ditioned to the anti-aircraft guns, starting to rip his cage to bits every time they start firing.

As regards wild birds, there is a good deal of evidence that many of the larger kinds are disturbed by the sound of bombs or anti-aircraft fire. With song-birds and other passerines, however, the chief reaction seems to be to aircraft. These are treated as if they were hawks, the birds scattering downwards and crouching to avoid detection. There are two curious exceptions to this: neither robins nor any member of the swallow tribe have been seen to pay the slightest attention to aircraft. The stories of gulls giving warning of the approach of hostile aircraft are presumably based on the same reaction: their keen senses—eyes more probably than ears—detect the aeroplanes a little before they are audible or visible to human beings.

Domestic animals vary individually. Some dogs have what may be called A.R.P. sense, and distinguish perfectly between the alert and the all-clear signals. One cat has been reported in this category; at the alert she comes indoors to take shelter, but when the raiders-passed signal is given she jumps up and scratches to be let out. She is indifferent to mere noise. Other dogs show no recognition of the difference between the sirens' signals. Again, some dogs do not mind the noise of guns and bombs, or even seem to like it, while others are miserably frightened and crawl under the furniture. Some parrots definitely dislike the noise, and scream loudly and hysterically.

EARTHQUAKES OF 19401

FOUR strong distant earthquakes were registered at Kew Observatory during September. They were on September 12, 19, 21 and 22. The second of these was the greatest, having a ground amplitude at Kew of 47 μ , and being estimated at a distance of 17,400 km. The second was at a distance of 6,100 km with an estimated depth of focus of about 390 km, whilst the third, probably distant about 140°, had a depth of focus of approximately 500 km. News from other observatories is awaited before the epicenters and depths of focus can be given with precision.

On September 4, two local earthquakes were felt in Palestine each of which lasted about 10 seconds. No damage has been reported and the shocks were not registered at Kew. It is reported in the press that an earthquake was felt in Copenhagen early on September 28. No damage was reported. Earthquakes are rare in this district and the shock may have been caused by fault slipping in the Sound separating Denmark from Sweden.

The coast of Chile in the neighborhood of Iquique was shaken by a violent earthquake about 6 A.M. (local time) on October 4. Reports of damage and details of the shock are not yet to hand. Chile as a whole is very liable to earthquake shocks, and Iquique has been affected on a number of occasions in the past,

¹ From Nature.

notably on May 9, 1877, when there was widespread destruction due to large sea waves caused by the earthquake in addition to the extensive damage done by the earthquake itself, and on January 23, 1878.

During April, May, June, 1940, forty-seven earthquakes were registered at the Riverview College Observatory, New South Wales, as compared with fiftysix in the first quarter of the year. The observatory is equipped with two Wiechert horizontal 1,000 kgm instruments, one Wiechert vertical seismometer of 80 kgm, two Mainka 450 kgm seismometers and three Galitzin aperiodic seismometers with galvanometer registration, orientated north-south, east-west and vertical. The largest two shocks of the period appear to have been on April 1 when an amplitude of 23 mm was obtained and on May 28 when an amplitude of 22 mm was reached. The shock of April 18 was felt in the region of the Duke of York Islands, New Britain, etc. The shock of May 24 is reported to have had its epicenter in Peru, and the earthquakes of June 18 and June 22 were deep focus shocks. The instruments are occasionally affected by microseisms which are at times severe. The microseisms do not often preclude the accurate reading of the seismograms, details of which are given in the observatory report.

FINANCES OF THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY

In the annual report of President Karl T. Compton, of the Massachusetts Institute of Technology, the finances of the institute are discussed. The institute closed the year with a modest surplus. Of the budgeted expenditure of \$3,333,000, slightly more than 69.3 per cent. was for academic expenses, 26.4 per cent. for plant and administration, and 4.3 per cent. for miscellaneous expenses. The yield on all investments, based on market values as of June 30, was 4.32 per cent. as compared with 3.89 per cent. a year ago.

Financial aid to students during the year amounted to \$434,966, which included undergraduate scholarships to the sum of \$93,830, and graduate scholarships and fellowships reaching a total amount of \$111,618. Loans to students amounted to \$162,843, and \$66,675 was earned through the student employment service.

Commenting upon the institute's placement service for alumni and the graduating classes, Dr. Compton reported that the class of 1940 was more than 90 per cent. placed on September 1, and that the men of this class found employment in thirty different states. A number of those not placed include graduates who are entering private consulting or architectural practice.

Among the urgent needs of the institute are a new building for the department of chemical engineering, the largest in the institute, which is now greatly overcrowded. Plans for such a building have already been