

The Type of Trypanosomes found in the Infected Flies.

No attempt was made by the Commission to study the development of *Trypanosoma caprae* in *Glossina morsitans* in the earliest stages. This can only be done if a large number of laboratory-bred flies are available, and this was not the case in Nyasaland.

In Figs. 8 and 9 are represented some of the developmental forms found in the labial cavity and hypopharynx of infected flies. It will be seen that most of the flagellates found attached to the labrum are crithidial in type, with well defined nuclei, micro-nuclei, and free flagella. Some are ribbon shaped, others have elongated posterior extremities, and again others are torpedo-shaped.

The last three rows are from the hypopharynx, and have been obtained, as a rule, by causing the fly to salivate on the cover-glass. They represent the final stage in the cycle of development, the reversion to the infective or blood form. They are rather smaller than those found in the blood of the vertebrate host, but resemble them closely in every other way.

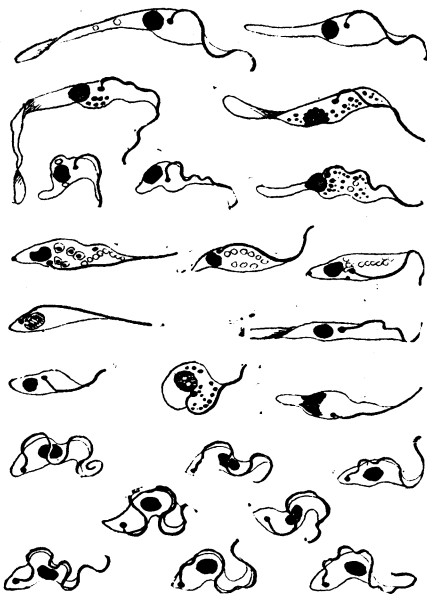


Fig. 8.—*Trypanosoma caprae* from proboscis.

The Reservoir of Trypanosoma caprae.

Among the 180 wild animals examined in Nyasaland 20 harboured *Trypanosoma caprae* (11.1 per cent.); 61 per cent. of the waterbuck and 47 per cent. of the reedbuck acted as reservoirs.

CONCLUSION.

This concludes the Croonian Lectures on the trypanosomes causing disease in man and animals in Central Africa. These lectures deal with but a small part of the subject, which has in the course of the last twenty years grown to huge proportions. Nothing has been said about medicinal treatment, and even measures of prevention have been left a good deal to the imagination. Taking a look back over the whole field, the outstanding features

may be said to be, first, that some order is beginning to reign in what was lately chaos in regard to the classification of the pathogenic trypanosomes. They may all now be referred to three groups, and nine species.

In regard to the transference of the virus from sick to healthy animals by the fly, this has been made clearer and easier of comprehension by the discovery of the part the salivary glands and hypopharynx play in the various modes of development which the trypanosomes undergo in the fly. It results that it would almost appear impossible for an infective fly to pierce even momentarily the skin of a healthy susceptible animal without causing infection.

Another important feature is the proof brought forward that *Trypanosoma brucei* and *Trypanosoma rhodesiense* are the same.

Finally, in regard to the prevention of these trypanosome diseases of man and domestic animals. We have seen that the wild game in the fly country is heavily infected. It is impossible to doubt that they are the reservoir and source of many of these diseases. There can be little



Fig. 9.—*Trypanosoma caprae*: Development in proboscis.

doubt that if the wild game were driven out of the fly country, trypanosome diseases such as those caused by *Trypanosoma brucei* and *Trypanosoma pecorum* would disappear.

In regard to the measures of prevention against the most important of all the trypanosome diseases—Congo sleeping sickness—it has been shown by experience that the removal of the natives from the fly area is a simple and efficacious way of stopping an epidemic.

In these sparsely inhabited countries where spare land and food are easily obtained, there is as a rule no difficulty in effecting this migration.

If it is desired to go a step further and render the sleeping sickness area inhabitable, then clearing and cultivation must be resorted to. By these means in all probability *Glossina palpalis* will be driven away, and with it the disease.

Memoranda:

MEDICAL, SURGICAL, OBSTETRICAL.

TREATMENT OF RIGID OS UTERI.

I HAVE read with interest Dr. John A. Irvine's communication on this subject in the JOURNAL of June 12th, p. 1002. The administration of tartar emetic successfully rectified the uterine complication. The effects of antimony, however, are far from pleasant to the patient, and liable to cause dangerous depression. There is, in my opinion, a better way by which the relaxation of the rigid os uteri may be effected *cito, tuto, et jucunde*.

As I have pointed out in my book *Clinical Memoranda* (Baillière and Co.), the application of a tampon of lint or absorbent cotton-wool, soaked in a solution of cocaine, or β eucaine (10 grains to the ounce of boric acid solution), to, or into, the os and cervix, acts like a charm.

The irritated nerves and muscular fibres are anaesthetized, and the spasm relaxes directly—even within five minutes—the os dilating widely. On many occasions I

have had cause to bless this precious drug which has never failed me.

Not only does the cocaine relieve the spasm of the os, but, as the solution spreads all over the vagina, it also anaesthetizes the mucous membrane, permitting the head to pass through the outlet with a minimum of discomfort.

Driffield, E. Yorks.

A. T. BRAND, M.D.

RECURRENT VESICULAR RASH.

