The conference considered in detail the field would lead naturally and inevitable type of training needed for officers of the to closer economic co-operation of the con-Agricultural Departments. For the spe-stituent parts of the Empire, which would cialist type of officer or research worker, prove the most effective method of solving a sound honors' training in science, espernational and Imperial problems. cially in biologic science. Was the first essential. The second was such a knowledge of agriculture as would enable him to appreciate clearly the role of science in agriculture. For the agricultural administrative officer a wide agricultural knowledge, a practical outlook, and administrative ability constituted the first requirement. The second was scientific knowledge, adequate for the full utilisation of scientific results in agriculture.

Chain of Research Stations.

mended the establishment of a series of tions were awarded. central tropical and sub-tropical research Mr. I. G. Reimann (acting dean of the stations, located at convenient centres faculty of music), in the absence of Prof. where groups of related problems could be E. Harold Davies, Mus. Doc., presented to advantageously investigated for the bene- Sir William Mitchell (Vice-Chancellor of hit of the Empire. The conference de- the University) the Associates in Music:fined the needs which these stations were Margaret Mary Barry, principal subject to meet, the scope and character of the pianoforte (in absentia); Mary Teresa work they should undertake, and the re- Byrne, pianoforte (in absentia); Vera lationship of such stations to the Govern- Selina Mayfield, singing; and Ernest Philment Agricultural Departments. The lips Tidemann, pianoforte. conference agreed that the establishment The Elder scholars presented were Betty under review, a woman in Wurtemburg, into the question will prove of value. of such a chain of research stations Froome Puddy, pianoforte, and John the alleged father of her child, and the There is ample scope in medico-legal work should be governed primarily by the as- O'Connor McCabe, violoncello. certained needs of Empire research in The Public Examinations in Music Scho-test. Both the man and the woman be-lines." particular fields of agriculture, rather larship, given by the Australian Music longed to one blood class, designated A, than by considerations of geographical Examinations Board (practice), was while the baby's vessels contained blood distribution. Moreover, the stations should awarded to Jean Ysobel Virgo. That for classes A and B. As the blood class A be located in territories affording specially theory was won by Hartley Searle, with advantageous conditions for the investi- Cecilia Marie Pryor second. gation of the group of problems allotted to them. Finally, these Empire research stations should, in the main, confine themselves to "long-range" and "widerange" research. They should concentrate on (1) problems requiring more probe expected from any single administrative Agricultural Department; and (2) on problems arising in more than one territory of the Empire.

Tropical Research.

thern Queensland, to serve the interests of Under Rain) with light-fingered facility; four groups, which was almost universal. sympathetic. He had also had several tropical Australia and the Mandated Ter- Miss Marjorie Adamson (Mr. Reimann), This classification was based upon the fact discussions with Mr. G. A. Julius, the ritories. It was made clear that these who rendered Saint-Saens' "Toccata," Op. that there were present in the serum two chairman of the Council for Scientific and substances known as A and B, which Industrial Research, who attended the rethat or compete with the work of Agri- (Mr. William Silver), who gave a brilliant cultural Departments, but should be com-rendering of Moszkowski's "Autumne" and work of local Departments of Agricul of technique. mendations regarding two subjects of vital gave a scholarly performance of Siegfried importance to the Empire-(1) the estab. Karg-Elert's organ solo, "La Nuit" (Night) lishment of a central research station in with an admirable choice of stops and soft connection with the diseases of animals; effects. and (2) the establishment of a new re- The violin section was represented by search station, to deal with the scientific Raff's "Cavatina," played by 17 students problems associated with irrigation and in unison, the performers ranging from rrigated agriculture.

