

**Government Geologist
Honoured.**

As announced in The Register on Thursday, the degree of Doctor of Science of the University of Adelaide has been conferred on Mr. L. Keith Ward, Government Geologist and Director of Mines in South Australia, and pleasure has been expressed on all sides at the honour achieved, for there are few men in the Government service who enjoy the degree of popularity possessed by him.

Mr. Ward has been associated with the public service of South Australia since 1911, and he is a graduate B.A., B.E., of the Sydney University. A son of Dr. F. W. Ward, of Sydney Daily Telegraph fame, he is in his forty-seventh year, and his first years after his University career were spent with the Broken Hill Proprietary Limited, but from 1903-7, he was lecturer at the School of Mines, Kalgoorlie. He then accepted the position of Assistant Government Geologist and Inspector of Mines in Tasmania, where he remained until 1911. He then came to South Australia. He has been associated with several expeditions to the interior, and from the point of view of the profitable occupation of the interior, much value has been attached to what he has said about water for stock routes. He is the State secretary for the Australasian Society for the Advancement of Science, and has taken an active part in the work of that organization.

The Federal Government arranged for the temporary transfer of Mr. Ward to the Commonwealth service in 1923, and



DR. L. KEITH WARD.

again in 1925, to study the geology of Central Australia, with the special object of directing the work of searching for underground water. The report dealing with these investigations has been published separately by the Commonwealth, but the thesis on which the degree of Doctor of Science was granted deals with the geological history and structure of the central portion of the Australian continent, and the correlation of the rocks of that region with the rocks of the surrounding portions of Western Australia and South Australia.

Two Distinct Australian Periods.

One of the matters of most general interest dealt with in the thesis was the discussion of the evidences of glaciation in Central Australia during two distinct periods, one of which was probably coincident with that during which the permian-carboniferous coal measures of eastern Australia were deposited, and the other in cretaceous time, said Mr. Ward on Thursday. The earlier of these two glaciations had left traces in many parts of Australia, and further evidence of the cretaceous glaciation was being gathered as the investigation of the rocks of this great series proceeded. Quite recently it was announced by Dr. F. W. Whitehouse at the Perth meeting of the Australasian Association for the Advancement of Science that he had independently inferred a very cold climate, if not actual glacial conditions, from the study of the fauna preserved in these rocks and from the nature of the matrix in which the fossils were embedded.

Evidence of Glacial Periods.

These proofs of vicissitudes of climate had an interest for geologists throughout the world, and there was probably no country where there was such a wealth of material for study as in South Australia and the adjoining portions of the Northern Territory. They now had evidence of glacial periods at widely separated intervals of time, the remoteness of which was difficult to appreciate. The most ancient

Passed (in alphabetical order).—Bates, William George James; Harvey, Raymond Thomas; Lierich, Leonard Foster; Plunkett, Norman Ambrose.

SURVEYING II. (107).
Passed with Credit.—None.

Passed (in alphabetical order).—Galbraith, Cyril; Graham, George Finlay; Ide, Frank Boyle; Plunkett, Norman Ambrose; Tregeza, Howard Stanley.

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ELDER SCHOLARSHIP FOR SINGING

From KATE HELEN WESTON.—May I, in justice to Miss Charlotte Grivell, remove a possible false impression which may be gathered from a statement in The Register on Monday? In announcing Miss Ruth Winnifred Naylor as the winner of an Elder Scholarship at the Conservatorium, the statement is made that Miss Naylor was the winner of the community singing scholarship about two years ago, and that Dr. Whitaker, who conducted the examination, "preferred the performance of Miss Naylor to that of Miss Charlotte Grivell, who was also a candidate for the scholarship." Such a stated comparison is somewhat invidious, as many other well-known singers competed, namely, Miss Linda Wald, Miss Aileen Newlyn, Mr. Richard Watson, to name but a few. The scholarship was keenly contested, and all the above competitors were barely separated. Before finalizing, Dr. Whitaker asked the community singing authorities whether they wished the competition judged on actual performance or on the basis of a possible musical future; the latter being preferred, he awarded the scholarship to Miss Naylor on account of her natural, but untrained voice, and general musical education and intelligence. Miss Grivell's name was not singled out. At the time of the competition (October, 1923), I was organizing secretary to the community singing movement, and am therefore familiar with what transpired.

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GROUNDS FOR UNIVERSITY.

