	S. Wales.
W. C. Costa . . .	" .	London.
G. Cragg . . .	Unest. Skilled Workman .	S. Lancs.
V. Cure . . .	Youth .	N.E.
A. T. Dale . . .	Labourer .	N. Wales.
C. W. Denham . . .	Clerical Assistant .	S. Mid.
C. J. Edwards . . .	Unest. Skilled Workman .	London.
B. Ephgrave . . .	Labourer .	S. Mid.
S. Fraser . . .	" .	Scot. E.
T. Fuller . . .	Unest. Skilled Workman .	S.E.
A. Fyfe . . .	Labourer .	Scot. E.
H. Goddard . . .	Youth .	N.E.
T. R. Greig . . .	Unest. Skilled Workman .	Scot. E.
W. M. Harper . . .	Skilled Workman .	Scot. W.
W. B. Hatton . . .	Labourer .	N. Wales.
H. Helsdon . . .	" .	E.
R. C. Herbert . . .	Assistant Clerk .	London.
A. Hicks . . .	Labourer .	"
T. W. Hiscoke . . .	" .	"
J. P. Houston . . .	Unest. Skilled Workman .	S. Wales.
H. F. Hubbard . . .	Youth .	London.
T. W. Hudspith . . .	Unest. Skilled Workman .	N.
G. M. James . . .	Labourer .	E.

Name.	Rank.	District.
T. A. James . . .	Unest. Skilled Workman .	S. Mid.
W. A. Jones . . .	Labourer .	S.W.
L. P. Lardner . . .	Unest. Skilled Workman .	N. Mid.
C. R. Lintott . . .	Labourer .	S.E.
P. Macvay . . .	" .	N.
H. E. Marriott . . .	Unest. Skilled Workman .	S. Mid.
G. Y. Marshall . . .	Assistant Clerk .	E. in C.O.
A. A. Martin . . .	Skilled Workman, Cl. II .	S.E.
E. Mather . . .	Unest. Skilled Workman .	S. Mid.
T. Maxwell . . .	Youth .	N.
D. McDonald . . .	Labourer .	Scot. W.
D. Nunan . . .	Youth .	Ireland.
J. T. Pearce . . .	Labourer .	S. Mid.
R. H. Perry . . .	" .	"
O. A. Robson . . .	" .	London.
R. T. Rogers . . .	Clerical Assistant .	S.W.
E. J. Roshier . . .	Labourer .	S. Mid.
J. Rowling . . .	Skilled Workman, Cl. II .	N.E.
J. W. Sharples (N) . . .	Labourer .	N.W.
F. J. Sturt . . .	" .	S.E.
A. J. Thomas . . .	Unest. Skilled Workman .	S. Mid.
W. H. Thomas . . .	Skilled Workman, Cl. II .	S. Wales.
M. Timmins . . .	Labourer .	Ireland.
W. J. Towers . . .	Unest. Skilled Workman .	N.W.
Capt. F. L. Vernon . . .	Clerical Assistant .	N.
Capt. C. S. Wolstenholme . . .	Assist. Suptg. Engineer .	N.E.

The name of J. Campbell, Scot. W., appeared in our Seventh List. His name was inserted in error; we are pleased to state that he is alive.

1917 January

LIST OF OFFICERS IN THE ENGINEERING DEPARTMENT HOLDING COMMISSIONS IN THE ARMY OR NAVY (SIXTH LIST).

Name.	Office or District.	Rank.	Corps.
J. V. Lindsay .	London .	2nd Lieut. .	R.F.A.
J. F. S. Cridland .	„ .	Sub-Lieut. .	R.N.
F. B. Haywood .	„ .	2nd Lieut. .	R.F.A.
G. H. Cole .	„ .	„ .	20th Batt. London Regt.
J. C. Pool .	Met. E.L. .	„ .	Duke of Cornwall's L.I.
L. N. Nimmo .	„ .	„ .	R.Es. S.S.
W. H. Rose .	„ .	„ .	R.F.C.
D. Armitage .	„ .	„ .	„
E. O. Richards .	South Lancs. .	„ .	27th Manchester Regt., attached to M.G.C.
W. R. Fell .	„ .	„ .	M.G.C.
J. Rigby .	„ .	„ .	„
W. Cowburn .	„ .	Lieut. .	R.E. Inland Water Transport Section
S. Cotterill .	„ .	2nd Lieut. .	3/7th Cheshire Regt. (T.)
A. J. Taylor .	South Wales .	„ .	R.E., S.S.
E. D. Careless .	„ .	„ .	„
F. J. Morris .	„ .	„ .	„
R. Aven .	„ .	„ .	20th Welsh Regt.
S. G. Bennett .	„ .	„ .	Gloucestershire Regt.
T. Pope .	South Midland .	Lieut. .	R.E., S.S.
T. F. Stevens .	„ .	Lieut. and Qmr. .	R.E.
G. C. Heathcote .	„ .	2nd Lieut. .	3/24th London Regt.
H. Faulkner .	„ .	„ .	R.E., S.S.
J. G. Haslam .	South-Eastern .	Lieut. and Qmr. .	R.E.
J. T. Kelly .	„ .	2nd Lieut. .	„

COMMISSIONS

ARMY AND NAVY OFFICERS.

Name.	Office or District.	Rank.	Corps.
G. Bishop .	South-Eastern .	2nd Lieut. .	R.E.
G. E. Appleton .	" .	" .	"
F. Penfold .	" .	Lieut. .	"
P. M. Sanger .	" .	2nd Lieut. .	R.M.A.
H. Kingsbury .	" .	" .	R.G.A.
J. F. Perrin .	Testing Branch .	" .	12th London Regt.
E. C. Blake .	" .	Sub-Lieut. .	R.N.V.R. (R.N.A.S.)
J. R. Hembrough	E.-in-C.O. .	2nd Lieut. .	R.F.C., Assis- tant Equip- ment Officer.
A. W. J. Dew .	" .	" .	Northumberland Fusiliers.
L. B. W. Jolley .	" .	" .	R.F.C., Assis- tant Equip- ment Officer.
W. E. Walton .	South-Western .	" .	R.E., S.S.
W. A. Foster .	" .	" .	3/5th Manchester Regt.
H. L. Rew .	" .	" .	R.G.A.
A. Watt .	North Midland .	" .	R.E.
W. A. Sanders .	" .	" .	3/13th London Regt.
C. E. Price .	" .	" .	R.E., S.S (Wire- less)
H. B. Robertson .	Scotland West .	" .	5th Scottish Rifles
T. Campbell .	Scotland East .	" .	R.E., S.S.
A. F. Cumming .	" .	" .	"
H. R. Emslie .	" .	" .	5th A. and S. Highlanders
J. R. Miller .	" .	" .	2nd Duke of Cornwall's L.I.
R. J. Walker .	" .	" .	Northumbrian Divisional En- gineers S.S.
E. S. Moore .	North-Eastern .	" .	R.F.C.
W. E. Walker .	" .	" .	A.S.C.
C. W. Halliday .	" .	" .	Northern Signal Co., R.E.
P. F. Craddock .	North Wales .	" .	3/6th R.W.F.
T. E. Leach .	" .	" .	15th R.W.F.
T. Flannery .	" .	" .	R.H.A.

MILITARY HONOURS.

1917 January

Name.	Office or District.	Rank.	Corps.
W. B. South	North Wales	2nd Lieut.	R.F.C.
S. B. Andrews	Eastern	Lieut.	R.E.
F. A. B. Doggett	"	"	Unit unknown
B. Pooley	"	Hon. Lieut. and Qmr.	"
L. C. Martin	"	Lieut.	R.G.A.

The total list of officers withdrawn for active service from the Engineering Department up till December 1st, 1916, is as follows:

Engineering officers	69
Chief inspectors, etc.	43
Inspectors, etc.	154
Clerical officers	1066
Skilled workmen (established)	1962
" " (unestablished, labourers, youths, etc.)	7065
Other grades	469
Total	10,828

106 Royal Engineers.

MILITARY HONOURS.

THE Board of Editors has great pleasure in publishing the further list of honours awarded to members of the Engineering Department on active service:

Sergeant S. B. Andrews, R.E. Signal Service (Skilled Workman, Class II, Eastern District). Awarded the Medaille Militaire (French).

Corporal (Acting-Sergeant) A. E. Senior, Rifle Brigade (Labourer, Eastern District). Awarded the Military Medal.

Corporal J. M. Booth, R.E. Signal Service (Unestablished Skilled Workman, North Midland District). Awarded the Military Medal.

Sergeant J. A. McGuigan, R.E. Signal Service (Unskilled Workman, South Lancs District). Awarded the Military Medal.

Captain A. Evans, R.E. Signal Service (Assistant Engineer, North Midland District). Mentioned in Despatches.

Sapper J. B. Sullivan, R.E. Signal Service (Unestablished Skilled Workman, South-Eastern District). Mentioned in Despatches.

Sapper G. Reading, R.E. Signal Service (Skilled Workman, Class II, North Wales District). Awarded the Military Medal.

HONOURS

MILITARY HONOURS.

Lance-Corporal (now Sergeant) G. C. G. Andrews, 15th Bn. London Regiment (Civil Service Rifles), (Third Class Clerk, E. in C.O.) Awarded the Military Medal.

Sapper J. F. Fletcher, R.E. Signal Service (Skilled Workman, Class II, North-Western District), Awarded the Military Medal and the D.C.M.

Lance-Corporal J. S. Coleman, R.E. Signal Service (Youth, London District). Awarded the Military Medal.

Corporal H. Knights, R.E. Signal Service (Skilled Workman, Class II, South Wales District). Awarded the Military Medal.

Acting-Second-Corporal E. G. Mallows, R.E. Signal Service (Skilled Workman, Class II, London District). Awarded the Military Medal.

Lance-Corporal W. T. Clarke, R.E. Signal Service (Unestablished Skilled Workman, London District). Awarded the Military Medal.

Lance-Corporal E. W. Mussan, R.E. Signal Service (Labourer, North-Western District). Awarded the Military Medal.

Sapper J. Walsh, R.E. Signal Service (Unestablished Skilled Workman, North-Eastern District). Awarded the Military Medal.

Sapper F. P. Wild, R.E. Signal Service (Unestablished Skilled Workman, North-Western District). Awarded the Military Medal.

Sapper W. G. Cadwallader, R.E. Signal Service (Unestablished Skilled Workman, North Wales District). Awarded the Military Medal.

Corporal (Acting-Sergeant) S. A. Finn, R.E. Signal Service (Unestablished Skilled Workman, South-Western District). Awarded the D.C.M.

Private W. Kellett, South Staffs Regiment (Labourer, North-Western District). Awarded the Military Medal.

Sergeant H. R. Bishop, Machine Gun Corps (Unestablished Skilled Workman, London District). Awarded the Military Medal.

Private W. G. Falconer, Highland Light Infantry (Clerical Assistant, Scotland West District). Awarded the Military Medal.

Sergeant L. T. Goodenough, Royal Berkshire Regiment (Temporary Draughtsman, South Midland District). Awarded the Military Medal.

Acting-Sergeant H. H. Gunther, R.E. Signal Service (Tradesman, Scotland West District). Awarded the Military Medal.

Private H. A. Plastow, Civil Service Rifles (Boy Clerk, London District). Awarded the Military Medal.

Pioneer C. W. Ray, R.E. Signal Service (Unestablished Skilled Workman, South Lancs District). Awarded the Military Medal.

Bombardier G. Hobgen, R.F.A. (killed in action) (Labourer, London District). Awarded the Military Medal and Mentioned in Despatches.

ROLL OF HONOUR.

Sapper T. J. Wheeler, R.E. Signal Service (Boy, London District).
Awarded the Military Medal,

Sergeant W. Little, King's Royal Rifles (Skilled Workman, Cl. II,
London Power District). Awarded the Military Medal.

Acting-Corporal E. Nichols, R.E. Signal Service (Youth, South-
Western District). Awarded the Military Medal.

Lance-Corporal W. H. Woodhouse, R.E. Signal Service
(Unestablished Skilled Workman, North-Western District).
Awarded the Military Medal.

In our last issue Sergeant-Major E. E. Fenn, R.E. Signal
Service, who was Mentioned in Despatches, is a Chief Inspector
attached to the Engineer-in-Chief's Testing Branch, Birmingham,
and not to the North Wales District as stated.

Sergeant W. Monteith should have been given as a North Wales
District man, and not a North-Western.

ROLL OF HONOUR.

THE Board of Editors sincerely regrets the deaths on active
service of the undermentioned members of the Engineering Depart-
ment. Ninth List.

Name.	Rank.	District.
D. Abbot . . .	Labourer . . .	Scot. E.
J. A. Adams . . .	Assistant Clerk . . .	London.
F. Amber . . .	Unest. Skilled Workman . . .	N.E.
A. C. Ansell . . .	Labourer . . .	London.
F. Armstrong . . .	Unest. Skilled Workman . . .	N.
R. Atkin . . .	Youth . . .	"
A. Austen . . .	Assistant Clerk . . .	London.
G. A. Bailey . . .	Unest. Skilled Workman . . .	S. Lancs.
G. Barrett . . .	Labourer . . .	N. Mid.
L. Barthel . . .	Youth . . .	London.
J. W. Bateman . . .	Labourer . . .	N. Mid.
J. T. Bean . . .	" . . .	E.
G. T. Bradshaw . . .	Unest. Skilled Workman . . .	N. Wales.
W. D. Brittain . . .	Youth . . .	N.
A. A. Brooks . . .	Clerk, Third Class . . .	S.E.
A. Brown . . .	Lab urer . . .	S. Lancs.
W. M. Bruce . . .	Clerical Assistant . . .	N.

ROLL OF HONOUR

ROLL OF HONOUR.

Name.	Rank.	District.
C. F. Camber . . .	Youth . . .	S.E.
R. M. Christie . . .	Labourer . . .	N.E.
S. Costall . . .	Assistant Clerk . . .	London.
C. F. Cowling . . .	Clerical Assistant . . .	E.
R. G. S. Davenport . . .	" . . .	London.
E. Davies . . .	" . . .	N. Mid.
J. R. Davis . . .	" . . .	S. Mid.
H. B. De Vere . . .	" . . .	London.
W. Douglas . . .	" . . .	N.W.
C. H. Drummond . . .	Unest. Skilled Workman . . .	Scot. W.
W. A. Dunstone . . .	Unest. Wayleave Officer . . .	N. Mid.
W. Featherstonehaugh . . .	Youth . . .	N.
2nd Lieut. A. M. Foley . . .	" . . .	S.W.
M. J. Foley . . .	Clerical Assistant . . .	Ireland.
E. G. Garland . . .	Labourer . . .	E.
T. Geraghty . . .	" . . .	Ireland.
S. Grace . . .	" . . .	N. Mid.
W. A. Grinling . . .	" . . .	E.
D. Gunn . . .	Unest. Wayleave Officer . . .	S.E.
W. E. Halling . . .	Unest. Skilled Workman . . .	S. Wales.
G. W. Herbert . . .	Clerk, Third Class . . .	E. in C.O.
G. Hobgen . . .	Labourer . . .	London.
R. Hobson . . .	Clerical Assistant . . .	Scot. W.
J. L. Holt . . .	Labourer . . .	London
J. Hunt . . .	" . . .	S.E.
J. Jack . . .	" . . .	N. Mid.
E. J. Jones . . .	Unest. Skilled Workman . . .	London.
A. Jowett . . .	Assistant Clerk . . .	E. in C.O.
D. S. Kinnear . . .	Unest. Skilled Workman . . .	Scot. E.
H. A. R. Knight . . .	Boy . . .	London.
E. W. Lawrence . . .	Labourer . . .	S. Mid.
G. A. Ludlow . . .	" . . .	N. Mid.
M. McDermott . . .	" . . .	N.
J. C. Mather . . .	Clerical Assistant . . .	N. Wales.
J. E. Mather . . .	" . . .	"
W. L. Meadows . . .	Youth . . .	S.E.
M. J. F. Morison . . .	Clerical Assistant . . .	Scot. E.
G. W. A. Muddle . . .	Labourer . . .	London.
G. S. Oakes . . .	" . . .	S.E.
H. Pearce . . .	" . . .	S. Mid.
G. A. Perry . . .	Youth . . .	London.
F. Pinchbeck . . .	Labourer . . .	N.E.
A. W. D. Pittis . . .	Assistant Clerk . . .	London.
S. A. Powell . . .	Clerk, Third Class . . .	S. Mid.

ROLL OF HONOUR.

Name.	Rank.	District.
W. A. Pugsley . . .	Youth . . .	N. Mid.
W. J. Rattray . . .	Assistant Clerk . . .	London.
M. A. Rayne . . .	Clerical Assistant . . .	E.
B. A. Reader . . .	Assistant Clerk . . .	London.
E. Reynolds . . .	Labourer . . .	N.E.
W. M. T. Rickards . . .	Boy . . .	Scot. E.
F. Riddington . . .	Labourer . . .	N. Mid.
E. R. Roberts . . .	" . . .	N. Wales.
J. E. Roe . . .	Unest. Skilled Workman . . .	"
R. H. Rolfe . . .	Labourer . . .	S.E.
W. A. Sanders . . .	Clerical Assistant . . .	N. Mid.
T. J. Scaife . . .	Skilled Workman, Cl. II . . .	N.
E. Self . . .	Boy . . .	S. Mid.
A. E. Senior . . .	Labourer . . .	E.
R. Shailer . . .	Unest. Skilled Workman . . .	"
J. Simpson . . .	Labourer . . .	N.E.
J. A. H. Slater . . .	" . . .	S. Lancs.
E. Small . . .	Clerical Assistant . . .	"
A. C. Smith . . .	Youth . . .	London.
A. R. Swayne . . .	" . . .	S. Mid.
J. R. Swindells . . .	Assistant Clerk . . .	E. in C.O.
E. C. Symonds . . .	Unest. Skilled Workman . . .	London.
H. Taylor . . .	Labourer . . .	S. Mid.
N. W. Tress . . .	Assistant Clerk . . .	E. in C.O.
W. G. Tuckfield . . .	Labourer . . .	London.
F. R. Turner . . .	" . . .	"
C. Wade . . .	Unest. Skilled Workman . . .	N. Mid.
W. P. Waller . . .	Assistant Clerk . . .	E. in C.O.
J. H. Walters . . .	Unest. Skilled Workman . . .	N. Mid.
A. R. Watson . . .	Assistant Clerk . . .	London.
C. Whelan . . .	Unest. Skilled Workman . . .	Ireland.
E. Whiteley . . .	Youth . . .	N.E.
P. H. Whitley . . .	Inspector . . .	London.
R. Winfield . . .	Unest. Skilled Workman . . .	S. Lancs.
S. P. Winfield . . .	Clerical Assistant . . .	N. Mid.
W. Wildman . . .	Unest. Skilled Workman . . .	N.E.
W. Wood . . .	" " " . . .	S.E.

~~Mr. Harrison is to be heartily congratulated upon the contents of his paper, and also for the excellence of his illustrations, which were all that illustrations should be.~~

~~An important paper by Mr. Charles Robinson was given in February, the title being "Gas Discharge Telephone Relays and their Application to Commercial Circuits."~~

~~It is not permissible to refer to the paper other than to say that when national events make it possible to proceed with its publication it will be found that the research work involved, and the progress made in developing this type of relay, will reflect great credit on the Engineering Staff of the British Post Office, and especially on the Research Section of the Engineer-in-Chief's Office.~~

~~Messrs. Stubbs, Hart, Shaughnessy, Pollock, and Tandy took part in the discussion, which will be incorporated with the paper.~~

~~On March 19th Mr. G. F. Greenham read a paper on "The Provision of a Telephone Exchange."~~

~~In view of the dispersal of many members on war work and the difficulty of conducting a satisfactory election the existing Committee, with the approval of the Council, will continue in office for another year.~~

W. G. O.

LIST OF OFFICERS IN THE ENGINEERING DEPARTMENT HOLDING COMMISSIONS IN THE ARMY OR NAVY (SEVENTH LIST).

Name.	Office or District.	Rank.	Corps.
A. Speight .	E. in C.O.	2nd Lieut.	R.E.
D. H. Kennedy .	London	Capt.	Headquarters Staff, Military Air Dept.
A. G. Tremain .	„	2nd Lieut.	R.F.C.
A. E. Godfrey .	„	„	R.E.
F. C. Barker .	„	„	21st Batt. Lon- don Regt.
T. G. Halsall .	„	„	R.E., S.S.

LIST OF OFFICERS WITHDRAWN FOR ACTIVE SERVICE UP TILL MARCH 1ST, 1917.

Engineering officers	73
Chief inspectors, etc.	43
Inspectors, etc.	157
Clerical officers	1088

Skilled workmen (established)	1988
„ „ (unestablished, labourers, youths, etc.)	7146
Other grades	487

Total . . . 10,982

106 Royal Engineers.

PROMOTION.

Captain (Honorary) T. F. Purves, R.E., to be Major (Honorary).