Imperial Co-operation.

for animal breeding, plant breeding, horti- with excellent ensemble. culture, and agricultural parasitology. These burgaus and correspondence centres mology, and would act as clearing stations a lilting rendering of Dell Acqua's "Villafor the collection and dissemination of in- nelle" in a nice open soprano voice. Miss character for workers all over the Empire, played a beautiful and unusual contralto The needs of practically every branch of voice of immense possibilities in her singspecialists of twelve technical committees, Fernando," and Miss Gertrude Orr (Mr. tive interpretation. It would need great its disposal for research. and valuable reports were submitted by Winsloe Hall) contributed Dunhill's "The these committees as to the best means of Cloths of Heaven' and Beethoven's "Creapromoting research in these fields. The tion's Hymn." Miss Marjorie Walsh (Mrs. subjects included animal health, animal R. Quesnel) gave an artistic rendering of be regarded merely as an accessory to ordinutrition, animal genetics, soils, dairying, the florid operatic aria, "Una Voce Poco nary legal procedure. entomology, myeology, horticulture, plant Fa," from Rossini's "Barber of Seville." breeding, agricultural economics, preserva- Her sweet soprano voice was heard to cause complications? he was asked, tion, and cold storage problems.

Next Conference in Australia.

of Australia (Mr. Bruce), the conference unanimously decided to hold the next lowship. Mr. Reimann announced the permeeting in Australia in 1932.

Earl Balfour made the following significant Friday evenings of this week, remarks:- 'Within the British Empire are contained some of the wettest and some of the driest, some of the hottest and some of the collest parts, some of the most fertile and some of the most barren. The agricultural problems presented to the investigator cover the whole field of agricultural investigation, and the common problem to the Empire is that of extract ing from reluctant Nature all that coluctant Nature can be made to give."

Professor Richardson added, in con clusion, that the problem of the development of any one part of the Empire was part of the problem of the development problems underlying the production of Imperial Agricultural Research Conference work in the very closest co-operation. The cies of pastures in an illuminating manner, close co-operation and team work which The journal can be obtained from the

all industries and Governments, could be developed in this very important

NEWS 6.12.24 ELDER CONSERVATORIUM

Final Student Concert

A large audience gathered in Elder The conference surveyed the whole Hall last night, when the final concert of tropical and sub-tropical Empire as a the year was given, and diplomas and field for organised research. It recom- scholarships won at the recent examina-

Young Planists

The conference also made recom- Mr. Arnold Farley (Mr. Harold Parsons)

grown-ups to small embryo artists. All

Vocal Offerings

existing bureaus of mycology and ento- Miss Vida Buring (Mr. Clive Carey) gave formation of a scientific and technical Mabel Siegele (Mr. Frederick Bevan) disgreat advantage.

Miss Alice Meegan did the bulk of the At the invitation of the Prime Minister accompanying. The other accompanists were Misses Muriel Prince and Joan Melformances of the opera class at Norwood In addressing the conference delegates Town Hall, to be given on Thursday and

AOV. 6. 12. 27 SCIENTIFIC AND INDUSTRIAL RESEARCH.

The second number of the quarterly journal of the Conneil for Scientific and Industrial Research has been published, not be ignored." The council publishes a series of bulletins minions, and the Crown colonies could research work into the mineral deficien-

Are Blood Tests Helpful?

Many Difficulties Ahead.

Blood testing to prove the parentage of a child is a new departure in medico-legal work, although merely another phase of ordinary blood-testing, but its permanent adoption as proof positive in Court cases is beset with many difficulties.

are discussing the instance, reported by nite proof of guilt or innocence, because, cable from Germany on Monday, because as Professor Woollard points out, there it is the first known occasion on which are many complications in the way, withsuch a test has been put before a Judge out the clear proof forthcoming as was and accepted as proof positive that a stances under notice is decidedly interest-woman's story is untrue. In the case ing, and perhaps further investigations child itself, were put through a blood for further investigations along such and B. As the blood class A did not exist in either the mother or the alleged father, the child must have acquired it

Influence of Parents.

