Geg 16-12-25 UNDERGRADUATE HUMOUR.

That was putting the qualifications for a forestry student rather higher than the ing been dissipated with a wanton disreforestry experts generally deemed necessary; and at the Sydney conference they considered it quite enough to demand of a candidate for admission to the forestry school that he should satisfy a "board of examiners" of his fitness. There is no doubt that, as Mr. Poole maintains,

out yesterday, no school from this standpoint could be better located than that of the Adelaide University, which is within easy reach of the forest of Kuitpo, comprising 15,000 acres planted with soft woods and hard woods in every stage of growth, in the

the proximity of a forest must be a

valuable asset to a forest school; but,

as Sir Douglas Mawson pointed

ranges near the city.

Seeing that the standard of instruction at the Adelaide school is as high as that of any British university, that proficiency will qualify for the degree of B.Sc., that facilities for a practical training are afforded by the Kuitpo forest, where the vacation, amounting to four months a year, may be spent in working under supervision, and that, if students prefer, arrangements are made whereby they may spend one or more vacations in the plantations of the other States, everybody, it might have been supposed, would recognise that the Commonwealth had here the possible foundation of a truly national school of forestry, which, with improvements and extensions, nught have been made one of the finest institutions of its kind in the Empire. It is no wonder, therefore, that Sir Douglas Mawson describes as "a bolt from the blue" the decision of the Federal Government to ignore all that has been done by the Adelaide school for the past thirteen years in placing forestry work on a scientific foundation, and to start de novo with another school at Canberra. The decision from every standpoint is denounced by Sir Douglas as a blunder, the less excusable because made "without correspondence or discussion" with the experts and officials whose judgment in this matter should at least have carried some weight. If it is an argument against the Adelaide school that it is situated in a State worse off in the matter of forests than other States, Sir Douglas replies that the lead South Australia holds over all other States in afforestation, having, indeed, a "considerably larger planted area than all the other States together." should have counted for much more than it appears to have done. But if it is essential to the success of a forestry school that the State in which it is situated should present to the student "all the phenomena of importance and interest" to the forester's calling, then, as Sir Douglas points out, no State has the qualification, and it would be necessary to abandon the national school project altogether, leave the various universities irce, singly or in combination, to make such provision for forestry instruction a they can with financial aid from the ling the run-off in the lower reaches of the Commonwealth, such aid perhaps including provision for travelling scholarships, which would render forest schools and areas abroad accessible to qualified students. Sir Douglas has carned the be conserved is capable of application to gratitude of the community by his ad- profitable production, consequently only dress, which is fertile in valuable sugges- where conservational measures fail to cope tions. His mastery of the subject lends with flood problems should these water special weight to his proposal for giving assets be hurried to the sea. a new value to our "heritage in the situations, the roots of trees extending hill," by planting them with soft woods, deep into the ground draw moisture from which would not only enhance their level. Thus forests are of value in drainbeauty enormously, but convert them ing swampy land. into an unfailing source of revenue to the COSTUMENT

Oreg 17-12-25 SOME ASPECTS OF FORESTRY.

"Twin Sister of Agriculture."

Professor Sir Douglas Mawson delivered the annual address in connection with the commemoration of the University of Adelaide, at Elder Hall, North terrace, on Wednesday. Sir Douglas spoke on "Some aspects of forestry in South Australia." Having lectured on stones and fossils throughout the academic year, he said, be felt that a diversion to something living would be more in keeping with the holiday spirit of the season. Forestry itself was becoming a living subject in Australasia to-day. There were indications on every hand of the germination of a "forest conscience" in at least a section of the public. In this turn of the wheel of fortune the forest school of Adelaide University had suffered unde-

The position in Australia is servedly, already serious, this splendid heritage havgard for the future, and at a speed scarcely paralleled elsewhere. Already destruction had gone far, but, in some of the States at least, enactments calculated to retrieve the position are now being administered. Judging by warnings emanating from officers of the forestry services, certain of the best known Australian timbers will, within the next few years, practically disappear from the lumber market. Wood Indispensable.

It has been rightly stressed that, outside food products, no material is so universally used and so indispensable to human economy as wood. Statesmen would do well to divert some of the public energy from over-production along certain lines, and expand in the direction of afforestation, with the ultimate object of eventually rendering the country self-supporting in general timber requirements. For instance, we are suffering to-day from an over-production of currants, and there is little hope of competing in the world markets with this commodity, normally produced under the cheapest labour conditions. Yet the cases in which the currants are packed, although constructed of but the commonest variety of pine, are Why not imported from abroad. grow less currants and more pines? Forests and Floods.

