

beautiful garden of flowers was produced in the process of the distillation of excessively pure water by Mr. Bayes, and Mr. Scott showed how the conductivity of various acid solutions was measured, and the acid strengths compared. Mr. May was in charge of the Geissler tubes in the dark room, and the use of mechanical shakers in the determination of the solubilities of various gases and solids was demonstrated by Mr. Terrill. In the organic chemistry laboratory various types of products and apparatus were exhibited, and experiments conducted dealing with combustion.

### Botany and Geology.

In the botanical department a series of demonstrations was given illustrative of the life processes of plants, and specimens were exhibited of plant diseases common to South Australia. Photographs were on view of the Koonamore vegetation reserve where the saltbush flora is studied, and in another room the method was shown of preparing serial sections for microscopic slides with the rotary microtome. The demonstrators in the botanical section includes Messrs. M. Jacobs, B.Sc., T. B. Paltridge, F. M. Bailey, and Geoffrey Samuel, B.Sc., and the Misses E. D. Macklin, B.Sc., and E. B. Oroek. The Tate Museum, with its rocks, minerals, and fossils, was also inspected, and slides were prepared for the microscope from slides less than one thousandth of an inch thick. A Goldschmidt two-circle goniometer was also on view for the morphological study of crystals. In the geological workshop there was an exhibit of the technique of preparing transparent thin slices of rocks for microscopic study. The forestry museum was also visited and the collection of Australian timbers examined, with the various articles manufactured from them. The anthropological museum claimed its votaries who examined the photographs and illustrations of aboriginal culture.

### The X-Rays.

The X-ray apparatus as used for diagnosis was shown in operation, and many visitors availed themselves of the opportunity of seeing the bones of their hand on the fluorescent screen. Radiographs were taken of the hands and a number of people arranged to obtain copies as a memento of the occasion. Mr. G. R. Fuller was in charge of the demonstration, and he had the assistance of Messrs. Blewitt, Hoaking, McPherson, and others. Phonic wheels, a large electro magnet, and an optical pyrometer were among the wonders and delights displayed by Messrs. D. H. Slee, A. H. Chapman, and E. R. Lawson, respectively. Special applications of oscillating valve circuits were demonstrated by Messrs. N. Stuart and W. Honnor, assisted by members of the University Wireless Experimenters' Club. The spectra of various gases and vapours were demonstrated by Messrs. F. W. Wagner and C. Bartholomaeus, and an optical method of testing the degree of the flatness of a polished surface to within one millionth of an inch, and the beautiful colours and soap films made fascinating dark-room features, while the apparatus room housed a number of meters for the measurement of electrical precision and various machine tools, in charge of Mr. C. R. Paul; and the liquid air plant, in charge of Mr. F. J. Wauchope.

### Engineering and Physiology.

Numerous testing machines were in operation in the mechanical department, and planimeters and microscope were also shown. The electrical demonstrations included the spinning table, the floating ring, the musical arc, and electric welding. Dr. F. McCoy Hill had charge of a family of blue mice, a curious result of dye feeding, and also showed microscopic slides of blood cells. Mr. W. Fuller and assistants demonstrated the separation of the blood corpuscles from blood by centrifugal force, and showed the structure of tissues under the microscope. Miss L. Baker showed some chemical components of the brain, and Miss Green demonstrated the heat values of foods. Professor T. Brailsford Robertson illustrated the manufacture of insulin, and Miss M. C. Dwyer demonstrated sugar in the blood and ultra-violet light. Mr. H. R. Marston had various exhibits illustrative of the digestive processes, vision, breathing, and blood circulation; and Dr. C. S. Hicks showed the spectrographic analysis of molecules and other matters of physiological interest, including the thyroid gland. Various other exhibits in zoology were shown by the Misses E. W. Deland, M. Small, F. Ehmcke, M. Johnston, and Mr. N. Bateman.

## THE SOCIAL SIDE.

By Lady Kitty.

Thoroughly enjoyable and most fascinating in its variety of entertainment was the conversation at the Adelaide University on Saturday evening, to which the Chancellor, Vice-Chancellor, and Council had invited 15 hundred guests. The Chancellor (Sir George Murray), Vice-Chancellor (Professor W. Mitchell), and Professor Rennie received the guests in the Elder Hall, half of which was screened off, and the other half converted into a reception room, set with chairs and small tables, strikingly decorated with square green tubes filled with amaranth, blue, and scarlet along smaller bowls

of Iceland poppies and tall palms. During the reception Mr. Tom King at piano and Miss Foglio violin performed gay music. Through the room guests passed and out into a covered way, draped with flags and adorned with Japanese plum blossom and brass bowls of white erica, which led to the University building, where demonstrations of work and other interesting happenings were taken place. It was a wonderful night—clear and calm—and from the old building guests walked across the grounds to the new Darling and engineering buildings. Places of wonderful equipment. Supper was served in a huge marquee draped with flags, and centre poles grouped with Japanese bamboo. The tables were decorated with almond and Japanese plum blossom in tall vases, and low bowls of pink and fuchsia coloured sweet peas.