Requires Conservative Interpretation.

care to definitely introduce them into medico-legal work, and it would be safe to say that in most instances they would

But would the presence of a third factor

Third Factor Possibilities.

analysis of available data suggests that the conference of Empire Foresters in instead of the inheritance consisting of Australia in 1928 is likely to prove fully only two factors A and B, there is the as successful as former conferences held possibility of a third. Therefore, if there in London (1920), and in Canada (1923) are three inheritable factors instead of For the 1928 conference details of iting-

Police View.

ment of the agricultural resources of the of Tomatoes," by Mr. H. A. Pittman, are same class, there was no escape for the of particular interest to South Australia, accused person, although he might be in-Empire through the application of scient Professor A. E. V. Richardson deals with nocent. As it was (it was pointed out) tific research, the home country, the December work into the mineral deficien. Magistrates, unless there were overwhelm-Magistrates, unless there were overwhelming proof to the contrary, took the woman's word before the man's when it was word against word.

Regarded as an Accessory.

A city lawyer, who practises extensively in the Criminal Court, admitted the correctness and soundness of the police view. Where proof existed, as in the case reported from Germany, he said, there would be no difficulty, because the test was clear-cut. Blood tests had played an important part in trials, but they had always been regarded as an accessory to ordinary procedure of "sheeting home" the guilt of an individual. There was a case in France some years ago, in which an accused person strenuously denied a charge of murder. It was alleged that blood on articles of clothing belonged to the accused, who asked for samples of blood to be taken from him and compared with that on the clothing. The analysis was in favour of accused; but even then the Judge was not convinced of the value of the tests, in view of other unsatisfactory explanations by accused, who ultimatley went to the guillotine.

"I think Judges in this country would Legal and medical circles in Adelaide be loth to accept such a practice as defi-

ADV. 6. 12. 24 IMPERIAL CO-OPERATION IN RESEARCH.

The Council for Scientific and Industrial The musical programme was then pre-from another person, and the woman was Research is taking steps to co-ordinate tak sented. Master Clifford Bevan led off sentenced to imprisonment for perjury. research work, both with the United Kinzby playing as piano solos Cyril Scott's Professor Woollard, at the Adelaide Uni- dom and with the States. During his to 'Valse Caprice" and Schutt's "Bluette in versity, was greatly interested in the cable, cent visit to Europe Sir George Pearce longed research work than could normally D." With all the carefree indifference of and explained the system of identifica- discussed with Lord Lovat (Under Secre the average schoolboy his playing was tion of the blood classes. He said the tary for Dominion Affairs) and Major most musical and sound, his technique identification of the blood group was the Walter Elliott (chairman of the research clearly promising to follow that of his basis upon which suitable "donors" were committee of the Empire Marketing teacher, Miss Maude Puddy, in its pearly selected for blood transfusion, a practice Board) various questions relating to the which obtained in all hospitals, including work of the Commonwealth Council for Other pianists were Miss Jean White Adelaide. Blood grouping of individuals Scientific and Industrial Research, and to One of the series of the tropical re- (Mr. George Pearce), who played De- had been carried on for many years, and co-operation in Empire research. He search stations would be located in Nor- bussy's "Jardins Sous la Pluie" (Gardens all European races had been divided into found the British authorities intensely had the property of precipitating the red cent Imperial Agricultural Research Conblood corpuscice of other individuals. In ference in London. It is expected that plementary and supplementary to the The Juggleress," showing much facility group 2 A alone was a result of that conference definite were absent; in group 2, A alone was action will be taken for the development present; in group 3, B alone existed; and of research in Australia in various imporin the fourth group both A and B were tant directions. Dr. Rivett announces that arrangements have been made for the visit to Australia in 1928 of Sir Arnold "It has been established," the professor veterinary research, and Dr. J. B. Orr. continued, "that the substances A and B who is the director of the Rowett Instinever appear in the offspring unless they tute. Aberdeen, one of the principal instiare present in the blood of one of the tutions in the world for research on aniparents. Obviously, then, if that theory mal nutrition problems. In addition to were students of Miss Sylvia Whitington, is applied to medico-legal problems, it fol- informing himself generally on the whole The number was very attractive. Master lows that if A or B is present in the question of veterinary problems and re-The conference examined in detail and Harry Hutchins (Mr. Charles Schilsky) blood of a child, one of the parents must search in Australia, with a view to closer prepared plans for a considerable exten- proved himself a young violinist of great possess it. The percentage of these groups Empire co-operation, Sir Arnold Theiler sion of the existing machinery for co-opera- promise in his performance of De Beriot's has been known to vary in different races, will advise the Commonwealth council as tion between agricultural research workers difficult "Scene de Ballet." His career will In fact, the ratio of A to B is known as to the immediate development of its plans all over the Empire. It recommended the be watched with interest. Two clever young the bio-chemical index. Most races have for research in these problems. The courestablishment of Imperial bureaus for performers. Misses Olive Dyer and Esma now been investigated on this basis, and cil has already initiated investigations on veterinary science, soils, and animal nutri- Roach, gave the first movement of in Australia it has been shown by animal nutrition problems under the cantion, and Imperial correspondence centres Mozart's "Sonata" for piano and violin Tubbett, McConnell. Lea, and Professor trol of Professor T. B. Robertson, and for Cleland, of the Adelaide University, that that purpose is erecting a special laborathe Australian aborigine has an extremely tory at Adelaide University. Similar work high bio-chemical index; in fact, only ex is also in progress both at Dr. Orr's instiwould function in the same manner as the Some good vocal work was submitted ceeded by the North American Indian. tute at Aberdeen, and in other parts of the Empire. Dr. Rivett states that he anticipates that the visits of these two au-Recent reviewers of medico-legal works thorities will be the precursor to imporhave touched on these tests, said the pro tant developments in Empire research fessor, and have remarked that such ap The Commonwealth is likely to benefit plications in a Court of law required care substantially from grants from the fund agricultural science had been surveyed by ing of Donizetti's recit, and air, "O Mio ful consideration and extremely conserva- which the Empire Marketing Board has at