MILITARY HONOURS.

THE Board of Editors has great pleasure in publishing the further list of honours awarded to members of the Engineering Department on active service:

Acting-Lance-Corporal J. Pawson, R.E. Signal Service (Skilled Workman, Class II, North-Eastern District). Awarded the Military Medal.

Lance-Corporal (Acting-Sergeant) T. G. Downes, R.E. Signal Service (Skilled Workman, Class II, Eastern District). Awarded the Military Medal.

Captain (Temporary Major) W. L. de M. Carey, R.E. Signal Service (Executive Engineer, Ireland). Awarded the Distinguished Service Order and Mentioned in Despatches.

Temporary Captain G. H. Comport, R.E. Signal Service (Assistant Superintending Engineer, South Midland District). Awarded the Military Cross.

Temporary Captain A. Evans, R.E. Signal Service (Assistant Engineer, North Midland District). Awarded the Military Cross.

Temporary Lieutenant J. Legg, R.E. Signal Service (Assistant Engineer, Engineer-in-Chief's Office). Mentioned in Despatches.

Sapper W. Cain, R.E. Signal Service (Skilled Workman, Class II, South Wales District). Awarded the Military Medal.

Sapper J. Carter, R.E. Signal Service (Skilled Workman, Class II, North Wales District). Awarded the Military Medal.

Sapper F. H. McLaren, R.E. Signal Service (Labourer, North-Eastern District). Awarded the Military Medal.

Sapper S. Owen, R.E. Signal Service (Unestablished Skilled Workman, North Wales District). Awarded the Military Medal.

Company-Sergeant-Major C. H. S. Rodway, R.E. Signal Service (Second Class Clerk, London District). Mentioned in Despatches.

Sapper A. H. Wright, R.E. Signal Service (Labourer, London District). Awarded the Military Medal.

Brevet-Lieutenant-Colonel (Temporary Colonel) E. V. Turner,

MILITARY HONOURS.

R.E. Signal Service (Superintending Engineer, Ireland). Awarded the Distinguished Service Order and Mentioned in Despatches.

Temporary Captain W. M. Batchelor, M.C., R.E. Signal Service (Assistant Superintending Engineer, Northern District). Mentioned in Despatches.

Temporary Captain W. M. Evans, R.E. Signal Service (Assistant Superintending Engineer, Ireland). Mentioned in Despatches.

Temporary Lieutenant P. Dunsheath, R.E. Signal Service (Assistant Engineer, Engineer-in-Chief's Office). Mentioned in Despatches.

Temporary Lieutenant W. J. Gwilliam, R.E. Signal Service (Executive Engineer, South Midland District). Mentioned in Despatches.

Temporary Lieutenant W. S. Mountain, R.E. Signal Service (Principal Clerk, Engineer-in-Chief's Office). Mentioned in Despatches.

Second Lieutenant (Temporary Lieutenant) H. F. Picker, R.E. Signal Service (Assistant Engineer, Engineer-in-Chief's Office). Awarded the Military Cross.

Temporary Second Lieutenant B. J. Stevenson, Intelligence Corps (Second Class Engineer, Engineer-in-Chief's Office). Mentioned in Despatches.

Second Corporal A. Arnold, R.E. Signal Service (Skilled Workman, Class II, Scotland West District). Mentioned in Despatches.

Driver G. A. J. Hale, R.E. Signal Service (Youth, Engineer-in-Chief's Office). Awarded the Military Medal.

Sapper H. Kandes, R.E. Signal Service (Youth, South-Western District). Awarded the Military Medal.

Sergeant H. S. Bryant, R.E. Signal Service (Skilled Workman, Class II, South Wales District). Mentioned in Despatches.

Sapper G. H. Daitry, R.E. Signal Service (Unestablished Skilled Workman, London District). Awarded the Military Medal.

Lance-Corporal E. Scatchard, R.E. Signal Service (Unestablished Skilled Workman, South Midland District). Awarded the Military Medal.

Sergeant H. J. White, R.E. Signal Service (Skilled Workman, Class II, London District). Awarded the Meritorious Service Medal.

Sergeant W. F. Adams, R.E. Signal Service (Third Class Clerk, London District). Awarded the Military Medal.

Sapper E. Bulloch, R.E. Signal Service (Unestablished Skilled Workman, Scotland West District). Awarded the Military Medal.

Sapper J. O'Brien, R.E. Signal Service (Unestablished Skilled Workman, Scotland West District). Awarded the Military Medal.

Sapper J. O'Connor, R.E. Signal Service (Skilled Workman, Class II, Scotland West District). Awarded the Military Medal.

Sapper H. Smith, R.E. Signal Service (Unestablished Skilled Workman, North Wales District). Awarded the Military Medal.

Major J. Day, R.E. Signal Service (Executive Engineer, Ireland District). Awarded the Distinguished Service Order and Mentioned in Despatches.

Captain A. Lloyd Owen, R.E. Signal Service (Executive Engineer, Ireland District). Awarded the Military Cross.

Temporary Second Lieutenant (Temporary Captain) A. G. Lee, R.E. Signal Service (Assistant Staff Engineer, Engineer-in-Chief's Office). Mentioned in Despatches.

Sapper W. J. J. Daines, R.E. Signal Service (Youth, Eastern District). Awarded the Military Medal.

Lance-Corporal M. B. Rogers, R.E. Signal Service (Unestablished Skilled Workman, Eastern District). Awarded the Military Medal.

Acting Corporal H. Rose, R.E. Signal Service (Skilled Workman, Class II, South-Eastern District). Awarded the Meritorious Service Medal and Mentioned in Despatches.

Captain A. Evans, R.E. Signal Service (Assistant Engineer, North Midland District). Awarded the Order of the White Eagle, 5th Class (with Swords), Serbian.

Pioneer B. Crabb, R.E. Signal Service (Labourer, Scotland East District). Awarded the Military Medal.

Sapper (Acting Second Corporal) E. H. Game, R.E. Signal Service (Unestablished Skilled Workman, South-Eastern District). Awarded the Medal of St. George, 3rd Class, Russian.

Sapper W. Miller, R.E. Signal Service (Unestablished Skilled Workman, Scotland West District). Awarded the Gold Medal, Serbian.

Sapper W. J. Morton, R.E. Signal Service (Unestablished Skilled Workman, Eastern District). Awarded the Military Medal.

Sapper J. B. Sullivan, R.E. Signal Service (Unestablished Skilled Workman, South-Eastern District). Awarded the Silver Medal, Serbian.

Temporary Second Lieutenant C. W. Taylor, Royal Fusiliers (Assistant Clerk, London District). Awarded the Military Cross.

Sapper P. J. Dunne, R.E. Signal Service (Unestablished Skilled Workman, Ireland). Awarded the Military Medal.

Sapper (Acting Lance-Corporal) H. N. Ford, R.E. Signal Service (Skilled Workman, Class II, Eastern District). Awarded the Military Medal.

Sapper (Acting Sergeant) F. R. Hammond, R.E. Signal Service (Unestablished Skilled Workman, South Lancashire District). Awarded the Military Medal.

Second Lieutenant (Temporary Lieutenant) H. Cranage, R.E.,

ROLL OF HONOUR.

Signal Service (Chief Inspector, South Wales District). Mentioned in Despatches.

Sapper A. Geraghty, R.E., Signal Service (Labourer, North-Western District). Mentioned in Despatches.

ROLL OF HONOUR.

THE Board of Editors sincerely regrets the deaths on active service of the undermentioned members of the Engineering Department. Tenth List.

Name.	Rank.	District.
T. Armstrong . . .	Unest. Skilled Workman .	Scot. E.
E. Astle . . .	Temporary Draughtsman.	London.
W. Bamber . . .	Labourer .	N. Wales.
R. Biddle . . .	Unest. Skilled Workman .	S. Wales.
G. Bradley . . .	Labourer .	London.
J. C. Bray . . .	Clerical Assistant .	N. Mid.
A. T. Ekers . . .	Skilled Workman, Cl. II .	S.E.
H. Elliott . . .	Youth .	S. Lancs.
E. C. Evans . . .	Unest. Skilled Workman .	London.
A. W. Eyles . . .	Labourer .	"
J. A. Exley . . .	Youth .	"
J. Finch . . .	" .	N. Wales.
C. Garrick . . .	Boy .	Scot. E.
W. H. Goodall . . .	Labourer .	Eastern.
F. Green . . .	Skilled Workman, Cl. II .	Scot. W.
W. Hamilton . . .	Labourer .	"
H. A. Harris . . .	Unest. Skilled Workman .	N. Wales.
E. Hill . . .	" " " .	Scot. E.
G. Holt . . .	Labourer .	S. Lancs.
J. Holt . . .	" .	S. Mid.
B. Kempsey . . .	" .	N. Wales.
F. G. Lee . . .	Unest. Skilled Workman .	Met. Power.
G. Maclean . . .	Labourer .	Scot. E.
C. E. J. Mansell . . .	Unest. Skilled Workman .	S. Wales.
J. Mansell . . .	Skilled Workman, Cl. II .	S. Wales.
J. W. Marsden . . .	Youth .	North-Western.
W. M. More . . .	Unest. Skilled Workman .	London.
A. H. T. Morgan . . .	Inspector .	S.W.
R. Oxley . . .	Unest. Skilled Workman .	S.E.
D. L. Parker . . .	Youth .	Scot. W.
J. Parker . . .	Labourer .	London.
A. H. Pearce . . .	" .	Eastern.
A. Rankin . . .	Unest. Skilled Workman .	London.
J. P. Ross . . .	Clerk, Third Class .	Scot. W.
C. E. Russell . . .	Unest. Skilled Workman .	London.
G. F. Sharpe . . .	Skilled Workman, Cl. II .	Scot. W.
J. Shiels . . .	" " " .	Ireland.
A. A. Stooke . . .	Skilled Workman, Cl. II .	N. Mid.
H. C. Stretch . . .	Labourer .	Eastern.
A. B. Tatlow . . .	Clerical Assistant .	N. Mid.

STAFF CHANGES

STAFF CHANGES

Name.	Rank.	District.
G. F. Trotman	Labourer	London.
B. Tupper	Youth	"
F. E. Ward	Labourer	S. Mid.
A. E. Western	"	London.
E. R. Whitehead	Youth	"
J. B. Wilks	Unest. Skilled Workman	S. Wales.

~~STAFF CHANGES.~~~~POST OFFICE ENGINEERING DEPARTMENT.~~~~RETIREMENT.~~

Name.	Rank.	District.	Date.
Crane, J.	Executive Engr.	S. Lancs.	31.12.16

~~TRANSFERS.~~

Name.	Rank.	Transferred from.	To.	Date.
De Wardt, R. G.	Asst. Engr.	E. in C.O.	Scotland West	22.1.17

~~DEATHS.~~

Name.	Rank.	District.	Date.
Martin, A. W.	Staff Engineer	E. in C.O.	14.2.17
Stubbs, W. J.	Executive Engineer	N. Mid. Dist.	16.2.17
*Brooks, A. A.	Clerk, 3rd Class	S.E. Dist.	14.11.16
*Powell, S. A.	"	S. Mid. Dist.	17.11.16
*Ross, J. P.	"	Scot. W. Dist.	27.12.16
Austin, F.	"	S. Mid. Dist.	18.2.17

* Killed in action.

~~BOARD OF EDITORS.~~

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~~COMMUNICATIONS.~~

All Remittances and Communications should be addressed to the MANAGING EDITOR, P.O.E.E. JOURNAL, Engineer-in-Chief's Office, G.P.O. West, London, E.C.

Binding covers and copies of the Contents Index for Vol. 9 are now available, and may be obtained from the local agents for 1s. and 2d. respectively. Subscribers can have their copies bound, with index included, at a cost of 1s. 9d., by sending the JOURNALS to the local agents. Orders should indicate whether the original binding covers, or the later pattern, are required.

A supply of the first instalment of the Station List of Engineering Officers eligible for membership of the Institution, issued with the April, 1914, number of the JOURNAL, and including all officers down to Assistant Engineers, is in stock, and copies can be obtained on demand, price 3d. each.

~~without a knowledge of their general principles and the forms of receiving currents most suitable for the reception of either spark or continuous waves. On p. 72 the author uses the words "induced" and "produced" in reference to the magnetic field from a current in a wire, in the same sense, and this may confuse an elementary student. On p. 155 there appears to be a misprint $Lp = \frac{i_s}{T^2}$ being given instead of $Lp = \frac{Ls}{T^2}$.~~

~~On the whole the book is one which we would recommend every student of telegraphy as well as of wireless telegraphy to read as the effort of absorbing the salient facts of the subject is rendered very small by the simplicity of the method of explanation.~~

~~E. H. S.~~

LIST OF OFFICERS IN THE ENGINEERING DEPARTMENT HOLDING COMMISSIONS IN THE ARMY OR NAVY (EIGHTH LIST).

Name.	Office or District.	Rank.	Corps.
J. H. Watkins	E. in C.O.	2nd Lieut.	R.E.S.S.
W. Harris	"	"	Gen. List, attd. to Egypt. Labour Corps.
L. J. Farries	"	"	R.G.A.
J. N. Hill	London	"	R.F.C.
P. J. Bonfield	"	"	6th Worcesters.
J. E. Smales	Northern	"	D.L.I.
F. W. Gaskins	"	"	62nd (W. Riding).
G. A. Blackwell	"	"	63rd Northumbn. Div. Sig. Co. R.E.
H. W. Jackson	"	Lieut.	13th Northumb Fusiliers.
J. W. Brown	"	2nd Lieut.	5th Res. Batt., D.L.I.
T. G. Halsall	S. Lancs.	"	R.E.S.S.
G. C. Marris	"	"	"
R. W. Hunt	"	"	R.E., I.W.T.
W. Hunt	"	"	R.E.S.S.
L. P. Bartlett	S. Mid.	"	Royal Berks. (killed 9/4/17).
L. T. Goodenough	"	"	Royal Berks.
W. H. Shrimpton	"	"	R.F.A.
E. Johnson	S. West	Sub-Lt.	R.N.V.R.

MILITARY HONOURS.

THE Board of Editors has great pleasure in publishing the further list of honours awarded to members of the Engineering Department on active service:

Corporal G. F. Bush, R.E. Signal Service (Unestablished Skilled Workman, South Midland District). Awarded the Military Medal.

Sapper J. Duckett, R.E. Signal Service (Skilled Workman, Class II, South Lancs. District). Awarded the Military Medal.

Sapper A. H. Haines, R.E., Signal Service (Skilled Workman, Class II, South Wales District). Awarded the Military Medal.

Lance-Corporal A. T. Kingston, R.E. Signal Service (Skilled Workman, Class II, Northern District). Awarded the Distinguished Conduct Medal.

Sergeant S. A. Powell, R.E. Signal Service (Third Class Clerk, South-Midland District). Awarded the Military Medal. Died of wounds.

Squadron Quarter-Master-Sergeant W. H. Schofield, R.E. Signal Service (Third Class Clerk, South Midland District). Awarded the Meritorious Service Medal.

Second Class Air Mechanic H. T. Taylor, R.F.C. (Labourer, London District). Awarded the Military Medal.

Lance-Corporal J. T. Harrod, R.E. Signal Service (Labourer, London District). Awarded the Military Medal.

Sapper (now Lance-Corporal) C. F. Robson, R.E. Signal Service (Unestablished Skilled Workman, Northern District). Awarded the Military Medal.

Lance-Corporal H. A. Sadler, R.E. Signal Service (Skilled Workman, Class II, Northern District). Awarded the Distinguished Conduct Medal and the Military Medal.

Sergeant R. H. Calderwood, R.E. Signal Service (Third Class Clerk, Scotland West District). Mentioned in Despatches.

Sapper H. H. Baxter, R.E. Signal Service (Skilled Workman, Class II, North Eastern District). Awarded the Silver Medal (Serbian).

Staff Quartermaster-Sergeant C. Eaton, Army Ordnance Corps (Assistant Clerk, London District). Awarded the Meritorious Service Medal.

Private E. J. Wentworth, Argyll and Sutherland Highlanders (Wayleave Officer, London District). Awarded the Military Medal.

Second Corporal A. R. Wallworth, R.E. Signal Service (Skilled Workman, Class II, North Wales District). Mentioned in Despatches.

Bombardier A. M. Teare, R.F.A. (Clerical Assistant, North-Eastern District). Awarded the Military Medal.

Major (Temporary Lieutenant-Colonel) K. E. Edgeworth, M.C., R.E. Signal Service (Executive Engineer, Ireland). Mentioned in Despatches.

Temporary Captain W. M. Batchelor, M.C. (Assistant, R.E. Signal Service; Superintending Engineer, Northern District). Mentioned in Despatches.

Temporary Lieutenant H. Carter, R.E., Signal Service (Assistant Engineer, E. in C.O.). Mentioned in Despatches.

Temporary Lieutenant (Acting Captain) H. C. Hannam-Clark, R.E. Signal Service (Assistant Engineer, E. in C.O.). Mentioned in Despatches.

Temporary Lieutenant J. A. Hudson, R.E. Signal Service (Third Class Clerk, Testing Branch, E. in C.O.). Mentioned in Despatches.

Temporary Lieutenant R. D. S. Norman, R.E. Signal Service (Third Class Clerk, Northern District). Mentioned in Despatches.

Lance-Corporal E. T. Bevan, R.E. (Skilled Workman, Class II, South Wales District). Awarded the Médaille Militaire.

Sapper H. M. Morris, R.E. Signal Service (Youth, North-Eastern District). Awarded the Military Medal.

Sapper W. H. Wright, R.E. Signal Service (Unestablished Skilled Workman, North Wales District) Awarded the Military Medal.

Lieutenant T. Pope, R.E. Signal Service (Chief Inspector, South Midland District). Mentioned in Despatches.

Sapper W. R. Bunce, R.E. Signal Service (Unestablished Skilled Workman, London District). Awarded the Military Medal.

Corporal H. H. Harding, R.E. Signal Service (Skilled Workman, Ireland District). Awarded the Military Medal.

Sergeant T. C. Binnington, R.E. Signal Service (Third Class Clerk, North-Eastern District). Mentioned in Despatches.

Sapper W. Heasman, R.E. Signal Service (Unestablished Skilled Workman, South Midland District). Awarded the Military Medal.

Sapper J. Lee, R.E. Signal Service (Skilled Workman, Class II, Scotland East District). Awarded the Military Medal.

ROLL OF HONOUR.

THE Board of Editors sincerely regrets the deaths on active service of the undermentioned members of the Engineering Department. Eleventh List.

Name.	Rank.	District.
W. Acton . . .	Youth . . .	S. Lancs.
G. Allsebrook . . .	Labourer . . .	N. Mid.
J. R. Bain . . .	Junior Clerical Assistant . . .	N.W.
Sec. Lieut. L. P. Bartlett	Clerical Assistant . . .	S. Mid.
A. T. Bedwell . . .	Labourer . . .	S.E.
G. Bertram . . .	Unest. Wayleave Officer . . .	Scot. E.
J. E. Birtwistle . . .	Unest. Skilled Workman . . .	N.E.
G. Booth . . .	Unest. Skilled Workman . . .	S. Lancs.
W. C. Brooks . . .	Assistant Clerk . . .	London.
J. H. Bryant . . .	Youth . . .	N.E.
T. Burlinson, jr. . .	" . . .	"
H. H. Butcher . . .	Labourer . . .	London.
A. F. Chesham . . .	Test Clerk . . .	E. in C. Testing.
W. R. Clements . . .	Skilled Workman, Cl. II . . .	S.E.
G. Clucas . . .	Labourer . . .	S.E.
W. C. Cochran . . .	Youth . . .	S. Lancs.
E. Coulson . . .	Labourer . . .	N.
J. Cowell . . .	Unest. Skilled Workman . . .	S. Lancs.
Lieut. (temp. Capt.) P. F. Craddock	Skilled Workman, Cl. II . . .	N. Wales.
F. W. Curry . . .	Labourer . . .	N.
Sec. Lieut. A. W. J. Dew	Assistant Clerk . . .	E. in C.O.
J. Dewar . . .	Labourer . . .	Scot. W.
A. W. French . . .	Clerical Assistant . . .	S. Lancs.
C. J. Gent . . .	Skilled Workman, Cl. II . . .	London.
O. J. Gray . . .	Assistant Clerk . . .	Met. Power.
G. C. Grigg . . .	Youth . . .	London.
C. W. Grylls . . .	Clerical Assistant . . .	S. Mid.
C. H. Harper . . .	Skilled Workman, Cl. II . . .	Scot. W.
J. Harris . . .	Labourer . . .	S. Mid.
A. Harrison . . .	Clerical Assistant . . .	N. Mid.
W. Haslam . . .	" . . .	S. Mid.
G. O. Hellis . . .	Unest. Skilled Workman . . .	London.
J. Heriot . . .	Clerical Assistant . . .	Scot. E.
H. M. Horsley . . .	Labourer . . .	N.E.
E. Hudson . . .	Labourer . . .	S. Mid.

