on Generale, by the Up; seebohm, Colle ceiya, Ka; Semple, Kenneth Hugh, Ol; Sensor, hin, Mr. Sentor, Lional Report, Ar; wengen Audrey, Eg L Pt Rt: Scaton, Kath-Shakes, Dutley Picture, H. Oc. Ar Bk; Shakes, Sta Jews, Mr. H Gg Bk; Shakrapeare, Elmaley George, L Go; Shannan, Maurine, 20 H G Startey, Elma May, Egs Lx Ft H. Ply harman, Kathlern Eleasor, Ft Ar Ma; Sharpe, directed John L Pt H Are Ma Pe; Sheard, Mythe Margaret Clementine, L. Shearer, Schoold calle, Me H Og Ar Hh; Stophard, Reginald Matheman, Mr II Gg C; Shapbord, Elsis Lucia Jean, Mr Ft; Shaphard, Mervyn Scorady, Ma tel Sisry, Allen Prederick, Fr.; Simmonds, Hills Bayle, H C Bt; Simpson, Inshel Neve, Est. Og: Sine Edgar Walter, F H Og Ol Ber; Sintair, Donald Rudoch, Gr; Sinclair, Frie Mrc. tanknes. Ar Pet Stnoock, Dorothy Mars, Ex-H Bt Bk Tp; Sincock, Jean Pulrbatte, Ar St. To: Stricor, Evelyn, Fig H C Bk; Shines, Heriago Raymond, Kir Ar Ma; Skipper, Robert Wold, L F Mx Gg Ar O; Slape, Fulth Family, Fig. 11 Gg Ar Rk; Slatter, Brian Barold, L F Ar Ma Pc C; Slee, Edma Lillians Est; Man, Joint No Art Smail, Patricia Ivy. H: Joan Mary, For Fr H H; Smeaton, Joan Mary, Fig. F. H. Ri.; Smith, Alice Helen, Fig.; Smith, Brian Arneld, Fig. H. Gg. Ar Pc; Smith, Doris Mabel, Blax Sx; Fig. H. Gg. Ar Pc; Smith, Doris Mabel, Blax Sx; smith, Kathleen Anderion, Pl Bt; Smith, John Teredale, Eg L Ft H; Smith, Latona Collins, Pt. S TP; Smith, Wyndham Hill, F H Gg C; Smyth, Edward John, F Ar C; Smyth, Walter Lionel Ekin, Fig.; Smythe, Alan Cresswell, Eg Ar Pc. C: Sneyd, Jack Hyatt, Eg Gg Rk; Sour, Jean Lillian, Gg Ar Rk; Solemon, Helen Ethel, Ma; Solomons, Phillip Reland Nathan, L F; Serrell. John William, F Ar Ma Pc; Souter, Grace Lealie, s; Spain, Mauric John, Ez; Speecs, Jean Catharine. Ez: Spring, Cyril David, Pe; Spurling, Cocilia Aloysie. Ez S: Squire, Beryl Lavinta, Bk S: Stacry, Allan Jefferson, Eg Ar Pe; Stacey, Edith Mariovie, Eg; Stacy, Eath Joyce Campbell, Er Ge Bk; Stanfford, Josephine Constance, the F H Pl; Stark, Roy Albert Stanley, Rg H le Bl.; Steame, Alvin Aston, Og Ar Ma Pier S. Pp; Steel, John, Ec Pt Ma Pe; Steiner, Keith Ernest, C; Steinke, Carl Ernest, Pc; Stephens, Williamena, Er H; Stephenson, Gweneth Follett. For: Stephenson, Kathleen Helen, Er H Gg; Stephenson, Retz Mary, Bt S; Stewart, Alexander James, I. H: Stimeon, Harold William, Ar Po Bk; Stock, Mariorio May, Ar Ma Bk; Stocktale, Margaret, Fir L H Ma; Stockman, Murray Gubert, Eg H Gg Pe; Stopp, Harry Melville, bridge, Albert Gordon, Eg Hx; Strell-lew, Theodor Georg Heinrich, Max; Strelan, Theodore Feargod, Ar Ma; Stuart, Roland Reveby Nitford, Er H Ber Stubbs, Vers Irvin, Er H: Sechols, Eileen May, Eg Pt Ma Pl; Sudlew, Neille, 'p; Summers, Wilbur Wentworth, Eg Bk; Summertion, Lorna Constance, F H Gg Ar Summer, Janes Verna, Eg; sutton, Ann Veronica, Eg; Swanson, Alexander, Eg Ft Hx Gg Eh; Sweeney, Kathleen Marion Mary, Fg F H Ma; Sweeney, Mary Bannsh, Bk S; Sweeney, Mary Monies, L. Sym Choon, Gordon Robert, F H Og Ar Bk; Symons, Norman William, Mg Ma GI; Symons, Thelma Annie, Ar Br; Syms, Wal-