I HAVE at present a young married woman under my care who has a blister which appeared spontaneously over the lower end of the ulna. About nine months ago a somewhat smaller blister arose over the big toe. I then thought a shoe must have wrung her foot. She had a patch of zoster over the glutei in the winter, and when the ulna blister appeared there was a fresh patch of zoster. All these manifestations were on the left side. She is quite healthy otherwise except for slight grating in some joints and slight occasional asthma. I regard the whole as a manifestation of fibrositis.

Bournemouth.

GEORGE MAZARD.

had developed other questions considerably affecting the interests of Poor Law medical officers. He specially drew attention to the urgent necessity of all Poor Law medical officers giving their utmost assistance to the work of the association.

The balance sheet was next submitted to the meeting, and, after some discussion, was unanimously approved.

Election of Officers.

Surgeon-General Evatt was unanimously re-elected President, and Dr. D. B. Balding Chairman of Council, for the ensuing year.

The Honorary Secretary drew attention to the long service of Dr. Balding, and Dr. Balding thanked the members for their recognition of his efforts to promote their welfare, and hoped that he might still be able to attend their council for a time. Dr. Major Greenwood was unanimously re-elected Honorary Secretary.

Dr. Napper stated that it was not his intention to accept re-election to his office of Treasurer. He thought, under the business arrangements, the duties of Treasurer would be better performed by the Honorary Secretary, or by Mr. Frank Greenwood, their solicitor, as most of their business was done in his office. After some discussion, Mr. Frank Greenwood, the senior member of the firm, Messrs. Beckingsale and Co., was elected to succeed Dr. Napper, to whom a hearty vote of thanks was unanimously passed for his great services in the past. Dr. Withers Green was unanimously re-elected auditor.

The following were elected members of the Council for 1915-16: Dr. W. Holder (Hull), Dr. Gidley-Moore (Fyfield), Dr. Lloyd Brown (Eastbourne), Dr. A. Drury (Halifax), Dr. C. Biddle (Merthyr Tydfil), Dr. Withers Green (London), Dr. Napper (Cranleigh), Dr. Thackray Parsons (London), Dr. A. P. Agnew (Burnley), Dr. Geo. Jackson (Plymouth).

Universities and Colleges.

UNIVERSITY OF EDINBURGH.

GRADUATION CEREMONIAL.

THE ordinary July graduation in Medicine in Edinburgh University was this year combined with that in Arts, and the joint ceremonial took place on Thursday, July 8th. The only medical man to receive the honorary degree of Doctor of Laws on this occasion was Professor Arthur Thomson, M.B., who has for thirty years been in charge of the Department of Anatomy in Oxford University. The smallness of the list of doctors of medicine, which only contained the names of eleven men and two women, was no doubt due to the war, which cannot be regarded as favourable to the acquirement of additional degrees or to the prosecution of scientific research. No gold medals were awarded. Eighty-five students, including seven women, obtained the degrees of Bachelor of Medicine and Bachelor of Surgery, four with first class and the same number with second class honours. The lists of the M.D.'s and M.B., Ch.B.'s, along with the details of Fellowships, scholarships, and prizes which were gained, is appended. Sir William Turner, the Vice-Chancellor, in his address to the graduates, spoke of the Roll of Honour of the university, which contained 3,550 persons' names, of whom 2,513 had received commissions. He pointed out that the Chancellor, who headed the list, was First Lord of the Admiralty, and that the Lord Rector was Secretary of State for War, that sixty-five members of the staff engaged in teaching and administration were serving with the forces, and that 2,200 graduates, of whom 1,525 were medical, had joined the navy and army. There were also 457 of the present students training in the Officers' Training Corps, so that the total of the Roll was 4,000. The Vice-Chancellor brought his remarks to a close by quoting from a letter from a graduate of the university and a doctor of medicine (Sir Arthur Conan Doyle), in which he said "it was good to hear that the men from Edinburgh University had, both in the firing line and behind it, showed that the old iron was in their blood."

M.D.—*R. Aitken, *S. Bolton, C. H. Corbett (Lieutenant R.A.M.C.), J. Graham, Annie Jackson, *W. H. Johnston, *D. C. Macaskill, Elizabeth Macleod, *J. Maxwell, *E. C. Peake, A. A. Rutherford (Lieutenant R.A.M.C.), *W. G. Thwaytes (Surgeon R.N.), *C. A. Wyon (Lieutenant R.A.M.C.).