ROLL OF HONOUR

ROLL OF HONOUR.

Name.	Rank.	District.
A. J. Iles . . .	Unest. Skilled Workman .	S.W.
W. Imrie . . .	" " "	Scot. W.
A. G. Jenkins . . .	Skilled Workman, Cl II .	S. Wales.
H. E. Kipps . . .	Assistant Clerk .	London.
W. Knowles . . .	Labourer .	S.W.
W. J. Leonard . . .	" .	London.
E. Lovesay . . .	Skilled Workman .	"
C. H. Marsh . . .	Labourer .	"
L. Masters . . .	Unest. Skilled Workman .	London.
W. Matthew . . .	Clerical Assistant .	Scot. E.
F. Mawby . . .	" " .	S. Lancs.
D. Mcfarlane . . .	Youth .	Scot. W.
R. Mein . . .	Clerical Assistant .	Scot. E.
E. Monks . . .	Unest. Skilled Workman .	S. Lancs.
R. H. Neilson . . .	Youth .	Scot. W.
H. J. Newman . . .	Skilled Workman, Cl. II .	S.W.
G. Noble . . .	Skilled Workman, Cl II .	Scot. E.
T. A. Noise . . .	Clerical Assistant .	London.
J. Osborne . . .	Labourer .	"
E. Parrington . . .	Clerical Assistant .	N.W.
Sec.Lieut.(Temp.Lieut.)		
H. F. Picker, M.C. . .	Assistant Engineer .	E. in C.O.
W. V. Riley . . .	Youth .	S. Lancs.
J. Rodger . . .	" .	Scot. W.
W. T. Slaymaker . . .	Unest. Skilled Workman .	S.W.
H. Stone . . .	Liftman .	Met. Power.
Sec. Lieut. C. W.		
Taylor	Assistant Clerk .	London.
J. Thompson . . .	Youth .	N.
T. W. W. Thompson . . .	Labourer .	N. E.
F. Vaughan . . .	Youth .	N. Mid.
W. H. Vize . . .	Labourer .	N. Wales.
J. W. Waugh . . .	" .	N.
W. G. Welch . . .	Skilled Workman, Cl. II .	N. Wales.
E. StC. Winebloom . . .	Clerical Assistant .	N.E.
H. E. Younger . . .	Unest. Skilled Workman .	S. E.

HONOURS

MILITARY HONOURS.

~~method of taking periodical readings of both specific gravity and terminal P.D. on discharge of the individual cells of a battery allows the advantages of specific gravity regulation to be made use of when conditions permit, at the same time preventing trouble being overlooked.~~

~~The two cells to which 8 refers were in the same battery and received precisely the same treatment at every stage from erection. The "bad" cell was never short circuited, and every effort was made to bring it up to its rated capacity by working and additional charging without avail. The trouble was traced to the positive plates (see 9), and new ones were fitted. It was then actually a "bad" cell, though the argument applies equally well to a "faulty" cell, using that term for a cell which, though out of order, can be cured by treatment, whereas no remedy but replating is of use for a "bad" cell.~~

~~Yours faithfully,~~

~~CORK;~~

~~T. J. MONAGHAN.~~

~~August 22nd, 1917.~~

MILITARY HONOURS.

THE Board of Editors has great pleasure in publishing the further list of honours awarded to members of the Engineering Department on active service:

Major (Acting Lieutenant-Colonel) K. E. Edgeworth, M.C., R.E. Signal Service (Executive Engineer, Ireland). Awarded the Distinguished Service Order.

Major and Bt. Lieutenant-Colonel (Temporary Colonel) E. V. Turner, D.S.O., R.E. Signal Service (Superintending Engineer, Ireland). Awarded the Military Order of Savoy (Cavalier), Italian.

Temporary Lieutenant P. J. Cottle, R.E. Signal Service (Assistant Engineer, E. in C.O.). Awarded the Military Cross.

Temporary Second Lieutenant (Temporary Captain) A. G. Lee, R.E. Signal Service (Assistant Staff Engineer). Awarded the Military Cross.

Second Lieutenant (Temporary Lieutenant) J. Legg, R.E. Signal Service (Assistant Engineer, E. in C.O.). Awarded the Silver Medal for Military Valour, Italian.

Second Class Air Mechanic J. H. Beaven, R.F.C. (Unestablished Skilled Workman, London District). Awarded the Military Medal.

Sapper H. H. Macleod, R.E. Signal Service (Unestablished Skilled Workman, Scotland West District). Mentioned in Despatches.

Second Corporal H. J. Moores, R.E. Signal Service (Skilled

Workman, Class II, South Lancs District). Awarded the Distinguished Conduct Medal.

Corporal A. E. Adams, R.F.C. (Unestablished Wayleave Officer South Western District). Mentioned in Despatches.

Corporal J. A. Dunn, Royal Fusiliers (Labourer, London District). Awarded the Military Medal.

Captain (Temporary Major) A. S. Angwin, R.E. Signal Service Assistant Engineer, Scotland West District). Mentioned in Despatches.

Sapper W. E. Ramsden, R.E. Signal Service (Skilled Workman, Class II, North-Eastern District). Awarded the Military Medal.

Temporary Lieutenant W. G. Carter, R.E. (Executive Engineer, Met. Power District). Mentioned in Despatches.

Second Corporal J. Dick, R.E. Signal Service (Third Class Clerk, Scotland West District). Mentioned in Despatches.

Sapper O. Hardick, R.E. Signal Service (Youth, South-Western District). Awarded the Military Medal.

Sapper P. M. Jones, R.E. Signal Service (Skilled Workman, Class II, South-Westren District). Awarded the Military Medal.

Sapper T. Platt, R.E. Signal Service (Unestablished Skilled Workman, South Lancs District). Awarded the Military Medal.

Second Corporal H. W. Read, R.E. Signal Service (Inspector, South-Western District). Mentioned in Despatches.

Sapper F. Alcock, R.E. Signal Service (Unestablished Skilled Workman, North-Western District). Awarded the Distinguished Conduct Medal.

Second Corporal H. J. Allies, R.E. Signal Service (Wayleave Officer, South Wales District). Awarded the Military Medal, and Mentioned in Despatches.

Sapper F. Armin, R.E. Signal Service (Youth, North Midland District). Awarded the Military Medal.

Sergeant T. B. George, R.E. Signal Service (Third Class Clerk, London District). Awarded the Military Medal.

Sapper H. Kandes, R.E. Signal Service (Labourer, South-Western District). Awarded a Bar to the Military Medal.

Corporal W. Norbury, R.E. Signal Service (Skilled Workman, Class II, North Wales District). Awarded the Distinguished Conduct Medal.

Corporal F. H. Squire, R.F.C. (Skilled Workman, Class II, London District). Awarded the Military Medal.

Sapper R. Stevenson, R.E. Signal Service (Inspector, Scotland West District). Awarded the Military Medal.

Captain A. E. McCloskey, Ceylon Volunteer Forces (formerly E. in C.O.). Brought to the notice of the Secretary of State for War for valuable services rendered in connection with the war.

ROLL OF HONOUR

ROLL OF HONOUR.

Second Lieutenant J. Ross, The King's (Liverpool) Regiment (Clerical Assistant, North Wales District). Awarded the Military Cross.

Sergeant J. Donaldson, R.E. Signal Service (Unestablished Wayleave Officer, Scotland East District). Awarded the Military Medal.

Sapper T. Waterman, R.E. Signal Service (Junior Clerical Assistant, Northern District). Awarded the Military Medal.

Corporal E. Lilley, R.E. Signal Service (Skilled Workman, Class II, North Eastern District). Mentioned in Despatches, and awarded the Meritorious Service Medal.

Sapper G. Y. Mackay, R.E. Signal Service (Clerical Assistant, Scotland West District). Awarded the Distinguished Conduct Medal.

Sapper A. Robertson, R.E. Signal Service (Junior Clerical Assistant, Scotland West District). Awarded the Military Medal.

ROLL OF HONOUR.

THE Board of Editors sincerely regrets the deaths on active service of the undermentioned members of the Engineering Department. Twelfth List.

Name.	Rank.	District.
E. F. Anscombe	Youth	London.
A. E. Banks	Labourer (Navy)	E.
J. H. Bellamy	Clerical Assistant	N. Wales.
R. J. Chambers	Unest. Skilled Workman	N. Wales.
G. Cleeve	" " "	S.E.
A. G. Couchman	Clerical Assistant	S. Mid.
J. M. Counsellor	Labourer	N.
D. G. Davies	Youth	S. Mid.
J. Deas	Labourer	Scot. E.
W. C. Dennis	"	S. Mid.
C. Duckett	Unest. Skilled Workman	S. Lancs.
A. H. Edge	Youth	"
A. S. Freeman	Skilled Workman, Cl. II	S.W.
W. H. Gatsell	Labourer	Met. Power.
J. C. Gosling	Youth	S. Lancs.
P. K. Gracie	Unest. Skilled Workman	Scot. E.
C. W. E. Grant	Boy	London.
L. Haines	Assistant Clerk	"

ROLL OF HONOUR.

ROLL OF HONOUR

Name.	Rank.	District.
H. Haslam . . .	Youth	N. Mid.
J. Haw . . .	Labourer	N.
S. Hawyes . . .	"	S. Wales.
P. J. Heading . . .	"	London.
W. Hicks . . .	Draughtsman, Second Cl.	E.-in-C.O.
S. E. Honeybourne . . .	Unest. Skilled Workman	London.
F. Hunt . . .	Youth	S. Mid.
W. C. Irving . . .	Unest. Skilled Workman	Scot. W.
T. Y. Jenkins . . .	Clerical Assistant	Scot. E.
H. Jones . . .	Youth	S. Lancs.
W. Kellett . . .	Labourer	N.W.
A. King . . .	Youth	N.
W. E. T. Langford . . .	Boy	London.
J. R. Lennox . . .	Labourer	"
H. Louch . . .	Skilled Workman, Cl. II	S. Mid.
T. A. Macey . . .	Youth	London.
E. J. Malone . . .	Unest. Skilled Workman	S. Lancs.
P. Mooney . . .	" " "	"
R. C. Murchison . . .	" " "	Scot. E.
T. Myers . . .	Labourer	N.E.
W. McWilliam . . .	Skilled Workman, Cl. II.	Scot. W.
J. Parker . . .	Labourer	Scot. W.
S. G. Rennie . . .	Unest. Skilled Workman	London.
W. Roberts . . .	" " "	N. Wales.
V. W. Sagon . . .	Third Class Clerk	S. Mid.
A. G. Salter . . .	Unest. Skilled Workman	London.
J. H. Sawyers . . .	Labourer	Scot. E.
A. B. Shanks . . .	Clerical Assistant	Scot. W.
H. C. Skinner . . .	Assistant Clerk	E.-in-C.O.
A. F. Stevens . . .	Youth	S. Mid.
G. Stubley . . .	Labourer	N. Wales.
C. Temple . . .	Unest. Skilled Workman	London.
J. I. Townshend . . .	Labourer	E.
J. Wardell . . .	"	S. Mid.
W. S. A. Woodward . . .	Unest. Skilled Workman	S.W.
A. R. Wran . . .	Skilled Workman, Cl. II	S. Wales.
D. C. Wyatt . . .	" " "	N. Mid.

HONOURS

MILITARY HONOURS.

~~No terrier ever worried a bone -
As these lads do a microphone.
Enamelled cable they handle with ease,
In trench, or on surface, or up in the trees.
The problems presented by cells wet and dry
Melt away as the mists when the sun's in the sky,
While their answers come pat without trace of evasion,
As they cite all the symptoms of polarisation.
Condensers, induction coils, cordless boards, keys,
Won't puzzle the boys when they go overseas,
And the Huns must admit that our lads are hard hitters,
Should they handle the guns as they do their transmitters.
Receiving and sending their progress is sure,
For speed upwards trends, while the errors are fewer.
Of cells inert "S" I should like half a score,
Also progressive reports, kindly send me some more.~~

MILITARY HONOURS.

THE Board of Editors has great pleasure in publishing the further list of honours awarded to members of the Engineering Department on active service:

Sergeant A. J. Knight, Post Office Rifles (Clerical Assistant, North Midland District). Awarded the Victoria Cross. The report in the 'London Gazette,' detailing the deeds of valour performed by Sergeant Knight, reads:

"For most conspicuous bravery and devotion to duty during the operations against the enemy positions.

"Sergeant Knight did extraordinary good work, and showed exceptional bravery and initiative when his platoon was attacking an enemy strong point, and came under very heavy fire from an enemy machine-gun. He rushed through our own barrage, bayoneted the enemy gunner, and captured the position single-handed.

"Later, twelve of the enemy with a machine-gun were encountered in a shell-hole. He again rushed forward by himself, bayoneted two and shot a third, and caused the remainder to scatter.

"Subsequently, during the attack on a fortified farm, when entangled up to his waist in mud, and seeing a number of the enemy firing on our troops, he immediately opened fire on them without waiting to extricate himself from the mud, killing six of the enemy.

"Again noticing the company on his right flank being held up in their attack on another farm, Sergeant Knight collected some men

and took up a position on the flank of this farm, from where he brought a heavy fire to bear on the farm, as a result of which the farm was captured.

"All the platoon officers of the company had become casualties before the first objective was reached, and this gallant N.C.O. took command of all the men of his own platoon and of the platoons without officers. His energy in consolidating and reorganising was untiring.

"His several single-handed actions showed exceptional bravery, and saved a great many casualties in the company. They were



SERGEANT A. J. KNIGHT, V.C., POST OFFICE RIFLES.

performed under heavy machine-gun and rifle fire, and without regard to personal risk, and were the direct cause of the objectives being captured."

The following description by an officer eye-witness is taken from the 'Nottingham Daily Express' of November 12th, and gives a fuller account of the consistent gallantry of Sergeant Knight:

"My own view is," says the writer, "that the deed which won the recommendation for the Cross for Knight was the finest deed of the whole war. He has had a consistently good record, and the deeds mentioned in the official statement were deeds such as any man might be proud of. On the day I speak of, the battalion with which Knight was serving came in for a rough handling. They had advanced over very difficult ground, and were in the open without any available cover. Suddenly fire was opened on them from a machine-gun post which had not up to then been located. The attack from this

HONOURS

MILITARY HONOURS.

quarter was sudden, and the fire so deadly that the situation was most critical. What made matters worse was the fact that our own barrage was just creeping forward in front of us, and to attack and silence this new enemy it was necessary to dash through our barrage as well as the machine-gun fire.

"Knight was one of the first to come under fire, and he stood on a spot swept by bullets. He never lost his head. He dashed ahead in spite of the rain of bullets from the machine-gun, in spite of the heavy barrage from our own guns, and drove his bayonet into the German working the gun. The rest of them took to their heels, and left the brave sergeant in possession of the post. That made possible our advance a stage further, and we went on until we came to some broken ground, where the enemy had established a chain of machine-gun posts in shell-holes. In one of these holes about a dozen of the enemy were posted with a machine-gun, which they kept firing across and sweeping the ground with a very fierce fire.

"Fixing his bayonet, Knight said, 'I'm after this, boys,' and simply went for the whole bunch of the enemy as though it were only sham-fighting. He got in with the bayonet on two of the enemy, though they were trying their hardest to bring him down, and he shot a third. The other chaps didn't like the look of the thing, so they made off, and once more our line swept forward, thanks to the fine courage of this fine soldier.

"On another occasion our men were having a mud bath in their efforts to get at a position. Knight floundered into a very bad mud patch and was held up to the waist, but he saw a chance of turning his bad luck to good account, and, anchored out there in the mud, he opened fire on the enemy holding the farm, and when he had killed about half a dozen, the enemy thought they had enough of him, so they cleared off, and once again our line surged forward. It was an uneven advance, because the adjoining company was held up by heavy machine-gun fire, and a frontal attack seemed to be as good, or as bad, as suicide.

"Knight got together a party of his men, went forward with them, and attacked the enemy in flank. They gave way, and the attack was successful. It is not exaggerating to say that the entire command of the troops in these operations fell on Knight, and had he failed the chances are that the whole of the work put in in that particular push would have been in vain.

"The heroism and ability of Sergeant Knight have been the subject of special consideration by his superiors, and more notice will be taken of him with the object of securing for the Army in a more responsible position the services of one who is a born leader of men. He is idolised by his comrades, who have absolute confidence in his judgment, and his courage is infectious. The men

would follow him anywhere. He is a thoroughly fine type of soldier, and a credit to his regiment and the district to which he belongs. Withal he is a modest man, and would be the last to claim that he has done more than his duty in the war. He was commended for good work before the latest instance, and his superiors had already formed a high opinion of him."

Sapper J. Brough, R.E. Signal Service (Skilled Workman, North-Midland District). Awarded the Military Medal.

Private R. Murray, Argyll and Sutherland Highlanders (Clerical Assistant, Scotland East District). Mentioned in Despatches.

Temporary Second Lieutenant J. T. Kelly, R.E. Signal Service (Third Class Clerk, South-Eastern District). Awarded the Military Cross and a Bar.

Sapper P. W. Christie, R.E. Signal Service (Unestablished Skilled Workman, Northern District). Awarded the Croix de Guerre.

Lance-Corporal H. J. Langley, Middlesex Regiment (Youth, London District). Awarded the Military Medal.

Sapper N. Lowes, R.E. Signal Service (Unestablished Skilled Workman, Northern District). Awarded the Military Medal.

Able Seaman F. McArdle, R.N.V.R. (Youth, Northern District). Awarded the Distinguished Service Medal.

Lance-Corporal H. S. Pearce, R.E. Signal Service (Youth, South Midland District). Awarded the Distinguished Conduct Medal.

Temporary Lieutenant A. J. Robertson, R.E. Signal Service (Third Class Clerk, E. in C.O.). Awarded the Military Cross.

Temporary Lieutenant P. W. Turner, R.E. Signal Service (Third Class Clerk, E. in C.O.). Awarded the Croix de Guerre.

Lance-Corporal F. Baldwin, R.E. Signal Service (Skilled Workman, Class II, North-Western District). Awarded the Military Medal.

Sapper G. M. Godfrey, R.E. Signal Service (Skilled Workman, Class II, South Midland District). Awarded the Distinguished Conduct Medal.

Sapper A. V. Hull, R.E. Signal Service (Labourer, London District). Awarded the Military Medal.

Lance-Corporal W. J. Lye, R.E. Signal Service (Skilled Workman, Class II, London District). Awarded the Military Medal.

Sergeant W. G. Seller, R.F.A. (Wayleave Officer, London District). Awarded the Military Medal.

Sergeant J. Buckley, R.E. Signal Service (Skilled Workman, Class II, North-Eastern District). Awarded the Military Medal.

Sergeant J. G. Gladman, A.O.C. (Clerical Assistant, South-Eastern District). Mentioned in Despatches.

ROLL OF HONOUR

ROLL OF HONOUR.

Corporal J. J. Hodgson, R.E. Signal Service (Labourer, North-Eastern District). Awarded the Military Medal.

Second Corporal R. W. Danby, R.E. Signal Service (Labourer, North-Eastern District). Awarded the Military Medal.

Lance-Corporal G. D. Doe, R.E. Signal Service (Third Class Clerk, London District). Awarded the Military Medal.

Private H. C. Edward, P.O. Rifles (Skilled Workman, Class II, London District). Awarded the Military Medal.

Sapper H. Parkinson, R.E. Signal Service (Unestablished Skilled Workman, North-Western District). Awarded the Military Medal.

Gunner W. Williams, R.G.A. (Wayleave Officer, North Wales District). Awarded the Military Medal.

Lieutenant J. N. Talbot, R.E. Signal Service (Inspector, London District). Awarded the Military Cross.

Corporal C. F. Easthill, London Regiment (Labourer, London District). Awarded the Military Medal.

Sergeant P. N. L. Pellandine, The Buffs (Youth, London District). Awarded the Distinguished Conduct Medal.

Sapper W. Simpson, R.E. Signal Service (Youth, South Lancs District). Awarded the Military Medal.

Private J. J. Burke, R.A.M.C. (Labourer, Eastern District). Awarded the Military Medal.

Temporary Second Lieutenant A. Watt, R.E. Signal Service (Clerical Assistant, North Midland District). Awarded the Military Cross.

Corporal G. Odell, R.E. Signal Service (Unestablished Skilled Workman, South Midland District). Awarded the Military Medal.

Acting Corporal A. S. Price, R.E. Signal Service (Unestablished Skilled Workman, South-Eastern District). Awarded the Military Medal.

ROLL OF HONOUR.

THE Board of Editors sincerely regrets the deaths on active service of the undermentioned members of the Engineering Department. Thirteenth List.

Name	Rank	District
A. M. Adamson	Unest. Skilled Workman	Scot. E.
W. E. J. Baker	Labourer	S.E.
E. W. Boyes	Skilled Workman, Cl. I.	N. Mid.
S. Burrows	Youth	S. Lancs.
H. J. M. Campbell	Unest. Skilled Workman	S.W.

