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consider how they had best to go to work. We have furnished them with a model scheme, which may require adaptation for the constitution of the association, which they will consider and report to us, and as it is shaped by them we will adopt it, and incorporate the association. The association will have on it, under the Act, which has just passed, half of its members representing the Territorial forces, and the other half representing other elements. The latter will have as president the Lord prebendary, and as secretary, a vicar-chaplain, and as chairman, a vicar important to have.

ary, and I think it is very good service. I should be a person of real life, but I have no knowledge and experience. You cannot do this kind of work—that is, you cannot do it after the equipment of troops and the first hand experience—unless you have had the experience of it, and the secretary will either be a very experienced Territorial officer or an experienced Regular officer. There are lots of Regular officers glad to take their pay and settle down and take up the position of secretaries for the organization of the forces of the Crown in the counties. Some of the counties will find it convenient to join together for the appointment of secretaries, so as to be able to provide themselves with

one of the highest quality; or they may be of a lower quality, but it is convenient, under another clause of the bill, to form a joint committee group to study the counties for that purpose. But the purpose and basis of the whole thing is the fact that the county will have its own association of people to keep up the county life. It is not only the raising and maintaining of these forces; they have to take care of the Roads, and the county associations are to look after the military life of the whole country. We have to bring the people and the army much more closely together than has been the case in the past. There was a state of things in which the man who went into the regular army used to be looked down

the village; we hope to put an end to this by making the army more popular. The soldiers after paid today and better looked after than we were before, and with the new associations we hope to make him better looked after still. We hope to bring the people and the soldier closer together, and to make the people feel that it is not only an army of regular soldiers, but an army of territorial soldiers, who are just the same as we, who are ready to give their time and military duty just as there are others wishing now to give up their time to the country in school boards and county organizations, and civil functions of that kind. I have told you pretty generally how the army is getting

In the county of Perth, I have to work out the following:—You have at the present time, for the following units:—You have got half of the double regiment of Scottish Horse, you have got a regiment of four squadrons of the Scottish Horse, and their commanding officer is by my calculations a very good officer, and on the right side. Needless to say, I will not change there—we are only to get to have them. Then we have two weak infantry battalions, good but not up to the great strength we desire, and they have to come together to form a strong battalion. Then we want to raise in Perthshire a battalion that mountain artillery of which I have, that mountain have a lot of useless garrison artillery. There seems to be a notion that some

how or other, if you only put people in a place where a foreign enemy is not likely to land and give them guns and shells, they should be as effective as bows and arrows you add something to the defence of the country. You would like to sweep away all that, and when the garrison artillery does get guns they will be 9.2, or really modern heavy fellows. What we want to develop for home defence is the use of field artillery according to modern notions, and for that purpose I think the Government asked to provide a mountain battery which may be used very effectively upon any enemy who comes to wage war upon the shores of the Tay. (Cheers.) The result will be that

Pertshire, which has at present four regiments, have three of the kind that I have mentioned. There is no doubt we have something more. I would not wonder if it turned out that the head quarters of the division were in Perthshire; I think that is not impossible, but, at any rate, there will be a considerable amount of those extra troops which I have spoken, the two brigades of infantry which are in the divisions of the two divisions. Few of these will be raised in Perthshire, so that Perthshire will have a great deal of work to do. But it will very likely be expedient that Perthshire should associate itself in its work with one or two of the divisions in order to get the maximum of effect.

destroy your county identity, or county spirit, but it will enable you to discharge your functions more efficiently. I have given you a description of the working of the system which I think goes somewhat in advance of the information which you have obtained. We have got these things started. I have worked out now. I hope that next month, not with undue rapidity, but still very rapidly, we shall pour out upon you sets of minute instructions for everything that is wanted, which will give to each association the information which it needs, and it is desired. We hope that the associations will be working at the end of the year, and that in the two months January and

February, they will have worked out the arrangement for the transfer of the units, and that they will be ready on March 1st to see the order in council carried into effect. It is not possible that Rome was not built in a day, and their system will not come into operation in a day. It will begin perhaps with a good deal of shortage of men—I think that is very likely—but if we leave a perfect pattern and a perfect ideal before them, they may be able to get their countrymen and their kinsmen to follow that, if the thing is practicable—within their compass, they will not be found wanting in public spirit. (Cheers.) We have prepared the machine, they will have to work it here.

as elsewhere. I mean to trust the people, and we believe that in trusting the people and bringing the army and the people close together, in founding the army in the very nation itself instead of leaving it as a caste apart, lies the solution of a problem of the best and most scientific system of defence that can be devised for these shores. (Cheers.)



