ADV. 29, 3.27 GRADUATES' ASSOCIATION.

THE ANNUAL MEETING. The seventh annual meeting of the halting advances of biology. Graduates' Association of the University of Adelaide was held at the University on Thursday evening. In the absence, (Mr. E. W. Holden), the chair was occupied by Mr. C. T. Madigan. The president's report and the treasurer's state within the past 30 years. But this ment were adopted. The chief event of the year in connection with the association's activities had been the adoption of a definite policy in regard to the students' union and the war memorial. Tenders had been called for the erection of the Lady Symon building, and a campaign for raising the funds required was Psychology. Biological science is to- Australia by the middle of October my in progress. There was every probability day where physical science was in the of the union becoming an established fact early part of last century-painfully before the next annual meeting. The plans, picking its steps among the bewilderprovided for a graduates' room, which would be the headquarters of the association. The membership of the association them slowly to order, and evolving had reached 350, including 60 life mem- out of them a few fundamental his house on Parliament Hill immersed in was gained by less indepent at the moment

Russell Booth.

Career of Mr. H. S. Elford

Mr. Harold S. Elford, B.E. (in metallurgy). Dip. A.S., F.S.A.S.M., has been appointed an assistant to the superintendent engaged in operations for the Electrolytic Hon, has propounded and worked out constant objectionable.

Zine Company on the west coast of Tas- in great detail a view of human his- "If this is correct," Professor David The report, said the lecturer, was very engaged in operations for the Electrolytic

He was educated at the local public school lege in Adelaide for four years and con- a marvellous wealth of learning and America. of Mines and Industries.

scholarship created by the principal min- organism. ing and metallurgical companies of Aus- Like a plant or an animal, a civilisamining engineers and metallurgists.

In 1925 Mr. Elford received the degree of Bachelor of Engineering in metallurgy, also the diploma of applied science from from countless details of analogy with the Adelaide University, and the same other civilisations that we of the year the diploma of fellowship in the De- Western civilisation stand in the early partment of Metallurgy of the South Aus- winter of our development. tralian School of Mines and Industries. On the completion of his studies he

secured a position in the research depart-12 months he was transferred to the Melbourne office of the company, and was employed as a technical assistant to the management, which position he held for

and Mrs. Thomas Elford, of Moonta

SATURDAY, JULY 30, 1927

AGE OF BIOLOGY

(By Prof. T. Brailsford Robertson)

The Victorian age may be termed the Age of Physics, because the great discoveries of the nineteenth century concerning the physical properties of matter found practical expression in the latter half of that century in the invention of machines which have transformed the material surroundings of our lives by enhancing the wealthproducing power of the individual and making possible the manufacture of the countless necessities, conveniences, and luxuries with which we are now accustomed to surround ourselves.

But all of this makes little difference to the fundamental part of ourselves, our ideals, our wishes, and our ultimate fate. We can do more things to our lives, but the purposes remain the same. Our lives are fuller and

they are longer, but only a little longer. It is not physics or machinery which has lengthened them, but the first

The discovery of bacteria by Pasteur and the hesitating application to our daily lives of this discovery, yet far from complete, has added 11 years to the average man's duration of life represents only one channel through which biology can affect ourselves.

Processes of Life

This century will be the Age of Biology; the next, perhaps, the Age of ing array of assorted facts, reducing Sydney). bers. Regret was expressed at the death generalisations which will guide us of Mr. F. M. Burgess, who had been a ere long to the control of the most inti-

At the conclusion of the business, Pro-fessor Cleland spoke on the significance of blood grouping in anthropology, and Dr. a way and to a degree that machinery Campbell on the importance of physical cannot affect us. The slightest degree the generous assistance of British and increased so far as the internal debt inteanthropology. Illustrations of aboriginal of control of our physiological pro- Australian geologists, including a number rest was concerned from £219,000,000 in music were given by Professor Davies, cesses or of disease which we may of his old students, who had contributed 1918-19 to £273,000,000 in 1925-26, or at by means of a gramophone and records, attain must affect our lives in ways far and a film was shown depicting the more numerous than we can discover to do the compendious work, which was increased by 61 per cent. The burden characteristics of Central Australia and and result in social reverberations of beyond a singlehanded effort. The following officers were elected:- the most intricate and far-reaching Patron, the Chief Justice (Sir George Mur- kind. The abolition of cancer, for whole work," added Professor David, in- The rate of income tax had steepened conray); president, Mr. E. W. Holden; vice-example, would affect all of us, directly president. Professor Campbell; treasurer, or indirectly, in countless unthought-

> which would enable us to affect the quality of succeeding generations, plac- Australian geologists. ing in our hands control of the future Another section tells the story of the

