REGISTER 30.7.25.

PROFESSOR BRAILSFORD ROBERTSON'S LECTURE.

"Inc life and work of a mechanistics philosopher Jacques Lock, was the subpect of an interesting lenture delivered by Professor T. Branderd Robertson, before the Victoria League, at the Public Library. accture recip on Wednesday evening. Proressor W. Mitchell (Vice-Chancellor of the University of Adelaide) presided, The lecturer said that Jacques Loeb, the greatest experimental biologist of his ago. pioneer in every branch of scientific endeavour which he undertook, and one of the greatest discoverers of new and uncharted realms of fact which the world has even seen, was born at Alsace in 1850, and died in Bermuda early in 1924. The clue to Loeb's general objective was to be found in th literature of the encyclopaedists. All would be well in this world if it were not for faults of education and environment created by false beliefs, mistaken prejudices, and domination of Tanorant and solfish despots. They could imagine young Loeb asking himself, "What is that which holds the masses most cleaviy under subjection? What is that which chains them to unwearying reap? What is it that makes them bear their lot uncomplaining, and letters them to the task to which they were born?" His answer was, "Religious dogmas, appersution, recognition of a higher will, and fear to assert their own individuality. Those dogmas came to be believed through ignorance of the forces which moved the world, and man, and it was in a solution of the problems of life, therefore, that they should seek for enlightenment. They should strip away life's mystery, and show that living beings, no loss than manimate bodies, were machines impelled by physical and mechanical forces. To those views throughout his life. One of those hying phenomena about which mysticism most loves to hager, was the phenomenon of that development whereby an orderly growth of form and function evolved out of the simple and undifferentiated jelly-like mass of protoplasm, which constituted the exe-cell. If that process could be hown to be guided by physical and ters of the two men. On the professional At the conclusion of his address, which been struck at the roots of the obscurant nature" terrified Voltaire, and shocked sor Robertson was warmly thanked, pen; which it was Lock's main object to Rousscau, had sphroached Lock more destroy. He showed for the first time closely perhaps, for Loeb's own concepthat the development of organs and structures of animals was, in fact, directed by physical and chemical forces. He showed that if the animal were placed under excentional conditions involving a change of the usual physical and chemical factors, recognition of a higher will, and four to development became abnormal in direction determined by the new factors. The discovery that the same factors were involved in the phenomena of the attraction of plants towards light as in the by physical and mechanical forces. He took, phenomera of the attraction of insects his degree of M.D. at Strasbourg in 1884, towards the light, was destined to prove and there he studied under Fick, the last even more effective and important to of a great school of physical physiologists. war is the promotion of his general object At first he contemplated taking up medical himself to the problem of fertilization, life wearied him, and he turned instinctuntil at length he had succeeded in inter- ively to research, studying under Goltz, and preting an accidental observation, which dealing mainly with brain physiology. Morgan had made, in artificial fertiliza- After a couple of years he returned to Fick. tion, and in so improving upon the original but spent three summers at the Zoolochance experiment as to be able to pro- gical station at Naples, where he showed duce at will a 100 per cent, of fertilized for the first time that the development of eggs from eggs which had never been organs and structures of animals was rertifized by sperm. To-day the artificial directed by physical and chemical forces, pertilization of eggs was no more difficult He showed that if an animal were placed

Look's main thoses, culminated in the view that man was an automaton moved wholly by physical and chemical forces, Se far as his writings were concerned, Loeb certainly might be classed as an epiphenomendist. Undoubtedly he thought much more about the great central problem than he chose to express in his writings. He would probably have said that it was no homings of his, as a scientific investigator, to throw frail bridges of hypotheses over aby e of ignorance. As for his doctrine that men and animals were machines, their attitude towards that depended upon what they meant by a machine. As he conceived a machine, possibly there were many who would disagree with him. But it might be questioned whether a machine was, in fact, anything at all, other than somethin that they understood, fully in its origin, in the way it happened and in its effects. Directly they achieved men comprehension events appeared to require a certain incyllability. mere pervaded by necessity, and volition disappeared, but possibly that impression; armse merely from the relativity of humani intelligence. (Appleuse.)

1.8.25.

UNIVERSITY SCHOOL OF ECO. NOMICS.

