the results of technical progress and to apply scientific knowledge in fire-fighting and prevention. 1930, the International Association of Fire Chiefs has been responsible for a programme of training and development, and in 1937 fireman training schools were organized in connexion with State programmes of vocational education in twenty-two States, in which 5,441 firemen were enrolled. The training programmes include a system of zone or regional schools for training within a wide area; extension classes, chiefly in connexion with a State college or university; short courses or institutes providing three to five days of instruction annually; and local training programmes in the larger cities. Vocational training agencies appear to be of assistance chiefly in the training of instructors or conference leaders; the organization of instructors' conferences; the supervision of training programmes, particularly in the zone schools; the provision of instruction in practical and technical subjects through extension classes or short courses and the supply of literature for instruction and teaching. The bulletin also discusses the methods of assisting a local fire department in organizing a training programme and the possibilities of co-operation with other agencies. Details of the organization and administration of the Massachusetts zone schools are appended and also of the California programme.

Hygiene and Public Health in India

The annual report of the All-India Institute of Hygiene and Public Health, Calcutta, recently issued, summarizes the teaching and research work for the year 1937. Statistical investigations on cholera have been pursued; for example, forecasts of epidemics, and research on variations in the chemical structure and antigenic properties of the cholera vibrio. An inquiry into the nature of an obscure disease, epidemic dropsy, has incriminated mustard oil (much used in cooking) as the causative agent, though what constituent of it is responsible still remains to be discovered. An account of the work of the Maternity and Child Welfare Centre is included.

Tuberculosis in Cyprus

THE National Association for the Prevention of Tuberculosis has published an interim report on the incidence and means of control of tuberculosis in Cyprus ("Tuberculosis in Cyprus", by N. D. Bardswell. M. D. Adlard and Son, Ltd., 21 Hart Street, W.C.I. 2s. 6d.). Tuberculosis was said to be rife in the island and to be increasing rapidly; the assistance of the National Association was requested, and Dr. Bardswell was appointed to conduct an inquiry in the island. A total of 250-300 notifications of pulmonary tuberculosis a year is recorded in a population of some 360,000. If a correct record, this would give a notification rate for pulmonary tuberculosis of less than 1.0 per 1,000 living--not a high rate, for the present rate (1935) for England and Wales is 0.97, and for London 1.27, per 1,000 living. There is reason to think, however, that the notification returns are inaccurate, and do not represent more than

onequarter to one-half of the new cases occurring annually, owing to failures to notify all cases and to inaccuracies in diagnosis. Dr. Bardswell has surveyed the whole island, and the results of tuberculin testing in some districts are given. The report contains a mass of details, and is well illustrated with maps, plans, charts and photographs. It is difficult, however, to gather the actual facts and conclusions from this report of 228 pages, for it contains no table of contents, no index, and no general summary; these omissions should be made good in any further report.

Scientific Uses of Cinematography

The British Film Institute, 4 Great Russell Street, London, W.C.1, one of the objects of which is to collect and disseminate information concerning the use of films for educational purposes, is engaged in compiling a bibliography on the scientific uses of cinematography. Very few books have been written on the subject and the list will consist almost entirely of references to reports of scientific associations and to articles which have appeared in scientific and film journals. The Institute would be glad to receive any information bearing on the undertaking.

Water Speed Record

SIR MALCOLM CAMPBELL set up a new record for speed on water on August 19 with his motor-boat Bluebird II on Coniston Water. The speeds reached over a statute mile in opposite directions were 142.85 and 140.62 miles an hour respectively, the average being returned as 141.74 miles an hour. Sir Malcolm's boat, in the design of which some novel features were embodied, was driven by a twelve-year-old engine intended for practice runs.

Recent Sunspot Activity

The appearance this week of a large group of sunspots serves as a reminder that the sun is still very active though past the peak of the present 11-year sunspot cycle. This sunspot group, in latitude 13° N., crossed the central meridian on August 21.9 and will pass off the western edge of the disk on August 28. The aggregate area of the component spots on August 18 was 1,300 millionths of the sun's visible hemisphere. Since the last note on sunspots (NATURE, July 15, p. 109) a number of fair-sized spots have appeared of area greater than 500 millionths but less than 1,000 millionths. The respective times of central meridian passage (communicated by Greenwich) are as follows: July 17.1d, 17.7d, 20.1d, 23.4d, August 4.3d, 7.3d and 11.1d U.T.

The Night Sky in September

The autumnal equinox on September 23 brings equality of day and night the world over; thereafter (until December 22) the nights increase their duration in the northern hemisphere. The moon is new on September 13 and full (the Harvest Moon) on September 28. Jupiter is in conjunction with the moon on September 1 and 28: Saturn on September 3 and

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