ROLL OF HONOUR.

1918 January

Name.	Rank.	District.
G. W. Childs	Labourer	S.E.
H. Chipperfield	Unest. Skilled Workman	London.
G. Clark	Labourer	S. Lancs.
J. A. Collins	"	N.E.
J. Connor	Unest. Skilled Workman	London.
R. Cordiner	Youth	Scot. E.
T. Cross	Assistant Clerk	London.
W. Currie	Labourer	N.E.
J. E. Cutler	Skilled Workman, Cl. II	S. Mid.
R. Dickinson	Youth	S. Lancs.
P. J. Duane	Unest. Skilled Workman	Ireland.
T. W. Ellis	Labourer	London.
W. W. Fairclough	Youth	N.W.
J. D. Farquharson	"	S. Lancs.
A. E. Franklin	Unest. Skilled Workman	S. Wales.
W. Fulford	Labourer	S. Mid.
J. Fyfe	Unest. Skilled Workman	Scot. E.
G. Garner	Skilled Workman, Cl. II	S. Mid.
W. C. Garrett	Youth	S.E.
J. Gray	Unest. Skilled Workman	Scot. W.
A. Green	Labourer	N.E.
J. C. Griffiths	Youth	S. Lancs.
R. H. Hall	Tradesman	"
R. J. Harris	Unest. Skilled Workman	S. Wales.
T. Harrison	Labourer	N.W.
A. J. Heseltine	"	N.E.
C. Hooker	Unest. Skilled Workman	N. Mid.
D. James	" " "	S. Wales.
A. Jullians	" " "	S. Mid.
W. Lawson	Youth	Scot. E.
A. V. Keefe	"	London.
C. S. G. Machain	Unest. Skilled Workman	S. Mid.
R. McLaughlin	Skilled Workman, Cl. II	Scot. W.
T. Male	Unest. Skilled Workman	S.W.
B. T. Masters	Labourer	S. Mid.
A. H. Mead	Unest. Skilled Workman	S.W.
G. F. P. Muraille	Assistant Clerk	London.
F. G. Musselwhite	Unest. Skilled Workman	"
J. H. Newell	Labourer	S.E.
A. J. Nickols	Youth	London.
T. Potter	Unest. Draughtsman	N.W.
W. M. Prestwood	Labourer	N.E.
W. Ranson	"	London.
J. Reynolds	"	N.E.

1918 January

STAFF CHANGES

STAFF CHANGES.

Name.	Rank.	District.
A. J. Sampson	Clerk, Cl. III	E.
T. Slater	Youth	S. Lancs.
F. G. Southern	Unest. Skilled Workman	S. Lancs.
J. Steels	Labourer	N.E.
W. A. Stuckey	Unest. Skilled Workman	London.
S. Taylor	Assistant Clerk	"
G. Turnbull	Skilled Workman, Cl. II	Scot. W.
H. E. I. Wing	Tempy. Clerk	E.-in-C.O.

~~STAFF CHANGES.~~

~~POST OFFICE ENGINEERING DEPARTMENT.~~

~~RETIREMENTS.~~

Name.	Rank.	District.	Date.
Osborne, F. C.	Assistant Engineer	E. in C.O.	22 : 11 : 17
Fisher, G. T.	2nd Class Engineer	Ireland	19 : 10 : 17

~~TRANSFER.~~

Name.	Rank.	Transferred from.	To.	Date.
France, W. M.	Staff Engineer	Engineer in Chief's Office.	N. Mid. Dist.	1 : 11 : 17

~~DEATHS.~~

Name.	Rank.	District.	Date.
Williams, E.	Accountant	E. in C.O.	10 : 11 : 17
Melville, E. G.	Clerk, Class III.	S. Wales	17 : 10 : 17

MILITARY HONOURS.

THE Board of Editors has great pleasure in publishing the further list of honours awarded to members of the Engineering Department on active service:

Second Lieutenant H. L. Rew, R.G.A. (Clerical Assistant, South-Western District). Awarded the Military Cross.

Lance-Corporal W. Bell, R.E. Signal Service (Lineman, North Wales District). Awarded the Military Medal.

Lance-Corporal S. Meddings, R.E. Signal Service (Lineman, North Wales District). Awarded the Military Medal.

Petty Officer, 1st Class, T. R. Pells, Royal Fleet Reserve (Liftman, Metropolitan Power District). Mentioned in Despatches.

Sapper J. F. Russell, R.E. Signal Service (Clerical Assistant, Scotland West District). Mentioned in Despatches.

Corporal J. S. Coleman, R.E. Signal Service (Youth, London District). Awarded a Bar to the Military Medal.

Sapper (Acting Lance-Corporal) G. H. Daltry, R.E. Signal Service (Unestablished Skilled Workman, London District). Awarded the Distinguished Conduct Medal.

Private F. Downard, Royal Fusiliers (Unestablished Draughtsman, South Lancashire District). Awarded the Military Medal.

Pioneer (Acting Corporal) F. O. Pease, R.E. Signal Service (Unestablished Skilled Workman, London District). Awarded the Distinguished Conduct Medal and the Military Medal.

Pioneer E. Rawlin, R.E. Signal Service (Labourer, North Midland District). Awarded the Military Medal.

Sapper C. Reading, R.E. Signal Service (Skilled Workman, Class II, North Wales District). Awarded the Distinguished Conduct Medal, and the Military Medal with a Bar.

Company Sergeant-Major C. H. S. Rodway, R.E. Signal Service (Clerk, Second Class, London District). Mentioned in Despatches.

Lance-Corporal W. A. Rudge, R.E. Signal Service (Labourer, North Wales District). Awarded the Military Medal.

Private R. S. G. Whiley, Worcester Regiment (Labourer, South Wales District). Awarded the Military Medal.

Sergeant W. J. Bell, R.E. Signal Service (Skilled Workman, Class II, London District). Awarded the Distinguished Conduct Medal.

Gunner R. N. Taylor, R.G.A. (Labourer, South Lancs District). Awarded the Military Medal.

Staff Quartermaster-Sergeant S. F. Bonner, Army Service Corps (Clerical Assistant, South Midland District). Awarded the Meritorious Service Medal.

Quartermaster-Sergeant G. F. Greaves, Oxford and Bucks

Light Infantry (Assistant Clerk, London District). Mentioned in Despatches.

Temporary Second Lieutenant (Acting Lieutenant) C. T. Barton, R.F.A. (Clerical Assistant, North-Western District). Awarded the Military Cross.

Sergeant H. Butler, R.E. Signal Service (Skilled Workman, Class I, South Midland District). Mentioned in Despatches.

Private R. S. Forse, Gloucester Regiment (Labourer, South-Western District). Awarded the Distinguished Conduct Medal.

Corporal J. Gorman, R.E. Signal Service (Skilled Workman, Class II, South Lancs District). Awarded the Distinguished Conduct Medal.

Corporal E. Mason, R.E. Signal Service (Skilled Workman, South Midland District). Awarded the Distinguished Conduct Medal.

Captain R. J. S. Gold, Civil Service Rifles (Second Class Clerk, Engineer-in-Chief's Office). Mentioned in Despatches.

Regimental Quartermaster-Sergeant A. H. King, King's Royal Rifles (Unestablished Skilled Workman, South Lancs District). Mentioned in Despatches.

Sergeant G. Hornsby, R.E. Signal Service (Skilled Workman, Class II, London District). Awarded the Military Medal and a Bar.

Bombardier E. A. Newman, R.H.A. (Labourer, London District). Awarded the Distinguished Conduct Medal.

Sergeant W. H. Nightingale, R.E. Signal Service (Unestablished Skilled Workman, London District). Awarded the Military Medal.

Pioneer E. Sorensen, R.E. Signal Service (Unestablished Skilled Workman, Ireland). Awarded the Military Medal.

Second Lieutenant B. W. Woodhouse, R.E. Signal Service (Inspector, London District). Awarded the Military Cross.

Sapper S. Ballott, R.E. Signal Service (Skilled Workman, Class II, South Wales District). Awarded the Military Medal and Mentioned in Despatches.

Lance-Corporal W. Dagnall, R.E. Signal Service (Skilled Workman, Class II, North Wales District). Awarded the Military Medal.

Sergeant R. S. McDougall, R.E. Signal Service (Skilled Workman, Class II, Scotland West District). Awarded the Distinguished Conduct Medal and Mentioned in Despatches.

First Class Wireman S. F. Heath, R.N. (Unestablished Skilled Workman, North Wales District). Mentioned in Despatches.

Second Corporal J. Elliott, R.E. Signal Service (Skilled Workman, Class II, Scotland East District). Awarded the Military Medal.

Sapper D. Gibb, R.E. Signal Service (Unestablished Skilled Workman, Scotland East District). Awarded the Military Medal.

Able Seaman W. James, R.N.V.R. (Third Class Clerk, South-Eastern District). Mentioned in Despatches.

Corporal G. M. Atkinson, R.E., Signal Service (Skilled Workman, Class II, North-Eastern District). Awarded the Military Medal.

Driver S. B. Granger, R.F.A. (Unestablished Skilled Workman, London District). Awarded the Military Medal.

Sapper L. J. Juden, R.E. Signal Service (Youth, London District). Awarded the Military Medal.

Sapper P. W. Webb, R.E. Signal Service (Labourer, Eastern District). Awarded the Military Medal.

Private J. Simpson, West Riding Regiment (Unestablished Skilled Workman, North-Eastern District). Awarded the Military Medal.

Lance-Corporal W. H. Cattermole, R.E. Signal Service (Unestablished Skilled Workman, South Lancs District). Awarded the Military Medal.

Lance-Corporal E. A. Scammell, Middlesex Regiment (Labourer, London District). Awarded the Military Medal.

Lance-Corporal G. Stretch, R.E. Signal Service (Skilled Workman, Class II, North Wales District). Awarded the Military Medal.

Medals of the Most Excellent Order of the British Empire have been awarded to the following for services in connection with the war in which great courage or self-sacrifice has been displayed :

Charles Armes, Cable Foreman, employed on cable ships and small craft in connection with war work in dangerous waters.

John Thomas Barber, Carpenter, employed on cable ships and small craft in connection with war work in dangerous waters.

George Patrick Campbell, Carpenter, employed on cable ships and small craft in connection with war work in dangerous waters.

James Henry Davies, Skilled Workman, showed habitual courage in carrying out repairs to submarine cables in difficult and dangerous waters.

Henry Etheridge, Skilled Workman, employed on cable ships and small craft in connection with war work in dangerous waters.

William Heather, Cable Foreman, employed on cable ships and small craft in connection with war work in dangerous waters.

Thomas Hickey, Skilled Workman, has displayed great courage while carrying out telegraph work under dangerous conditions.

William Charles Hicks, Skilled Workman, has rendered valuable service since the beginning of the war. Has remained at his post absolutely alone day and night, in spite of danger from submarine or other attacks.

George William Hobbs, Boatswain, employed on cable ships in connection with war work in dangerous waters.

Horace Ivin, Skilled Workman, has done valuable service under dangerous conditions, repairing submarine cables carrying naval and military wires.

Maurice Jones, Inspector, has carried out two very dangerous missions, successfully passing through hostile lines at great personal risk.

Patrick Lambe, Skilled Workman, rendered very valuable service in picking up and repairing wires which had been shot down.

Robert Andrew Lockwood, Skilled Workman, has done exceptional service during rough weather in effecting repairs to submarine cables carrying naval and military wires.

Tom Oliver Lodder, Skilled Workman, showed great courage and devotion while in charge of a telegraph station, carrying out his duties under fire.

John Joseph Christopher Monks, Skilled Workman, on many occasions continued his work under fire, displaying great zeal and courage.

Edward Henry Lewis Owen, Cable Hand, employed on cable ships and small craft in connection with war work in dangerous waters.

Henry William John Porter, Skilled Workman, showed courage and devotion to duty during repeated air raids. On one occasion he returned to work on the restoration of naval circuits while explosions were taking place fifty yards away.

James Gordon Ross, Skilled Workman, displayed great courage and resource in maintaining telephonic communication during an air raid.

Sydney Simpson, Skilled Workman, showed great courage as well as resource on the occasion of a very severe explosion at adjoining munition works. He sent away to a safe place the women operators, and himself maintained uninterrupted telephonic communication.

Sidney Arthur Stammers, Cable Hand, employed on cable ships and small craft in connection with war work in dangerous waters.

George Gilbert Sutcliffe, Inspector, rendered valuable service in the construction and maintenance of telephones during fire.

Daniel Vincent Ward, Inspector, displayed courage and resource while Controlling Officer in a neighbourhood exposed to many bombardments by sea-craft and aeroplanes.

James Winter, Inspector, rendered special service in repairing wires under very dangerous conditions, and was frequently under fire.

*Officers withdrawn for Active Service from the Engineering Department
up till March 1st, 1918.*

Engineering Officers	76
Chief Inspectors, etc.	49
Senior " "	17
Inspectors	160
Clerical Officers	1174
Skilled Workmen (Established)	2084
" " (Unest. Labourers, Youths, etc.)	7797
Other Grades	511
	11,868

In addition 106 R.E.'s from Ireland.

ROLL OF HONOUR.

THE Board of Editors sincerely regrets the deaths on active service of the undermentioned members of the Engineering Department. Fourteenth List.

Name.	Rank.	District.
E. R. Adcock	Skilled Workman, Cl. II .	S.W.
A. R. Begbie	Labourer	London.
T. Beswick	Skilled Workman, Cl. II .	N.W.
R. W. Blacklock	Clerical Assistant	N.
H. E. Chaplain	Labourer	London.
R. W. W. Collingwood	"	S. Lancs.
A. E. Collins	Labourer	London.
T. Cox	Unest. Skilled Workman .	"
J. M. Craig	" " "	Scot. E.
A. Currie	Labourer	"
A. Daniels	"	"
W. A. G. Dobson	Youth	London.
H. R. Emslie	Clerical Assistant	Scot. E.
2nd Lieut. J. Goodwin	" "	Scot. W.
H. Hay	Skilled Workman, Cl. II .	"
B. J. Hibbert	Youth	N. Mid.
C. H. N. Hilton	Clerical Assistant	N.E.
E. E. Hunn	Inspector	N. Mid.
G. A. Hymas	Labourer	London.
F. W. Jenkins	Unest. Skilled Workman .	S. Wales.
A. K. King	Skilled Workman, Cl. I .	E. in C.O.
W. H. Law	Labourer	London.

STAFF

STAFF CHANGES.

Name.	Rank.	District.
J. Lawrence . . .	Unest. Skilled Workman .	London.
E. H. Luker . . .	Skilled Workman, Cl. II .	"
S. Mackay . . .	Youth .	Scot. E.
W. Mason . . .	Skilled Workman, Cl. II .	N. Mid.
C. McLeod . . .	Labourer .	Scot. W.
G. McMaster . . .	Slater .	Scot. W.
S. Matthews . . .	Clerical Assistant .	N.W.
W. S. Philp . . .	Skilled Workman, Cl. II .	London.
F. V. Read . . .	Boy Clerk .	E. in C.O.
H. W. Scowen . . .	Labourer .	London.
F. T. Smith . . .	" .	S. Lancs.
W. B. Souster . . .	" .	S. Mid.
T. R. Thomas . . .	Unest. Skilled Workman .	S. Wales.
H. J. Wilmot . . .	" " " .	S.W.
A. J. Wilson . . .	" " " .	London.
J. T. Wright . . .	Youth .	N.

~~STAFF CHANGES.~~~~POST OFFICE ENGINEERING DEPARTMENT.~~~~PROMOTIONS.~~

Name.	From.	To.	Date.
Powell, G. T. . . .	Clerk, Class H, South-West Dist.	Clerk, Class I, Northern Dist.	25.2.18
Ritchie, W. . . .	Clerk, Class H, Scotland East Dist.	Clerk, Class I, Scotland East Dist.	1.2.18
Matthews, T. E. . .	Clerk, Class III, North Midland Dist.	Clerk, Class H, South Lanes Dist.	26.2.18
McKee, W. C. . . .	Clerk, Class III, Ireland Dist.	Clerk, Class H, Ireland Dist.	30.1.18
Watson, W. G. . . .	Clerk, Class III, South-West Dist.	Clerk, Class H, South-West Dist.	25.2.18

~~RETIREMENT.~~

Name.	Rank.	District.	Date.
Slader, E.	Executive Engr.	Scot. E. Dist.	25.1.18

1918 July

~~Taking the example given in his communication in the April, 1917, number. No. 1 wire gave a resistance of 120 ohms, of which 100 ohms represented line resistance and 20 ohms "earth." Another wire was then placed in parallel and the reading was 70 ohms. The natural inference is that No. 2 wire has a resistance of 168 ohms, as $\frac{120 \times 168}{120 + 168} = 70$. But Mr. Jack says no, No. 2 wire is in intimate contact with No. 1 at the fault, and the reading obtained is a result of a joint resistance of $\frac{100 \times 100}{100 + 100} = 50$, plus the original 20 ohms earth. But how is one to recognise this? How is one to discover, testing for an unknown fault, that the resistance of the line only has been halved by joining the wires in parallel?~~

~~I maintain that it would be an incorrect assumption in ninety-nine out of one hundred cases.~~

~~Yours faithfully,~~

~~E. TURNER.~~

MILITARY HONOURS.

THE Board of Editors has great pleasure in publishing the further list of honours awarded to members of the Engineering Department on active service:

Second Corporal (acting Corporal) C. J. Courtier, R.E. Signal Service (Wayleave Officer, South-Western District). Mentioned in Despatches.

Sapper A. Webb, R.E. Signal Service (Youth, South Midland District). Awarded the Military Medal.

Sapper G. W. Booth, R.E. Signal Service (Unest. Wayleave Officer, North-Eastern District). Awarded the Military Medal.

Lance-Corporal G. F. W. Gates, R.E. Signal Service (Skilled Workman, London District). Mentioned in Despatches.

Sapper R. H. Laws, R.E. Signal Service (Unestablished Skilled Workman, Northern District). Awarded the Military Medal.

Sapper D. Hannah, R.E. Signal Service (Skilled Workman, Class II, Northern District). Awarded the Military Medal.

Sapper (Acting Corporal) T. W. Drysdale, R.E. Signal Service (Skilled Workman, Class II, Scotland West District). Awarded the Military Medal.

Wireman, 1st Class, S. F. Heath, R.N. (Unestablished Skilled Workman, North Wales District). Awarded the Distinguished Service Medal.

Second Corporal W. H. Ward, R.E. Signal Service (Unestablished Skilled Workman, South Lancs District). Awarded the Military Medal.

Sergeant-Major T. A. Breese, R.A.F. (Skilled Workman, Class I, North Wales District). Brought to the notice of the Secretary for War for valuable services.

Sapper (Acting Sergeant) Z. C. Clark, R.E. Signal Service (Skilled Workman, Class II, North-Eastern District). Awarded the Croix de Guerre (Belgian).

Sapper (Acting Corporal) E. Kirk, R.E. Signal Service (Skilled Workman, Class II, North-Eastern District). Awarded the Croix de Guerre (Belgian).

Private R. Martin, Civil Service Rifles (Assistant Clerk, London District). Awarded the Military Medal.

Sapper T. H. Symonds, R.E. Signal Service (Third Class Clerk, London District). Awarded the Distinguished Conduct Medal and Mentioned in Despatches.

Corporal (acting Sergeant) G. E. Wood, R.E. Signal Service (Inspector, London District). Mentioned in Despatches.

Captain (Temporary Major) A. S. Angwin, M.C., R.E. Signal Service (Assistant Engineer, Scotland West District). Awarded the Distinguished Service Order.

Temporary Captain P. J. Cottle, M.C. (R.E. Signal Service (Assistant Engineer, E.-in-C.O.)). Awarded the Croix de Guerre (Belgian).

Sapper (acting Second Corporal) W. E. Alder, R.E. Signal Service (Labourer, South Midland District). Awarded the Military Medal.

Driver H. F. Randall, R.F.A. (Labourer, London District). Awarded the Military Medal.

Temporary Captain W. M. Evans, R.E. Signal Service (Assistant Superintending Engineer, Ireland District). Awarded the Military Cross.

Temporary Captain H. C. Hannam-Clark, R.E. Signal Service (Assistant Engineer, South-Eastern District). Mentioned in Despatches.

Second Lieutenant (acting Captain) H. Cranage, R.E. Signal Service (Chief Inspector, South Wales District). Awarded the Military Cross.

Corporal W. N. Johnson, R.E. Signal Service Unestablished Skilled Workman, South-Eastern District). Awarded the Order of Leopold II—Chevalier (Belgian).

Major and Brevet Lieutenant-Colonel (Temporary Colonel) E. V. Turner, D.S.O., R.E. Signal Service (Superintending Engineer, Ireland District). Mentioned in Despatches.

ROLL OF HONOUR

ROLL OF HONOUR.

