It had been known that the alpha particle, the nucleus of a helium atom, was emitted by radioactive substances. Professor C. F. G. Bares, of the University of Adelaide, and A. G. H. Bragg, of the University of Sydney, had independently discovered the existence of the alpha particle. The alpha particle was a positively charged nucleus of an atom, consisting of two protons and two neutrons. It was believed that the alpha particle was the smallest possible unit of a nucleus, and that it could be changed into any other kind of nucleus by the absorption or emission of other particles.

The alpha particle was emitted by radioactive substances, such as radium and thorium, and could be detected by its effect on metal foils and other materials. It was also possible to detect the alpha particle by its effect on photographic plates.

The alpha particle was used in the study of atomic structure, and was particularly useful in the study of the nuclei of atoms.

The alpha particle was also used in the study of the properties of radioactive substances, and was particularly useful in the study of the decay of radioactive substances.

In 1913, Rutherford and Chadwick discovered the neutron, which was a neutral particle, and which was used in the study of atomic structure.

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## The University of Adelaide

### Pass Lists

**Elementary Biology (56),** Division I (in order of merit)—Hibbs, Edith; Ulrich, Delia; Frank, Henry; Goodwin, Cyril; Adey, Stanley; ---

Division II (in alphabetical order)—Hibbs, Edith; Ulrich, Delia; Frank, Henry; Goodwin, Cyril; Adey, Stanley; ---

**Division III (in alphabetical order)—** Berry, Patricia; McIlwraith, Eric; Francis, David; Holmes, Jocelyn; Milne, Eliza; ----

**Phy siology (68),** First Year—Division II—Rochester, Robert; Laxton, Douglas; ---

Second Year—Division II—Rochester, Robert; Laxton, Douglas; ---

Division III (in alphabetical order)—Mines, Keith; ---

Pure Mathematics (50), Division I (in order of merit)—Richards, Cecil; Albert, Samuel; Gilbert, Graham; ---

Division II (in order of merit)—Godden, Edward; Lawton, William; ---

Division III (in alphabetical order)—Abbott, Geoffrey; Joseph; Tock, Harry; ---

**Applied Mathematics (53),** Division I (in order of merit)—Godden, Edward; Lawton, William; ---

Division II (in alphabetical order)—Abbott, Geoffrey; Joseph; Tock, Harry; ---

**Applied Mechanics (50),** Division I—Hutcherson, George; Showell, David; ---

Division II (in alphabetical order)—Denning, Charles; ---

**Railway Engineering (30),** Division I (in order of merit)—Goodman, William; ---

Division II (in alphabetical order)— ---

**Electrical Engineering (88),** Division I (in order of merit)— ---

Division II (in alphabetical order)— ---

**Geology, Part I (58 B. C. and D.),** Division I—Penny, John; ---

Division II (in alphabetical order)— ---

**Mineralogy (18),** Division I (in order of merit)— ---

Division II (in alphabetical order)— ---

**Geodesy, Surveying, and Topographical Engineering (31 B.),** Division I— ---

Division II (in alphabetical order)— ---

** Statistics, and Geography (7 B.),** Division I— ---

Division II (in alphabetical order)— ---

**Miscellaneous Exercises, Physics, Chemistry and Biology (11),** ---

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Register 26 Nov 1915
Mr. A. W. Morey Awarded Military Cross.

Mr. A. W. Morey, of the 1Sth Battalion of the Royal Scots (Lothian Regiment), was awarded the Military Cross for conspicuous service in South Africa. He was born in Auckland, New Zealand, and was educated in Auckland. He entered the University of Auckland in 1908, and was awarded the Senior Scholarship in 1910. He was also a member of the University Cricket and Athletics teams.

Mr. Morey was a member of the Auckland Rugby Football Club, and was captain of the team in 1910 and 1911. He was also a member of the Auckland Rowing Club, and was captain of the University crew in 1910 and 1911.

In 1912, he was awarded the Senior Scholarship in the University of Auckland, and was also a member of the University Cricket and Athletics teams.

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Second Year.

Division I.—None.
Division II.—Poole, Gilbert; Graham.
Division III. (in alphabetical order).—Abbott, Geoffrey; Joseph, Jacob; John Gilbert; Koebene, Christopher; Stephen; Wigg, Ronald Melrose.

PHYSICS II. (89).

Third Year.—None passed.

ELEMENTARY (COMPULSORY) BOTANY (62).
Division I. (in order of merit).—Dealy, Frank Henry; Kessel, Stephen Lackey; Strempel, Herbert Walker.
Division II. (in order of merit).—Appleby, Harold Henry; Hawken, Doris Marguerite.
Division III. (in alphabetical order).—Crompton, Launcelot; Jauncey, Keith; Stone, Theodore Norman; Tiver, Charles Price.