M.B., Ch.B.—J. C. Anderson, *J. M. Anderson, J. S. Armstrong, *F. W. W. Bailie, T. Y. Barkley, H. J. P. Brüwer, J. F. M. Campbell, W. M. Christie, A. G. Clark, T. L. Clark, A. R. F. Clarke (Lieutenant R.A.M.C., S.R.), I. A. Clarke, *W. A. Cochran, C. H. H. Coetzee, M. K. Cooper, M. F. Daniel, M. W. Danzig, P. C. Davie, C. W. S. Davies-Jones, D. Dunlop, Mary O. Fergusson, E. L. Galgut, A. M. Ghosh, A. W. Gunn, F. M. Halley, J. A. Henderson, J. Hepburn, Helen G. Hewat, Y. H. Hoashoo, R. M. Hume, F. B. Israel, T. Janakiramiah, O. D. Jarvis (Lieutenant R.A.M.C., S.R.), G. G. S. Johnston, D. H. Jones, Muriel H. Kerr, S. A. Kuny, P. W. Lam, Jean Etienne Larché, N. B. Laughton, A. R. Laurie, E. Law, R. Lawson, A. L. J. Lim, H. L. H. Lim, P. MacD. Little, J. G. Loudon, *J. E. McCartney, Helen McDougall, I. McDowall, W. K. McIntyre, Marjory Macnaughton, J. W. Malcolm (Lieutenant R.A.M.C., S.R.), D. Malloch, Mary Martin, A. P. Meiring, M. F. Meiring, A. R. Menon, T. C. St. C. Morton, F. H. Nixey, W. T. Patterson, *J. W. Potter, O. D. Price, W. J. Purdy, N. L. Reiss (Lieutenant R.A.M.C., S.R.), *J. W. G. H. Riddell, J. W. Riddoch, J. Rodger, C. Russell, W. Shanks, J. W. Simpson, G. H. Sinclair, E. T. Solomon, *S. H. Stewart, T. M. Stewart, H. Tren, J. Walker, J. W. Matthews, L. H. Werden, W. G. Weston, J. D. Whitfield, M. E. Willcock, *J. M. Wishart, F. G. Wright, C. J. Young.

* Highly commended for thesis. † Commended. ‡ First-class honours. § Second-class honours.

Fellowships, Scholarships, and Prizes.

Cameron Prize in Practical Therapeutics: Sir Lander Brunton, Bt., M.D., Edin., LL.D., for his valuable researches in pharmacology and their applications to therapeutics, initiated in his M.D. thesis on digitalis, which was awarded a gold medal by the Senatus of this University in 1868, and continued and extended in the second edition of his work on the *Therapeutics of the Circulation*, published in 1914.

Goodsir Memorial Fellowship: Stuart Bolton, M.D. Straits Settlements Gold Medal: Donald Cameron Macaskill, M.A., M.D. Ettles Scholarship (to the most distinguished student during the five years' curriculum): James Elvins M'Cartney, M.B., Ch.B. Freeland Barbour Fellowship: John William Riddoch, M.B., Ch.B. Murchison Memorial Scholarship in Clinical Medicine: Charles George Lambie, M.B., Ch.B. Beaney Prize in Anatomy and Surgery: James Whiteford Potter, M.B., Ch.B. Mouat Scholarship in the Practice of Physic: James Elvins M'Cartney, M.B., Ch.B. Conan Doyle Prize (to the most distinguished student from South Africa): Michael Ferreira Meiring, M.B., Ch.B. Buchanan Scholarship in Gynaecology: William Alexander Cochran, M.B., Ch.B. James Scott Scholarship in Midwifery: James Wilfrid George Hewat Riddell, M.B., Ch.B. Dorothy Gilfillan Memorial Prize (to the most distinguished woman student): Marjory Macnaughton, B.Sc., M.B., Ch.B. Wellcome Medals in the History of Medicine: Gold Medal—Robert Edward Burns; Silver Medal—Charles Simpson. Cunningham Memorial Medal in Anatomy: Henry James Parish. Whiteside Bruce Bursary: Duncan Ferguson Yuille.

The following candidates have been approved at the examinations indicated:

FIRST M.B. (Physics).—J. J. R. Binnie, H. Dittmar, G. R. Falcon, M. Fung Kee Fung, E. G. R. Grant, A. C. Lornie, J. L. Timothy, Vera C. Veitch. (Chemistry).—Jessie R. Bruce, Elizabeth K. Critchley, H. Dittmar, Millicent Fox, R. L. Galloway, Marjorie H. King, Catherine A. J. Mitchell, D. Rankin, Janet C. Rugg, Apolina A. Wilson. (Zoology).—Elizabeth J. Alexander, S. M. Alexander, C. S. Appleyard, A. Armit, C. W. Badger, R. L. Baikie, W. L. Balfour, Jean F. Bartholomew, F. D. M. Beaton, H. Berelowitz, A. E. Blackley, Alice Bloomfield, L. R. Bomford, J. M. Bonnar, W. H. S. Boyd, Jessie R. Bruce, E. M. Byres, D. A. Cadman, Margaret S. Caskie, C. G. Catto, D. R. Clarke, C. H. Cook, Elizabeth E. Critchley, Dorothy G. Davidson, N. M. Davison, Margaret L. Dobbie, H. R. Dodson, N. M. Dott, Evelyn W. A. Dunderdale, H. J. C. Durward, R. O. Eaton, B. A. G. A. Edelston, E. L. Ewan, C. R. Falcon, J. M. Falconer, O. Fitzpatrick, M. V. Foley, B. Friedman, J. S. Fulton, D. M. Galloway, Dora W. Gerrard, G. M. Gibbon, M. Goldberg, R. T. Grace, Alice M. Graham, E. G. R. Grant, A. W. P. Haine, I. S. Hall, Marjorie Harris, J. F. Harte, H. P. D. Helm, R. Howarth, R. A. S. Hoyte, W. B. E. Hughes, W. Isbister, D. T. Jack, R. Jackson, J. Katariya, J. O. Kelly, G. S. Kerr, Marjorie H. King, L. J. Y. Kirkbride, S. Levey, D. R. Lewis, A. C. Lornie, J. A. L. Loudon, W. Love, Johan Lovins, D. T. McDonald, Margaret M. McDowall, W. R. K. MacGillivray, Agnes R. Macgregor, J. McIntyre, Jean R. Maclean, L. A. E. Malik, Mabel S. Martin, Margaret Martin, A. Mires, Catherine A. J. Mitchell, Christine G. Mitcheson, Emily M. Mure, A. R. Murray, Georgina B. Nichol, H. Nichol, D. Nicol, I. A. M. Paton, E. G. H. Payne, Roberta T. Rankin, L. Ratnayake, R. E. B. Rees, Ruth J. D. Ritchie, G. V. S. Rodriguez, Hera Ross, Margaret G. Ross, Janet C. Rugg, B. A. Sybil Russell, Veronica G. Salvesen, Muriel Sellers, Ikhbal A. Shab, Ruth L. G. Shannon, A. J. Sheddon, Barbara Simpson, Alice B. S. Smith, Dorothy M. Smith, S. W. I. Smith, Dorothy M. Somerville, Helen C. Spencer, G. D. Steven, A. Stuart, J. L. Timothy, D. L. M. Tod, A. Vakill, Vera C. Veitch, J. H. Verwey, Grace Walker, J. Walker, N. J. Watson, W. N. B. Watson, A. G. N. Weatherhead, G. H. Weeber, Edith G. Wilkes, J. A. Williams, I. G. Williams, Apolina A. Wilson, J. H. Wright, R. W. G. Yool, J. M. Young. (Botany).—Elizabeth J. Alexander, S. M. Alexander, H. P. Anderson, C. S. Appleyard, A. Armit, C. W. Badger, R. L. Baikie, W. L. Balfour, Jean F. Bartholomew, H. Berelowitz, L. R. Bergson, A. E. Blackley, J. M. Blair, Alice Bloomfield, L. R. Bomford, J. M. Bonnar, W. H. S. Boyd, J. C. R. Buchanan, E. H. Burgh, E. M. Byres, D. A. Cadman, Margaret S. Caskie, C. G. Catto, D. R. Clarke, L. I. Cohen, C. H. Cook, Elizabeth E. Critchley, Dorothy G. Davidson, A. W. Davison, H. J. A. Dingwall, Margaret L. Dobbie, H. R. Dodson, N. M. Dott, H. J. C. Durward, B. A. G. A. Edelston, Joann M. Falconer, O. Fitzpatrick, B. Friedman, J. S. Fulton, D. M. Galloway, Dora W. Gerrard, G. M. Gibbon, Morris Goldberg, Myer Goldberg, R. T. Grace, Alice M. Graham, A. W. P. Haine, I. S. Hall, Marjorie Harris, H. P. D. Helm, R. Howarth, R. A. S. Hoyte, W. Isbister, D. T. Jack, R. Jackson, W. T. Johns, J. O. Kelly, G. S. Kerr, L. J. Y. Kirkbride, J. R. Larson, S. Levey, A. C. Lornie, J. A. L. Loudon, W. Love, Johan Lovins, M. M. Lyon, D. T. McDonald, Lilian M. Macdonald, Margaret M. McDowall, Agnes R. Macgregor, Mabel S. Martin, A. Mires, A. G. Mires, Catherine A. J. Mitchell, Christine G. Mitcheson, Emily M. Mure, A. R. Murray, Georgina B. Nichol, H. Nichol, D. Nicol, I. A. M. Paton, E. G. H. Payne, L. Ratnayake, R. E. B. Rees, Ruth J. D. Ritchie, G. V. S. Rodriguez, E. T. Rogers, Hera Ross, Margaret G. Ross, Janet C. Rugg, B. A. Sybil Russell, Muriel Sellers, A. J. Sheddon, Barbara Simpson, Alice B. S. Smith, Dorothy M. Smith, Dorothy M. Somerville, Helen C. Spencer, G. D. Steven, A. Stuart, J. L. Timothy, J. C. O. Turfery, A. J. Vakill, J. H. Verwey, J. Walker, N. J. Watson, W. N. B. Watson, A. G. N. Weatherhead, Edith G. Wilkes, I. G. Williams, J. A. Williams, J. H. Wright, R. W. Graham Yool, J. M. Young.

SECOND M.B. (Physiology).—Catherine J. Anderson, I. C. C. Barclay, I. A. Beckles, C. Blake, S. Boocooosingh, R. G. Broadwood, R. M. Burnie, D. H. Cameron, E. Chonglop, J. M. Cole, J. A. L. Cook, J. H. Crawford, J. Davidson, Isobel M. Don, Jean D. Don, W. Y. Eccott, D. Fergusson, G. S. Freeman, Emily W. Fyfe, M. J. Gibson, R. N. Gibson, W. A. Gray, S. D. Gupta, A. T. Harris, C. Edith L. Hole, A. J. L. Innes, N. W. Johnston, D. C. Lamont, L. A. Lawrence, J. K. C. Liddell, H. H. Lim, M. Lipschitz, D. I. O. Macaulay, Anne L. MacDonald, R. B. MacGregor, A. S. M'Kern, J. M'Nabb (M.A., B.Sc.), W. M. MacPhail, A. MacPherson,