Figure 1 is a schematic diagram of a two-dimensional electron gas (2DEG) in a GaAs/AlGaAs heterostructure. The diagram shows a cross-section of the heterostructure with a GaAs layer on top of an AlGaAs layer. A 2DEG is formed at the interface. A magnetic field B is applied perpendicular to the plane. A current I is shown flowing along the x -axis. The diagram is labeled with 'GaAs', 'AlGaAs', '2DEG', ' B ', and ' I '.

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that his army of territorial soldiers, who are ready to give their military duty just as there are others who are ready to give up their time to go to the boards and county councils, and civil and other work of that kind. I have told you pretty generally how the thing is to work out, and I have said that, for instance, if you have at the present time the following units—You have got half of the double regiment of Scottish Horse, you have got half of four squadrons of the Scottish Horse, by a lieutenant commanding officer is by a sergeant. Needless to say, there will be a change in the personnel of the squadrons have them. Then we have two heavy infantry battalions, good but not up to the great strength we desire, and they have a company of machine gunners in the battalion. Then we want to raise in Perthshire a battery of that mountain artillery of which I have spoken. We have a battery of the heavy artillery. There seems to be a notion that some-

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but, at any rate, there will be a considerable amount of those extra troops of which I have spoken, the two brigades of the county, which are in addition to the two regular battalions, will be raised in Perthshire, so that Perthshire will have a great deal of work to do. It will very likely be necessary for Perthshire should associate itself in its own defence with even two counties in order to get the maximum of efficiency. That will not destroy your county identity or county spirit, but it will enable you to discharge your functions more effectively. I have given you a description of the working of the system which I think goes somewhat in advance of the information which you have obtained. I think you have seen that it is already worked out now. I hope that next month, not with undue rapidity, but still very rapidly, we shall pour out upon you sets of minute instructions

will give to each association the information as to what we want it to do. We hope that the associations will be working at the end of the year, and that by the end of January and February, they will have worked out the arrangement for the transfer of the units, and that they will be ready on March 31 to see the order in council. The system will be ready to go, and Rome was not built in a day, and their system will not come into operation in a day. It will begin perhaps with a good deal of shortage of men—there will be a very big shortage of men in a perfect pattern and a perfect ideal to work out then my knowledge of the countrymen and their keenness tell me that if the thing is practicable, and if the thing is possible, it will probably be found wanting in public spirit (Cheers.) We have prepared the machine, they will have to work it here as elsewhere. We mean to trust the

the people and bringing the army and the people close together, in founding the army in the very nation itself instead of leaving it as a caste apart. It is the solution of a problem of the best and most scientific system of defence that can be devised for these shores. (Cheers.)

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good deal of shortage of men—but that is very likely—but if we leave it perfect pattern and a perfect ideal of work out then my knowledge of my countrymen and their keenness tell me that, if the thing is practicable within their compass, they will not be found wanting in public spirit" (Cheers). We have prepared the machine, they will have to work it here as elsewhere. We mean to trust the people, and believe that in trusting the people and bringing the army and the people close together, in founding the army in the very nation itself instead of leaving it as a caste, we shall find the solution of a problem of the best and most scientific system of defence that has yet been devised for this shore. (Cheers.)



Figure 1 is a schematic diagram of a two-dimensional electron gas (2DEG) in a GaAs/AlGaAs heterostructure. The diagram shows a cross-section of the heterostructure with a GaAs layer on top of an AlGaAs layer. A 2DEG is formed at the interface. A magnetic field B is applied perpendicular to the plane. A current I is shown flowing along the x -axis. The diagram is labeled with 'GaAs', 'AlGaAs', '2DEG', ' B ', and ' I '.

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