BOTANY (65).
Final for B.Sc. Degree.
Division II.—Kendry, Harriet; Alison.
FOREST BOTANY (45c).
Division III.—Stoate, Theodore Norman.

COMPULSORY CHEMISTRY (45). B.Sc. Course.
Division I. (in order of merit).—Dealy, Frank Henry; Symonds, George; Burnett; Houn, Clark; Clarence Leslie; Hoopmann, Friedrich Wilhelm.
Division III. (in alphabetical order).—Crompton, Launcelot; Gooden, Edgar Lorenzo; Hase, Ernst Alfred Wilhelm; Hayward, John Hartley; Holmes, Jessie Eileen; Hubbe, Edith Ulrica; B.A.; Jauncey, Keith; Potts, Frank Roland.

ORGANIC CHEMISTRY (51 and 63).
B.A., B.Sc., Non-Graduating and Dental.
Division I.—None.
Division II. (in order of merit).—Edwards, Hurst; Thomas Jack; Schedlich, Alfred Karl.
Division III. (in alphabetical order).—Berr, Philip Alan; Hoopmann, Friedrich Wilhelm.

ORGANIC CHEMISTRY, THEORETICAL (51).
Agricultural Course.
Division I.—None.
Division II.—Stephens, Cyril Forster.
Advertiser 24.11.15
Recommended for the Ruby Fletcher Prize.—Ian Butler and John Leslie Power (equal).

Logie (22).

Division I.—Power, John Leslie; Robinson, Samuel Foster.

Division II.—Heyne, Laura Olga Hedwig, B.A.; Anthony, Ernest; Bottero, Clara Alice; Ford, James Albert; George, Mildred Alice; Menz, Anna Magdalene Augusta; Muller, Gerda; Northey, James Douglas; Sharman, Florence Mary, B.A.; Tuck, Bernard Edward Charles; Wainwright, John William.

Ethics (23).

Division I.—None.

Division II.—Ford, James Albert; Laurie, Leonard Buxton; Throsby, Harry Clineord.

Division III.—Campbell, Robert; head, Zulcine May; Metz, Anna Magdalene Augusta; Thibrook, Percy Harold.

Philosophy (24).

Division I.—None.

Division II.—Ford, James Albert; Blair, Lephamia Theodosia, B.A.; Tuck, Bernard Edward Charles.

Division III.—Mander, Linden Alfred; Oldham, Wilfred, B.A.

Economics (I) (20).

Division I.—None.

Division II.—Mander, Linden Alfred; Oldham, Wilfred, B.A.

Division III.—Browne, Philip; Butterworth, Clarence Gerald Roy; Cresswell, James Edwin; Harvy, Mabel Phyllis, B.A.; Muller, Gerald; Nancarrow, Ewart Henry Beaumont; Nett, Herbert; Walter, B.A.; Noack, John Charles; Sharman, Florence Mary, B.A.

Examination for the Ordinary Degree of M.A.

Pass List.

Theory of Law and Legislation.

Division I.—Jackson, S. Elizabeth, M.A.

Education (25).

Division I.—Baldams, Marie Parthenia; Batey, Ida Maude; Collins, Mary Theresa; Graham, Barbara Dell; McKechnie, Elizabeth Lawson; McLeod, Easie Pearl; Murphy, Mary Kathlen; Rendall, Alan; Richards, Cecil Albert; Sanders, Isma; Wheaton, Margaret Rae; Williams, Caroline Margaret.

Division II.—Anderson, Marjorcy; Delan, Arthur Sutton; Good, Frances Helena; Johnson, Ivy Allalde; Knightley, Ernest William; Shoebright, Grace Leonard.

Division III.—Anderson, Isabella; Armitage, Bessie Eleanor Mildred; Coombs, Mary Minetta; Corry, Daniel James; Derton, Gladys Edith; Dickinson, Lucy Maude; Eastwood, Rita Gwendoline; Fraser, Rose Annie; Gooding, Flora May; Hall, Marion Susan; Henstridge, Ivy Muritl; Holman, Terence; Jones, Cecil; Lewis, Dorothy Gwyneth York; McKechnie, Janet McArthur; Nunn, Hanna Mary; Pentelow, Samuel Thomas; O'Meara, Helen Penelope; Simon, Diana; Thussenda Clair; Smith, Olivia Charlotte; Whitting, Clyde Taylor.

Degree of Bachelor of Laws.

Pass List.

(In order of merit.)


Second Class.—Ziesing, George Treutlen.

Third Class.—Burns, Leonard Edward.