B. C. B. Macrae, Elizabeth M'Vicker, Mary P. Mair, M. Melvin, P. S. Menon, J. C. B. Mitchell, J. S. Moroka, D. J. T. Oswald, H. J. Parish, H. S. Percival, H. B. Pierce, J. Rauch, J. Reid, J. Riesnik, Annie C. Roberts, J. Robinson, W. B. Ross, M. Sash, C. E. Scott, J. K. Sen, M. Z. Sheriff, C. Simpson, F. W. Simson, D. W. Sinclair, M. R. Soni, Marguerite R. Stirling, Eugene B. Thunissen, A. A. Thomson, Ying K. To, P. F. V. Walsh, C. Woode, W. L. Zeeman. (*Anatomy*).—J. G. Allan, Catherine J. Anderson, E. Arosemena, G. S. Bainbridge, I. C. C. Barclay, I. A. Beckles, C. Blake, R. F. Boltman, S. Boodoosingh, D. Brink, G. Buchanan, R. M. Burnie, E. Chonglop, A. C. Y. Chow, D. R. Cilliers, J. H. Crawford, J. Davidson, Isobel M. Don, Jean D. Don, P. B. Eaton, D. Fergusson, G. S. Freeman, A. S. Garewal, M. J. Gibson, J. T. Godfrey, E. F. Gordon, S. D. Gupta, N. W. Johnston, J. H. Kerr, J. Laltoo, D. C. Lamont, J. L. Lamont, H. H. Lim, R. K. S. Lim, M. Lipschitz, T. K. Lwin, D. I. O. Macaulay, J. C. M'Cartney, A. G. MacGillivray, R. B. MacGregor, W. D. Mackinnon, J. M'Nabb, W. M. MacPhail, A. MacPherson, R. C. B. Macrae, Elizabeth M'Vicker, Mary P. Mair, M. Melvin, J. S. Moroka, I. S. Nalwa, S. D. Nurse, D. J. T. Oswald, H. J. Parish, H. S. Percival, H. B. Pierce, J. Rauch, C. B. Reekie, Dorothy A. Robertson, Mary J. D. Rutherford, M. Sash, C. Simpson, F. W. Simson, D. W. Sinclair, Marguerite R. Stirling, A. A. Thomson, J. C. Truter, Maung S. Tun, D. T. Watt, U. G. Williams.

THIRD M.B. (*Materia Medica*).—J. Aitken, L. G. Allan, J. Alison, Dorothea I. Baird, J. S. Bow, R. M. Bowman, W. D. Brunton, J. C. Burns, Ba Than Chain, D. Chanis, E. Chapelle, P. C. Datta, B. B. Gaddil, A. B. Grant, J. A. C. Guy, Martha L. Hamilton, N. K. Henderson, A. Joe, V. St. C. Lucas, D. M'Eachran, Margaret M. M'Garritty, Annie M. Mackay, N. Macleod, R. Mailer, A. R. Matheson, R. D. Osler, A. van der Poel, A. Robertson, Susan A. Robertson, A. O. Ross, J. Schneider, J. M. H. Smellie, G. L. M. Smith, Janet Smith, R. B. Smith, A. Strachan, Johan H. Sykens, D. R. Thapar, J. M. Tyrrell, A. F. de Waal, R. Walker, W. A. Weatherhead, J. Wolfson, A. T. Woodward.

UNIVERSITY OF ABERDEEN.

THE following degrees have been conferred:

M.D.—A. M. Brown, A. F. A. Fairweather.
M.B., Ch.B.—R. S. Cumming, C. Alison, A. M. Baillie, A. H. Brown, F. W. C. Brown, G. G. Bruce, R. F. Copland, W. D. Cruickshank, J. K. Dastoor, G. Dewar, H. G. Donald, I. G. M. Firth, Elizabeth Gray, J. W. M'Keggie, A. L. C. Mackenzie, A. S. Mackie, J. Melvin, J. G. S. Mennie, T. Menzies, P. G. Milne, R. B. Milne, J. M. Mitchell, P. W. Noble, J. T. Scroggie, J. A. Sellar, J. Smith, Elizabeth Stephen, Esther Stephen, H. F. Stephen, J. R. Tibbles, W. C. D. Wilson.

The John Murray Medal and Scholarship, awarded to the most distinguished graduate (M.B.) of 1915, has been bestowed upon R. S. Cumming.

The following candidates have been approved at the examinations indicated:

First Professional.—Annie Anderson, R. M. Anderson, E. G. W. Bisset, N. C. Bodenstein, Enid Calder, Margaret M. Chapman, H. B. Cook, H. C. Cunningham, J. A. Dawson, Marjory J. Dufton, Dorothy M. J. Emslie, W. A. Falconer, V. L. Ferguson, S. C. O. Gordon, F. G. Grant, J. Grant, G. G. W. Hay, J. B. Jessiman, W. Lawie, Mary V. Littlejohn, N. M. Maclellan, R. M'Robert, J. I. Milne, P. H. Molliere, A. G. Morison, Margaret Porteous, G. A. Shepherd, J. G. Smith, S. R. Spark, Sophia M. G. Stuart, H. Third, A. Thomson, Louise Tomory, T. W. Turner, V. M. M. Watson, B. Yule.

Second Professional.—A. M. Dugan, G. S. Escoffery, A. C. Fowler, M. Y. Garden, R. D. Lockhart, O. M. Mannatazhat, A. C. Pateron, C. Reid, Margaret A. Reid, A. Ritchie, Agnes L. Semple, Annie Simpson, F. Wilson, W. L. Yell.