ADV. 6-12-27

EMPIRE FORESTRY CONFERENCE.

From reports received from the standing committee on Empire Forestry in "Yes," was the reply. "More recent London, there is every indication that two, then their distribution in the off rary and the general programme were spring would be different from what could discussed in April of this year at a meetbe predicted when there are only two ing of the Ministers and heads of Aus-Hence the need for conservatism in its tralian forestry services, convened by Mr. adoption in legal procedure. These tests Bruce, in Melbourne. Resolutions passed are still new. Obviously, only a limited at this meeting were submitted to, and proportion of any population has been sub are now being acted upon by, the standmitted to any such investigation, and, ing committee in London, which includes therefore, all exceptions to this rule can Dord Clinton (chairman), Professor Troup (the head of the Oxford School), and Sir Peter Clutterbuck. In May of this year, at a meeting of governors and administrasearches and pamphlets relating to mat- Because the prosecution of alleged tors of colonies, convened by the Colonial ters of lesser importance. The quarterly fathers was not generally undertaken by Office in London, the importance of the journal contains papers relating to in the department, no police official would Australian conference was discussed, and complete investigations and matters of comment on the position. It was ad the necessity stressed of full support from general interest. It is edited by Mr. G. mitted, however, that the testing of blood other Dominions and colonies. The itinecrops and stock were the same every Lightfoot, secretary to the council, as for such purposes opened up a wide field rary and general programme are as to where. Through the work of the first sisted by Mr. G. A. Cook. The present of potential detection in such instances; lows:—Conference to begin in Perth durnumber contains valuable information but in any case there was the possibility ing first week in September, 1928; six tween the Empire Departments of Agricul from Australian timbers by Mr. L. R. accused, and an analysis of the blood rence (lasting a week) to be held in Cantiniversities in Britain. In the develope of Tomatoes," by Mr. H. A. Ditted Wilt showed all three parties to possess the berra. Thereafter, the delegates will leave concerning the work of the council. The that the innocent man would suffer in weeks to be spent in Australia (three Zealand. One public function is to be held in each State for the purpose of welcoming the Empire delogates. The Australian secretary to the conterence is Mr. A, Rule, Australian Forestry School, Canberra.