It was a colossal party, the points of interest spread over a wide area, but the whole thing was a triumph of perfect organization under the direction of Professor T. G. B. Osborn. Everybody knew exactly where to go to see the things they were specially interested in, for large printed sign cards with pointing arrows were placed in prominent positions it was all so clear nobody could miss them or go wrong. The feminine influence as to the decorations, supper, &c., at the jubilee functions is centred in Lady Mawson. Mrs. T. G. B. Osborn, Mrs. E. Harold Davies, Mrs. Kerr Grant, Mrs. Prescott, and Mrs. Darnley Naylor.

At 8.15 p.m. Dr. Harold E. Davies announced the arrival of the viceregal party by a very stirring rendering of the National Anthem on the organ. With His Excellency the Governor was Lady Bridges, in autumn red crepe de chine, with gold applique on skirt; coat of gold and coloured lamay with black fur. Miss Alvalde Bridges, in a coat of silver lamay over her evening frock. Mr. Leigh Winsor was in attendance. After being received they joined Miss Murray, in black with a touch of pink, bronze, and cream sequin trimming. Sir William Cullen (Sydney). Lady Cullen wearing a floral ninoon coat over a black frock, Sir John MacFarland (Melbourne), and Mrs. H. H. Dutton in a cream and gold toilette, and with Sir George Murray, Professor Mitchell, and Professor Rennie the party went off to enjoy some of the many interesting events on the programme, calling in to hear Sir Douglas Mawson's lecture first of all.

One set out on a voyage of discovery to enjoy all the absorbing things set out for the entertainment of the guests, and thanked Heaven that the eternal dance programme was, for once, non est. There were such wonderful things to see and learn from. "I've never felt such a fool in my life" said one of the guests after trying to assimilate just a few of the marvels in the new engineering building, to be formally opened on Tuesday. But there, one cannot know everything, and for many of the guests this glimpse of University work was like entering an entirely new life. How absorbing it all was. In the botany section, for instance, there was a charming looking girl seated in front of a small wildly whirring machine, from which she daintily drew by two pink-tipped fingers a narrow white strip of something that looked like lingerie ribbon, but really was onion being cut for microscopic purposes. In another department one saw the sensitive flame, a long graceful jet of gas spouting up like water from a fountain, so sensitive to sound that when some one shrieked at it down it fell. It gas is as sensitive as that the wonder is that in this noisy age it ever burns at all. "Come and see your skeleton," some one said, trying to persuade the writer to go into the perfectly equipped X-ray department. One demurred, it seemed too much like hurrying the Great Reaper! The Cathode ray and oscillograph drew one's attention, but the Porosity tester sounded more attractive, the candid shriek of laughter from the brainy young man in charge rather dashed one's enthusiasm. It wasn't a weighing machine after all.

One's enthusiasm and the vast amount of ground covered soon made for tiredness, so one paused at the Fatigue tester, but it was nothing to do with human tiredness. Doesn't it seem wonderful that steel can grow tired just as we do, and after being laid aside for a rest comes out perfectly refreshed? That's why men always have so many razors, when one gets tired they give it a rest cure. Frightfully interesting, and so appallingly useful is the laboratory where research is going on that will do much to relieve human suffering from the dread disease of cancer. It is so wonderful how it is all done. Eight hundred white mice are doing their bit in helping to relieve the world of this horror. The life cycle of a mouse is only three years, and they are being experimented on with foods, showing nutrition as related to growth, and also to the cancer problem. There in a cage were about a dozen of the little restless white and pink creatures, in the next compartment they were no longer white and pink, but white and blue, yes, really delphinium blue, noses, ears, paws, and tails. Poor little heroes! One passed on to a cage with a lovely white mother rabbit with pink eyes and pink tipped ears, and a family of the most adorable little white bunnies. So big and fat, and rather sleepy, not in the least realizing that she is rendering humanity service such as soldiers receive the Victoria Cross for. And so one went on to other points in which one was keenly interested as most of the guests were. It was a wonderful gathering, almost every section of the community being represented. Invitations had been issued to members of the University Council and ladies. Sir George Brookman, Sir Joseph

Verco, Sir Langdon Bonython, Professor Chapman, Professor Darnley Naylor, Professor Rennie, Dr. F. S. Hone, Dr. Helen Mayo, Mr. Justice Poole, Mr. W. R. Bayly, Mr. W. G. T. Goodman, Mr. E. W. Holden, Mr. W. T. McCoy, Mr. A. Grenfell Price, Mr. W. J. Young, Mr. E. Anthony, Mr. L. C. Hunkin, Mr. E. J. Shepherd, Hon. W. H. Harvey, Hon. T. Pascoe.

