

of 1898 to take charge of the Observatory at Markree, Ireland, in succession to Albert Marth. While there, however, he had few facilities for observational work, other than meteorological readings; but he took advantage of the opportunity of extending his knowledge of theoretical astronomy and kindred branches of science. His engagement at Markree was terminated in 1902 by the death of Colonel Cooper, and he returned to London. For a short time he held an appointment in the clerical department of the University of London at South Kensington. After leaving the University, he made a precarious income by writing articles on astronomy for *Knowledge*, *Scientia*, and other scientific journals, and by giving lectures on astronomy.

Mr. Henkel's contributions to the Society's publications included notes on the partial eclipse of the Sun of 1900 May 28, and on the Leonids of 1900 and 1901. His book on "Weather Science" was published in 1911, and received very favourable notices.

Mr. Henkel died after a short illness on 1913 May 22. He leaves a widow and two sons.

He was elected a Fellow of the Society 1890 February 14.

ROBERT KILLIP was born at Liverpool on 1853 March 4. As a young man he spent a few years in a Liverpool shipping house, after which he went for a short time to Headingley College, Leeds. He commenced his career as a Wesleyan minister in 1875, when he went as a supernumerary to Northwich. He subsequently served three years in each of twelve circuits, including Liverpool, Manchester, Bradford, and Southport. In 1912 he was superannuated, on account of ill-health, and made Southport his home.

Mr. Killip was an able and cultured preacher, and his services, both as pastor and preacher, were highly appreciated. In private life he was somewhat reserved: but when he was once known he won for himself lasting friendships.

Mr. Killip was a devoted student of astronomy. His instrument was a 5-inch Wray equatorial, and with this he made useful contributions to the work of the Jupiter and Mars sections of the British Astronomical Association, of which he was an active member. In 1905 he went to Burgos in Spain, to observe the solar eclipse of August 30, and was fortunate enough to secure a successful photograph of the corona. As a lecturer on astronomical subjects, Mr. Killip was particularly clear, and his lectures, given without notes, were always welcomed.

Mr. Killip had been in failing health for some time, but the end came suddenly and unexpectedly, on 1913 September 2, when he was on a holiday in the Isle of Man. He leaves a widow, a daughter, and two sons.

He was elected a Fellow of the Society 1896 January 10.

THOMAS HENRY LEALE was born in the parish of Myross, County Cork, in 1838. He was ordained in 1878, and was Chaplain of the Lambeth Infirmary for twenty-six years until his retirement

in 1909. Besides his theological studies, he was a constant student of astronomy and derived much pleasure from the meetings and publications of the Society. For the last three years of his life he was a helpless invalid and was quite blind towards the last. He died on 1913 February 1.

He was elected a Fellow of the Society 1906 January 12.

EDMUND LEDGER was born in London in 1841 September. He was educated at the City of London School, and at Corpus Christi College, Cambridge; he graduated as Fourth Wrangler in 1863. He was also University Scholar of London University. He was elected Fellow of his Collège shortly after taking his degree, and remained in residence in Cambridge till 1866, when he accepted the Collège living of Duxford, Cambridgeshire. He was Rector of Barkham, Ipswich, from 1877 to 1898, when he retired,—afterwards spending the winters at Reigate, and the summers at a cottage near Leith Hill, Dorking. Mr. Ledger acted for many years as an Examiner for the Cambridge Local Examinations. He was Professor of Astronomy at Gresham College from 1875 to 1908, where his lectures drew crowded audiences.

He was the author of *The Sun, Planets and their Satellites*, and of several articles in the *Nineteenth Century* on astronomical subjects.

Mr. Ledger was married, but had no family. He died at Reigate on December 18.

He was elected a Fellow of the Society 1876 February 11.

JONADAB MCCARTHY, an Irishman by descent, was born at Cheltenham on 1841 December 15. He was for some time a schoolmaster; but, being a man of great imagination and powers of initiative, he early grasped the possibilities of development afforded by his native town. He was the first to commence alterations to existing property on an extensive scale and to acquire important sites, which eventually became of great value. Mr. McCarthy came to London in 1893, and was afterwards a familiar figure in the meetings of the Society. He took a genuine interest in astronomy, and, being an omnivorous reader, there were but few branches of the subject which he had not studied. He had an exceptionally good memory, and is said to have known Milton's *Paradise Lost* by heart.

At the age of twenty-three he married Emma, daughter of M. H. Goldingham, solicitor. She survives him, together with five sons and three daughters.

He died at West Kensington 1913 October 13.

He was elected a Fellow of the Society 1882 November 10.

FRIEDRICH WILHELM RISTENPART was born in Frankfort-on-Main on 1868 June 8. In early years, while still a pupil at the Gymnasium in Frankfort, he was very much interested in astronomical questions. After leaving school in 1886, he went to the