Human History

old age, and death. Likening these to world. the sensons of the year he deduces

Spengler's book convinces by its sweep of argument and wealth of illusment of the Electrolytic Zinc Company tration, although one factor is left at Risdon, Tasmania, where the treatment altogether out of consideration. That cational Association a lecture on the re-society in recognition of his services to works of the company are situated. After is the growth and development of port of the Colwyn Commission was de anthropology in South Australia. science. Ours is the first scientific livered at the Institute, North-terrace, Dr. Pulleine introduced the subject of civilisation. While it might make last evening by Mr. G. W. Gibson, lee-native fishing methods, and described little difference to our fate that we can make more things, travel more quickly, Mr. Elford is the younger son of Mr. communicate more rapidly, and com- the subject was of special interest, as it of some fish of secreting themselves in holmand more wealth than the Romans is being studied by the classes in economics low logs to obtain a supply of fish. He biological science at its present stage the president of the W.E.A. (Mr. C. H. nets and other traps for fishing. At Marion of development may transform the Dicker). lives of every one of us and absolutely recreate our historical destiny.

Biological Science

Without biology our fate is assured. The limit beyond which we cannot go other not less important respects.

actuality to ideals which struggle for 1912 and 1925, the growth of the national flowing and the outgoing tide, being left expression within us all and create a debt, the burden of taxation, direct and stranded in the pool. new life of ever-progressing richness indirect, upon various incomes; the in Mr. P. Stapleton said he had learned from and greatness it is to biological science cidence and defects of different taxes, par- Mr. Steer that at Streaky Bay the natives that we must look for the knowledge ticularly income tax and death duties; the it a fire at night-time on the margin of which may grant to us the power to repayments wrest our historical destiny from the The conclusions of the committee agreed that were attracted by the light. Mr. Steer creeping paralysis of age and mould very closely with the findings of Bowley (junior), present as a visitor, confirmed Mr. it nearer to our heart's desire.

NEWS 30: 7.21 AUSTRALIAN GEOLOGY

Compendium by Sir E. David

OLD STUDENTS ASSIST

(SPECIAL TO "THE NEWS") LONDON, July 29.

"If I receive the last manuscripts from book on the geology of Australia will said Sir Edgeworth David (formerly Proressor of Geology at the University of

he had been doing for two years had tion could take place. been a labor of love, which he immensely The report dealt with the increase of

dicating a big canvas spread on the floor, siderably, and death duties had increased outlining in diverse colors the geological in similar proportions. The Commission

able for two years, also a metallurgy to the phases in the life-history of an best coal was actually formed under water pressed unduly upon those least able to proved correct regarding other coalfields, it would entail a great reduction of the tralia for promoting the education of tion has its childhood, youth, maturity, estimates of the coal resources of the

ADV. 30-4-24 PROBLEMS OF FINANCE.

BRITISH TAXPAYERS' BURDEN.

turer on economics at the Leeds Univer- various net, spear, weir, and poison sity. There was a large attendance, in- methods in common use. Along the Queenscluding many University students, to whom land coast natives make use of the halot of the Empire, the slightest advance in this year. The chair was occupied by had also observed them at Noosa using cel-

> report was called for as a result of post- the beach at night with a torch, and spear war conditions, along with reports on in-butterfish in the clear water at the edge dustry and trade. England had, since of the posidonia weed. majority report included an examination deep circular pool 14 feet across.

namely, that real carnings had, on an modern implements for beating were hoopaverage, kept pace with the rise in the iron and broomsticks. cost of living; that unskilled workers bad Mr. C. P. Mountford introduced the sub-

£150,000,000 to £200,000,000 a year at presout-day prices represented the falling of of present-day savings. Then came the problem as to what effect taxation had upon the situation.

The national liebt in 1/20 totalled £7,831,744,000, and in 1926 £7,615,916,000. The important thing was to differentiate between internal and external debts, the latter of which, year by year, consumed a portion of wealth in payment or interest and sinking fund. The floating debt had been deliberately decreased, because of its size in the case of a national emergency requiring borrowing on a considerable scale. The decrease in interest had been due to the setting up of a sinking fund and to conversion of war loans, same time this marked decrease in interest had been gained at times by conversion be ready for the printers by December," of one kind of loan for another of higher denomination, but at a low rate of interest, The issue of loans at a heavy discount was unanimously condemned by the Com-A pressman found Professor David in mission, chiefly on the grounds that what a mass of maps, diagrams, manuscripts, was likely to be more than offset if interest, and photographs. He said that the work fell to any extent, and no further reduc-

the burden of taxation due to falling He wished to pay the highest tribute to prices, and showed that the burdens had chapters on special subjects. Without pre-war prices from £97,000,000 to their help it would have been impossible £176,000,000. The absolute burden had "That map forms the basis of the head in 1913-14 to £14 14/5 in 1925-26. Mr. A. Greniell Price; committee, Dr. of ways, and incidentally it would add
Helen Mayo, Mrs. J. C. McKail, Professor many years to the average life of man.