Members of the Ministry, members of Parliament, Judges, Prime Minister, S.A. Federal members of Parliament, Lord Mayor and Lady Mayoress (Mr. and Mrs. Wallace Bruce) and members of the corporation, members of University faculties and boards, members of University staff, members of Public Library Board and staff, Council S.A. School of Mines and staff, Hospital Board, State Public Service, State Education Department, Medical Board of S.A., S.A. School of Arts and Crafts, tutors and members of W.E.A., members of Chambers of Commerce and Chamber of Manufactures, members of S.A. Cricket Association, Royal Agricultural Society, Royal Society Council, Returned Soldiers' Imperil League, District Base Commandant, District Naval Commandant, heads of religious denominations, including Bishop of Adelaide (Right Rev. Dr. Nutter Thomas), His Grace the Archbishop of Adelaide (Right Rev. Dr. Spence), President Methodist Conference, Moderator Presbyterian Assembly, Chairman of Congregational Union, Chairman of Baptist Union, Chairman of Church of Christ Conference, Commandant Salvation Army, Jewish Rabbi, President of Council of Churches, Head teachers of boys' and girls' secondary schools, committee of Stock Exchange, bank managers, executive of United Trades and Labour Council, members of Pastoralists' Association, members of Vinegrowers' Association, members of Commonwealth Public Service, members of State Council of Science and Industry, members of Pharmaceutical Society, members of Dental Board, President and council Institute of Architects, President and council Institute of Accountants, members Royal Geographical Society, Commissioners of Railways, representatives from Municipal Tramways Trust.

Benefactors to the Adelaide University—Mrs. J. R. Corpe, Lady Duncan, Mrs. W. Hughes-Duncan, Misses Eva and Lily Waite, Mr. J. Hayter Reed, Dr. R. H. Marten, Mr. and Mrs. A. A. Simpson, Mr. and Mrs. F. N. Simpson, Hon. H. and Mrs. Homburg, Mr. and Mrs. T. E. Barr Smith, Mr. and Mrs. T. O'Halloran Giles, Mr. and Mrs. Harold Darling, Mr. and Mrs. Leonard Darling, Mr. Norman Darling, Misses G. and G. Darling, Mrs. G. A. Jury, Miss Jury, Mr. C. R. Jury, Mr. C. H. Angus, Mr. and Mrs. A. J. Murray, Mr. and Mrs. Harold Fisher, Mr. and Mrs. F. J. Fisher, Mr. F. W. Bullock, Mr. E. S. Hughes, Mr. O. A. P. Tonkin, Mr. S. Talbot Smith, Mr. J. T. Mortlock, Mr. A. J. Raven, Miss Julia Stuckey, Miss Ella Stow, Mrs. John Bagot, Mr. and Mrs. W. H. Bagot, Miss E. M. Higgins, Mrs. Davies Thomas, Mr. F. H. Clark, Mrs. James Gartrell, Mrs. Robey Fletcher, Mr. A. S. Hawker, Mr. C. A. Seales, Mr. H. D. Gell, Mr. and Mrs. K. D. Bowman, Miss Caroline Jacobs, Mrs. J. J. Jefferis, Mr. A. J. Roberts, Mr. S. Wilcox, Mr. A. E. Hamilton, Mr. J. P. Henderson, Miss Wilcox, Mrs. John Gordon, Mr. S. S. Ralli, Mr. J. Leon Jona, Mrs. T. R. Scarie, Lady Stirling, Miss Stirling, Lady Goode, Mr. and Mrs. H. W. Lloyd, Mr. M. L. Mitchell, Professor G. C. Henderson, Mr. J. R. Fowler, Miss Farr, Mr. F. Downer, Mr. C. F. Rischbieth, Hon. W. G. Duncan, Mr. G. J. Cowie, Mr. and Mrs. Harold Hughes, Mr. Frank Giles, Sir Joseph and Lady Verco, Mrs. F. Makin, Mr. and Mrs. H. H. Dutton.

