

small portion of the sun still visible gives so much light that the impression of a sudden transition from day to intense darkness is produced upon the disappearance of this small surface behind the moon. Then silence will reign, except for the calling of the half minutes and the click of the photograph plate holders as they rapidly succeed one another. All danger of fuss and confusion at this critical time will be done away with by frequent preliminary drills and practice in manipulation.

'With the seven or eight observations going on during the fateful period, the spectroscopic work, both visual and photographic will probably be the most important, on account of the help they are expected to bring to the solution of solar problems, both physical and chemical. For instance, one might have expected that the "reversing layer" which gives us the dark Fraunhofer lines upon the continuous spectrum of the sun, would give a series of bright lines when this "reversing layer" alone illuminates the spectroscope. This occurs for the few seconds when the moon passing over the sun, exposes the edge of the latter. This "flash" observation reveals a multitude of bright lines which however do not coincide with the Fraunhofer positions. The satisfactory explanation of this unexpected phenomenon is not yet to be had, but the investigation appears to be of the most important character.

'Another spectroscopic observation is the examination of the solar coronathat bright halo which surrounds the sun somewhat like an atmospherevisible to the unassisted eye only when the body of the sun is eclipsed. The coronal light is partly due to solid incandescent particles which give a continuous spectrum; partly to the reflection of a solar light, giving a faint spectrum, and partly to an incandescent gas, provisionally called coronium, which gives a •haracteristic spectrum, containing a very remarkable green line. A determination of the distribution of coronium A La Carte Dinner in the carona would be considered a very valuable achievement.'

Father Kavanagh, who goes from Montreal by appointment with the government observation party, has been four years in the professorship of Loyola College, coming here from St. Boniface College, Manitoba, where he occupied a similar position. Most of Phone 519 his training in science and mathematics was received in the Old Country. He is proud to be a Montrealer by birth, First Communion and St. Mary's College gets the credit for giving him his early education. When he had decided what his life work would be, Father Kavanagh went to England to pursue his scientific studies. He was attached to Stonyhurst College in Lancashire, for four years, and did Post graduate work at Owens College, Victoria University, Manchester, under the famous Dr. Balfour Stewart. He also visited London. Paris and leading institutions on the Continent in pursuit of astronomical and geological knowledge-for Father Kavanagh is a student of the earth as well as of the heavens, or, to use his own expression he is 'very much interested in both heaven and earth.' But he stoutly denies that he is an authority on the subjects.

In Paris he had occasion to meet Father Algue of the Manila observatory the specialty of which is the study and reporting of cyclones, typhoons and meteorological disturbances, and whose work has been greatly appreciated by the United States government.

'We will no doubt have some strange experiences on our Labrador journey, remarked Father Kavanagh to a 'Witness' reporter in the course of a brief interview on the subject. 'One of the most striking circumstances, to my mind, will be the fact that the spot we shall visit, to-day almost unknown, will be, for a short period, a bustling, tented village. On Aug. 30, for instance, life there will be intense and the next dayperhaps for the next century—the place will be deserted and desolate.'

Our Subscribers will please excuse the smallness of the Northwest Review this week as we are obliged to remove to our new premises at

totality,' says Father Kavanagh, 'the the corner of Princess St. and Cumberland Ave. Next week we will be able to give a bright and newsy paper with a special report of the blessing of St. Charles Church.

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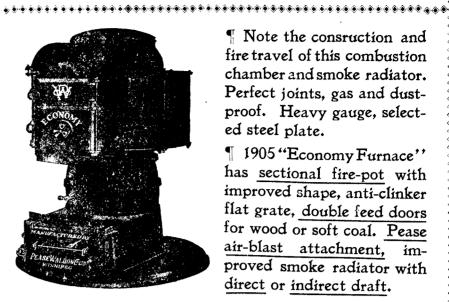
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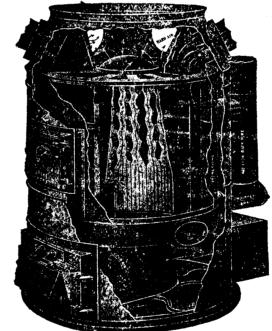
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