Talt, Jenie Josephine, Dr F Gg Ar Bk; fastie, Winnie Francis Bain, Ma; Taylor, Nellie Gleen, Ar Gl; Taylor, Beryl, L; Taylor, Harold Lealle, L Ma; Taylor, Patricia Scott, ORx; Temby, Charace Muriel Richenda, Gg Ar S; Bentrice May, MP; Thomas, Clement Cyril, Er. Ar Pe Gl; Thomas, Colin Campbell, Ar Ma Pe; Thomas, David Austro Grenfell, Gt; Thomas, Blean Elizabeth, Eg Bk S Tp; Themas, Eleanor Armie, Tp; Thomas, Jack, Gg S Tp; Thomas, Lindsuy Howard, Ar Bk Tp; Thomas, Robert Kyffin, L F H Ar Ma; Thomas, Thelma, Gg; Thompson, Arthur Halliday, Eg H Gg Bk Thompson, Claude Vivian, Eg Ar; Thompson, Gweneth Amy, Ma; Thompson, Mariorie Allison, H Gg Ar Et; Thornton, Francis Patrick, Li Ar Ma Po: Thwaites, Donald Lincoln, Ar Po-Tiderman, Heryl Resalle, L. Ft; Tilbrook, Mary Ada, He H Bb; Tomlinson, Reginald Howard g F H Gg Ek; Tonkin, Henry Reginald, Ar fonkin, Raymond George, Eg F H; Poorey, Reginald William, R Gg: Topperwein, Amelia Ar Bk; Trussire, May Goold, Pt R Gl Bt Pl Treasure, Rita Marion, Ft H Gl Rt Pl; Tre-lear, Francis William, H; Treloar, Jack Vicars, Ar Bk; Tremerre, Alison Eluie, L Ff Gl Re; Trescowhick Meaner, & To: Trescowthick, John who has been appointed Deputy Inspec-Cord George, Ar Ma Po D; Tuck- absence on leave of Dr. B. H. Morris John Octavius, Ar - Ma Curaball, Dopald Paterson, Er L H Ma; Turner, John Meryn, Ar; Turner, Raymond Stanmore, G; Twartz, Adrian, Gg; Tyler, Agnes May, Eg Ar Ma Pe; Tyler, George Mark, F.

ter James, S.

Uren, Charles William, Fr H Ar Ma Pc C; el Uren, Elizabeth Irme, Eg Bi Bk S Tp.

Various, Cyril Charles, Pex Bkx; Venn. Geoffrey, Gg; Venning, Dudley James, St Ven-Harold Millar, Let L Ft; Verner, Doothy Alice, Gg Ar Ma Blax S Tp; Vincent, Mary, Ft Gl.