The old question of making the grounds of the Parkside Mental Hospital available to the Adelaide University was renewed on Wednesday by the Hon. Sir David Gordon, who moved in the Legislative Council that the promises of the Government in the matter should be honoured as soon as the asylum grounds were vacated. Sir David said that many years ago there had been a proposal that the whole of the University should be moved to a more commodious site on account of the likely congestion on North terrace. Since then, however, gifts to the institution had enabled the University to remain on its original site. The institution, however, was growing, and was extending towards the river. It was also becoming apparent that a residential college was needed, and although the present motion would not necessarily be binding upon the Government, it should serve to refresh its memory, and renew the whole matter, which was of great importance to education. The Chief Secretary (Hon. J. Jelley) will explain the Government's attitude when he resumes the debate today.

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It is announced in the examination results of the Adelaide University, elsewhere in this issue, that the degree of Doctor of Science has been achieved by Mr. L. K. Ward, Government Geologist and Director of Mines in South Australia since 1911. Dr. Ward is a graduate B.A., B.E. of the Sydney University, and his first years after his university career were spent with the Broken Hill Proprietary Company. From 1903-7 he was lecturer at the Kalgoorlie School of Mines, and then accepted the position of Assistant Government Geologist and Inspector of Mines in Tasmania, where he remained until 1911. Mr. Ward has been associated with several expeditions to the interior, the most noteworthy being those with His Excellency the Governor, and later Mr. Vilhjalmur Stefansson. He is the State secretary for the Australasian Association for the Advancement of Science, and has taken an active part in the work of that organization.

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A private dinner in honour of Professor Darnley Naylor, was given by the council of Governors of Scotch College at the Oriental Hotel on Wednesday evening. Professor McKellar Stewart occupied the chair. He was supported by the Right Rev. David Chapman (Moderator of the Presbyterian Assembly), the Rev. Dr. Davidson, Mr. J. G. Balfour, and Mr. N. M. G. Gratton (head master of the college). The Chairman announced that as a parting gift to Professor Naylor the council was considering the establishment of an annual prize to commemorate his ardent services in connection with the League of Nations Union. This prize would be awarded to college students.

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B.A.; Maclean, Godfrey Hubert; Menear, Ina Miles; Angelo John; Miller, Annie Rose Mitchell, Albert Leonard; Moss, Collin Lance Mounster, Valerie Luella; O'Malley, John Edwin; Plunkett, Norman Ambrose; Semmens Francis John; Snee, William Alan; Stuart, Noe Harry; Thomas, Albert John Hingston; Thorpe Claude William; Tibbrock, Jabez Percy Harold, B.A.; Venville, Charles Rupert Gordon; Webb, Rita Gwendoline; Westbrook, Eric Lawrence; Williams, George Esmon Keith; Wilsdon, Donald Herbert; Woodman, Stanley Kenneth; Wright, Norman Harvey.

GEOLOGY, PART II. (56).

Passed with Credit (in order of merit).—Walker, John Schomburgk.
Passed (in alphabetical order).—May, Leonard Seymour; Scott, Alfred Eric; Shearer, Harvey Albert.

ENGINEERING GEOLOGY (60).
Passed with Credit (in order of merit).—Kindler, Johannes Ernst; Rogers, Theodore Stansfield; Stephenson, Thomas Howard.

AGRICULTURAL AND FOREST GEOLOGY. (61).

Passed With Credit (in order of merit).—Pohlmann, William Frederick Claude; Bailey, Frederick Manson; Hudson, Lindsay Stuart; Trist, Alan Robert, equal.

Passed (in alphabetical order).—Crane, Alexander Herbert; Lawrence, Alfred Oscar; Maclean, Godfrey Hubert; Miles, Angelo John; Nunn, George Wallie Marshall; Owens, Arthur John; Thomas, Albert John Hingston; Venville, Charles Rupert; Gordon; Westbrook, Eric Lawrence.

BOTANY I. (62a).

Passed With Credit (in order of merit).—Burns, Mary Leonora, Ashton, Mabel Winifred, equal; Barwell, Mary Gilbert; Paterson, Alfred Harold.
Passed (in alphabetical order).—Adams, Arthur John Sorby; Angel, Laura Madeline; Burling, Rupert Hermann Maurice; Dorsch, Magdalene Hedwig; Mills, Dorothy Nell; Nunn, George Wallie Marshall; Russell, Mavis Edith; Shorney, Barbara Kate; Thomas, Albert John Hingston; Wannan, Ellen Sarah.
No award.

BOTANY II. (62b).

Passed With Credit.—None.

BOTANY III. (62c).

Passed With Credit.—None.
Passed.—Paltridge, Terence Brady.

ZOOLOGY I. (65).