The following have been approved in the subjects indicated:

Systematic Chemistry: W. J. Adam, H. D. Low. *Physics only*: C. A. Allan, Lyla C. Forbes. *Botany only*: C. A. Aymer, G. M. Gray, C. Joiner, L. W. J. Middleton, D. M. Thomson. *Zoology*: S. M. W. Bodie, Maud G. Mackintosh. *Practical Chemistry*: G. Brown, A. R. Wood. *Botany and Physics*: Isobel C. Brown, W. S. Cochran, A. V. R. Don, D. R. Dugan, J. Findlay, M. M. Gunn, K. A. Hay, G. R. Morgan, F. R. Mutch, C. L. Noble, E. N. D. Repper, D. G. M. Watt, Hiap. T. Wee. *Physics and Systematic Chemistry*: J. Hutcheon. *Zoology and Physics*: F. Maclean. *Botany and Practical Chemistry*: Bethia M. Newlands, Ethel V. G. Smith.

THIRD PROFESSIONAL.—*New Regulations*: G. S. Davidson, J. S. B. Forbes, W. C. Mackinnon, A. H. Mitchell, A. K. Robb, T. O. Robson. *Old Regulations*: C. C. Hargreaves, B. S. Kanga, G. S. Lawrence, J. W. M'Keggie, C. Tighe, W. D. Whamond.

* Commendation for thesis.

† Second-class honours.

‡ Passed fourth professional examination with distinction.

§ Passed with distinction.

UNIVERSITY OF ST. ANDREWS.

Graduation Ceremony.

A GRADUATION ceremony took place at St. Andrews University on July 8th. Owing to so many students having enlisted, there were only a few men students in the back benches, and the proceedings were unusually quiet. The following is a list of graduates:

M.B., Ch.B.—Margaret A. Alexander, Agnes W. Andrew, M. L. Bery, A. C. Cassells, D. Dempster, Margaret Fairlie, G. M. Grant, C. B. Macdonald, W. J. Macdonald, M. C. Madhok, D. H. Murray.

Lecturer in Bacteriology.

Dr. W. J. Tulloch has been appointed Lecturer in Bacteriology and Assistant to the Professor of Pathology in the Medical School, Dundee, for the next academical year.

UNIVERSITY OF MANCHESTER.

THE following candidates have been approved at the examination indicated:

D.P.H.—H. F. Hutchinson, E. M. de Jong, O. M. de Jong.

UNIVERSITY OF LONDON.

KING'S COLLEGE HOSPITAL MEDICAL SCHOOL.

Burney Yeo Scholarships.

THE first election of scholars under the Burney Yeo bequest has been made as follows: Mr. Meredith Blake Robson Swann, B.A., of Gonville and Caius College, Cambridge; Mr. Edward Holliott Creed, B.A., of Trinity College, Oxford.

UNIVERSITY OF BRISTOL.

THE following candidate has been approved at the examination indicated:

SECOND M.B., Ch.B.—D. G. Cosham.

UNIVERSITY OF DUBLIN.

TRINITY COLLEGE SCHOOL OF PHYSIC.

THE following candidates have been approved at the examinations indicated:

PRELIMINARY SCIENTIFIC (*Physics*).—E. W. Harris, M. F. Meade, C. de L. Shortt, Jessie Gilbert, V. G. Walker, S. J. Laverty, J. D. Watson. *Chemistry*.—T. R. Warren, C. E. McQuade, J. C. Gillespie, F. W. Robertson, Gertrude Rice, T. Madill, J. S. Quinn, R. W. Shaw, J. T. Mynhardt, V. S. Allardye, H. P. Stack, J. H. Coolican, G. F. Keatinge, J. F. Sheppard, J. D. Watson, P. J. Duggan, N. Long, A. R. Aidin, R. D. Murphy, C. W. Parr, V. G. Walker, A. H. Thompson, J. H. Crosbie, Jessie Gilbert, C. J. Quinlan, B. F. Haythornthwaite, H. Birney, R. Counihan, R. W. Power.

INTERMEDIATE MEDICAL, PART I (*Anatomy and Physiology*).—H. L. Parker, V. M. Syngé, J. W. Scharff, E. F. Wilson, F. Gill, W. Sweetnam, L. Albertyn, J. C. Fouché, E. W. Deale, J. A. Acheson, R. M. Devereux, P. C. Parr, E. S. Mack, W. A. Shannon, Margaret Wolfe, L. T. Nugent, P. Casey, C. G. Ambrose, E. R. Tivy, P. J. Swanepool, E. E. Rollins, Mary C. Sheppard, Ethel M. Luce.

PART II (*Applied Anatomy and Applied Physiology*).—S. A. Clark, A. I. Steyn, T. E. Hill, W. F. Wicht, H. J. Wright, H. Banks, D. S. Prentice, F. W. Sullivan, R. W. Pritchard, W. Garde-Brown, G. Marshall, Millicent Hamilton-Johnston, C. Weir, H. H. Molloy.

FINAL MEDICAL, PART I (*Materia Medica, Pathology, Medical Jurisprudence and Hygiene*).—A. R. Barlas, W. T. Lane, G. W. Shaw, T. P. Chapman, C. R. B. Ramsay, H. J. Rice, J. Blumberg, C. L. McDonogh, Marie A. Hadden, E. O. Marks, A. G. Wright, F. J. Smith, Eileen G. Gwynn, F. A. McHugh (Medical Jurisprudence and Hygiene and Materia Medica); F. W. O'Connor, H. S. Camplin (Pathology completing examination); A. H. Price (Materia Medica and Pathology completing examination); E. Parker, T. W. Sweetnam (Medical Jurisprudence and Hygiene completing examination).