Wadham, Norma, S; Wakelin, Bric William Charles, Og Gl; Waldle, Margaret Mary, Bk F b; Waltiron, Gwen, Eg Ar Br; Walker, Alfred, or, Walker, Beatrice, S; Walker, Plorence Eve-Arx Ma Po; Walker, Marie Amelia, Ma; Wallace, Frank Kenneth, fig Pc C; Wallis, Dorcen Rus. of H Hk; Wallis, Victor Dodley, Eg F H-Walsh, Chrisel Anne, E. Hr. Bt; Walsh, James Joseph, L. Ar Ma; Walsh, Kevin Gerald, II; Walter, Alice Mildred, S Tp; Walters, Bush Gordim. Eg; Ward, Robert Louis Hawthorne, Ma; Warn, Arthur Marwell, Eg H Gg Ar Pc; Warming-Blurin, Er Mi Gr. Bk S; Warrick, Benjamin William, H: Washington, Hilds Annie, Eg Ar Rh S: Wassen, Elizabeth Carolin, Eg H: Watkins, Gendrey Morgan, Eg R Gg Ar; Watson, Joan Elizabeth, Ar U: Watson, John Alexander, Rk; Watson, Maris, Eg R Ar C Br; Watt, Country, Rk; Watter, Marjorie Thelms, Ek S Tp; Weidenback, Weiter, Marjorie Thelms, Ek S Tp; Weidenback, Marjorie Thelms, Marjorie Th Hilds, He Ge Ar; Weir, Beryl Aless, Ma Ha ha To To Weller, Charles Harry, Ol Bk; Weller, Kendeall Raymond, Eg R Gg Ac Be; Wells, heats Hamphico, Eg F Hx Gg Rk; Sest, Warran Matrille, Gc Ar Ma Hk; Whendon, George Gerald. Wheelers, Wanter Herbert, Tpt; White, Wonder Lacrosse, C. White, Name Winifred, Ep. II Ma; White, Willed Turker, Ar Ma 8; Whitemer, Kathlenn Wood, Gl; Whither, Ar Ma H; Whitemer, Kathlenn Wood, Gl; Whiteen, Regionald Lawrence, Ar Ma Pr; Whiteen, Spiller Patrick, Ma II. Whiteen, Claude Raymond, Mr II. Whiteen Claude Raymond, Mr II. Whiteen Command, Ar; Wisking, Engered bean Morroson Command, Ar; Wisking, Engered bean Morroson Command, Ar; Wisking, Engered Williams, Rg. L Y! Ar; Wicks, William George, Mr Williams, Rg. L Y! Ar; Wicks, William George, Mr III. Williams, Rg. L Y! Ar; Wicks, Williams, George, Mr III. Williams, Review, Louise Productick, Rg; Williams, Margaret Deprinter, Louise Productick, Rg; Williams, Margaret Deprinter, Rg Ar III. Williams, Review Rev. Ft; Williams, Rev. Rd. Williams, Rev. Rd. Williams

Soroce Dupline Dure, Gl Bt; Williams, Flate. tay, Or S; Williams, Geoffrey Norton, Ma C; Williams, Harry Clarke, Bk; Williams, Heather Rells, Fg Gg Ar; Williams, Jean Ferguson, Kg L Gl III; Williams, Melville Stnart, Fg Gg; Williams, Negla Elvelyn, M; Williams, Raymond Chaptler, F Pc; Williams, Alfred Tucker Dutin, Ar Pel Willio, Gerty Annie, Bk Tp; Willoughby, Lasey Excelt, Ft B Ar Pl; Willshire, Phyllis Claire, Ec F H Gg; Willsmore, Marjorie May. to H Bt PI; Wilmsburst, Phyllis Claire, To Wilson, Era Nellie, Gg, Tp; Wilson, Margaret Moley. Er L Ff H Bt: Wilson, Norms Rac, L B Ar Ma Pe; Wilson, Percival Edwin, 8; Wilson, Mavin Grace, Est Et Bk; Winnall, Wilson, Er; Winfer, Ella Eileen Roeven, S; Wirth, Hebert Victor, Er Gr Ar Ma; Wood, S; Wirth, Hebert Victor, Er Gr Ar Ma; Wood, Neville, Neville, Many Neville, I. Ar Ma; Woodsonk, Neville,

Yater, David Frank, Ma Gi: Yates, Harold Gooffrey, Re Ar Po! Yolland, Freda Elimbeth, Re Ge Ex: Yelland, Luie Eldrick, L Ar Ma Po G: Young, Martin, Po: Young, Ruby Nell, Ex

Zanker, Olive Irene, Eg L F H Pc.