The role of forests in the economy of nature is diverse, exerting many benefitime of the earth." cial influences, which may be entirely overlooked until destruction, having gone far towards completion, introduces new and less favourable conditions. First and foremost is the influence upon the distribution and character of the water-flow. Quoting the French authority Jacquot:-"The layer of dead leaves and humus which carpets the floor of the forest is a soft sponge with an extraordinary capacity for absorption. It absorbs five, six, and even nine times its liquid weight before saturation, when it lets the water seep, drop by drop, to the surface and to the interior of the soil to feed the sub-liercial possibilities; and (2) watershed terannean streams which result in springs, rotection, reclamation, climatic, and hy-The small surplus water which is not lenic forests. Here, in Australia, howretained encounters in its flow innumer ver 'lulled by the 'lotus' of the inexhausable obstacles, trunks, roots, moss, her ble" and with abundant good investments baceous flora, dead branches, dried leaves, or capital, there has been, in the past, and the inextricable lacework of roots. n unwarranted apathy on the part of The flow is divided up, and does not crode rivate individuals in matters appertaining the soil. It arrives at the foot of the b timber production. The public has slope slowly and in small quantities," p to recent times been interested merely The forest is thus a controller of floods, a exploiting the forests. With such an and has been aptly referred to as "the pathy pervading the public at large it sovereign regulator of water-flow." It annot be wondered at that the State is quite otherwise with bare, hilly land, orestry Deparements have, with few exfor there the sudden flood is characteristic eptions, received little sympathy from and for control of the run-off and utilization of water costly dams and reservoirs need to be constructed. The steady progress of deforestation of the Mount Lofty Ranges must strongly affect the run-off. Indeed, the unfortunate results are only too obvious in the ever-increasing number and seriousness of the floods recorded in the lower Torrens River, where it traverses portion of the metropolitan area. No country has a greater interest in water conservation than South Australia, yet that large areas of low grade land suityear by year the holding capacity of our lable for pine forests exist thereabouts. hills is being reduced, and now a great sum of money is to be spent in cutting drains to the sea across the coastal plains. An expenditure largely rendered necessary in order to complete the work of waste All factors, therefore, appear to be fabegun with the depletion of the vegetation of the catchment areas of the water-Much of the sum of about £300,000 proposed to be sunk in improv-Torrens River might be more profitably spent in the construction of reservoirs in the hills, either in the form of dams or forests. It is certain that here in South a depth, and tend to lower ground-water

Cause of Washouts. Next in importance to their agency in controlling the run-off is the service rendered in preventing erosion of the soil This, of course, only applies to hilly areas. It is a matter of common knowledge that when the vegetation is removed from the bed of watercourses with an appreciable grade, erosion proceeds rapidly. we term a washout develops, whereby the soil and subsoil are carried away, thus ruining the land for agriculture and pasure. This destruction once begun may extend rapidly towards the head waters of the streams and up the flanks of the nillsides. In the arid interior of this State, where forests cannot exist, all the firewood. In the hills a great variety in ligher hills are rocky exposures, stripped soil and drainage is available, so that are for want of vegetation to hold the a wide range of tirber species may be oil. In such regions is presented a pic cultivated, including some yielding higher tre of the ultimate stage of soil erosion o be realized in the Mount Lofty Ranges of Pinus insignis. In this connection me Iso, were all vegetation removed. Forunately, a good turf withstands heet-flood erosion on slopes of low rade, but on steeper slopes only been proved beyond all doubt, orest suffices. Deforestation results in he drying up of springs, and the converion of perennial streams to a state of inermittent flow. Floods occur at times if rainfall and torrents tear away and detroy the soils of the hills and, may be, nundate rich meadowland along their ower courses with debris often so coarse n texture and character that the lawands also suffer. Obviously the more nountainous the area the more effective are there activities, but they certainly

s not make the same mistakes. Being prewarned is forearmed.

pply with more or less force to all with

egions. In the older civilized Mediter-

anean countries the lack of appreciation

f the benign offices of forests has resulted

a the destruction of land to an incal-

ulable extent. In this new country let

Other Influences. Our consideration of the value of forests s not complete even when we have reerred to its agencies in building up and nproving the soil, controlling the run-off. reventing erosion and landslips, and the eclamation of wastes. There are other iffuences of national importance. To a nall extent forests appear to be climate ontrollers, at least within their immediate recincts, exerting a beneficial influence rainfall, reducing the temperature in nmer, and slightly increasing it in win-

To some extent frosts are stayed, d the chance of hailstorms reduced. antations of trees are valuable shelter Its from the wind for stock and agriculre. Also they prevent the evaporation water surfaces thus conserving surface ater. Then we must not forget the rgienic and aesthetic aspects. The beneial diversion and health-giving features forests is within the experience of every-There appears to be almost uniersally an accord between healthy human eings and trees. The forest is a reseroir of pure air, and the "poetry and per-

catches no mice."