In the ever-moving throng were the Premier (the Hon. J. Gunn), the Chief Secretary (Hon. J. Jelley), Sir Henry Barwell, Lady Barwell, in black georgette embossed with chenille and edged with fur; Sir Josiah and Lady Symon, Sir Joseph and Lady Verco, Sir William Sowden, Sir Langdon Bonython, Mr. J. L. Bonython, Mrs. J. L. Bonython in black georgette and lace; Lady Mawson, in flame chenille embossed on georgette; Dr. Violet Plummer, pillar box red georgette and gold lace; Professor and Mrs. T. G. B. Osborn, Professor and Mrs. Prescott. Miss E. Plummer wore a cloak of black and silver tissue over her frock. Miss Rennie was in white with a touch of pink; Miss A. Rennie wore black; Mrs. E. Harold Davies, black chenille, embossed georgette and gold lace; Miss Ina Davies, Judge Mitchell, Mrs. S. J. Mitchell in black, Archdeacon Whittington (Tas.), Mr. and Mrs. Wheadon, Miss Aldersey in blue chiffron velvet, Dr. Jethro Brown, Mrs. Jethro Brown in grey georgette, Mr. Hills, Miss K. Kyffin Thomas, in black georgette with a fringed shawl of Madonna blue crepe de chine; Miss V. de Mole, dead-leaf brown and white silk; Mr. Herbert Phillips, Mr. E. Stokes, Mrs. Stokes in silver lace, Mrs. Robey Fletcher, Dr. R. Thorold Grant, Miss Nancy Lewis, Mr. Wallace Packer, Mr. and Mrs. S. A. Roach, Dr. Gertrude Halley, in grey crepe de chine, Miss McPherson, Rev. G. O'Neill, Mr. A. G. Price, Mrs. A. G. Price in black with pink crepe de chine shawl, Mr. Charles Hayward, Mr. and Mrs. Matters, Mr. and Mrs. Jack, Miss Gillman, Miss Harvey, Miss Stevens, Mr. A. J. Walkley, Mrs. Walkley in mauve georgette, sequined in silver, Gen. Price Weir, Mrs. Price Weir in silver grey, Mr. A. N. Roupell, Mrs. Roupell in black satin with wrap of white fur, Mrs. Alderman, Miss Cook, Miss Verco, Miss Stow in black with red crepe de chine shawl, Miss Tomkinson in black.

The Bishop of Adelaide (Right Rev. Dr. Nutter Thomas), Mrs. Nutter Thomas in

black with a touch of gold and blue, Miss Daley, Professor Darnley Naylor, Mrs. Darnley Naylor in black jetted net with lace shawl, Dr. Russell, Miss Russell in black, Rev. Brian Wibberley, Mrs. H. H. Wagr, Mr. and Mrs. E. A. Smith, Mr. W. Champion Hackett, Misses Hackett, Dr. and Mrs. Ray, Miss Maude Paddy, in black velvet, Mr. and Mrs. Eardley, Mr. and Mrs. Shierlaw, Miss Higgins, Miss Verco, Miss Caterer, Mr. Tregenza, Mr. and Mrs. Burgess, Mr. and Mrs. R. Nesbitt, Professor Wood Jones, Mrs. Wood Jones in black lace, Misses Chimes Ross, Mr. W. H. Foote, Mrs. Foote in cinnamon crepe de chine, D. and Mrs. W. A. Hargreaves, Miss Cynthia Hargreaves, Mr. C. R. J. Glover, Mrs. Glover in gold lace over camay edged with fur, Miss Lamb, Mrs. H. P. Beaver, Mr. and Mrs. Reimann, Mrs. Napier Birks, in fuchsia georgette with lace scarf, Dr. and Mrs. Cooke, Mr. C. A. Seales, Mrs. Seales in petunia, and Miss Seales in pink, Mr. Robert Burns, Mrs. Burns in black, Commander and Mrs. Louden Shand, Mr. and Mrs. Talbot Smith, Mr. A. S. Blackburn, Mrs. Blackburn in pink and silver, Dr. and Mrs. Shorney, Miss Stirling in black beaded in silver, Dr. H. Mayo, Miss Cussen in white lace, Miss Rita Cussen, floral ninon, Mr. Russell Booth, Mrs. Russell Booth in black and silver over jade green, Mr. and Mrs. Percy Trevor, Mr. E. H. Bakewell, Mr. Acott, Mrs. Acott in delphinium blue georgette with gold lace godets on skirt, Mr. Holdaway, Mrs. T. R. Bowman, Misses Marryat, Mr. W. R. Bayly, Miss Bayly in pink georgette, Mr. and Mrs. W. A. Magarey, Dr. and Mrs. Goldsmith, Mr. and Mrs. Adamson, Dr. and Mrs. Hicks, Mr. and Mrs. Churchward, Professor A. L. Campbell.