News 29/1/55.

Sir George Murray (Chief Justice) has been granted eight months' leave of absence from February 26 for the purpose of visiting Great Britain. He will sail by the R.M.S. Osterley on February 5. He will be accompanied by Miss Murray. Mr. Justice Poole will be Acting Chief Justice during Sir George Murray's absence, and Dr. F. W. Richards (Crown Solicitor) will be appointed acting judge. Mr. A. J. Hannan (Parliamentary Draftsman) will undertake temporarily the duties of Crown Solicitor.

News 29/1/25.



Dr. E. Angas Johnson

absence on leave of Dr. B. H. Morris (Inspector-General of Hospitals).

Adv. 31/1/25.

There was a large and representative gathering of members of the legal profession at the South Australian Hotel on Friday evening, on the occasion of a dinner to say farewell to the Hon. Sir George Murray, K.C.M.S., Chief Justice, on the eve of his departure on a vacation abroad. The Attorney-General (the Hon. W. J. Denny) presided. Among those present were Mr. Justice Poole. Mr. Justice



Sir George Murray.

Napier, Mr. Justice Roberts, of Darwin, in its palmiest days. In fact, every four the Hon. Sir Josiah Symon, R.C.M.G., years the production from agricultural and K.C., Mr. Commissioner Mitchell, the pastoral pursu ts of Australia is greater Hon, P. M. Glynn, K.C., Messrs. Paris in value than the whole Australian out Nesbit, K.C., E. E. Cleland, K.C., W. put of minerals—gold, coal, copper, rine, and so on—for the past 75 years. J. Isbister, K.C., F. V. Smith, K.C., Dr. There is this difference between the minerals. F. W. Richards, K.C., Mr. T. S. O'Hullo- and the wheat field. With a mine the ran, K.C., the Hon. Sir Henry Barwell, more wealth extracted from the soil, the K.C.M.G., Mr. P. E. Johnstone (vice-less remains for the shareholders, With president of the Law Society), Messra. 11, agriculture, if carried out in conformity K. Paine, S.M., G. W. Halcombe, S.M., wealth from the soil by cropping the more E. M. Sabine, S.M., L. H. Haslam, S.M., wealth remains to be divided among the and W. L. Stuart, S.M. (Master of the community, for with proper methods of Supreme Court). Among those who apo-logised for their inability to attend, owing as the years roll by. This basic fact my to absence from the city, were Mr. Just be illustrated by considering the yields of tice Angas Parsons, Mr. A. W. Piper the wheat crop. For example, in Ve K.C. (president of the Law Society), Mr. toria the average yield per acre for the President Brown, Mr. Deputy President past five years is 14 bushels. The average Hewitson, and Messrs. W. J. Hinde, S.M., yield per acre for the previous 10 years and H. M. Muirhead, S.M. After the (1900-1910) is but 81 bushels. Hence, in loyal toast had been honored, the Attor-stead of the soil being depleted, we are ney-General proposed the toast of "The actually producing 60 per cent, more what Hon. Sir George Murray," to which his per acre now than was the case 10 years Honor responded. Several vocal and ago. The wheatfields, the pastures, and elocutionary items were rendered by mem-the stock are our greatest source of wealth. bers of the profession.

Register 31/1/25

AGRICULTURAL EDUCATION AND RESEARCH.

Importance to the State.

Address by Dr. A. E. V. Richardson, M.A., Before the Rotary Club.