Control-A State Function. It is clear that the control and mainmance of her forests is a State function great important to the community. he French class afforestation as either bligatory, referring to preventive forests ich as those of the mountains and the and dunes, or optional-relating to poor ricultural land or waste land. It is ivocated by some authorities that delicrate commercial forestry might be left ) private enterprise, whereas State acvities might be restricted to the followig spheres:-(1) The development of comthe Governments of the day. In the political world, forestry has been a "cat that

Supply Forests for the State. The remarkably successful growth of Pinus insignis on sandy lands in the southeast, as demonstrated by areas planted and administered by the Forest Department, indicate beyond all doubt the fitness for pine plantation of at least certain areas in that part of the State. The odds are Other features favourable to south-eastern planting are the low cost of the land, the small amount of clearing to be done, and the general flatness of the situation. vourable for planting for supplying forests. although, on account of remoteness from Adelaide, it is questionable how much of such timber could be profitably transported to the main centre of population of the State. The railway freight charge between Mount Gamber and Adelaide is much the same as the sea freight ruling for lumber between Canada and Adelaide. It seems probable, therefore, that the products of the south-eastern forests, over and above local consumption, will tend to flow towards the fertile south-western district of Victoria. The other outstanding area for afforestation is the higher rainfall region of the Mount Lofty Ranges. lying at the very door of the metropolis. From every part of this area, railway or motor lorry delivery to the centre of consumption can be made at small cost. In the case of pine, the saving in cost of delivery to factory in Adelaide from Kuitpo Forest as against plantations in the neighbourhood of Mount Gambier ranges from 25/ to 40/ a ton, depending upon special features of location. As the production of sawn, marketable timber from a single acre of mature plantation will not amount to less than 35,000 super feet, or 50 tons, in the bone dry state, a saving of from £62 to £100 an acre is indicated on this score, if the produce is to be marketed in the metropolis. It

cannot be too seriously urged that proximity to a large centre of population is supremely advantageous in marketing low value by products, such as thinnings and grade timbers of double the market value be mentioned Pinus nonderosa, and Pig laricio, whose suitability, judging by sults achieved at the Kuitpo Forest

Australian aniversities, in their comparative simplicity, and absence of ostentation or expense, have much in common with those of Scotland. But they have contrived to avoid the intrusion of politics, which causes so much excitement and even riot at each election for "Rector" in Scotland. the other day, for instance, Glasgow was asked to decide between Mr. Austen. Chamberlain and Mr. G. K. Chesterton as nominal head-neither of them having any real connection with it. This

During the night, large quantities of eggs. over-ripe fruit, and hundreds of cods' heads, in addition to large quantities of flour, pease-meal, soot, and ochre, were transferred to the University grounds by the respective parties, and before polling began several conflicts took place for possession of entrances to the voting hall. The undergraduates were soon unrecognisable, their clothes being covered with soot, flour, and other mixtures. Eggs, thrown with unusual skill, made the battle ground one sticky mass, and several students were hurt before an armistice was declared at noon.

is the scene which followed:-

The result, if it matters, was a narrow victory for Mr. Chamberlain. It is difficult to see why this kind of thing should be tolerated; and altogether impossible to imagine its happening in Adelaide, on a contest between (say) the Chief Justice and Mr. Denny. As a matter of fact, even the innocent exuberance of undergraduate processions through the principal streets has been found fault with by some citizens, on the score of vulgarity-an elastic term which takes a varying significance in different minds; what to one would seem vulgar may strike another as harmless buffoonery, and to a third may seem really funny. All young animals must gambol in the sheer enjoyment of life. So long as the gambolling is confined to a procession got up for the purpose, or to a theatre evening thoroughly advertised in advance, it would be ungracious to object to it.

Times change rapidly, and it takes a long memory to recall the scenes of disorder which used to be considered inevitable at the annual Commemoration of our own University. No actual harm was done, but the conferring of degrees was made farcical through being inaudible, owing to constant interruption. The valuable oration of some professorial expert would be fatally interfered with by the whirr of alarm clocks, concealed beforehand in locked cupboards-the scene was the present Library of the University-and nicely timed to go off at the wrong moment. Every degree conferred was accompanied by a running fire of shouted comment. There were two schools of thought among onlookers not directly interested. Some pleaded that young people will always be thoughtless, and this was their one day of the year. Others thought it intolerable that leading citizens should be asked to be present at a pandemonium, that a venerable Chancellor should be deliberately flouted, or that the attaining at last to a degree, as a result of years of hard study, should be made a farcical thing for proud parents and all concerned.

Compromise is the law of life. It seems difficult to credit at this distance of time, but a definite agreement was made with the undergraduates; they were to keep silence for the few seconds while each degree was actually conferred by the Chancellor, and then the official proceedings would wait while they sang such comments, friendly or ribald, as occurred to them concerning the new graduate. Very clever some of these verses were, and each old programme containing them, printed but courely unofficial, must now have historical interest for a number of prominent citizens. However, a compromise seldom endures for long. A new generation of undergraduates arose, knowing nothing of the honourable understanding-They rendered their own programme. but they did not abstain from interrupt-