Temporary Captain (Acting Major) W. M. Batchelor, M.C., R.E. Signal Service (Assistant Superintending Engineer, Northern District). Mentioned in Despatches.

Captain P. Dunsheath, R.E. Signal Service (Assistant Engineer, E.-in-C.O.). Mentioned in Despatches.

Lieutenant J. R. Hemborough, R.A.F. (Assistant Engineer, E.-in-C.O.). Mentioned in Despatches.

Lieutenant (Acting Captain) F. Reid, R.E. (Assistant Engineer, E.-in-C.O.). Mentioned in Despatches.

Lieutenant E. S. Roberts, R.E. (Second Class Clerk, E.-in-C.O.). Mentioned in Despatches.

Second Corporal E. Hunter, R.E. Signal Service (Skilled Workman, Class II, North-Eastern District). Awarded the Military Medal.

Private F. M. Kelly, R.A.M.C. (Skilled Workman, Class II, Scotland East District). Awarded the Military Medal.

Acting Chief Petty Officer F. F. Lynch, Royal Fleet Reserve (Skilled Workman, Class I, London District). Awarded a Bar to the Distinguished Service Medal.

Lance-Corporal W. H. Taylor, R.E. Signal Service (Skilled Workman, Class II, South Lancs District). Awarded the Military Medal.

Corporal F. E. Wilson, R.A.F. (Labourer, East District). Awarded the Meritorious Service Medal.

ROLL OF HONOUR.

THE Board of Editors sincerely regrets the deaths on active service of the undermentioned members of the Engineering Department. Fifteenth List.

Name.	Rank.	District.
J. B. Adcock . . .	Unest. Skilled Workman .	London.
C. Alford . . .	Skilled Workman, Cl. II .	N. Mid.
R. Anderson . . .	Clerical Assistant .	Scot. W.
C. W. Babb . . .	Unest. Skilled Workman .	S.W.
G. S. Bain . . .	Clerical Assistant .	N.W.
W. W. Bidwell . . .	Unest. Skilled Workman .	E.
C. O. Bishop . . .	Labourer .	N. Wales.
G. Bode . . .	" .	London.
2nd Lieut. E. P. Boys .	Clerical Assistant .	S.E.
G. Bufton . . .	Assistant Clerk .	E. in C.O.

ROLL OF HONOUR.

ROLL OF HONOUR.

Name.	Rank.	District.
I. Bulmer . . .	Youth . . .	N.E.
C. Butterill . . .	Unest. Skilled Workman . . .	"
A. E. Carter . . .	" " " . . .	London.
A. R. H. Chapman . . .	Labourer . . .	"
S. Cooper . . .	Unest. Skilled Workman . . .	N. Mid.
H. Creed . . .	Skilled Workman, Cl. II . . .	S.E.
H. W. Dowd . . .	Skilled Workman, Cl. I . . .	S. Lancs.
W. B. Duff . . .	Skilled Workman, Cl. II . . .	Scot. E.
F. J. Dunn . . .	Assistant Clerk . . .	London.
P. E. Faulkner . . .	Labourer . . .	"
2nd Lieut. F. J. Gatward . . .	Clerical Assistant . . .	E.
E. Griffiths . . .	Unest. Skilled Workman . . .	S. Wales.
H. Grundy . . .	Labourer . . .	N. Wales.
F. W. Gutteridge . . .	Unest. Skilled Workman . . .	London.
H. J. Hammond . . .	Labourer . . .	E.
W. F. Harrow . . .	Skilled Workman, Cl. II . . .	London.
W. T. Hoare . . .	Labourer . . .	N. Mid.
B. A. Jones . . .	Junior Clerical Assistant . . .	S. Wales.
J. Junor . . .	Unest. Skilled Workman . . .	Scot. W.
J. Kennedy . . .	" " " . . .	S. Lancs.
H. J. Laws . . .	Skilled Workman, Cl. II . . .	London.
G. Leeson . . .	Unest. Skilled Workman . . .	Scot. W.
2nd Lieut. D. Lynch . . .	Third-Class Clerk . . .	S.E.
H. Marshall . . .	Unest. Skilled Workman . . .	Scot. E.
D. F. McLachlan . . .	Clerical Assistant . . .	"
A. McLellan . . .	Labourer . . .	Scot. W.
G. H. Morley . . .	" . . .	N.W.
J. O'Driscoll . . .	" . . .	Ireland.
H. J. Press . . .	Youth . . .	London.
T. H. Priestley . . .	Labourer . . .	"
A. F. Quartly . . .	Youth . . .	"
J. Seed . . .	Labourer . . .	N.W.
W. A. F. Sellick . . .	Unest. Skilled Workman . . .	London.
J. Simpson . . .	Labourer . . .	N.E.
C. Sivills . . .	" . . .	N.
G. Smith . . .	Unest. Skilled Workman . . .	S. Lancs.
E. T. Stanley . . .	Skilled Workman, Cl. II . . .	E.-in-C.O.
D. Storey . . .	Labourer . . .	Ireland.
J. Taylor . . .	Skilled Workman, Cl. II . . .	"
J. Teasdale . . .	Clerical Assistant . . .	S. Mid.
C. L. Wallace . . .	Youth . . .	Scot. W.
M. R. Waller . . .	Unest. Skilled Workman . . .	S.E.
W. Wallis . . .	" " " . . .	S. Mid.
A. J. Waters . . .	Labourer . . .	London.

1918 July

Name.	Rank.	District.
E. C. Wheeler . . .	Unest. Skilled Workman .	S. Mid.
W. White . . .	Skilled Workman, Cl. I .	Scot. W.
C. Wright . . .	Labourer .	N.E.

~~A BREEZE FROM CEYLON'S ISLE.~~

~~THE following letter from Mr. G. H. Schofield will no doubt prove of interest to his many friends throughout the Service :~~

~~CENTRAL TELEGRAPH OFFICE,
COLOMBO,~~

~~February 15th, 1918.~~

~~DEAR MR. NOBLE, —I arrived here safe and sound on the 12th of last month after a most interesting voyage of practically six weeks to find "our Mac." was just as cheerful as ever, altered neither in speech nor dress, except the latter was white, and he had on a big "pig-sticker" topee. He is the big white chief out here, the Press reporting his official movements as they do those of the Premier at home. Personally, up to the present, I am very pleased with the change. There is plenty of work of all descriptions, and I have been placed in charge of the Colombo Telephone Service in particular, though the out-stations, small exchanges, and lines are also under my supervision; I say for the present, because everyone tells me I shall soon become very home-sick, and long to leave the most beautiful isle in the sea.~~

~~I thought of your anticipated voyage round the world after retirement as our boat crept into the different ports, or we sighted land and sailed along parallel with the African coast, giving a glimpse of Algiers and beyond, the mountains and the desert.~~

~~Leaving Plymouth in the afternoon we were soon past the Eddy-stone light, and I saw the last of England. I was now really off, and I must make the best of everything, good or bad.~~

~~Thirteen other vessels and two war sloops formed the convoy, and so we proceeded to Malta without a stop, where owing to enemy submarines we had to shelter for eight days, ultimately sailing at sunset. They saw us, however, and fired a torpedo, missing the stern by 5 ft. The other thirteen vessels had left us at Gib., so that the men-of-war on either side were able to give the Huns their whole attention; that was their first and last attempt.~~

~~Malta is a most interesting place, the cathedral with its many magnificent works of art being especially worthy of attention, beating anything I have seen in Europe, including Cologne.~~

~~Port Said was our next stop, and as we entered the harbour we all felt relieved that our anxiety on being sunk by a "tin fish" was over. Here I saw my first Egyptians, and was much amused~~

MILITARY HONOURS.

THE Board of Editors has great pleasure in publishing the further list of honours awarded to members of the Engineering Department on active service:

Sapper W. L. Roden, R.E. Signal Service (Youth, Ireland District). Awarded the Military Medal.

Temporary Major W. M. Batchelor, M.C., R.E. Signal Service (Assistant Superintending Engineer, Northern District). Awarded the Distinguished Service Order.

Temporary Captain R. D. S. Norman, R.E. Signal Service (Third Class Clerk, Northern District). Awarded the Military Cross.

Corporal G. Bray, R.E. Signal Service (Unestablished Skilled Workman, Eastern District). Awarded the Military Medal.

Corporal (Acting Sergeant) A. W. Ashbee, R.A.F. (Inspector, South-Western District). Awarded the Meritorious Service Medal.

Battery Sergeant-Major R. D. Crighton, R.F.A. (Labourer, Scotland East District). Awarded the Croix de Guerre (Belgian).

Sapper N. James, R.E. Signal Service (Labourer, Northern District). Awarded the Distinguished Conduct Medal.

Sapper E. Johnson, R.E. Signal Service (Clerical Assistant, Northern District). Awarded the Military Medal.

Captain W. G. Carter, R.E. Signal Service (Executive Engineer, Metropolitan Power District). Awarded the Military Cross.

Corporal C. J. Courtier, R.E. Signal Service (Unestablished Wayleave Officer, South-Western District). Awarded the Meritorious Service Medal.

Temporary Sergeant-Major H. P. Grabaskey, R.A.F. (Assistant Clerk, London District). Mentioned in Despatches.

Corporal R. Ramsay, R.E. Signal Service (Unestablished Skilled Workman, Scotland East District). Awarded the Military Medal.

Lance-Corporal A. J. H. Cook, R.E. Signal Service (Assistant Clerk, London District). Awarded the Military Medal.

Lance-Corporal E. G. Minett, London Regiment (Labourer, London District). Awarded the Military Medal.

Sapper E. T. Price, R.E. Signal Service (Youth, South Wales District). Awarded the Military Medal.

Sapper E. H. Guile, R.E. Signal Service (Unestablished Skilled Workman, South-Eastern District). Awarded the Military Medal.

Sapper (Acting Corporal) J. C. Vivian, R.E. Signal Service (Unestablished Skilled Workman, South-Western District). Awarded the Meritorious Service Medal.

Sergeant F. J. Mallows, R.E. Signal Service (Skilled Workman, Class II, London District). Awarded the Meritorious Service Medal.

Private J. E. Price, R.A.M.C. (Clerical Assistant, North Wales District). Mentioned in Despatches.

Sergeant W. H. Shimmin, R.E. Signal Service (Unestablished Skilled Workman, South Lancs. District). Awarded the Military and Meritorious Service Medals.

Bombardier A. Watson, R.G.A. (Unestablished Skilled Workman, London District). Awarded the Military Medal.

Lance-Corporal F. W. Cook, R.E. Signal Service (Youth, South-Eastern District). Awarded the Military Medal.

Sergeant S. A. Finn, R.E. Signal Service (Unestablished Skilled Workman, South-Eastern District). Mentioned in Despatches.

Private J. W. C. Hutchings, London Regiment (Clerical Assistant, South-Eastern District). Awarded the Military Medal.

Private (Acting Staff-Sergeant) C. V. Manning, Army Veterinary Corps (Skilled Workman, Class II, South-Western District). Awarded the Meritorious Service Medal.

Sergeant R. N. Collis, R.E. Signal Service (Youth, Eastern District). Awarded the Military Medal.

Sergeant C. R. Morgan, R.E. Signal Service (Skilled Workman, Class II, South-Western District). Awarded the Meritorious Service Medal.

Lance-Corporal S. Snape, R.E. Signal Service (Skilled Workman, Class II, Scotland East District). Awarded the Military Medal.

Lieutenant W. H. Rose, R.A.F. (Skilled Workman, Class II, Metropolitan Power District). Mentioned in Despatches.

Lance-Corporal (Acting Second Corporal) J. W. Cameron, R.E. Signal Service (Labourer, Scotland East District). Awarded the Distinguished Conduct Medal.

Sapper F. H. Hardy, R.E. Signal Service (Unestablished Skilled Workman, South-Western District). Awarded the Military Medal.

Sapper H. Marshall, R.E. Signal Service (Labourer, Northern District). Awarded the Military Medal.

Sapper J. T. Skill, R.E. Signal Service (Youth, Northern District). Awarded the Military Medal.

Lance-Corporal J. M. Tennent, Tank Corps (Junior Clerical Assistant, Scotland East District). Awarded the Military Medal.

Lieutenant G. C. Heathcote, London Regiment (Clerical Assistant, South Midland District). Awarded the Military Cross.

Lance-Corporal E. L. Brighton, R.E. Signal Service (Skilled Workman, Class II, North Midland District). Awarded the Military Medal.

Second Corporal (Acting Corporal) J. W. Brooks, R.E. Signal Service (Skilled Workman, Class II, North Wales District). Awarded the Military Medal.

Corporal J. A. McAuliffe, R.E. Signal Service (Unestablished Skilled Workman, North Wales District). Awarded the Military Medal.

Private C. F. Reissland, King Edward's Horse (Assistant Clerk, London District). Awarded the Military Medal.

Sergeant T. Saunders, R.E. Signal Service (Third Class Clerk, North Midland District). Mentioned in Despatches.

Sapper A. Snare, R.E. Signal Service (Unestablished Skilled Workman, London District). Awarded the Military Medal.

Sergeant R. Ashton, R.E. Signal Service (Youth, South Lancs. District). Awarded the Military Medal.

Sapper F. Clement, R.E. Signal Service, attached to R.F.A. (Youth, South Lancs. District). Awarded the Military Medal.

Sapper M. Coyle, R.E. Signal Service (Unestablished Skilled Workman, Scotland West District). Awarded the Military Medal.

Sapper S. Fox, R.E. Signal Service (Unestablished Skilled Workman, North Midland District). Awarded the Military Medal.

Sapper D. Hinds, R.E. Signal Service (Unestablished Skilled Workman, Scotland West District). Awarded the Distinguished Conduct Medal.

Sapper J. T. Skipp, R.E. Signal Service (Unestablished Skilled Workman, Northern District). Awarded the Military Medal.

Corporal F. Webster, R.E. Signal Service (Clerical Assistant, North Midland District). Awarded the Military Medal.

Sergeant Z. C. Clark, R.E. Signal Service (Skilled Workman, Cl. II, North-Eastern District). Awarded the Military Medal.

ROLL OF HONOUR.

THE Board of Editors sincerely regrets the deaths on active service of the undermentioned members of the Engineering Department. Sixteenth List.

Name.	Rank.	District.
F. Barnaby . . .	Labourer . . .	S. Mid.
J. W. Beale . . .	" . . .	London.
J. D. Briggs . . .	" . . .	E.
A. Brooman . . .	" . . .	S.E.
T. A. Bryant . . .	Third-Class Clerk . . .	S. Wales.
W. G. Cadwallader . . .	Unest. Skilled Workman . . .	N. Wales.
F. Chapman . . .	" " " . . .	"
F. P. Clothier . . .	" " " . . .	S.W.
Capt. J. G. Cooke . . .	Unest. Draughtsman . . .	N. Mid.
F. W. H. Dawe . . .	Assistant Clerk . . .	E. in C.O.
J. Donovan . . .	Unest. Skilled Workman . . .	S. Wales.
H. Eales . . .	" " " . . .	S. Mid.
E. Findlay . . .	Youth . . .	Scot. E.
G. M. Finnelly . . .	" . . .	London.
E. F. Foster . . .	Third-Class Clerk . . .	S. Lancs.
A. W. Foulkes . . .	Unest. Skilled Workman . . .	N. Wales.
L. V. Galvin . . .	Labourer . . .	S. Lancs.
P. A. T. Gardner . . .	Skilled Workman, Cl. II . . .	S. Mid.
W. C. Gilham . . .	Labourer . . .	S.W.
W. Gray . . .	Unest. Skilled Workman . . .	Scot. W.
C. Harvey . . .	Labourer . . .	S.E.
A. W. Hawkins . . .	Unest. Skilled Workman . . .	London.
P. R. Heath . . .	Labourer . . .	N. Wales.
J. Hope . . .	Skilled Workman, Cl. II . . .	Scot. W.
F. C. Hyde . . .	" " " . . .	S. Wales.
S. E. Johnson . . .	Labourer . . .	London.
A. R. Kerr . . .	Clerical Assistant . . .	Scot. W.
A. F. Kerrison . . .	" " . . .	S. Mid.
J. N. McCurdy . . .	Chief Inspector . . .	N. Wales.
J. McHale . . .	Unest. Skilled Workman . . .	N.W.
H. Martin . . .	Labourer . . .	S.W.
T. Meehan . . .	Youth . . .	Ireland.

STAFF CHANGES.

1918 October

Name.	Rank.	District.
J. Moore . . .	Labourer .	S. Mid.
J. Moran . . .	" .	Ireland.
T. O'Leary . . .	Unest. Skilled Workman .	London.
J. Owen . . .	" " " .	N.W.
W. R. Painter . . .	Skilled Workman, Cl. II .	London.
C. E. Pett . . .	Labourer .	"
F. J. Postlethwaite . . .	Assistant Clerk .	"
J. Preston . . .	Labourer .	S.W.
J. H. Price . . .	Youth .	London.
D. Pringle . . .	Skilled Workman, Cl. II .	N. Wales.
H. H. Prosser . . .	Unest. Skilled Workman .	S.W.
J. Reid . . .	" " " .	London.
W. J. Scarle . . .	Labourer .	S.W.
F. W. Spark . . .	Skilled Workman, Cl. II .	N.
S. Steel . . .	" " " .	N.W.
F. G. Tanner . . .	Assistant Clerk .	E. in C.O.
D. G. Urquhart . . .	Unest. Skilled Workman .	Scot. E.
H. Ware . . .	Labourer .	London.
J. Watson . . .	" .	N. Mid.

~~STAFF CHANGES.~~~~POST OFFICE ENGINEERING DEPARTMENT.~~~~RETIREMENTS.~~

Name.	Rank.	District.	Date.
Basecombe, A. . . .	Exec. Engr.	E. District	30 : 6 : 18
Lever, G. . . .	Assistant Subm. Superintendent	Submarine, Woolwich	31 : 7 : 18

~~DEATHS.~~

Name.	Rank.	District.	Date.
*Bryant, T. A. . . .	Clerk, Class III	S. Wales	19 : 4 : 18
*Foster, E. F. . . .	" "	S. Lanes.	26 : 5 : 18
*Lynch, D. . . .	" "	S.E. District	23 : 3 : 18
Wilson, F. R. . . .	Assist. Engr.	N.	26 : 8 : 18

* Killed in action.

~~useful in the latter case, the absence of pilot pairs entailed more testing and proving of the circuits in the course of restoration than would otherwise have been necessary.~~

~~The work of jointing occupied in all 140 hours—a very good record in all the circumstances, as operations could be conducted on one cable only at a time. No crosses or other faults were introduced. In all, sixteen ducts were broken and three cables destroyed, involving 1406 circuits, including spares.~~

~~LONDON CENTRE: I.P.O.E.E.~~

~~THE opening meeting of the session took place on Friday evening, November 29th, at the Society of Arts, Adelphi, W.C. Sir William Slingo presided over a large attendance. A most interesting paper was read by Mr. A. B. Hart, of the Engineer-in-Chief's Office, on "Telephone Repeaters." The development that has taken place in the last year or two was heard with some surprise by many present, as very little information on the subject has appeared in the technical Press for obvious reasons.~~

~~Professor Fleming, of London University, opened the discussion, and reviewed the evolution of the valve for wireless and telephone work, and also explained its action. He humorously suggested its application to subscribers' telephones.~~

~~The following speakers also took part: Messrs. C. Robinson, J. E. Taylor, Penny (Western Electric Company), Pollock, Twells, Ritter, Cruickshank, Bartholomew and Gibbon. The chairman reviewed the subject and pointed out its importance with regard to the weight of conductors on main lines. Mr. Hart replied, and concluded by saying that their ideal was to maintain the efficiency of the speaking circuits and to reduce the copper, even to vanishing point.~~

~~The paper forms a distinct milestone on the road of progress, and there is every likelihood of its being published by the Institution for circulation among the members.~~

MILITARY HONOURS.

THE Board of Editors has great pleasure in publishing the further list of honours awarded to members of the Engineering Department on active service:

Sergeant W. J. Lane, R.E. Signal Service (Skilled Workman, Class II, North-Eastern District). Mentioned in Despatches:

Company Quartermaster-Sergeant T. J. Robson, R.E. Signal Service (Clerical Assistant, Northern District). Brought to notice of Secretary of State for War for valuable services rendered in connection with the war.

Sapper J. Lally, R.E. Signal Service (Unestablished Skilled Workman, North-Eastern District). Awarded the Meritorious Service Medal.

Sergeant J. Whalley, R.E. Signal Service (Skilled Workman, Class I, North-Eastern District). Awarded the Distinguished Conduct Medal.

Private F. Youell, London Regiment (Clerical Assistant, South-Eastern District). Awarded the Military Medal.

Sergeant H. Priestman, Yorkshire Regiment (Unestablished Skilled Workman, North-Eastern District). Awarded the Military Medal.

Sergeant P. Blackburn, R.A.F. (Skilled Workman, Class II, North-Western District). Awarded the Croix de Guerre (Belgian).

