including a provision for a complete exchange of information, which promoted a more rapid advance by bringing us into immediate touch with every development of major importance." The construction of this plant marks the culmination of eight years' work. "The chemists, engineers, metallurgists, draughtsmen, and workers may all be proud when they look at this plant. To name them is impossible, but without being invidious I desire to single out Mr. Kenneth Gordon, who has been in charge of the research work and construction of the plant, and also my colleague Colonel Pollitt, who was the inspiration of our earliest efforts."

Tercentenary of Wilhelm Schickard (1592-1635)

On October 23, 1635, in the middle of the Thirty Years' War, Wilhelm Schickard, a famous German orientalist and astronomer, died of the plague at Tübingen. Schickard was born on April 22, 1592, at Herrenberg, Württemberg. He was educated for the church, and at an early age became known for his knowledge of Hebrew. At the age of twenty-seven years he was appointed to the chair of Hebrew at Tübingen, and in 1631 was made professor of astronomy. He was also an inspector of schools at Stuttgart. In some of his least-known books are to be found early observations on the aurora, an account of the comet of 1623 which caused considerable commotion on its appearance, and his views on the refraction of light and the theory of the rainbow. He was known to both Kepler and Gassendi, and the latter, after he had observed at Paris the transit of Mercury of 1631 predicted by Kepler, wrote to Schickard: "The crafty god had sought to deceive astronomers by passing over the sun a little earlier than was expected, and had drawn a veil of dark clouds over the earth in order to make his escape more effectual. But Apollo, acquainted with his knavish tricks from his infancy, would not allow him to pass altogether unnoticed. To be brief, I have been more fortunate than those hunters after Mercury who have sought the cunning god in the sun. I found him out, and saw him, where no one else had hitherto seen him." Gassendi, in another letter of the same year, gave an account to Schickard of his fruitless efforts to see the transit of Venus.

Work of the Meteorological Office

The annual report of the Director of the Meteorological Office for the year ended March 31, 1935 (London: H.M. Stationery Office. 9d. net), records a further big increase in the amount of information supplied to the public and to aviators, in accordance with a tendency that has been much in evidence for several years. The Aviation Services, for example, report a total increase of 18,747 in inquiries and of 2,404 in weather reports passed to aircraft in flight; in the British Climatology Division 2,348 general or scientific inquiries were dealt with, this figure including 178 legal inquiries, representing nearly a sixfold increase as compared with 1924-25 and nearly a doubling of the volume of inquiries in the past five years. While the main work of the Meteorological Office during the year under review has been on the same lines

as in previous years, certain changes of organisation have been completed. Since the reorganisation after the War, there have been separate divisions for forecasts and aviation, but as experience has shown that this arrangement is not the best from the point of view of efficiency, the two divisions have been combined since October 1, 1934, control of the single large division by a single head, with two senior officers as deputies, being aimed at eventually. The Naval Division has for years been working in cooperation with the Admiralty towards the creation of a weather forecasting service within the Fleet which shall be self-contained but not independent of the State Meteorological Service; that objective has been attained with the expectation of its being in full operation by the end of 1936. Other important changes include a restriction of the responsibility of the Meteorological Office in the matter of gale warnings to the issue of the warning telegrams, the Board of Trade being responsible, as from September 1, 1934, for the exhibition of the warnings and the supply and maintenance of warning cones for that purpose; and the taking over by the Ministry of Agriculture and Fisheries and the Fishery Board of Scotland of the supervision of the stations of the Fishery Barometer and Barograph Service as from January 1, 1935.

THE fusion of the two branches of the Meteorological Office formerly known as the Forecast and Aviation Divisions, referred to above, does not involve any radical change in the system of dealing with weather forecasts and reports in connexion Nevertheless, there have been with aviation. some developments of the existing system. sequent upon the increased practice by pilots of following direct compass courses on flights from Great Britain to the Continent, it was found necessary to alter the position of auxiliary weather reporting stations formerly established to serve the old Continental air routes. This has led to the closing down of the auxiliary weather reporting stations at Farningham, Deal, North Foreland and Sandgate, and the opening of new stations at Leatherhead, Crowborough and Bexhill, and to an increase in the personnel of the meteorological station at Manston Aerodrome to make practicable the issue of reports throughout the twenty-four hours. Another development was the installation at Croydon Airport of a 'ceiling projector'. This is a searchlight arranged to send a powerful beam of light vertically upwards, which enables the height of low cloud over the airport to be measured at night. The measurements are made at the meteorological station itself, and cloud heights are supplied in response to requests from pilots flying at night. Stations newly established within the period under review included one at Abingdon to meet the requirements of Central Area Headquarters of the Royal Air Force, and another similar station at the new Royal Air Force station at Mildenhall (Suffolk). Both these stations have personnel capable of obtaining information about the state of the upper atmosphere and making forecasts. These additions brought the number of local forecasting centres in Great Britain up to twenty-five.