CONDUCTED AT BLUE HILL OB-SERVATORY.

Some Enormous Flyers Carry Up Very Delicate Instruments.

Mr. S. F. Cody's recent experiments with his man-lifting kites and his success in crossing the English Channel in a boat drawn by kites have called attention to the scientific use of these minature airships. But there is one department in which kites play an important role, and that is as a suc-Germany and the United States, Robertson says: where kites are daily flown for - securing meteorological and other data. from Dropsy that when I got out of Some of them are under the control bed in the mornings I could hardly Charles Reade. of the respective Governments, while put them on the floor. My arms used others are purely private institutions. to swell at times so that I could not

By far the largest and most inter- put on my coat. esting of these is Blue Hill Observatory, a private station, near Boston, Massachusetts, U.S.A. Here kites may daily be seen far away on the horizon, almost out of sight. The observatory is presided over by Mr. A. Lawrence Rotch, who needless to add, is an enthusiastic kite-flyer. Indeed, he has brought kite-flying to a science. He knows more about kites and their varied use than any other Pills never fail to cure promptly and man living.

HARGRAVE KITE.

The type of kite in general use at the various meteorological stations is the Hargrave, or cellular kite. was the invention of an Australian, Mr. Hargrave, who hails from Sydney. It consists of two light boxes, without tops or bottoms, fastened some little distance one above the other. The wind exercises its lifting pounds was lifted into the air. Six force chiefly upon the front and rear sides of the upper box, the lower box, which inclines to the rear, and so receives less pressure, preserving the balance, while the ends of the boxes being in line with the wind keep the kite steady. Experts declare this type to be the best flyer ever designed.

Curiously enough it was in Britain that kites were first flown for a scientific object-namely, at Glasgow, in 1749. Four kites were sent up, some of them measuring seven feet in length. They were all attached to one line, and their work was to lift a thermometer into the air. It is related that "the uppermiost one ascended to an amazing height, disappearing at times among the white summer clouds, while all the rest in a series, formed with it in the air below such a lofty scale, and that too affected by such regular and conspiring motions, as at once changed a boyish pastime into a spectacle which greatly interested every beholder."

CARRYING INSTRUMENTS.

The kites at Blue Hill, and for that matter at all the up-to-date stations, carry up a wonderful little instrument, called a meteorograph. Virtually it is a combination of a barometer, a thermometer, and a hygrometer, all of which record their readings automatically on one cylinder, turned by clockwork. These little instruments are the invention of M. Richard, of Paris, and are made of aluminium, and weigh three pounds. By six, and even eight kites are often at- which is without teeth. tached to the same line when it is "I can!" cried Reginald, his face desired to lift a heavy instrument in beaming with the pleasure of assurthe air, while there is a record of ed knowledge. twelve kites having been fixed to the same rone.

An interesting device is employed at Blue Hill for bringing down the kites. In design it resembles an ordinary deep-sea sounding apparatus. There is a drum round which the wire is wound by a small steam engine when the kites are drawn in, and another drum for playing out the wire.

STEEL WIRE USED.

It has been found that the pull of 'It was my own experience that For time tables and descriptive folthe kites during ascents is sufficient first led me to advocate Grape-Nuts der, address J. A. Richardson, Disto unreel the wire, which by means food and I also know from having trict Passenger Agent, Northeast of a pulley is deliveryed to the kites prescribed it to convalescents and corner King and Yonge Streets, Toas required, an attached wheel mean other weak patients that the food is ronto. while recording the pull on the line a wonderful rebuilder and restorer of and the length paid out. Mention nerve and brain tissue, as well as A man in trouble is apt to dis-Blue Hill. It is a fine steel music and sick patients always gain just as friendly as they might be. wire, weighs but fifteen pounds to the I did in strength and weight very mile, and is capable of withstanding rapidly. a pull of three hundred pounds. The | "I was in such a low state that I wire is spliced in lengths of more had to give up my work entirely and than a mile with the greatest care, go to the mountains of this state, special pains being taken that no but two months there did not im- fell in love with a pretty widow, and in 1897 the State Bank of Buda sharp bends or rust spots occur which prove me; in fact I was not quite as whose late husband's name was Pesth engraved the radiant countenwould cause it to break. When the well as when I left home. My food Robin. One evening the bachelor ance of Mme. Luise Blaha, the prima kites are to be drawn in a 2-h-p absolutely refused to sustain me and dropped in to have a cup of tea donna, on its thousand-gulden notes. steam engine is called into requisi- it became plain that I must change, with the widow. After tea was tion, and the wire pulled in at a rate then I began to use Grape-Nuts food over she commenced to sing 'Robin of three to six miles an hour.

height from five to twelve feet and weeks returned to my home and husband did have hair, it's no fault more, and are fairly heavy. The practice, taking up hard work again. of mine that I haven't." Then he larger on's contain about seventy Since that time I have felt as well fled. square feet of supporting surface, and and strong as I ever did in my life. exert a pull of from seventy to a "As a physician who seeks to help hundred pounds. It would be impos- all sufferers I consider it a duty to sible to manage such an airship by make these facts public." Name hand, but by means of the steam given by Postum Co., Battle Creek, windlass or reeling apparatus referred Mich. to they are kept under control.

GREAT HEIGHTS REACHED.

In the summer of 1897 a kite at led as remarkable achievament Since -----

THAT DODD'S KIDNEY PILLS ALWAYS CURE DROPSY.