Dr. J. B. Gimson, the Attorney-General (Hon. W. J. Denny), Miss Denny, Dr. and Mrs. B. H. Morris, Mrs. and Miss Solomon, Dr. Florence Hill, Miss Hill, Col. Vaughan, Professor Wallace, Mrs. F. Magarey, Mr. Frank Wyatt, Mr. and Mrs. J. C. McDonnell, Mr. Syme, Dr. and Mrs. Richards, Mr. and Mrs. P. Bevan, Dr. Gault, Mr. and Mrs. Spiller, Mrs. Hubbe, Mr. and Mrs. A. Simpson, Professor Ross (W.A.), Mr. and Mrs. H. Thompson, Professor Chapman, Dr. and Mrs. W. T. Hayward, Mr. and Mrs. W. J. Mason, Dr. and Mrs. Counter, Mr. H. W. Uffindell, Miss Uffindell, Mr. John Crampton, Mrs. Crampton, in grey with a touch of blue; Gen. Leane, Mrs. Leane, in black, with azalea pink flowers on a black crepe de chine shawl; Mr. F. Simpson, Mrs. Simpson, in jade-green georgette, beaded in silver; Miss Winifred Scott, Miss E. Wemyss, Mr. and Mrs. Lewis Whittington, Miss Whittington, Mr. Piper, Mr. and Mrs. Anthony, Mr. and Mrs. McKay, Dr. and Mrs. Hone, Mr. and Mrs. J. Creswell, Mr. H. Balch, Mrs. Balch, in black and gold; Miss K. Wickstead, in black georgette; Miss Henderson, Mr. and Mrs. Melville, Miss Christie, Mr. Green, Principal and Mrs. Kiek, Mrs. Austin Hewett, Mr. C. Auctin Hewitt, Miss Holmes, Mr. and Mrs. Pascoe, Misses Bleeby, Mr. and Mrs. P. J. A. Lawrence, Mrs. J. Tenison Wood, Mrs. A. K. Goode, Mrs. Walter Duncan, Professor and Mrs. Kerr Grant, Mr. and Mrs. R. Homburg, Mr. and Mrs. W. T. McCoy, Mr. and Mrs. E. W. Holden, Dr. and Mrs. Pennyquik, Miss Sylvia Whittington, Mr. and Mrs. C. Edmunds, Mr. and Mrs. C. L. Jessop, Mr. George Pearce, Dr. Gilbert Brown, Dr. Marie Brown, Mr. and Mrs. Stanley Skipper, Mr. and Mrs. F. Irwin, Miss Bignell, Mr. and Mrs. E. R. Morgan, Misses Waite, Mrs. Smedley Palmer, Mrs. W. T. Mortlock, Mr. J. Mortlock, Rev. W. H. Johnson, Mr. A. E. Clarkson, Mrs. Clarkson, in black with a touch of rose; Mrs. J. P. Morice, Miss Stephen, Miss Verna Hackett, Dr. and Mrs. T. G. Wilson.

## THANKSGIVING SERVICE.

### BIG CATHEDRAL CEREMONY.

#### BISHOP'S STIRRING SERMON.

One of the features of the University jubilee celebrations during the week-end was a thanksgiving service held at St. Peter's Cathedral on Sunday afternoon. There was a crowded congregation, and the service was most impressive.

A procession was led by the Chancellor of the University (Sir George Murray), preceded by the mace-bearer (Mr. K. H. Boykett). Behind the Chancellor marched the Vice-Chancellor (Professor William Mitchell) and members of the Council of the University, the Warden of the Senate (His Honor Mr. Justice Poole), the Registrar (Mr. F. W. Eardley), representatives of the universities of Australia, and of other parts of the British Empire, Professors and Lecturers of the University, members of the University Senate, and graduates of the University arrayed in order of precedence, the Doctors being followed by the Masters and the Bachelors. The choir and clergy followed by the vergers and cross-bearer, the choir and the clergy in order of seniority, honorary canons of the Cathedral, members of the Dean and Chapter, the Archdeacon of Adelaide (Rev. J. S. Moyes), Canons Jose and Murphy, the Bishop (Right Rev. Dr. A. N. Thomas) and his chaplains.

While the procession entered the Cathedral and passed down the aisle, the organist and choir-master (Mr. J. M. Dunn), played the "March from Scipio" (Handel) and "Choral song" (S. S. Wesley). Upon the entrance of the choir and clergy the