The question of a successor to Dr. H. comparative psychology, the Mechanistic Herton, bestares in economics in the Uni School." The attraction of mimals for Workers' Educational Association Totorial precisely the same factors as governed the Cleaves, was yesterday referred by the bending of plants towards light, Council of the Enversity to a sub-come In 1891, following his marriage to an Council of the Enversity to a sub-comin the for consideration. Mr. G. Me. American lady, Leels accepted a post as
Envise, accepted of the W.F.A., will Associate in Biology at the Bryn Mawr
american in the meantime, and Mr. A come Processor of Physiology and ExperiDirector of the Elder Conservatorium and
and the Conservatorium and the Chicago University. economies, will continue the course of loo Three years later he became Professor

ADVERTISER 30.7.25 JACQUES LOEB, PHILOSOPHER HUMAN MACHINES.

> THE MECHANISTIC PHILO-SOPHY.

An address on the work and life of ducques Loch was delivered by Professor T. Brailsford Robertson, under the ouspleas of the Victoria Lesgue anglie Institure Building, North-torrico, on Wednesday night. Professor Mitelfell occupied the chair.

The becomer said Lock was a descendan. of those intellectually beigliant Jews who were forced to fice from Lisbon in the Middle Ages to avoid the personation of the Inquisition, and with them departed the intellectual glory of Portugal. He was born in Alsrey early in 1850, and his tather, who was a banker, was so strongly imbood with French principles that his soil was never allowed to speak German in the home. Loch seemed to have been Keyomation, and the influence of this, particolarly toe works of Dislecot, upon his outlook porsisted until his death, which

occurred in Bermuda only last year, The central idea which emerged from all the writings of the pre-revolutionary period in France, was that human nature was not essentially bad, as the people were The evil in the world they believed and or any other nation. stributable to faulty education, lack of smilarity between the outlook and charac ligence. tions were in no respect conventional and had retrified and specked not a few of his generation. Believing that the masses word held in subjection and fettered to unwearying labor by religious dogma, superstitution, assert their own individuality. Loch sot to work to sirip the mystery from life and show that living beings no less than inanimate bodies were machines impelled For several years Loeb devoted practice, but the routine of processional than the development of a photographic under exceptional conditions involving a change of the usual physical and chemical factors development become abnormal in a direction determined by the new factors. In many of the simpler forms of life inhabiting the occum-bed mutilation resulted in the regeneration or re-growth of the missing parts. He proved that the polarity of many of these organisms was entirely due to gravity, and that aftering the ordinary direction oction gravity it was Oi. possible to produce these organs in munitural situations. As the result of other discoveries of Lorb they now studied the behaviour of animals chiefly from a outside, asking what they did with a corneity which increased rather than abated, but if there were any explanaion ventured why they did these things, it was no longer based on an appeal to their thoughts, emotions, or desires. Hardly even could two different races of men thoroughly comprehend each other's thoughts or feelings, and the thoughts and belings of any other individual were merely interred; there was no immediate mowledge of them. But of the behaviour of men and animals they had immediate knowledge, for it required no interpreter but their senses. This change of attitude, of mind was due to Lock. As Brett had said in his great work on the "History of Parchology";- "The kindly observers who from 1800 to 1800 entertained a large public with eurions marratives were tudely sileaced by the reports which Jacques Local published in the last year of that epoch. From this work arose a new type of

of Physiology at the Entrepoint of Call-

fornia, and it was there that the speaker joined him as assistant. Lock coraged in experiments connected with the fertilegation of sea urchins' cars. He beheved that if he could strip the mystery from this process of fertilisation he would have struck a deadly blow at the mysticism which revelled in the ignorance of natural phenomena. For several years he devoted himself to this problem, mutil to-day the artificial fertilisation of these eggs was no more difficult than the develogment of a photographic film. highest form in which artificial fertilisation had yet proved possible was the from but many embryo frogs had been produced, and not a few reaced to maturity without the agency of any male element. These researches afforded a remarkable example of the fact that fundamental discoveries need not always be of an expensive kind. The laboratory in which Lock discovered the majority of these facts was a simple shed erected upon the sea coast of California, at Pacifie Grove, close to the old Spanish capital Monterey. The equipment required was of the simplest and least expensive character, and the results were among the most valuable in biology. In 1910 brought up on the literature of the French Lock left California to accept the position of director of a department especially created for him at the Rockefeller Institute for Medical Research in New York, devoting his time to the refinement and elaboration of his previous work. Loob was not a scholar in the ordinary acceptation of that term, and his mentality was kinetic rather than assimilative. As a taught to believe at that time by their scientific man he awed more to the inreligious instructors, but essentially good, spiration of English workers than those