Passed With Credit.—Johnston, Maudie.
Passed (in alphabetical order).—Bateman, Wilfrid; Fraser, Gwendoline Mary; Harris, Doris Sophia; Mann, Margaret Noble.

ZOOLOGY III. (66a).

Passed With Credit.—Deland, Effie Wyllie.
PHYSIOLOGY (68).
Passed With Credit.—None.

PHYSIOLOGY AND BIOCHEMISTRY (69a).

Passed With Credit.—None.
FOREST BOTANY (72c).
Passed With Credit.—None.

FOREST ENTOMOLOGY (72d).

Passed with Credit (in order of merit).—Bailey, Frederick Manson; Lawrence, Alfred Oscar; Miles, Angelo John (equal).

STRENGTH OF MATERIALS (74).

Passed with Credit (in order of merit).—Jacob, Charles Ernest Frederick; Meckan, Erwin Johannes; Mills, Eric Baxter; Alexander, William Colin Bridgland, Reginald James, and Glayde, Ernest James (equal).

METALLOGRAPHY (79).

Passed with Credit.—None.
Passed.—Abell, Leo Murtho.

ELECTRICAL ENGINEERING I. (85a).

Passed with Credit (in order of merit).—Woolnough, Geoffrey Lawrence; Dix, Alfred James; Riggs, Theodore Stansfield.

ELECTRICAL ENGINEERING II. (85).

Passed with Credit (in order of merit).—Blakett, Sydney Norman; Forder, Howard Hamlyn; Aitchison, Gordon John. Passed (in alphabetical order).—Chapman, Arthur Horsley; Whibley, Cyril George.

DESIGN OF STRUCTURES I. (89a).

Passed with Credit (in order of merit).—Campbell, Archibald Hector; Cowling, Gordon Aubrey, and Kindler, Johannes Ernst (equal).

DESIGN OF STRUCTURES II. (89).

Passed with Credit.—None.
Passed (in alphabetical order).—Davis, John Alexander; Galbraith, Cyril.

MINING Ia. (101).

Passed with Credit.—None.
Passed (in alphabetical order).—Abell, Leo Murtho.

MINING Ib. (103).

Passed with Credit.—Kindler, Johannes Ernst.
Passed (in alphabetical order).—Cowling, Gordon Aubrey; Dix, Alfred James.

CIVIL ENGINEERING I. (104).

Passed with Credit (in order of merit).—Kindler, Johannes Ernst; Boyce, Sidney Herbert. Passed (in alphabetical order).—Cowling, Gordon Aubrey; Glayde, Ernest James; Ide, Frank Boyle; McIntosh, Howie James; Rogers, Theodore Stansfield; Stephenson, Thomas Howard.

RAILWAY ENGINEERING (104a).
Passed with Credit.—Chapman, Arthur Horsley.
Passed (in alphabetical order).—Wright, Hugh Humphrey; Woolnough, Geoffrey Lawrence.

Passed.—Butler, William Henry.
PHYSICS (70).—THIRD YEAR, B.E. COURSE.
Passed with Credit.—None.
Passed (in alphabetical order).—Chapman, Arthur Horsley; Whibley, Cyril George; Wight, Hugh Humphrey; Young, Donald Scott.

CHEMISTRY, PART I. (45).

Passed With Credit (in order of merit).—Magor, Slifford James; Glastonbury, James Oliver Garnet; Trist, Alan Robert; Cannell, Cedric James; Hiffe, Michael Isaac Glover, and Sprigg, Charles Moss (equal); Durling, Rupert Herman Maurice, Owen, Hubert Bucknill, and Thomas, David John Saint (equal); Porter, Percival Keith; Ridley, Kenneth Lincoln (equal); Heine, Mervyn Lambert; Jensen, Charles Angusmann; Pohlmann, William Frederick Claude, and Neil, Clarence Herbert (equal); Blau, William Baker; Baker, Walter Ross, and Green, Richard Masden (equal); Finlayson, Frank Harvey, and Polson, Reginald Alexander (equal).

THEORETICAL CHEMISTRY.—PART II (46).

Passed with Credit (in order of merit).—Bosworth, Richard Charles Leslie; Rogers, Irene Blanche; Walkley, Allan.

ELEMENTARY PHYSICAL CHEMISTRY (46).

Passed with Credit (in order of merit).—Crane, Alexander Herbert; Angel, Mary Taylor, and Trist, Alan Robert (equal); Bailey, Frederick Manson; Deland, Effie Wyllie; Pohlmann, William Frederick Claude; and Thomas, Albert John Hingston (equal).

THEORETICAL ORGANIC CHEMISTRY, PART III. (47) (1925 SYLLABUS).