President Garfield once said:-"At the head of all the sciences and arts-at the head of civilization and progress stands not militarism-the science that killsnot commerce—the art that accumulates wealth, but agriculture, the mother of all industry and the maintainer of human life." Agriculture, ndeed, is the foundation of trade and industry, and the riches and material prosperity of the State. Australia is a comparatively young agricultural country. Our history as an agricultural community does not extend back much more than 60 years for a small portion of the continent, and not more than 30 years for the greater part of the area under cultivation to-day. In the circumstances a total agricultural and pastoral production of over £250,000,000 a year was highly creditable for a population of 5% millions. In 1900 the value of primary production was less than one-third of what it is to-day.

Progress in Wheat Raising. In no branch of primary production has progress been more marked than in the raising of wheat. To-day approximately 10 million acres were cropped, and the

production ranged from 125 to 150 miles ourhels. Notw thatanding the fact of during each dreade the wheat belt he been pushed further back into drier ar poorer country, the average wheat yield were steadily increasing Owing to the discoveries of the scientist, the practice farmer, and the implement manuscript methods had been gradually but surely in proved; and in Victoria, as a result these developments, the average when yield during the past 20 years had been increased from 81 bushels to mently bushels to the acre. This progress he been the more remarkable when one cor siders that it was during this period the the mallee country, occupying the times portion of Victoria, has been opened up.

Mining and Agriculture.

Seventy-three years ago the attention of the world was rivetted to the remarkable rich gold discoveries in Ballarat an Hendigo, in V ctoris. In the 10 years in tween 1851 and 1861 the population of the State increased from 97,000 to 541,000, a increase in one decade of nearly buy million souls. The immigrants draw from all parts of the world were lured by won from the soil. These 10 years were the most fruitful and prosperous in the history of goldmining in Australia, perhapin the world. The total wealth won ! the decade was nearly £100,000,000, m average of £10,000,000 yearly. Since the the mining industry in Victoria steadill declined, until to-day its value is approxi mately £500,000 per annum. It was, however, the goldmining industry that was responsible for the rapid settlement an development of the State, and it laid th foundations of permanent prosperity These sources of wealth have practical dried up. But to day we have in ou agricultural industries cources of wealth which, unlike mining, will never dry u and which are already producing more than 10 times the wealth that mining care The annual product on from these sources execeds £25,000,000 per annum-a magnit cent return from a total population of 5.

What Science Has Done. Before discussing in deta I what has been done in the wheat industry let me first attempt to give you a few illustrations of the effect of simple scientific discover esin increasing the volume of production. One of the most interesting cases is the far-reaching effect of the discovery by Liebig that the insoluble tribasic phosphate found in bones and natural rock phosphates could be converted into water soluble phosphate by treatment with sulphuric acid. Liebig, in his report to the British Association in 1840, suggested that this would be a suitable form in which to apply phosphoric acid to crops. S'r John Lawes, of Rothamsted, was the first to profit by this discovery, for he not only tested the efficacy of dissolved bones in his famous experimental plots, but began the manufacture of superphosphate from rock phosphate in 1842, and thus laid the foundation of a large fortune which he subsequently made and devoted to amicultural research. Since then the practice of using superphosphate has spread to every agricultural country in the world, and in no part of the world are they valued more highly than in Australia.

million.

They are now regarded as essential for the successful growth of wheat, and it is to the credit of Professor W. Lowrie th Australia was the first State of the Commonwealth to recognise the value of these manures and to use them extensively. It is difficult to sav just what influence superphosphate has had in wheat production in Australia. At a conservative estimate. the increase in yield due to superphosphate is at least a bag to the acre over the whale of the area sown to wheat. The value of this increase, with wheat at 5/bushel, is £7,500,000 a year, At present the amount of superphosphate used in Australia is, roughly, 400,000 tons worth over £1,500,000-practically all of which is manufactured in Australia. The freight on the extra wheat produced by the superphosphate in Australia is at least fibrica per annum. Hence this simple discovery of Liebig is worth £500,000 a year to the Railway Departmen of Australia in extra freight, £1,500,000 to the manufaturers of superphosphate, and 57,300,00 a year to the farmers. Superphosphal is destined to become even more my lant to our economic welfare, for the