Sapper E. Booth, R.E. Signal Service (Clerical Assistant, South Lancs. District). Awarded the Military Medal.

Sapper R. J. Dunn, R.E. Signal Service (Unestablished Skilled Workman, South Wales District). Awarded the Distinguished Conduct Medal.

Second Lieutenant G. J. Gawthorne, R.A.F. (Inspector, London District). Awarded the Distinguished Service Medal.

Mechanic Staff-Sergeant A. Gregson, R.E. Signal Service (Shift Officer, North-Eastern District). Awarded the Meritorious Service Medal.

Sapper G. W. Payne, R.E. Signal Service (Labourer, South Midland District). Awarded the Distinguished Conduct Medal.

Gunner H. Riches, R.F.A. (Unestablished Skilled Workman, E.-in-C.O. Testing Branch). Awarded the Military Medal.

Sergeant W. C. Spencer, R.E. Signal Service (Unestablished Skilled Workman, North-Western District). Awarded the Military Medal and Médaille Militaire (French).

Bombardier R. H. Cox, R.F.A. (Labourer, London District). Awarded the Military Medal.

Sergeant F. J. Evans, R.E. Signal Service (Clerical Assistant, South Wales District). Awarded the Military Medal.

Lance-Corporal R. E. Gordge, R.E. Signal Service (Unestablished Skilled Workman, South Wales District). Awarded the Military Medal.

Lance-Corporal S. Smith, R.E. Signal Service (Junior Clerical Assistant, South Wales District). Awarded the Military Medal.

Private A. C. Taylor, Royal Sussex Regiment (Boy Messenger, London District). Awarded the Military Medal.

Sapper J. R. Wilkinson, R.E. Signal Service (Labourer, North-Western District). Awarded the Meritorious Service Medal.

Company Sergeant-Major R. R. Poole, R.E. Signal Service (Third-Class Clerk, London District). Awarded the Meritorious Service Medal and Mentioned in Despatches.

Sapper H. Rowlands, R.E. Signal Service (Unestablished Skilled Workman, North-Western District). Awarded the Meritorious Service Medal.

Sergeant W. Jasper, Scots Guards (Labourer, Eastern District). Awarded the Military Medal.

Sergeant A. M. Hills, R.E. Signal Service (Third-Class Clerk, South-Western District). Brought to the notice of the Secretary of State for War for distinguished services in East Africa.

Second Lieutenant W. E. H. Kennedy, Wilts Regiment (Clerical Assistant, South Midland District). Awarded the Military Cross.

First-Class Seaman Gunner C. G. Bird, Royal Fleet Reserve (Labourer, London District). Awarded the Distinguished Service Medal.

Sapper A. D. Bothwell, R.E. Signal Service (Skilled Workman, Class II, London District). Awarded the Silver Medal (Serbian).

Corporal E. Mabbutt, R.A.F. (Skilled Workman, Class II, London District). Awarded the Military Medal.

Sergeant E. S. Price, R.E. Signal Service (Unestablished Skilled Workman, South-Eastern District). Awarded the Distinguished Conduct Medal, a Bar to the Military Medal, and Mentioned in Despatches.

Sapper A. Reece, R.E. Signal Service (Unestablished Skilled Workman, London District). Awarded the Military Medal.

Sapper W. A. Wilson, R.E. Signal Service (Skilled Workman, Class II, South Wales District). Awarded the Military Medal.

ROLL OF HONOUR.

THE Board of Editors sincerely regrets the deaths on active service of the undermentioned members of the Engineering Department. Seventeenth List.

Name.	Rank.	District.
Lieut. J. R. Anderson.	Unest. Skilled Workman . E. in C.Os'. Testing Branch.	
G. M. Atkinson . . .	Skilled Workman, Cl. II .	N.E.
J. Audley . . .	" " "	S. Lancs.
T. W. Bagley . . .	Clerical Assistant .	E.
E. Bakewell . . .	Unest. Skilled Workman .	N. Mid.
A. J. Balls . . .	Labourer .	E.
T. N. Bennett . . .	" " "	Scot. W.
A. Blundy . . .	" " "	S. Mid.
H. Bradley . . .	Unest. Skilled Workman .	N.E.
S. F. Brown . . .	" " "	E.
H. Butler . . .	Skilled Workman, Cl. II .	London.
A. A. E. Cameron . . .	Shorthand Writer and Typist (Unest.)	Scot. E.
A. H. Campbell . . .	Unest. Skilled Workman .	Scot. W.
J. Campbell . . .	Clerical Assistant .	"
F. H. Claridge . . .	Unest. Skilled Workman .	E.
J. Clarke . . .	Labourer .	London.
M. J. Crowley . . .	" " "	"
J. Donoghue . . .	" " "	Met. P.
G. Dunnell . . .	" " "	E.
J. Evans . . .	Clerical Assistant .	S. Lancs.
E. A. Fear . . .	Unest. Skilled Workman .	S.W.
A. Fraser . . .	Labourer .	Scot. W.
I. Ginells . . .	Unest. Skilled Workman .	S. Wales.
E. G. Grace . . .	" " "	S. Mid.
R. Gray . . .	Clerical Assistant .	Scot. W.
F. J. Harris . . .	Unest. Skilled Workman .	S. Wales.
H. G. Harrison . . .	Acting Jr. Clerical Assistant.	"
H. E. Hawkins . . .	Unest. Skilled Workman .	"
B. F. G. Holman . . .	Labourer .	S.E.
B. T. Hooker . . .	" " "	"
C. W. Hunt . . .	Unest. Skilled Workman .	N. Mid.
J. Jones . . .	Labourer .	S. Wales.
A. M. Kemp . . .	Unest. Skilled Workman .	Scot. E.
B. Kerr . . .	" " "	Ireland.
C. E. H. Kibble . . .	Skilled Workman, Cl. II .	S. Lancs.
A. Kimber . . .	" " "	S. Mid.

STAFF CHANGES.

1919 January

Name.	Rank.	District.
J. Kirby	Labourer	S. Mid.
B. M. Lanchbery	Youth	London.
W. N. Lazenby	Skilled Workman, Cl. II	N.E.
W. Locke	Labourer	S.W.
P. A. Ludbrook	Skilled Workman, Cl. II	S. Lancs.
C. Marshall	Labourer	London.
T. Martin	Assistant Clerk	"
G. Nicholls	Unest. Skilled Workman	N.E.
J. O'Donnell	" " "	Scot. W.
Sec. Lt. F. A. Parfitt	" " "	N. Mid.
G. E. Phillips	Labourer	S. Mid.
C. Robertson	Slater	Scot. W.
D. B. Robertson	Skilled Workman, Cl. II.	Scot. E.
A. M. Ross	Labourer	Scot. E.
G. E. Shepherd	"	London.
W. J. Solway	Unest. Skilled Workman	S.W.
A. C. Speller	Skilled Workman, Cl. II.	London.
G. Spence	" " "	S.W.
W. A. J. Taylor	Labourer	London.
W. Taylor	"	N. Mid.
E. Tuxworth	Unest. Skilled Workman	N.E.
F. J. H. Twine	Labourer	London.
W. E. Walsh	Skilled Workman, Cl. II.	N.E.
F. Watkins	Youth	N. Wales.
A. Watson	Clerical Assistant	Scot. W.
J. Wilcox	Skilled Workman, Cl. II.	London.
C. S. Wilson	Assistant Clerk	"
W. A. Wright	Labourer	"
G. Woodhouse	"	N.E.

~~STAFF CHANGES.~~~~POST OFFICE ENGINEERING DEPARTMENT.~~~~TRANSFERS.~~

Name.	Rank.	Transferred.		Date.
		From	To	
Waller, J.	Assistant Engr.	Ireland	London (E. in C.O.)	1 11 18
Ray, J. W.	Assist. Supt. Eng.	E. in C.O.	Darlington	25 10 18
Vooght Cornish, H.	" " "	Met. E.L.	Met. E.L.	7 10 18
Fossett, J. H.	" " "	Met. E.L.	E. in C.O.	30 9 18

~~BOOK REVIEW.~~

~~'Standard Tables and Equations in Radio-Telegraphy.' By Bertram Hoyle, M.Sc.Tech., A.M.I.E.E. (London: The Wireless Press, Ltd. Pp. 159. Price 9s. net.)~~

~~The book consists, in the main, of a collection of tables and formulæ of particular use to the wireless engineer. Although most of the information is available in a scattered form in the text-books and engineering year books already published, yet some very useful purpose is served in collecting under one cover for reference information germane to a particular branch of engineering; it is in this direction that the chief recommendation of the book is to be found. The usefulness of the formulæ is enhanced by Section 3, which is devoted to typical worked examples of the application of some of the formulæ.~~

~~Section 4, however, which purports to be "Notes on Elementary Arithmetic for Operators," gives the method of contracted multiplication and division and the simpler trigonometrical ratios. This section, together with illustrations showing the theoretical mechanical advantages of various simple forms of pulleys, could, with advantage, have been omitted; in our opinion it savours of padding.~~

~~On p. 20 the formula for wave-length is given as $1885 \sqrt{KL}$ metres, without reference to the fact that K and L are in microfarads and microhenries respectively, but this is apparently a displacement by the printer, and will, no doubt, be rectified in future issues.~~

~~On the whole the book is free from error, and can be recommended as a comprehensive collection of tables and formulæ for the use of the wireless engineer.~~

~~A good index adds to the usefulness of the volume.~~

~~E. H. S.~~

MILITARY HONOURS.

THE Board of Editors has great pleasure in publishing the further list of honours awarded to members of the Engineering Department on active service:

Staff Sergeant H. J. Williams, R.E. (Labourer, South-Western District). Awarded the Meritorious Service Medal.

Sapper M. Monaghan, R.E. Signal Service (Labourer, North Midland District). Awarded Bar to the Military Medal.

Second Lieutenant J. E. Thomson, Manchester Regiment (Assistant Clerk, London District). Awarded the Military Cross.

Air-Mechanic T. Leyland, R.A.F. (Unestablished Skilled Workman, North-Western District). Awarded the Military Medal.

Sapper E. H. Marshall, R.E. Signal Service (Labourer, North Midland District). Awarded the Military Medal.

Lance-Corporal W. Mounter, R.E. Signal Service (Unestablished Skilled Workman, London District). Awarded the Distinguished Conduct Medal.

Lance-Corporal H. O'Leary, R.E. Signal Service (Unestablished Skilled Workman, London District). Mentioned in Despatches.

Private J. H. Price, Post Office Rifles (Labourer, London District) (killed in action). Awarded the Military Medal.

Lance-Corporal G. Redfern, R.E. Signal Service (Unestablished Skilled Workman, North-Western District). Awarded the Croix de Guerre (Belgian).

Sergeant (now Second Lieutenant) T. Sanders, R.E. Signal Service (Third-Class Clerk, North Midland District). Awarded l'Ordre de Leopold II Chevalier (Belgian).

Staff Sergeant-Major E. C. Suttle, A.S.C. (Clerical Assistant, South Midland District). Awarded the Meritorious Service Medal and Mentioned in Despatches.

Gunner W. H. Thompson, R.G.A. (Unestablished Skilled Workman, London District). Awarded the Military Medal and Mentioned in Despatches.

Pioneer F. Feneley, R.E. Signal Service (Youth, Eastern District). Awarded the Croix de Guerre (French).

Corporal H. W. Read, R.E. Signal Service (Inspector, South-Western District). Awarded the Military Medal.

Quartermaster and Lieutenant B. Pooley, Cambridgeshire Regiment (Chief Inspector, Eastern District). Mentioned in Despatches.

Quartermaster-Sergeant S. F. Bonner, A.S.C. (Clerical Assistant, Eastern District). Mentioned in Despatches.

Sergeant S. A. Finn, R.E. Signal Service (Unestablished Skilled Workman, South-Eastern District). Mentioned in Despatches.

Lance-Corporal H. Stanley, R.E. Signal Service (Unestablished Skilled Workman, North-Eastern District). Awarded the Military Medal.

Acting Quartermaster-Sergeant H. L. P. Stockwell, R.F.A. (Clerical Assistant, South Midland District). Brought to the notice of the Secretary of State for War.

Sergeant E. Johnson, R.E. Signal Service (Skilled Workman, Class II, North-Eastern District). Awarded the Meritorious Service Medal.

Sergeant H. Butler, R.E. Signal Service (Skilled Workman,

Class I, South Midland District). Awarded the Meritorious Service Medal.

Sergeant R. E. Deakin, R.A.F. (Inspector, North Wales District). Awarded the Meritorious Service Medal.

Sergeant H. L. Maskrey, R.E. Signal Service (Unestablished Skilled Workman, London District). Awarded the Military Medal.

Lieutenant R. Gauld, R.E. Signal Service (Skilled Workman, Class II, South-Western District). Awarded the Croix de Guerre and Mentioned in Despatches.

Temporary Second Lieutenant A. Arnold, R.E. Signal Service (Skilled Workman, Class II, Scotland West District). Mentioned in Despatches.

Sapper (Acting Sergeant) C. A. Gadd, R.E. Signal Service (Skilled Workman, Class II, London District). Awarded the Meritorious Service Medal.

Second Corporal (Acting Corporal) A. A. Hammond, R.E. Signal Service (Unestablished Skilled Workman, South Midland District). Awarded the Distinguished Conduct Medal.

Sapper (Acting Sergeant) G. C. Chislett, R.E. Signal Service (Skilled Workman, Class II, South Wales District). Mentioned in Despatches.

Sapper P. W. Christie, R.E. Signal Service (Unestablished Skilled Workman, Northern District). Awarded the Military Medal.

Sergeant G. H. Crocker, R.A.M.C. (Labourer, South-Western District). Awarded the Military Medal.

Second Corporal E. G. Geary, R.E. Signal Service (Unestablished Skilled Workman, South Midland District). Awarded the Military Medal.

Sapper J. H. A. Hallett, R.E. Signal Service (Clerical Assistant, South Midland District). Awarded the Military Medal.

Second Corporal F. N. Boyce, R.E. Signal Service (Unestablished Skilled Workman, South-Western District). Awarded the Military Medal.

Sergeant H. W. Codling, R.F.A. (Labourer, London District). Awarded the Military Medal.

Lance-Corporal J. Jones, R.E. Signal Service (Unestablished Skilled Workman, North Wales District). Awarded the Military Medal.

Sergeant W. H. Wood, R.E. Signal Service (Unestablished Skilled Workman, London District). Awarded the Meritorious Service Medal.

Lieutenant J. H. Watkins, R.E. Signal Service (Assistant Engineer, E.-in-C's. Office). Awarded the Military Cross.

Lance-Corporal L. C. Suggars, 8th London Regiment (Temporary Draughtsman, E.-in-C's. Office). Awarded the Meritorious Service Medal.

Lieutenant (acting Major) H. Cranage, R.E. Signal Service (Chief Inspector, South Wales District). Mentioned in Despatches.

Lieutenant (acting Captain) F. Reid, R.E. Signal Service (Assistant Engineer, E.-in-C's. Office). Awarded the Military Cross, the Croix de Guerre (Belgian), and Mentioned in Despatches.

Sapper G. H. Brueton, R.E. Signal Service (Skilled Workman, Class II, North Wales District). Awarded the Military Medal.

Gunner W. Lillie, R.G.A. (Clerical Assistant, South Lancs, District). Awarded the Meritorious Service Medal.

Second-Corporal J. Williams, R.E. Signal Service (Skilled Workman, Class II, North Wales District). Mentioned in Despatches.

Temporary Second Lieutenant C. A. Taylor, R.E. Signal Service (Assistant Engineer, E.-in-C's. Office). Awarded the Military Cross.

Sergeant S. B. Austin, M.G. Corps, (Clerical Assistant, South Eastern District). Awarded the Military Medal.

Sergeant A. C. Billson, Middlesex Regiment (Labourer, London District). Awarded the Military Medal.

Sapper J. Clark, R.E. Signal Service (Labourer, South Midland District). Awarded the Military Medal.

Sergeant-Major A. W. Marks, R.A.M. Corps (Clerical Assistant, South Wales District). Awarded the Meritorious Service Medal.

Sergeant W. Monteith, R.E. Signal Service (Skilled Workman, Class II, North Wales District). Awarded the Meritorious Service Medal.

Sergeant W. Norbury, R.E. Signal Service (Skilled Workman, Class II, North Wales District). Mentioned in Despatches.

Sergeant J. Orger, Rifle Brigade (Labourer, London District). Awarded the Military Medal.

Sapper (Acting Quartermaster-Sergeant) T. J. Robson, R.E. Signal Service (Clerical Assistant, Northern District). Awarded the Meritorious Service Medal.

Sergeant W. R. Thorpe, R.E. Signal Service (Unestablished Draughtsman, London District). Mentioned in Despatches.

ROLL OF HONOUR.

THE Board of Editors sincerely regrets the deaths on active service of the undermentioned members of the Engineering Department. Eighteenth List.

Name.	Rank.	District.
S. Atkinson	Labourer	N.W.
J. B. Barnard	"	S. Wales.
G. J. W. Barnes	Unest. Skilled Workman	London.
G. W. Barter	" " "	S. Mid.
C. A. Beman	Labourer	London.
Major P.C.O. Berkeley	Assistant Clerk	"
T. Blackwell	Labourer	N. Mid.
Lieut. W. C. Brown	"	S.E.
W. A. Charlton	Skilled Workman Cl. II	N. Wales.
H. A. Clayton	Unest. Skilled Workman	N. Mid.
W. A. Clayton	Third Class Clerk	N.E.
G. F. Collins	Unest. Skilled Workman	S. Wales.
J. F. Cooper-Smith	Assistant Clerk	London.
Sec. Lt. F. B. S. Counsellor	Unest. Skilled Workman	N.
R. B. Crowe	Youth	S. Lancs.
M. Cuniffe	Skilled Workman, Cl. II	N.E.
H. C. Davis	Inspector	London.
W. R. Davison	Labourer	N.
C. W. Day	Unest. Skilled Workman	London.
A. E. Doxsey	Skilled Workman, Cl. II	N. Mid.
W. Drage	Unest. Skilled Workman	E.
A. G. Dunce	Skilled Workman, Cl. II	London.
E. Eastley	" " "	N.W.
J. Ellwood	Labourer	N. Wales.
H. Evans	"	"
B. A. Farrant	Unest. Skilled Workman	E.
A. Fletcher	Youth	N. Mid.
W. J. Fowler	Unest. Skilled Workman	S. Wales.
A. Gill	Labourer	N.E.
A. J. S. Hall	Unest. Skilled Workman	London.
W. H. Hebington	Labourer	E.
J. Hydes	"	N.W.
W. Johnson	"	"
H. Kitchen	"	"
J. W. Laxton	Unest. Skilled Workman	N. Mid.
R. Lilley	Labourer	"

ROLL OF HONOUR

ROLL OF HONOUR.

W. L. McBain	. Unest. Skilled Workman .	Scot. E.
W. McKnight	. " " "	Scot. W.
B. G. Manning	. Clerical Assistant .	S. Wales.
R. H. Marlow	. Labourer .	S.W.
R. Martin	. Assistant Clerk .	London.
A. E. Meakin	. Labourer .	"
G. Millson	. Unest. Skilled Workman .	S. Mid.
J. Mullengar	. Labourer .	London.
A. Nightingale	. Unest. Skilled Workman .	S. Lancs.
S. E. North	. Youth .	E.
H. Primett	. Unest. Skilled Workman .	"
E. Ratcliffe	. Labourer .	London.
H. J. Reed	. Unest. Skilled Workman .	S. Wales.
P. A. T. Roberts	. Clerical Assistant .	Ireland.
J. W. Rutherford	. Skilled Workman, Cl. I .	London.
G. J. Sanders	. Unest. Skilled Workman .	S. Lancs.
L. Sharp	. " " "	London.
W. Shields	. Labourer .	N.E.
E. W. Shortt	. " .	E.
P. Simons	. Unest. Skilled Workman .	London.
F. A. W. Sinclair	. Skilled Workman, Cl. II .	S.W.
Sec. Lt. A. V. Smoothy	. Unest. Wayleave Officer .	E.
F. E. K. Sneddon	. Unest. Draughtsman .	E. in C.O.
W. A. Stirling	. Skilled Workman, Cl. II .	Scot. W.
B. G. Strudwick	. Labourer .	S. Mid.
N. J. Stubbs	. Clerical Assistant .	S. Wales.
J. Swales	. Labourer .	N.W.
A. Turner	. Unest. Skilled Workman .	Scot. W.
A. G. Ward	. " " "	London.
E. J. Ward	. " " "	"
B. E. Webb	. Youth .	"
W. W. Welsh	. Unest. Skilled Workman .	E.
A. H. White	. Youth .	Scot. E.
V. J. Wilkins	. Unest. Skilled Workman .	N. Mid.
H. C. Wilson	. Labourer .	London.