Passed with Credit.—McPherson, Alexander Owen.
Passed.—Paltridge, Terence Brady.

THEORETICAL ORGANIC CHEMISTRY, PART III. (47a).

Passed (in alphabetical order).—Gibson, Stephen Ernest Harvey; Terrill, Samuel Ernest.

INORGANIC, PHYSICAL, AND APPLIED CHEMISTRY, PART III. (47b).

Passed with Credit (in order of merit).—Walker, John Schomburgk; Jones, Gwynfred; and May, Leonard Seymour (equal); Gibson, Stephen Ernest Harvey.

PRACTICAL CHEMISTRY, PART III. (49) (1925 Syllabus).

Passed (in alphabetical order).—McPherson, Alexander Owen; Paltridge, Terence Brady.

PRACTICAL ORGANIC CHEMISTRY, PART III. (49a).

Passed with Credit.—Gibson, Stephen Ernest Harvey.

PRACTICAL INORGANIC AND PHYSICAL CHEMISTRY, PART III. (49b).

Passed with Credit (in order of merit).—Scott, Alfred Eric, and Walker, John Schomburgk (equal); Boyes, Harold Foster, and May Leonard Seymour (equal).

ELEMENTARY ORGANIC CHEMISTRY (51) AND (52).

Passed with Credit (in order of merit).—Hughes, Gordon Kingsley; Gallus, Hermann Peter Christian; Cox, Alwyn Birchmore; Walkley, Allan; Angel, Mary Taylor; May, Jack William; Sage, William, and Lawton, Edgar Vincent (equal).

ELEMENTARY ORGANIC CHEMISTRY (51) (THEORY).

Passed (in alphabetical order).—Bailey, Frederick Manson; Bennett, Thomas Southall; Chapman, Stanley Bertram; Crane, Alexander Herbert; Goldsack, Ronald William; Owens Arthur John; Pohlmann, William Frederick Claude; Rankin, Mervyn Alexander; Trist, Alan Robert.

ELEMENTARY ORGANIC CHEMISTRY (52) (PRACTICAL).

Passed with Credit.—None.
Passed.—Gibson, Stephen Ernest Harvey.

GEOLOGY, PART I. (55).

Passed with Credit (in order of merit).—Glastonbury, James Oliver Garnet, and Kindler, Johannes Ernst (equal); Woods, Nelly Hooper; Bachelors, Flossie Elizabeth Reine, B.A., and England, Harry Clement (equal); Hudson, Lindsay Stuart; Hughes, Gordon Kingsley; Lawrence, Alfred Oscar, and Tapp, Adrian Lynda (equal); Bridgland, Reginald James, Moyle, Sidney, M.A.; Nunn, George Wallie Marshall, and Pitner, Eric Norman (equal); Paterson, Alfred Harold.

THEORETICAL CHEMISTRY.—PART II (46).

Passed (in alphabetical order).—Adams, Arthur John Sorby; Nunn, George Wallie Marshall; Owens, Arthur John; Rankin, Mervyn Alexander; Trist, Alan Robert; Ure, Constance Douglas.

THEORETICAL ORGANIC CHEMISTRY, PART III. (47) (1925 SYLLABUS).

Passed (in alphabetical order).—Adams, Arthur John Sorby; Nunn, George Wallie Marshall; Owens, Arthur John; Rankin, Mervyn Alexander; Ure, Constance Douglas.

THEORETICAL ORGANIC CHEMISTRY, PART III. (47a).

Passed (in alphabetical order).—Adams, Arthur John Sorby; Nunn, George Wallie Marshall; Owens, Arthur John; Rankin, Mervyn Alexander; Ure, Constance Douglas.

THEORETICAL ORGANIC CHEMISTRY, PART III. (47b).

Passed (in alphabetical order).—Adams, Arthur John Sorby; Nunn, George Wallie Marshall; Owens, Arthur John; Rankin, Mervyn Alexander; Ure, Constance Douglas.

INORGANIC, PHYSICAL, AND APPLIED CHEMISTRY, PART III. (47b).

Passed with Credit (in order of merit).—Walker, John Schomburgk; Jones, Gwynfred; and May, Leonard Seymour (equal); Gibson, Stephen Ernest Harvey.

PRACTICAL CHEMISTRY, PART III. (49) (1925 Syllabus).

Passed (in alphabetical order).—McPherson, Alexander Owen; Paltridge, Terence Brady.

PRACTICAL ORGANIC CHEMISTRY, PART III. (49a).

Passed with Credit.—Gibson, Stephen Ernest Harvey.

Passed.—Paltridge, Terence Brady.