

THE DISPATCH.

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The Solar System

EROS

The little planet Eros is much nearer the earth than any of the planets being distant thirteen and one half million miles when in opposition. It is hardly regarded as a planet the term planetoid is more appropriate as it is only about twenty miles in diameter.

The orbit of Eros is so elliptical that it crosses the path of Mars, but since they are not in the same plane there is no danger of their colliding.

This tiny orb was not discovered until 1898 and was found by means of photography, that is, its light left an impression on exposed photographic plate.

A peculiar feature of little body is the variation of brightness. Sometimes it shines very brightly other times its light is dim. The cause and purpose of this change is not known.

Eros is of much to astronomy in getting more exact measurements of the distance of the sun and planets. Its relative nearness to the earth gives a point of reference that is superior to any known distance.

Eros seems out of place according to the name given it which is the Greek word for Cupid. No doubt it was so called on account of its small size but since, he crosses the orbit of Mars there arises an illogical position Cupid nearer the god of war than the goddess of love. We have no power to change this order but we can change a name.

Minerals of New Brunswick

IRON

The iron ore in the County of Gloucester is in the vicinity of Austin Brook a tributary of the Nipisiquit about twenty-three miles southwest of the town of Bathurst. The elevation of the district is from three to five hundred feet. The valley of the Nipisiquit has steep banks over one hundred feet in height.

The rock bearing ore is intrusive in the slates and belongs to a very ancient geological age. The ore is very fine grained siliceous magnetite mixed with considerable hematite and often interbedded with jasper. The metallic ore is from thirty-five to sixty per cent of the rock.

From the report of E. Lindeman M. E. 1913 the total area of the Austin Brook ore bearing district is over three hundred thousand square feet and the borings of the diamond drill shows the ore stratum to be from sixty to eighty feet in thickness. In no case do the shafts exceed fifty feet before reaching the ore and it outcrops along both Austin Brook and the main river.

The iron mines of Gloucester possess ore of both quality and quantity and no doubt will be fully developed in time.

The vast quantities of ore in the old Archean rocks north of the Great Lakes have overshadowed the lesser deposits and the lack of manufacture of iron and steel goods limits the demand in New Brunswick but there will come time when the quantity of this ore will carry it into the world's markets but like all industry it takes time to become established.

Volcanoes

Some of the largest and most important outflows of lava have not been connected with volcanic cones, but have been discharged from fissures, flooding the country far and wide with molten rock. Sheet after sheet of molten rock has been successively outpoured, and there have been built up, layer upon layer, plateaus of lava thousands of feet in thickness and many thousands of square miles in area.

The island of Iceland has been rent from time to time by fissures from which floods of lava have outpoured. In some instances the lava discharges along the whole length of the fissure, but more often only at certain points upon it. The Lake fissure, twenty

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miles long was in eruption in 1783 for seven months. The inundation of fluid rock which poured from it is the largest of historic record, reaching a distance of forty-seven miles and covering two hundred and twenty square miles to an average depth of a hundred feet.

The entire plateau of Iceland a region as large as Ohio, is composed of volcanic products. The lava sheets were outpoured in the open air for peat bogs and old forest grounds are interbedded with them, and the fossil plants of these vegetable deposits prove that the plateau has long been building and is very ancient.

In the majority of volcanoes the lava which rises in the pipe is at least in part blown into fragments with violent explosions and shot into the air together with vast quantities of water vapor and various gases. The finer particles into which the lava is exploded are called volcanic dust or volcanic ashes. The coarser fragments fall about the vent and there accumulate in a steep conical volcanic mountain. As successive explosions keep open the throat of the pipe, there remains on the summit a cup-shaped depression called the crater.

HECLA a volcanic mountain in Iceland stands isolated about twenty miles from the southwest coast and sixty-eight miles east from Reykjavik. Its snow clad summit is 5102 feet high and has five craters. The sides of the mountain are seamed by numerous deep ravines. Fantastic groups of hills, craters and lava leading the eye to distant snow covered peaks; the mist rising from a waterfall; lakes embosomed amid bare bleak mountains; an awful

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and profound slumber; lowering clouds, marks all around of the furious action of the most destructive of the elements, give to the region a character, of desolation scarcely to be paralleled. A record of the eruptions has been kept since the 9th century, during which time there have been eighteen outbreaks. In September 1845 a terrific outbreak occurred and lasted at intervals for more than a year, a fine dust from this eruption was scattered over the Orkney Islands, a distance of 500 miles from the cauldron. The great quantities of fine dust ejected, and the immense distances to which it has been carried, has generally been noted as characteristic of the Icelandic eruptions.

