

furnace; at other times there was a series of explosions that sounded like big guns firing. On some days there were showers of ashes, which were so heavy that they broke the leaves of the palm trees.

When on open ground the lava stream came along like a wall of red-hot rock 30 or 40 feet high, which kept falling away in front as it advanced, but when it came down the deep ravine between Wernerfelde and Retzaffelde, it flowed like a red-hot river moving at the rate of about 2 feet a minute. Mr. Reading threw a big stone on it to see if it would make a splash, but although it was moving and looked liquid, the stone bounded off just as if the lava were solid rock.

Since the outbreak of the volcano no severe earthquake shocks have been experienced, though the house was frequently felt to be shaking and two or three slight shocks were noticed.

Mr. Reading went round the edge of the lava in a canoe where it projected into the sea. He could not approach nearer than about 300 yards on account of the heat. At that distance the sea was so hot that he could not put his hand into it, and dead fish abound.

### University and Educational Intelligence.

**BIRMINGHAM.**—Applications are invited from graduates in medicine of the University, of not more than five years' standing, for the Walter Myers travelling studentship (value 300*l.* for one year) for research in any branch of medicine or pathology approved by the selection committee. The studentship is tenable at any university, laboratory, or other approved institution, and the holder must devote his whole time to research. Full information is obtainable from the Registrar of the University.

**LEEDS.**—A Gas Research Fellowship, value 200*l.* per annum, established by the Institution of Gas Engineers at the University of Leeds for the prosecution of post-graduate research in gas chemistry, has been awarded to Mr. S. Pexton. For the last two years Mr. Pexton has worked in the department of coal gas and fuel industries of the University.

**LONDON.**—Applications are invited for the William Julius Mickle fellowship, which is of the value of at least 200*l.*, and awarded annually to the man or woman resident in London and a graduate of the University, who, in the opinion of the Senate, has done most to advance medical art or science during the preceding five years. Particulars respecting the appointment may be obtained from the principal officer of the University. All applications for the fellowship must reach him by, at latest, October 2.

**ST. ANDREWS.**—The honorary degree of LL.D. will be conferred on the Prince of Wales on the occasion of his contemplated visit at the end of September. There will be no public graduation ceremony.

THE Commissioners of the Exhibition of 1851 announce that Senior Studentships for 1922 have been awarded to the following: Mr. J. S. Buck (Liverpool), research student in chemistry, of the University of Liverpool; Mr. G. T. R. Hill (London), research student in aeronautics, of the University of London, University College, late experimental engineer and pilot to Handley Page, Ltd.; Mr. A. E. Ingham (Cambridge), research student in mathematics, of the University of Cambridge; Mr. J. E. Jones (Victoria), lecturer in mathematics, of the University of Manchester; and Mr. C. E. Tilley (Adelaide and Sydney), research student in geology, of the University of Cambridge. Science Research Scholarships (Overseas) have been

awarded, on the nomination of the institution mentioned, as follows: Mr. J. M. Luck (University of Toronto), for biology; Mr. W. H. McCurdy (Dalhousie University), for physics; Mr. D. F. Stedman (University of British Columbia), for physical chemistry; Miss Marie Bentivoglio (University of Sydney), for crystallography; Mr. J. S. Rogers (University of Melbourne), for physics; Mr. J. C. Smith (University of New Zealand), for chemistry; and Mr. I. Low (University of Stellenbosch), for meteorology.

DR. W. D. HENDERSON, professor of zoology in the University of Bristol, has been appointed Ray Lankester Investigator at the Marine Biological Laboratory, Plymouth.

THE *Chemiker Zeitung* announces that the Society of Friends of the University of Jena has at its first annual meeting granted a sum of 700,000 marks for scientific purposes and 200,000 marks for the assistance of students. Of the first sum, 200,000 marks is for the Chemical Institute.

AN appointment is to be made by a committee of the Royal College of Physicians of London and of the Royal College of Surgeons of England of a Streatfeild research scholar. The scholarship was founded for the promotion of research in medicine and surgery and is of the annual value of about 250*l.*, tenable at the discretion of the committee for three years. Applications, marked "Streatfeild Scholarship," and stating the nature of the proposed research and where it will be carried out, should reach the Registrar of the Royal College of Physicians of London, Pall Mall East, S.W.1, on or before October 2.

STATISTICS for 1920-21 of 93 State Universities and State Colleges have been published by the United States Bureau of Education (Bulletin, 1921, No. 53), under the heads—teaching force, student enrolment, and property and income. Most of these institutions were originally "Colleges for Agriculture and Mechanic Arts," and their agricultural and engineering schools are still far larger than all their other professional departments put together; but nearly all of them have departments of arts and sciences, and seventeen have graduate departments with not less than 50 students each. The largest teaching staffs are maintained in the following universities: California (1016), Cornell (905), Minnesota (837), Illinois (780), Wisconsin (731), Ohio (569), and Michigan (543). Thirty-four other institutions have more than 100 teachers. Of the total number of teachers (about 15,000) one-sixth are women. Salaries of presidents (most of whom are provided with free quarters in addition) range in general between 5000 and 12,000 dollars; those of professors between 2000 and 6000. The student (regular term) enrolments in the seven large universities named above were: 14,445, 5771, 11,282, 8739, 7573, 7584, and 9611. Forty-two other institutions have enrolments exceeding 1000. Women students constitute nearly a third of the total. Besides the regular term students there are some 60,000 summer school students, of whom nearly two-thirds are women. Almost every one of the State universities and State colleges holds a summer school. Endowments exceeding, in each case, five million dollars, are possessed by the Massachusetts Institute of Technology, Cornell University, and the universities of Texas, California, and Washington. It is remarkable that in no less than five States the private benefactions received by the State universities and State colleges during the year amounted to one-fifth or more of their total incomes.