J. McKellar Stewart; Professor E. Har
But the effect of abolition of a droud. Professor David. When it is published it J. McKellar Stewart; Professor E. Har.

But the effect of abolition of a dread Professor David. When it is published it dustry?"

The answer was that it all will have alongside it sections showing depended on whether the tax could be the geological strata of north, south, east, shifted. In the long run there was no and west, with complete bibliography to and west, with complete bibliography to doubt in the higher ranges of income enable readers to refer to works of other it had a great effect in lessening the amount of saving. It had been suggested that a levy should be placed on capital, NEWS. 29.8.27 more certainly than we can control evolution of plant and animal life as far that a levy should be placed on capital, RESEARCH IN METALLURGY possibilities bear to us yet a merely fantastic aspect testifies to the enormous potency biological science may dence given in the book inclined Professor that it might lead to a loss of national prestige, particularly dence given in the book inclined Professor that such a proposal would be unfavorably come to have in shaping all our lives. David to support the theory of Professor received. The minority report pointed Howchin, that there had been glacial out that the internal debt on the balance A recent German writer, in a book as deduced by the evidence of radio-active poorer to the wealthier classes. Indirect which has attracted world-wide atten- minerals in the Lower Cambrian and not taxation weighed unduly upon the poor. tion, has propounded and worked out the pre-Cambrian period, as some geolo- it should be lightened, as the practice was

tory, which, if not quite novel, is at said, "the great copper producing epoch little guide in the long run, It saw Mr. Elford was born at Moonta Mines. least new as an exact and a soberly of South Australia may be of more re-every difficulty in altering the status quo. considered philosophy of history. He cent date than the epoch in which the and therefore offered little comfort by was a student at the Prince Alfred Col- states the thesis, and supports it by vast copper deposits were formed in North chances of escape. It was a source of lege in Adelaide for four years and con- a marvellous wealth of learning and Referring to the survey of the New the committee was not also called upon tinued his studies at the Adelaide Uni- illustration that a human culture or South Wales coalfields by Mr. W. M. to consider the incidence of local rating. versity and the South Australian School civilisation passes through a cycle of Morris, Sir Edgeworth David expressed Here, undoubtedly, he considered, was a He secured a metallurgy bursary, ten-

2.8-27 ANTHROPOLOGICAL SOCIETY.

A meeting of the Anthropological Society was held at the University on Monday evening. Dr. R. H. Pulleine presided. Professor F. Wood Jones, new of Honolulu, who was a foundation member, was unani-Under the auspices of the Workers' Edu- mously elected an honorary member of the

Bay, on Yorke Peninsula, there was an old The lecturer stated that the Colwyn native who formerly used to walk along

1921, been suffering from unemployment. The Rev. J. C. Jennison said that on on a gigantic scale, which in turn led to Murungah Island, eight miles north of labor troubles in industry; from falling Crocodile Island in the Northern Terri-Is already in sight. At best, if no prices, and from an unprecedented burden tory, he had seen a good fish trap. In the greater disaster overtakes us, we can of taxation. The ferms of the enquiry centre of the island, which is 21 miles enter within another century or two linked together the national debt and "the across, there is a large tidal swamp filled into a prolonged period of stationary incidence of existing taxation," and it was only at spring tides. A weir two feet civilisation, only materially in advance hoped that some examination would be high, with a wooden framework in the of the Chinese, perhaps behind it in made of their effect upon trade, industry, middle, had been built across the channel, If we are ever to give life and of the standard of living between the years were apparently trapped both on the in-

and Stamp in "National Income for 1924," Stapleton's remarks, and said that the

done better than skilled; that skilled ject of "Aboriginal Games and Amuse-workers in exposed industries had done ments," with references to the literature on badly with a 45 per cent, rise in wages, the subject. Not a great deal of inforas against 75 per cent, in prices; and that mation had been recorded on the subject, sheltered industries had done best. The and no doubt there was a great deal still savings of the workers were only a small to be learned. Games with toys were part of the total, and it had been pointed considered, such as returning boomerangs, out that insurance policies had kept up tops, balls, and reed spears. Cats' cradles to the average, but this was no criterian were of much importance, and more attenof other forms of savings. Actually tion should be paid to them. Story tell-