St. Gertrude's
S. S. Concert

There was a large attendance at the concert, in St. Gertrude's hall, on Tuesday night, given by the Sunday School children in charge of the Misses Ella Gallagher, Daisie M. Hughes and Annie Riordan. It was one of the very best performances ever given in the parish hall. About \$70 were taken in from tickets and the sale of home made candy.

The following was the program:--
Opening chorus, by Sunday School.
Eight White Horses, by five small boys.

Flower drill and song, by twelve small girls.
Comedy Sketch,

Dinah Mary Buck
Topsy Louise Karnes
Susanna Wallace Troy
Samba John Troy
Mose Fred Thompson

Important Announcement

\$10. VALUE FOR \$1.00

We have set apart this page of OUR PAPER for a SCHOOL and FARM Section. It will contain SPECIAL INFORMATION along the line of work prescribed for the public school as well as the general principles of agriculture as outlined by the specialists at work on its different branches.

A column will be devoted to questions and answers on points that may arise in school work.

CONTESTS in ordinary school work with SPECIAL PRIZES will be arranged for later. We will make a SPECIAL OFFER to any school applying with a club order of six pupils or upwards.

Here is an OPPORTUNITY to secure the ADVANTAGE of a local paper, and a store of useful information beside.

NEW SUBSCRIBERS and ALL making inquiries respecting this section.

ADDRESS-- THE DISPATCH

Box 296

WOODSTOCK, N. B.

George W. Jones Arthur Brown
John Wyman Vettes Bernard Lavoie
Song, A Perfect Day, Gunner Everett Keating.

Song, Along the Rocky Road to Dublin, Miss Jean Riordan and Mr. Penrose McKinnon.

Drama, Mary Stuart, and her friends. Mary, Queen of Scots, Kathleen Bowlin.

Friends of Mary Stuart:--Mary Seton, Helen Riordan; Mary Livingston, Ruth McManus; Mary Beton, Catharine Murphy; Mary Flemming, Winifred Duck.

Isabel Huntley, a court lady, Maude Dunston.

Margaret Carwood, a young maid of honor, Helen Troy.

Janet, daughter of rebel Earl of Morton, Marguerite McCaffrey.

Sir Robert Morton, son of rebel Earl of Morton, Clifford Fewer.

Henri, a French Page, Basil Fewer.

Willie Seton, brother of Mary Seton, Donald Bowlin.

Scotch Page, Paul Bowlin.

KIRKLAND.

Jan. 19th, 1917.

We are having quite cold weather also blustering.

Patrick Friel, of Monument Settlement received a telegram that his daughter Pauline died in Boston, Jan. 18, 1917 of tuberculous.

perculosis. She had one of her lower limbs amputated something over a year since.

The Misses Laura and Alice Dickinson have taken their departure for Lawrence, Mass.

Willie McNerlin has gone to Lawrence, Mass., for the winter.

Stewart Bustard has purchased a new driving horse.

Mr. and Mrs. Andrew Bustard made a flying trip to Meductic Jan. 18. They went by the Eel River stream to Benton.

Daniel Graham from North Lake, York Co., was in this place on a business trip.

Howard Davis and Stewart Bustard made a trip to Meductic recently.

Lieut. J. H. Flemming has completed his Military course at the Canadian Military school, Crowborough, and has been attached to the Princess Patricia Royal Light Infantry and expects any day to leave for France.

Lieutenant B. W. Harmon, who already had received the D. C. M. for bravery, has now been awarded the Military Cross for a recent brave act. He is the son of Mr. and Mrs. A. W. Harmon of this town.

House For Sale

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ROBERT L. SIMMS
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TO RENT

TO RENT.--Rooms to rent in the Vendome, Queen Street.

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Mrs. E. W. Williams
Maple Shade Farm
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Notice to Water Takers

Notice is hereby given that all persons owing Water Rates must settle the same on or before 18th day of November next or the Water will be turned off.

Per Order Chairman
Water Committee,

H. W. Bourne, A. G. Fields,
Collector. Supt.
Woodstock, N. B., Oct. 28, 1916.

TO INVESTORS

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A commission of one-quarter of one per cent will be allowed to recognized bond and stock brokers on allotments made in respect of applications for this stock which bear their stamp.

For application forms apply to the Deputy Minister of Finance, Ottawa.

DEPARTMENT OF FINANCE, OTTAWA,
OCTOBER 7th, 1916.