PART II (*Surgery, B.Ch.*).—C. C. A. bertyn, I. W. Corkey, E. D. Hayes, S. W. Fisher, G. Joughin, Evelyn Ross, N. McC. Boyce, M. Ryan, J. V. Cope, C. F. Brady, D. C. Pim, E. W. Craig, R. W. Acheson, W. J. Dowling, F. Shaw, R. W. Shegog, A. J. Horne, C. D. Pile, G. O. Alley, E. Boyers, M. B. King, A. H. Watson. (*Medicine, M.B.*).—E. J. McSwiney, H. McW. Daniel, G. Joughin, F. R. Shaw, Evelyn Ross, E. D. T. Hayes, G. Bateman, C. D. Pile, E. W. Craig, W. J. Dowling, A. W. Todd, D. C. Pim, A. H. Watson, R. W. Shegog, E. G. Fische, G. O. Alley, A. J. Horne, C. McL. West, G. Stanton, C. F. Brady, R. W. Acheson, S. W. Fisher. (*Midwifery, B.A.O.*).—C. D. Pile, Esther V. Adderley, C. H. Comerford, E. Lipman, A. H. Watson, T. W. Sweetnam, M. McG. Russell, C. G. Sherowitz, R. H. Graham.

* High marks.

CONJOINT BOARD IN IRELAND.

THE following candidates have been approved at the examination indicated:

FINAL COLLEGES.—A. P. Adams, S. Barron, C. H. Brennan, S. Brown, T. A. Buchanan, S. J. M. Cairns, G. A. Campbell, T. M. Cronin, B. J. Cusack, W. E. R. Dimond, J. C. Fergusson, C. E. H. Gater, E. N. H. Gray, J. J. Gray, F. J. M'Manus, W. G. D. M'Call, P. R. H. Mollan, M. Moran, J. A. Musgrave, C. J. O'Carroll, P. J. D. O'Malley, L. M. Rowlette, R. A. Ryan, T. H. Sarsfield, J. A. Watson, P. I. Wigoder, H. J. Villiers.

The Services.

TERRITORIAL FORCE.

EXCHANGE DESIRED.

LIEUTENANT ARTHUR E. TAIT (38, Beaconsfield Road, St. Albans), 12nd East Anglian Field Ambulance (T.F.), desires to be transferred to home service work in or near London, and could undertake either hospital work or the training of a field ambulance. The unit is ordered to the Dardanelles. The pay is 14s. a day, together with 3s. field allowance, and 1s. 9d. a day in lieu of rations.

THE tenth annual report of the Convalescent Homes Association states that the association now consists of three hospitals and twenty convalescent homes. During the year 1914 three more homes—namely, the Children's Convalescent Home, Beaconsfield; the Convalescent Home for Children, Hawkesbury, Tumbridge Wells; and the Suffolk Convalescent Home, Felixstowe—joined the association, while the Beau Site Home, Hastings, resigned its membership. A list of convalescent homes and sanatoriums receiving London patients, which was prepared by the late Mr. Hayes and issued under the auspices of the association, gives particulars of some 200 institutions, and also contains a general index with nearly 350 references.

result of an accident due to the darkening of the front at Brighton. Dr. Hodson, who was 63 years of age, received his professional education at University College, London, and became M.R.C.S.Eng. in 1875 and L.R.C.P. and L.M. Edin. in 1876. After qualifying he held the offices of senior house-surgeon at the Royal Free Hospital in London and clinical assistant at the Hospital for Women, Soho Square, and at the Central London Ear and Throat Hospital. He had been in practice for many years at Brighton and was surgeon to the Hove Hospital and Dispensary and to the Brighton and Hove Surgical Homes. He was surgeon to the 1st Battalion Sussex Volunteer Training Corps (Brighton). He was a member of the British Medical Association, and took an active part in its work. Dr. Hodson leaves a widow, a daughter, and three sons all of whom have been engaged in the fighting in British East Africa since the beginning of the war.

DR. JAMES McARTHUR of London, Ontario, died of heart failure on May 23rd, in his sixty-first year. He was born at Ailsa Craig, near London (Ontario), and after receiving his early education entered Queen's University, Kingston, where he obtained the degrees of B.A. and M.D. He had practised in London for the past thirty-five years with a rare devotion to duty. Dr. McArthur was one of the founders of the London Medical Association, and for fifteen years a member of the Ontario Medical Council. Last year he was elected President of the Council, and it was due largely to his efforts that reciprocal relations were established between the province of Ontario and Great Britain. He leaves two sons and three daughters.

COLONEL JOHN GASSON HARWOOD, Army Medical Staff (ret.), died at Southsea on July 8th, aged 58. He was born on August 27th, 1856, educated at Bart's, and took the diplomas of M.R.C.S. and L.S.A. in 1879, as well as the F.R.C.S. Edin. in 1888. He entered the army as surgeon on March 6th, 1880, became surgeon-major on March 6th, 1892, lieutenant-colonel on March 6th, 1900, and colonel on June 29th, 1906, retiring on March 15th, 1909. The *Army List* assigns him no war service.