What should be said of his main theses intelligence, and bad institutions, among colminating in the view that man was which they reckoned the thou-existing an automaton, moved wholly by chemical forms of Government and the dogmas of or physical forces? With regard to his religion. The most vigorous and popular dectrine that men and animals were maexponent of these ideas, through the chines, their attitude depended upon what medium of his great encyclopaedia and his they meant by a machine. It might many other writings, was Diderot. It was be questioned, however, whether a manot Diderot, however, but. Holbach, a chine was anything other than something somewhat younger man, who crystallised they understood with a full understandthese ideas into one coherent system of ing of its origin in the way it happened mechanistic philosophy, and give clear and its effects. As soon as they achieved form to the political and ethical aspirations such comprehension events appeared to which ares; out of them. The influence acquire a certain inevitability. They were of Diderot upon Luch extended further pervaded by necessity and volition disapthan the capture of his intellectual sym peared, but possibly this impression arose pashies. There was a touly extraordinary merely from the relativity of human intel-

chemical forces, a severe blow would have side, however, Holbach whose "System of was illustrated by lantern slides, Profes-

Mail 18.7.25



PROFESSOR COLEMAN-PHILLIPSON former Professor of Law at the University, who has booked his passage to leave Adelaide for England next Wednesday.

MAIL 18. 7.25



Professor of Music at the University, who is fifty-eight today.

HOVERTISER 30.735 FOLK SONGS IN SCHOOLS.

Recently in one of his University extension lectures Mr. Clive Carey deprecated the fact that so little attention was being given by local musical authorities to the encouragement of the singing of British folk songs. He maintained that the English-speaking peoples possessed a plorious heritage in this respect, and he wondered why in the public schools of the State more attention was not given to this class of ninsic than to some of the items of less value on the programmes. Since then the subject has been discussed by Mr. Carey and Mr. F. L. Gratton, musical director of the State Education Department, and arrangements are being made by the latter to give more prominence to folk songs when teaching singing lessons in the schools. Mr. Gratton informed a representative of "The Advertiser" yesterday that he agreed with the suggestion made by Mr. Carey. All felk congs were not suitable for singing in the schools, but a great many of them were. He intended, with Mr. Carey, to draw up a list of those considered suitable and have them taught in the schools without delay.

ADVERTISER 1-8:25

At yesterday's meeting of the Council of the University of Adelaide, Mr. W. J. Isbister, K.C., M.B.E., was elected Dean of the Faculty of Law-the position previously held by Professor Coleman Philipson. Mr. Isbister, who was admitted to the South Australian bar in 1888, and to



Mr. Isbister.

the Inner Temple in 1890, has been prominently associated with the legal profession in Adelaide. He retired from active practise just as he was talked about as a coming judge. Mr. Isbister was elected a member of the University Council in 1905, and for several years lectured on the Law of Property, part 2, in the Law School of the University.

NEWS. 31-7:25

Sir Joseph Verco, the eminent Adelette surgeon, will celebrate his seventy-fourth birthday tomerrow. He was born at Fullarton, and educated at the Adelaide Educational Institution and St. Peter's College. Proceeding to London University he had a distinguished academic cureer. In 1875 he took his M.B. degree with scholarship and medal in forensic medicine, and gold medal in medicine. In 1876 he graduated as M.D. with gold medal. In 1877 he took the B.S. degree with scholarship and gold medal in surgery. Dr. Verco. became a Fellow of the Royal College of Surgeons in England in 1877. Sir Joseph was honorary consulting physician at the Adelaide Hospital for many years, and he was also lecturer in medicine at the University. He was president of the Souta Australian branch of the British Medical Association in 1886-7, and president of the first Intercolonial Medical Congress held at Adelaide in 1887. The doctor has been president of the Royal Society in South Australia for many years, and is well known for his philanthropy. He was created Knight Bachelor in 1919,

HOVERTISER 1-8-25

THE RHODES SCHOLARSHIP.

yesterday's meeting of the Council of the University of Adelaide the following were reappointed as the representatives of the University on the committee which is to meet towards the end of this year for the purpose of considering the award of the Rhodes Scholarship for 1926: -Professor Dainley Naylor, Sir Joseph Verco, and Messrs. J. R. Fowler and C. T. Madigan. The other members of the committee are: - His Excellency the Governor (Sir Tom Bridges), the Chief Justice (See George Murray), and Messre, H. Thomson and R. J. Rudall-