~~before those concerned, rather than accumulate further evidence, which would have caused delay. In order to solicit the co-operation of those affected many illustrations were presented, together with details of prime importance for the prevention of accidents wherever possible. Mr. Stubbs also pointed out as a recorded fact that recently—thanks to the education of industrial opinion—considerable progress had been made in respect of this important matter. The information thus placed before the members was thoroughly appreciated.~~

~~During the discussion which followed many details were brought forward by the members, and a lively interest was evinced by the foremen who had been specially invited to the proceedings.~~

~~A hearty vote of thanks was accorded to Mr. Stubbs for his illuminating paper, on the proposition of the Chairman and seconded by the Hon. Secretary.~~

~~A record attendance was registered.~~

~~SIR G. E. P. MURRAY, K.C.B.~~

~~THE Board of Editors begs to tender its hearty congratulations to the Secretary of the General Post Office on the great honour bestowed by His Majesty the King in the recent Birthday Honours List.~~

MILITARY HONOURS.

THE Board of Editors has great pleasure in publishing the further list of honours awarded to members of the Engineering Department:

Major T. F. Purves, R.E. (Assistant Engineer-in-Chief), Major H. Brown, R.E. (Assistant Staff-Engineer), and Major J. Cameron (Executive Engineer) have been awarded the M.B.E. (Military Section).

Mr. H. C. Gunton (Principal Power Engineer) has been awarded the M.B.E. (Military Section).

Lieutenant-Colonel A. Evans, R.E. Signal Service (Assistant Engineer, North Midland District). Mentioned in Despatches.

Lieutenant G. Bishop, R.E. (Third Class Clerk, South-Eastern District). Awarded the Military Cross and the Croix de Guerre avec Étoile (French).

Second Lieutenant W. Griffiths, Royal Air Force (Inspector, North Wales District). Mentioned in Despatches.

Corporal H. D. Bear, London Regiment (Labourer, London Engineering District). Awarded the Military Medal.

Sapper W. G. Cadwallader, R.E. Signal Service (Unestablished Skilled Workman, North Wales District) (died of wounds). Awarded the Croix de Guerre (Belgian).

Sergeant E. Eden, London Regiment (Skilled Workman, Class II, London Engineering District). Awarded the Military Medal.

Chief Mechanic T. W. Evans, Royal Air Force (Skilled Workman, Class I, London Engineering District). Awarded the Meritorious Service Medal.

Sergeant T. H. Giblett, R.F.A. (Unestablished Skilled Workman, London Engineering District). Awarded the Distinguished Conduct Medal and the Military Medal.

Sergeant H. Gilbert, The Buffs (Assistant Clerk, London Engineering District). Mentioned in Despatches.

Sapper S. H. Gisby, R.E. Signal Service (Unestablished Skilled Workman, North Wales District). Awarded the Military Medal.

Sapper A. G. Lawrence, R.E. Signal Service (Skilled Workman, Class II, South Midland District). Mentioned in Despatches.

Sergeant A. J. Shotter, R.E. Signal Service (Skilled Workman, Class II, South Western District). Awarded the Meritorious Service Medal.

Company Sergeant-Major H. Wilcock, R.E. Signal Service (3rd Class, Clerk, South Lancashire District). Awarded the Distinguished Conduct Medal.

Sergeant T. W. Williams, R.E. Signal Service (Skilled Workman, Class II, North Wales District). Awarded the Military Medal and the Croix de Guerre avec Etoile en Bronze (French).

Lance-Corporal W. Carrick, R.E. Signal Service (Skilled Workman, Class II, Scotland West District). Awarded the Meritorious Service Medal.

Sergeant T. Cripps, R.E. Signal Service (Unestablished Skilled Workman, London Engineering District). Mentioned in Despatches.

Sergeant A. MacRae, R.E. Signal Service (Unestablished Skilled Workman, Scotland West District). Awarded the Military Medal.

Lance-Corporal C. E. Wearn, Civil Service Rifles (Clerical Assistant, Eastern District). Awarded the Military Medal.

Pioneer P. C. Clegg, R.E. Signal Service (Labourer, Metropolitan Power District). Awarded the Military Medal.

Sergeant-Major H. Morris, Royal Air Force (Inspector, North-Eastern District). Brought to the notice of the Secretary of State for War.

Company Sergeant-Major A. C. S. Akast, R.E. (Chief Inspector, Metropolitan Power District). Awarded the Meritorious Service Medal and Mentioned in Despatches.

Sergeant J. B. Ball, R.E. Signal Service (Unestablished Skilled Workman, South Lancashire District). Mentioned in Despatches.

Sergeant R. D. Bennett, Royal Berkshire Regiment (Clerical Assistant, South Midland District). Mentioned in Despatches.

Second Corporal A. Ramsey, R.E. Signal Service (Unestablished Skilled Workman, Scotland West District). Awarded the Meritorious Service Medal.

Sapper H. Easterbrook, R.E. Signal Service (Labourer, South-Western District). Awarded the Military Medal.

Sapper G. Powell, R.E. Signal Service (Labourer, South Midland District). Awarded the Military Medal.

Sapper F. T. Wells, R.E. Signal Service (Labourer, South-Eastern District). Awarded the Military Medal.

Lance-Corporal J. Clark, London Regiment (Assistant Clerk, Engineer-in-Chief's Office). Awarded the Military Medal.

Sapper P. H. Hassell, R.E. Signal Service (Skilled Workman Class II, Ireland). Awarded the Croix de Guerre (Italian).

Sergeant H. E. Hawkins, R.E. Signal Service (Unestablished Skilled Workman, South Wales District). Awarded the Distinguished Conduct Medal.

Corporal H. A. Jefferies, R.E. Signal Service (Unestablished Skilled Workman, London Engineering District). Awarded the Military Medal.

Lance-Corporal (acting Sergeant) J. S. Smythe, R.E. Signal Service (Unestablished Draughtsman, North Wales District). Awarded the Croix de Guerre avec Etoile en Bronze (French) and Mentioned in Despatches.

Sergeant G. R. Sykes, Royal Air Force (Skilled Workman Class II, London Engineering District). Awarded the Croix de Guerre (Belgian).

Sapper G. Wilson, R.E. Signal Service (Skilled Workman Class II, Scotland West District). Awarded the Meritorious Service Medal.

Sergeant E. T. Goodwin, R.E. Signal Service (Skilled Workman Class II, Eastern District). Awarded the Cross of St. George (Russian) and Mentioned in Despatches.

Lance-Corporal M. Kinsella, Machine Gun Corps (Assistant Clerk, London Engineering District). Awarded the Military Medal.

Lance-Corporal A. P. Ware, R.E. Signal Service (Unestablished Skilled Workman, South Midland District). Awarded the Meritorious Service Medal.

Corporal J. H. Chubbock, R.E. Signal Service (Third Class Clerk, London Engineering District). Mentioned in Despatches.

Sapper F. Curtis, R.E. Signal Service (Skilled Workman, Class II, North-Eastern District). Mentioned in Despatches.

Chief Mechanic F. W. Dixon, Royal Air Force (Skilled Workman, Class II, London Engineering District). Mentioned in Despatches.

Sapper C. W. Impett, R.E. Signal Service (Third Class Clerk, London Engineering District). Mentioned in Despatches.

Sapper (Acting Sergeant) B. Lister, R.E. Signal Service (Inspector, South Lancashire District). Mentioned in Despatches.

Sergeant T. F. Reeves, Hampshire Regiment (Inspector, South Midland District). Mentioned in Despatches.

Petty Officer A. H. Veale, Royal Naval Air Service (Inspector, London Engineering District). Mentioned in Despatches.

Company Quartermaster-Sergeant R. W. Holliday, R.E. Signal Service (Inspector, London Engineering District). Brought to the notice of the Secretary of State for War.

Chief Mechanic E. H. McCarthy, Royal Air Force (Tradesman, London Engineering District). Awarded the Meritorious Service Medal and brought to the notice of the Secretary of State for War.

Staff-Sergeant A. E. Smith, R.E. Signal Service (Skilled Workman, Class I, South Midland District). Awarded the Military Medal.

Lieutenant and Quartermaster B. Pooley, Cambridgeshire Regiment (Chief Inspector, Eastern District). Awarded the Military Cross.

Corporal J. Lindley, Royal Army Service Corps (Clerical Assistant, North-Eastern District). Awarded the Meritorious Service Medal.

Sergeant D. Thomson, Argyll and Sutherland Highlanders (Clerical Assistant, Scotland West District). Awarded the Distinguished Conduct Medal.

Corporal J. Dalgleish, R.E. Signal Service (Skilled Workman, Class I, North-Eastern District). Awarded the Meritorious Service Medal.

Sapper G. S. Furrie, R.E. Signal Service (Unestablished Skilled Workman, Scotland West District). Awarded the Military Medal.

ROLL OF HONOUR.

THE Board of Editors sincerely regrets the deaths on active service of the undermentioned members of the Engineering Department. Nineteenth List.

1919 July

STAFF

STAFF CHANGES.

Name.	Rank.	District.
F. W. Beere	Unest. Skilled Workman	E.
G. F. Burrell	Labourer	"
W. Donaldson	"	Scot. E.
C. C. Elliott	Unest. Skilled Workman	S. Wales.
E. Goddard	Labourer	S.W.
J. H. Hatt	Unest. Skilled Workman	N. Mid.
J. W. Haycock	Skilled Workman, Cl. II	London.
G. S. Heath	Youth	S.E.
J. E. Kingston	Unest. Skilled Workman	N.
A. Lynes	" " "	"
P. McMahon	" " "	Scot. E.
J. McPhillips	" " "	S. Wales.
P. H. Massey	Assistant Clerk	London.
J. T. Moran	Unest. Skilled Workman	N.W.
C. Parkes	Labourer	N. Wales.
A. Prior	"	S. Mid.
E. H. Reaney	Unest. Skilled Workman	N. Wales.
T. Robinson	Labourer	Ireland.
G. Ross	Skilled Workman, Cl. II	Scot. E.
N. S. Smith	Assistant Engineer	E. in C.O.
D. J. Taylor	Labourer	S. Wales.

~~STAFF CHANGES.~~

~~POST OFFICE ENGINEERING DEPARTMENT.~~

PROMOTIONS.

Name.	District.	From.	To.	Date.
Noble, W.	E. in C.O.	Asst. E. in C.	E. in C.	1 : 6 : 19
Purves, Major T. F.	"	Staff Engr.	Asst. E. in C.	1 : 6 : 19
O.B.E.	"	Asst. Staff Engr.	Staff Engr.	1 : 5 : 19
Henley, F. L.	"	Engr.		
Herbert, T. E.	Scot. W.	Exec. Engr.	Asst. Suptg. Engr.	10 : 5 : 19
Wood, A. H.	London.	Asst. Engr.	Exec. Engr.	1 : 5 : 19
Burton, G. M.	N.E.	"	"	26 : 3 : 19
Roche, T.	Ireland.	"	"	10 : 4 : 19
Patrick, J.	N. Mid.	"	"	7 : 4 : 19
Scott, A.	Scot. W.	"	"	"
Roberts, A. H.	E. in C.O.	"	"	24 : 3 : 19
McNicol, A. J.	S.E.	"	"	19 : 4 : 19
Markwick, J. J.	E. in C.O.	"	"	24 : 3 : 19
Cockshott, W. J.	S.W.	"	"	7 : 4 : 19
Simmance, J. H.	E. in C.O.	"	"	24 : 3 : 19

~~duct lines by the use of the repeater is one of the most promising developments in recent years.~~

~~Otherwise very little fault can be found. The loading of underground and submarine cables, the superposing of phantom circuits on physical lines, traffic problems, manual exchanges and the various automatic exchange systems are all well described and the diagrams are clear. The last chapter in the volume gives an account of the 'Relay Automatic Telephone Coy.'s System,' which is claimed to be the first full description published. The book is recommended to students of telephony in all stages, and should be available for reference in the files of every telephone engineer.~~

MILITARY HONOURS.

THE Board of Editors has great pleasure in publishing the further list of honours awarded to members of the Engineering Department :

Temporary Major (Acting Lieut.-Col.) A. Evans, O.B.E., M.C., R.E. (Assistant Engineer, North Midland District). Mentioned in Despatches.

Captain R. J. S. Gold, Civil Service Rifles (Second Class Clerk E.-in-C.'s Office). Mentioned in Despatches.

Temporary Lieut. (Acting Captain) F. Bate, R.E. (Third Class Clerk, North Midland District). Mentioned in Despatches.

Staff-Sergeant A. E. Brown, R.A.S.C. (Clerical Assistant, North Eastern District). Awarded the Meritorious Service Medal.

Sapper P. W. Castle, R.E. Signal Service (Unestablished Skilled Workman, Eastern District). Awarded the Military Medal.

Corporal (Acting Coy. Qmr.-Sergeant) C. Connell, R.E. Signal Service (Skilled Workman, Class II, Eastern District). Awarded the Meritorious Service Medal.

Second Corpl. A. S. Deboise, R.E. Signal Service (Skilled Workman, Class I, London District). Awarded the Meritorious Service Medal.

Sergeant W. E. Mattison, R.E. Signal Service (Unestablished Skilled Workman, London District). Awarded the Meritorious Service Medal.

Second Corpl. F. J. May, R.E. Signal Service (Clerical Assistant, South Western District). Mentioned in Despatches.

Sergeant R. A. T. Monk, King's R. R. Corps (Tradesman, London District). Awarded the Military Medal.

Lance-Corporal A. Mortimore, R.E. Signal Service (Clerical Assistant, South-Western District). Mentioned in Despatches.

HONOURS

MILITARY HONOURS.

Corporal A. W. Rance, R.E. Signal Service (Skilled Workman, Class II, Eastern District). Awarded the Meritorious Service Medal.

Company Sergt.-Major D. H. Shepherd, Hussars (Third Class Clerk, Eastern District). Awarded the Meritorious Service Medal.

Sapper E. A. Weidhoft, R.E. Signal Service (Youth, London District). Awarded the Military Medal.

Sergeant F. W. Burton, R.E. Signal Service (Skilled Workman, Class I, London District). Awarded the Médaille Militaire (French) and the Meritorious Service Medal.

Sergeant H. J. Dowsett, R.E. Signal Service (Unestablished Skilled Workman, London District). Awarded the Military Medal and Mentioned in Despatches.

Sergeant A. G. Sheppard, R.A.F. (Clerical Assistant, Testing Branch, E.-in-C.'s Office). Mentioned in Despatches.

Private R. Fairbairn, Highland Light Infantry (Unestablished Skilled Workmen, Scotland East). Awarded the Distinguished Conduct Medal.

Acting Major F. Penfold, R.E. Signal Service (Third Class Clerk, South-Eastern District). Mentioned in Despatches.

Corporal E. J. Abbott, R.E. Signal Service (Skilled Workman, Class II, London District). Awarded the Croix de Guerre.

Private G. F. Badcock, Wiltshire Regiment (Unestablished Skilled Workman, London District). Awarded the Distinguished Conduct Medal.

Acting Corporal F. J. Baxter, R.A.F. (Skilled Workmen, Class II, North Wales District). Mentioned in Despatches.

Lance-Corporal T. M. Berry, R.E. Signal Service (Skilled Workman, Class II, North-Western District). Awarded the Meritorious Service Medal.

Corporal S. Cooper, Machine Gun Corps (Labourer, North Wales District). Awarded the Military Medal.

Sergeant T. Cripps, R.E. Signal Service (Unestablished Skilled Workman, London District). Awarded the Meritorious Service Medal.

Corporal J. Dick, R.E. Signal Service (Third Class Clerk, Scotland West District). Awarded the Meritorious Service Medal.

Acting Sergt.-Major J. Hart, Middlesex Regt. (Labourer, London District). Awarded the Military Medal.

Gunner W. Kelly, R.F.A. (Assistant Clerk, London District). Mentioned in Despatches.

Corporal G. E. Morison, R.E. Signal Service (Unestablished Skilled Workman, Scotland West District). Awarded the Meritorious Service Medal.

Lance-Sergeant G. Nimmo, A. & S. Highdrs. (Third Class Clerk, Scotland West District). Awarded the Military Medal.

Flight-Sergeant H. W. Powell, R.A.F. (Inspector North Wales District). Mentioned in Despatches.

Corporal (Acting-Sergt.) F. Shipperbottom, R.A.F. (Skilled Workman, Class II, North-Western District). Awarded the Meritorious Service Medal.

Corporal A. R. Wallworth, R.E. Signal Service (Skilled Workman, Class II, North Wales District). Awarded the Meritorious Service Medal.

Lieutenant R. Gauld, R.E. Signal Service (Skilled Workman, Class II, Scotland East District). Mentioned in Despatches.

Second Lieut. (Acting Captain) F. Bate, R.E. Signal Service (Third Class Clerk, North Midland District). Mentioned in Despatches.

Second Lieutenant L. A. Bird, R.F.A. (Assistant Clerk, London District). Awarded the Military Cross.

Sergeant H. Brown, R.E. Signal Service (Third Class Clerk, South Midland District). Awarded the Meritorious Service Medal and Mentioned in Despatches.

Sergeant W. Clark, R.E. Signal Service (Unestablished Skilled Workman, Ireland District). Awarded the Military Medal.

Corporal L. A. Edwards, R.G.A. (Shorthand Typist, North Wales District). Awarded the Military Medal.

Sapper W. E. Evans, R.E. (Unestablished Skilled Workman, South Wales District). Awarded the Military Medal.

Corporal W. Hansford, R.E. Signal Service (Third Class Clerk, South Wales District). Awarded the Gold Medal (Serbian).

Sergeant J. J. James, R.E. (Unestablished Skilled Workman, North Midland District). Awarded the Distinguished Conduct and Military Medals.

Sapper W. T. Jones, R.E. Signal Service (Unestablished Skilled Workman, North Wales District). Mentioned in Despatches.

Corporal W. A. Middlemiss, R.E. Signal Service (Skilled Workman, Class II, Scotland East District). Mentioned in Despatches.

Sapper (Acting Company Sergt-Major) L. Taylor, R.E. (Skilled Workman, Class II, North-Western District). Awarded the Croce di Guerra, Italian, and Mentioned in Despatches.

Corporal (Acting Sergeant) H. Temple, R.E. Signal Service (Labourer, London District). Awarded the Distinguished Conduct and Military Medals, and mentioned in Despatches.

Major A. S. Angwin, D.S.O., M.C., R.E. Signal Service (Assistant Engineer, E.-in-C.'s Office). Mentioned in Despatches.

Temporary Major W. M. Batchelor, D.S.O., M.C., R.E. Signal Service (Assistant Superintending Engineer, Eastern District). Mentioned in Despatches.

HONOURS

MILITARY HONOURS.

Major H. Brown, O.B.E., R.E. Signal Service (Assistant Staff Engineer, E.-in-C.'s Office). Mentioned in Despatches.

Major E. A. Lewis, D.S.O., R.E. Signal Service (Chief Inspector, North Wales District). Mentioned in Despatches.

Temporary Lieutenant (Acting Captain) T. Campbell, R.E. (Third Class Clerk, Scotland East District). Mentioned in Despatches.

Temporary Lieutenant (Acting Captain) E. E. Fenn, R.E. Signal Service (Testing Branch, E.-in-C.'s Office). Mentioned in Despatches.

Lance-Corporal (Acting Sergeant) F. W. E. Fletcher, Tank Corps (Clerical Assistant, South-Western District). Mentioned in Despatches.

Sergeant J. A. Gladman, R.A.O.C. (Clerical Assistant, South-Eastern District). Awarded the Meritorious Service Medal.

Acting Company Sergeant-Major W. H. Zanazi, R.E. Signal Service (Unestablished Skilled Workman, South-Western District). Awarded the Distinguished Conduct Medal.

Lieutenant G. E. Appleton, R.E. Signal Service (Third Class Clerk, South-Eastern District). Mentioned in Despatches.

Second Lieutenant S. Hanford, R.E. Signal Service (Assistant Engineer, E.-in-C.'s Office). Mentioned in Despatches.

Sapper F. J. R. Dixon, R.E. Signal Service (Unestablished Skilled Workman, Northern District). Awarded the Military Medal.

Sapper (Acting Corporal) W. Hamilton, R.E. Signal Service, attached to R.F.A (Unestablished Skilled Workman, North Midland District). Awarded the Military Medal.

Sergeant W. D. Johnson, R.E. Signal Service (Skilled Workman, Class II, South Midland District). Awarded the Meritorious Service Medal.

Sapper J. W. Joseph, R.E. Signal Service (Third Class Clerk, London District). Mentioned in Despatches.

Company Qmr.-Sergeant J. V. B. Mosdell, R.E. Signal Service (Clerical Assistant, South Midland District). Mentioned in Despatches.

Sergeant J. F. Ryan, R.E. (Skilled Workman, Class II, South Western District). Awarded the Distinguished Conduct Medal.

Sergeant C. H. Reed, London Regiment (Skilled Workman, Class II, London District). Awarded the Distinguished Conduct Medal.