LIEUTENANT-COLONEL THOMAS CAMPBELL McCULLOCH, R.A.M.C., died suddenly of heart disease at the Alexandra Hospital, Cosham, Hants, on June 25th. He was born on May 4th, 1861, educated at Glasgow, where he took the M.B. and C.M. with commendation in 1884, and entered the army as surgeon on February 5th, 1887, becoming major on February 5th, 1899, and lieutenant-colonel on July 29th, 1911. He served in the third China war in 1900, when he was mentioned in dispatches in the *London Gazette* of September 13th, 1901, and received the medal. From May 1st, 1902, to April 25th, 1906, he was Deputy Assistant Director-General of the Army Medical Service, and in 1906 he served as a member of the committee for the investigation of Mediterranean fever.

CHARLES EDWARD WOODRUFF, lieutenant-colonel in the Medical Corps of the United States Army, who died on June 13th, was born in Philadelphia in 1860. After graduating in arts in the University of Pennsylvania, he spent three years at the Naval Academy, Annapolis. Abandoning his intention of becoming a naval officer, however, he turned to the study of medicine and graduated M.D. at Jefferson Medical College in 1886. After serving as an assistant surgeon in the United States Navy for a year, he was transferred to the Army Medical Corps, from which he was compelled to retire owing to ill health in 1913. Two periods of service in the Philippines convinced him that the tropics were unsuitable for white men. His views on this subject, which were strongly held, were set forth in books entitled respectively the *Effect of Tropical Light on White Men*, *Expansion of Races*, and *Medical Ethnology*. Even those who do not agree with his conclusions must admit the wealth of practical experience on which they are founded and the ingenious argumentation by which they are supported. After his retirement from the army Colonel Woodruff travelled extensively and embodied his observations in a number of pamphlets. At the time of his death he was associate editor of *American Medicine*.

WE regret to announce the death of Professor KOEBERLÉ, the distinguished surgeon, of Strassburg. Born on January 4th, 1828, he was in his 88th year. He had a great influence on the progress of surgery in France. He was in a special manner the pioneer of ovariectomy in that country, and his early efforts to gain a recognized footing for the operation were encouraged by the award of a prize of £80 by the Academy of Medicine. In 1868 he had already performed the operation in 69 cases with a successful result in two-thirds of the number; at the end of the following year he was able to report to the Paris Société de Chirurgie that he had done 123 ovariectomies. In 1870 he published a treatise, entitled *Manuel opératoire de l'ovariotomie*. His name was also well known in connexion with hysterectomy, the *morcellement* of tumours, and other surgical procedures. There was a great controversy as to priority between him and Péan in regard to the invention and use of haemostatic forceps. Koerberlé remained at Strassburg after 1870, but he held himself aloof from the Germans, and refused the honours which they pressed upon him.

Medical News.

MR. EDMUND OWEN, Surgeon-in-Chief to the St. John Ambulance Association, and Consulting Surgeon to St. Mary's Hospital, was, we regret to learn, taken suddenly ill on July 13th, and is unable to attend to the business of the Joint Committee of the British Red Cross Society and the St. John Ambulance Association, in which he has taken so large a part.

DR. FREDERICK WILLIAM PRICE has been elected a Fellow of the Royal Society of Edinburgh.

At a meeting of the Royal Society of Edinburgh, held on July 1st, the Makdougall-Brisbane prize was awarded to Professor C. R. Marshall for his studies "on the pharmacological action of tetra-alkyl ammonium compounds."

MRS. SCHARLIEB, M.D., M.S., will give an address to pupils and parents at the distribution of scholarships and exhibitions won by pupils of the Manchester High School for Girls at the Free Trade Hall, Manchester, on Thursday next at 3 p.m.

THE Secretary of the Chelsea Hospital for Women has received a further sum of £1,000 from the executors of the T. S. Whitaker Estate towards its rebuilding fund. The hospital is giving special facilities for the admission of the wives and near relatives of soldiers at the front and also to Belgian refugees.

DR. J. W. AND MRS. MULLIGAN recently left Abersychan, Monmouthshire, where they have lived for nearly half a century, to take up their abode in Ireland. Dr. Mulligan has been a Justice of the Peace, an alderman of the county council, and a member of Abersychan Urban District Council for many years, whilst Mrs. Mulligan was an active member of the Pontypool Board of Guardians for twelve years. In recognition of their public services they were presented with a handsome set of candelabra, silver candlesticks, salvers, hot-water jug, flower vases, and an illuminated address.

DR. SHIPLEY, Master of Christ's College, whose papers on insects and war in the BRITISH MEDICAL JOURNAL have been read with so much interest, has prepared for the National Health Society a leaflet on mosquitos, in which he describes the places in which they breed, the way in which the larvae and pupae can be destroyed, giving preference to crude mineral oil, 10 c.cm. to the square metre (a tablespoonful to the square yard), or, failing that, heavy mineral oil. He discusses, also, methods of destroying the adult mosquito. He mentions experiments made by himself and Professor Nuttall, in which they found that the mosquitos avoided a box lined with khaki cloth, and collected in that lined with dark navy blue. After stating that many essential oils, cedar wood, lemon grass, eucalyptus, or citronella, applied to the neck, wrists, and ankles are said to keep mosquitos away, he adds that the wearing of two pair of socks often protects the ankles, as the proboscis of the mosquito is too short to penetrate through the double thickness. We may add that probably it is not so much the thickness, for they will sting through thick woollen stockings, as the doubling of the close material, which makes it difficult for the insect to pass its proboscis through two thicknesses.