Sergeant F. G. Ainsworth, R.E. Signal Service (Skilled Workman, Class I, South Midland District). Awarded the Meritorious Service Medal.

Sergeant W. H. Siddle, R.E. Signal Service (Inspector, North-Eastern District). Awarded the Meritorious Service Medal.

ROLL OF HONOUR.

THE Board of Editors sincerely regrets the deaths on active service of the undermentioned members of the Engineering Department. Twentieth List.

Name.	Rank.	District.
R. Conlon	Unest. Skilled Workman .	S. Lancs.
A. J. Gardner	" " "	S. Wales.
E. E. Jenkins	Labourer .	"
G. H. Ronald	Skilled Workman, Cl. II .	Scot. W.
D. Saunders	Labourer .	S.E.
L. H. Shadforth	Inspector .	N.
A. J. Sheppard	Youth .	S. Mid.
F. E. Stapley	Labourer .	"
G. J. Tooke	" .	London.
P. D. Vanhinsbergh	" .	"

~~STAFF CHANGES.~~~~POST OFFICE ENGINEERING DEPARTMENT.~~~~PROMOTIONS.~~

Name.	District.	From.	To.	Date.
Freeman, F.	London.	2nd Cl. Clk.	1st Cl. Clerk.	13 : 4 : 19
Payne, W. J. A.	"	"	"	13 : 7 : 19
Bliss, C. H. D.	"	3rd Cl. Clerk	2nd Cl. Clerk.	13 : 4 : 19
Hilton, J. E. T. S.	"	"	"	"
Lock, F. J.	"	"	"	"
MacNalty, G. T.	"	"	"	20 : 7 : 19
Copp, S.	"	"	"	1 : 8 : 19
Archer, E. E.	N. Wa. to S.W.	"	"	1 : 6 : 19
Armstrong, C. P.	N.	"	"	13 : 4 : 19
Beetlestone, F. W.	S. Mid.	"	"	13 : 4 : 19
Bell, J. G.	N.W. to Scot.E.	"	"	1 : 6 : 19
Brown, H. H.	S.W.	"	"	13 : 4 : 19
Byrne, D. J.	Ire. to S. Lancs.	"	"	1 : 6 : 19
Carder, A.	S. Lancs.	"	"	13 : 4 : 19
Cross, W. H.	N. Mid.	"	"	"
Devereux, A. J.	S. Wa.	"	"	"
Dunnett, W.	N. Wa.	"	"	"
Green, G. H.	S. Lancs.	"	"	"
Harmsworth, W. H.	S.E.	"	"	"
Hemming, J. G.	N. Wa. to N.E.	"	"	1 : 6 : 19
Lyons, J. C.	N.Wa. to S.E.	"	"	"
McLaughlin, A.	N.	"	"	13 : 4 : 19
Mogg, C.	S. Wa.	"	"	"
Morrissey, L. J.	Ire. to S. Lancs.	"	"	1 : 6 : 19
Parker, C. E.	N.W.	"	"	13 : 4 : 19
Paxton, J.	Scot. W.	"	"	"
Rankin, W. H.	Ire. to N. Mid.	"	"	1 : 6 : 19
Scouller, W. H.	Scot. E.	"	"	13 : 4 : 19
Smith, A. C.	N. Wa. to S.	"	"	1 : 6 : 19
Thornburn, W. H.	Mid.	"	"	"
Whiteside, J. E.	N.E.	"	"	13 : 4 : 19
	N. Wa.	"	"	"

and with valves in parallel and a brief description of the multi-vibrateur form the material for an important chapter. Characteristics and descriptions of practically every type of receiver valve are given, and special valve designs, such as the Dynatron, Pliodynatron and valves used as limiters are also included. Continuous-wave transmission, with illustrations of modern transmitting valves and circuits both for telegraphy and telephony and continuous-wave and radio-telephony reception, are described very fully. High-frequency alternators and frequency multipliers are briefly described. Earth-current signalling and miscellaneous valve apparatus, including a brief reference to valve amplifiers on telephone lines, are such as to maintain one's interest in the book up to the last page. The author states that he had much opportunity of studying this subject whilst in France, and he is to be congratulated on so promptly publishing such a comprehensive record of the information gathered. The volume is quite a self-contained treatise on valves, and is one we can recommend to the serious attention of all workers in the radio art.

BOOKS RECEIVED AND IN PRESS.

'Flow and Measurement of Air and Gases.' By A. B. Eason, M.A. (Charles Griffin & Co. 250 pp. 25s. net.)

'Telephoning without Wires.' By Philip R. Coursey, B.Sc., A.M.I.E.E. (The Wireless Press, Ltd. 15s. net.)

'Alternating Current Work.' By A. Shore, A.M.I.E.E. (The Wireless Press, Ltd. 3s. 6d. net.)

Pamphlet No. 78: 'Telephone Transmission of Superimposed Circuits.' By Kazukiyo Ogawa. Researches of the Electro-Technical Laboratory, Department of Communications, Tokyo, Japan. July, 1919.

'Telephonic Transmission: Theoretical and Applied.' By J. G. Hill. (Longmans, Green & Co. 400 pp. 21s. net.)

MILITARY HONOURS.

THE Board of Editors has great pleasure in publishing the further list of honours awarded to members of the Engineering Department on active service:

Sergeant-Major T. B. Haynes, R.A.S.C. (Clerical Assistant, Eastern). Awarded the Meritorious Service Medal.

Sergeant B. Hollaway, R.E. Signal Service (Clerical Assistant, South-Eastern). Awarded the Meritorious Service Medal.

Private (Acting Sergeant) F. Mells, Hampshire Regt. (Labourer, South Midland). Awarded the Distinguished Conduct Medal.

Sapper T. F. Pine, R.E. Signal Service (Third Class Clerk, South Midland). Awarded the Bronze Medal (Italian).

Acting Captain F. W. Holder, R.E. Signal Service (Chief Inspector, London). Mentioned in Despatches.

Captain T. S. Lancaster, R.E. Signal Service (Chief Inspector, London). Awarded the Military Cross.

Acting Captain H. B. Robertson, Seaforth Highlanders (Clerical Assistant, Scotland West). Mentioned in Despatches.

Sergeant W. J. Beaumont, R.A.F. (Unestablished Skilled Workman, London). Awarded the Meritorious Service Medal and Mentioned in Despatches.

Second-Corpl. A. Holland, R.E. Signal Service (Unestablished Skilled Workman, North Wales). Awarded the Croix de Guerre (Belgian) and the Military Medal.

Sapper C. H. Lowis, R.E. Signal Service (Skilled Workman, Class II, South Lancs). Awarded the Military Medal.

Second Corporal H. Morley, R.E. Signal Service (Skilled Workman, Class II, South Wales). Mentioned in Despatches.

Company Sergt.-Major C. H. Rodway, R.E. Signal Service (Second Class Clerk, London). Awarded the Meritorious Service Medal.

Sergeant W. A. B. Romain, R.E. Signal Service (Chief Inspector, London). Mentioned in Despatches.

Regimental Sergt.-Major F. J. Smith, R.A.M.C. (Clerical Assistant, North Midland). Mentioned in Despatches.

Corporal E. J. N. Winstone, R.E. Signal Service (Inspector, London). Mentioned in Despatches.

Sapper C. Wyatt, R.E. Signal Service (Unestablished Skilled Workman, South-Western). Awarded the Military Medal and a Bar.

Hon. Captain B. S. Cohen, R.A.F. (Assistant Staff Engineer, E.-in-C.'s Office). Brought to the notice of the Secretary of State for War for valuable services.

Lieutenant A. J. Willmot, R.E. Signal Service (Inspector, Test Section, E.-in-C.'s Office). Brought to the notice of the Secretary of State for War for valuable services.

Sergeant T. B. McIver, R.E. Signal Service (Skilled Workman, Class II, Scotland East). Awarded the Distinguished Conduct Medal.

Sapper E. A. Fletcher, R.E. Signal Service (Unestablished Skilled Workman, Eastern). Awarded the Military Medal.

Sapper J. Morrison, R.E. Signal Service (Skilled Workman, Class I). Awarded bronze medal by French Government for gallantry in saving crew of sailing vessel near Boulogne.

Sergeant R. E. Deakin, R.E. (Inspector, North Wales). Awarded the Military Medal.

Sapper J. Canning, R.E. Signal Service (Unestablished Skilled Workman, Scotland West). Awarded L'Ordre de Leopold II, Chevalier, and the Decoration Militaire, Second Class, Belgian.

Sergeant F. C. Beazer, R.E. Signal Service (Inspector, London). Awarded the Meritorious Service Medal.

Sergeant C. R. Morgan, R.E. (Skilled Workman, Class II, South Western). Awarded the Distinguished Conduct Medal.

Corporal R. Calderwood, R.E. Signal Service (Unestablished Skilled Workman, Scotland West). Awarded the Meritorious Service Medal.

Sapper D. Crossley, R.E. (Skilled Workman, Class II, North-Western). Awarded the Meritorious Service Medal.

Captain J. Cameron, O.B.E., R.E. Signal Service (Executive Engineer, Scotland West). Mentioned in Despatches.

Captain F. A. Linsell, R.E. Signal Service (Assistant Engineer, South Midland). Awarded the Military Cross.

Able-Seaman R. Anderson, Royal Fleet Reserve (Skilled Workman, Class II, Scotland West). Awarded the Order of St. Stanislas, Second Class (Russian).

Sapper J. A. Andrews, R.E. (Unestablished Skilled Workman, South Midland). Awarded the Military Medal.

Staff Qmr.-Sergeant S. F. Bonner, R.A.S.C. (Clerical Assistant, East). Awarded the Medaille Barbatie si Credinta, First Class (Roumanian).

Bombardier E. A. F. Bridle, R.G.A. (Unestablished Skilled Workman, South Midland). Mentioned in Despatches.

Sapper G. S. Furrie, R.E. Signal Service (Skilled Workman, Class II, Scotland West). Awarded the Military Medal.

Corporal J. Hannower, R.E. Signal Service (Skilled Workman, Class II, Scotland West). Awarded the Distinguished Conduct Medal and mentioned in Despatches.

Sergeant A. Hogg, R.E. Signal Service (Skilled Workman, Class II, Scotland West). Awarded the Meritorious Service Medal.

Sapper W. T. Jones, R.E. Signal Service (Unestablished Skilled Workman, North Wales). Awarded the Medaille Barbatie, Third Class (Roumanian).

Sergeant H. P. Leach, R.E. Signal Service (Skilled Workman, Class II, South Midland). Awarded the Meritorious Service Medal.

Sapper A. Leitch, R.E. Signal Service (Skilled Workman, Class II, Scotland West). Awarded the Military Medal.

Sapper W. J. K. McCubbin, R.E. Signal Service (Unestablished Skilled Workman, Scotland West). Awarded the Meritorious Service Medal.

ROLL OF HONOUR

ROLL OF HONOUR.

Sapper A. McHarg, R.E. Signal Service (Unestablished Skilled Workman, Scotland West). Awarded the Military Medal.

Sergeant J. Mew, Hampshire Regt. (Unestablished Skilled Workman, South Midland). Mentioned in Despatches.

Corporal T. A. Mullins, R.E. Signal Service (Skilled Workman, Ireland). Awarded the Military Medal.

Corporal E. C. C. Piggott, R.E. Signal Service (Unestablished Skilled Workman, North Wales). Awarded the Military Medal.

Sapper E. Sillence, R.E. Signal Service (Unestablished Skilled Workman, South Midland). Awarded the Military Medal.

Lance-Corporal A. G. Sims, Hampshire Regt. (Labourer, South Midland). Awarded the Croix de Guerre (France) and the Military Medal.

Corporal W. Vessey, R.E. Signal Service (Unestablished Skilled Workman, London). Awarded the Meritorious Service Medal.

Corporal A. P. Wane, R.E. Signal Service (Unestablished Skilled Workman, South Midland). Awarded the Military Medal.

Second Corpl. R. E. Webb, R.E. Signal Service (Skilled Workman, Class II, South Western). Awarded the Distinguished Conduct Medal.

Corporal F. Webster, R.E. Signal Service (Clerical Assistant, North Midland). Awarded the Distinguished Conduct Medal.

Sapper W. R. Wood, R.E. Signal Service (Assistant Clerk, London). Mentioned in Despatches.

ROLL OF HONOUR.

THE Board of Editors sincerely regrets the deaths on active service of the undermentioned members of the Engineering Department. Twenty-first List.

Name.	Rank.	District.
W. Butcher . . .	Unest. Skilled Workman .	N.E.
W. A. Foster . . .	Labourer .	S.W.
C. Phillips . . .	" .	E.
John Smith . . .	Unest. Skilled Workman .	Scot. E.
A. R. Swan . . .	Labourer .	"
T. J. Wheeler . . .	Unest. Skilled Workman .	London.

ROLL OF HONOUR

ROLL OF HONOUR.

Sapper A. McHarg, R.E. Signal Service (Unestablished Skilled Workman, Scotland West). Awarded the Military Medal.

Sergeant J. Mew, Hampshire Regt. (Unestablished Skilled Workman, South Midland). Mentioned in Despatches.

Corporal T. A. Mullins, R.E. Signal Service (Skilled Workman, Ireland). Awarded the Military Medal.

Corporal E. C. C. Piggott, R.E. Signal Service (Unestablished Skilled Workman, North Wales). Awarded the Military Medal.

Sapper E. Sillence, R.E. Signal Service (Unestablished Skilled Workman, South Midland). Awarded the Military Medal.

Lance-Corporal A. G. Sims, Hampshire Regt. (Labourer, South Midland). Awarded the Croix de Guerre (France) and the Military Medal.

Corporal W. Vessey, R.E. Signal Service (Unestablished Skilled Workman, London). Awarded the Meritorious Service Medal.

Corporal A. P. Wane, R.E. Signal Service (Unestablished Skilled Workman, South Midland). Awarded the Military Medal.

Second Corpl. R. E. Webb, R.E. Signal Service (Skilled Workman, Class II, South Western). Awarded the Distinguished Conduct Medal.

Corporal F. Webster, R.E. Signal Service (Clerical Assistant, North Midland). Awarded the Distinguished Conduct Medal.

Sapper W. R. Wood, R.E. Signal Service (Assistant Clerk, London). Mentioned in Despatches.

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C. Phillips . . .	" .	E.
John Smith . . .	Unest. Skilled Workman .	Scot. E.
A. R. Swan . . .	Labourer .	"
T. J. Wheeler . . .	Unest. Skilled Workman .	London.

~~of the North-East Internal Section of the London Engineering District.~~

~~For several years Mr. Price represented the London Executive Engineers on the Council of the Institution of Post Office Electrical Engineers, and his services in that connection were greatly valued.~~

~~As Chairman of the Society of Post Office Engineers, a position he held for many years, Mr. Price, by his unfailing courtesy and unremitting energy on behalf of their cause, will ever be gratefully remembered by his colleagues. Recently, on the occasion of his retirement from that position, he was made the recipient of a valuable presentation as a token of the esteem and regard in which he is held.~~

~~As a conversationalist and raconteur Mr. Price probably had no equal in the Engineering Branch, and any function which could secure his services in the "chair" was assured of success.~~

~~All his life a clean and careful liver, Mr. Price retired at the age of sixty-two a comparatively well preserved man, with every prospect of living many years in the enjoyment of his well earned retirement. That this will prove to be so is the heartfelt wish of everyone who had the privilege of knowing him and enjoying his friendship.~~

~~H. E. A. W.~~

MILITARY HONOURS.

The Board of Editors has great pleasure in publishing the further list of honours awarded to members of the Engineering Department on active service:

Sergeant W. Hodge, Scots Guards (Unestablished Skilled Workman, Scotland East). Awarded the Military Medal.

Company Quartermaster-Sergeant J. V. B. Mosdell, R.E. (Clerical Assistant, South Midland). Awarded the Meritorious Service Medal.

Sapper A. Buchanan, R.E. Signal Service (Unestablished Skilled Workman, Scotland West). Awarded the Military Medal.

Company Sergeant-Major J. Cooper, Gordon Highlanders (Labourer, Scotland West). Awarded the Distinguished Conduct and Military Medals.

Lance-Corporal D. M. Currie, R.E. Signal Service (Unestablished Skilled Workman, Scotland West). Awarded the Military Medal.

Sapper W. Graham, R.E. Signal Service (Skilled Workman, Class II, Scotland West). Awarded the Military Medal.

Second Corporal D. Miller, R.E. Signal Service (Unestablished Skilled Workman, Scotland East). Awarded the Military Medal.

Sapper A. H. Muir, R.E. Signal Service (Skilled Workman, Class II, Scotland West). Awarded the Military Medal.

Major R. D. Oliver, Labour Corps (Clerical Assistant, Northern). Mentioned in Despatches.

Leading Air Craftsman W. M. Fraser, R.A.F. (Clerical Assistant, Scotland East). Awarded the Meritorious Service Medal.

Company Quartermaster-Sergeant E. F. Hillard, East Surrey Regiment (Skilled Workman, Class II, London). Awarded the Meritorious Service Medal.

Sapper C. Smith, R.E. Signal Service (Skilled Workman, Class II, London). Awarded the Meritorious Service Medal.

Sergeant T. Forsyth, Royal Marine Artillery (Unestablished Skilled Workman, Scotland East). Awarded the Distinguished Conduct Medal.

Lieutenant H. D. Hanbury, R.E. Signal Service (Third Class Clerk, South Lancs.). Awarded the Military Cross and Mentioned in Despatches.

Corporal F. W. Arnold, R.E. Signal Service (Labourer, North Wales). Awarded the Military Medal.

Sergeant J. Fletcher, R.E. Signal Service (Skilled Workman, Class II, Northern District). Awarded the Meritorious Service Medal.

Sergeant E. Leonard, Cheshire Regiment (Labourer, North Wales). Awarded the Military Medal.

Gunner C. J. A. Mintern, R.G.A. (Skilled Workman, Class II, London). Awarded the Distinguished Conduct Medal.

Corporal L. C. Suggars, P.O. Rifles (Unestablished Draughtsman, Engineer-in-Chief's Office). Awarded the Military Medal.

Second Corporal J. O. Walker, R.E. Signal Service (Inspector, North Western). Mentioned in Despatches.

Company Quartermaster-Sergeant A. T. S. Maber, R.E. Signal Service (Inspector, Eastern). Awarded the Meritorious Service Medal.

Lieutenant J. Hopkinson, R.E. Signal Service (Third Class Clerk, North Wales). Awarded the Croix de Guerre (Belgian).

Leading Air Craftsman G. A. Ward, R.A.F. (Unestablished Skilled Workman, London). Awarded the Meritorious Service Medal.

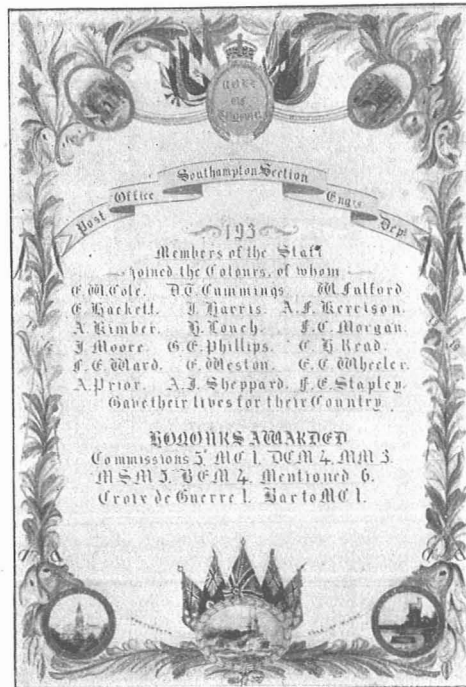
Company Sergeant-Major J. Campbell, H.L.I. (Labourer, Scotland West). Awarded the Military Medal.

Sergeant J. A. Hilling, London Regiment (Unestablished Skilled Workman, S. Midland). Awarded the Military Medal.

Sergeant M. E. King, R.E. Signal Service (Skilled Workman, Class I, S. Midland). Awarded the Medaille Militaire and Mentioned in Despatches.

Sergeant C. H. Little, York and Lancs. Regiment (Labourer, S. Midland). Awarded the Distinguished Conduct Medal.

ROLL OF HONOUR.



SOUTHAMPTON SECTION ROLL OF HONOUR.

(Drawn and painted in water colours by J. S. Brown, Southampton.)

THE Board of Editors sincerely regrets the deaths on active service of the undermentioned members of the Engineering Department. Twenty-second List.

Name.	Rank.	District.
J. Greenwood . . .	Labourer . . .	N. Midland.
A. H. McLaine . . .	Youth . . .	S. Lancs.
O. R. Williams . . .	Unest. Skilled Workman . . .	N. Wa.
G. A. Whelahan . . .	Clerical Assistant . . .	N.W.
E. Ratcliffe . . .	Labourer . . .	London.
A. G. S. Bartholomew	Youth . . .	Eastern.