It Is a Kidney Disease and is Cured by Curing the Kidneys-Dodd's Kidney Pills Never Fail to Cure the Kidneys.

Montreal, Que., June 27 .- (Special). -Every day brings forth fresh proof that Dropsy is caused by diseased Kidneys and that the one sure way cessful explorer of the upper atmost to cure it is to make the Kidneys phere. To-day they are extensively steong and healthy by using Dodd's used both on the continent and in Kidney Pills. Mr. Geo. Robertson, America for obtaining meteorological 392 St. James Street, this city, is observations. Numerous kite-flying one of those who has proved this bestations have been opened in France, youd the shadow of a doubt. Mr.

of the terrible pains.

"On the advice of a friend I began exalted characters.-Gibon. to take Dodd's Kidney Pills, and before I had used the second box works of many years of peace .- Ben-I began to feel better. Seven boxes jamin Franklin. cured me completely."

Rheumatism, 'Diabetes, Bright's Disease, are some of the many forms of Kidney Disease that Dodd's Kidney permanently.

then the distance has been gradually increased, the present record being 15,800 feet above the level of the sea -an ascent of over three miles, and exceeding the highest scientific balloon ascent in America. When this unique record was achieved, a combined weight of a hundred and seventy-five kites of the improved Hargrave type were used. They had curved flying surfaces, modelled after the wings of a bird. The length of wire paid out to the kites was over five miles. According to the recording instruments, the temperature at the highest point attained was fifteen degrees below freezing point, and the wind velocity was about twenty-five miles an hour. Flights have been made at Blue Hill in gales, in rain, and in snowstorms, but never in a thunderstorm. The high flights occupy ten or twelve hours. Occasionally the kites are

left out all night. Many know of the success accomplished in kite-photography, and it would seem that the kite in the hands of a scientist is a weather chart, a photographer, a signalling apparatus; a telephone, a collector of electricity. a parcel and letter carrier, and a medium for lifting man into space.

In America alone there are now some eighteen kite-flying stations. It is only fair to add, however, that at many of them kites are only flown at certain seasons of the year. One of the latest countries to resort to kites is Russia, which has equipped four observatories with kite-flying outfits. There is also a private kiteflying station near Paris, and another in Scotland-the birthplace of scientific kite-flying.

HE KNEW THE GENUS.

flying two or more kites, a greater During a lesson on the animal money, if he told you frankly how lifting power is obtained, while there kingdom the teacher asked if any one is also less risk of the kites breaking could give an example of an animal away and getting lost. Indeed, five, of the order of edentata, that is, one

"Well, what is it?" said the teach-

"Grandpa!" he shouted.

FOOD FACTS.

What an M. D. Learned.

perience which he makes public:

and in two weeks I could walk a mile Adair." The bachelor picked up his The kites at Blue Hill vary in without the least fatigue and in five hat and said: "Madam, even if your

"There's a reason."

REDUCES EMPENSE

\$5,000 Reward will be paid by Lever Brothers Limited, Toronto, to any person who can prove that this soap contains my form of adulteration whatsoever, or contains any injurious chemicals.

Ask for the Octagon Bar.

WAR.

Gunpowder has spoiled war. War was always detrimental to the solid interests of mankind. But in old times it was good for something; it painted well, sung divinely, furnished lliads. But invisible butchery, un-"My feet were so much swollen der a pall of smoke a fur-long thick, who is any the better for that ?-

As long as mankind shall continue to bestow more liberal applause an their destroyers than on their bene-"I had to be tapped to relieve me factors the thirst of military glory will ever be the vice of the most

Mad wars destroy in one year the

CURE FOR INDIGESTION.

ered that that troublesome disease, dyspepsia, can be cured by short intervals of exposure to intense cold, followed by hearty eating. M. Raoul Pictet, a Swiss gentleman was experimenting with a low temperature. He had produced an artificial temperature in a sort of pit which caused the thermometer to sink to 140 or 150 degrees below zero. Among other experiments he exposed himself for a brief interval to this temperature by lowering himself into the pit. On emerging he found himself intensely hungry and ate freely. The process was repeated several times, and as a result he found himself cured of chronic indigestion, from which he had suffered for years.

How's This

We offer One Hundred Dollars Reward for any case of Catarrh that cannot be cured by Hall's Catarrh Cure. F. J. CHENEY & CO., Toledo, Q.

We, the undersigned, have known J. Cheney for the last 15 years, and believe him perfectly honorable in business transactions, and financially able to carry out any obligations made

WALDING, KINNAN & MARVIN, Wholesale Druggists, Toledo, Hall's Catarrh Cure is taken internally, acting directly upon the blood and mucous surfaces of the system. Testimonials sent free. Price, 75c. per bottle. Sold by all Druggists. Take Hall's Family Pills for consti-

We may beat our swords to plough-

And our spears to pruning-hooks, And betake ourselves to farming In the peaceful country nooks; But we want them back as weapons When we find at early dawn

Have been scratching up our lawn.

That our neighbor's scraggy chick-

Lever's Y-Z (Wise Head) Disinfectant Soap Powder dusted in the bath, softens the water and disin-

Mr. Totterly-"Could you marry a very old man with a good deal of old he was and how much he was worth?" Miss Timely-"How much | ache. is he worth?"

OVER THE WABASH.

To the Great World's Falr St. Louis, Mo., everything is now wide open, round trip tickets on sale until December 1st, at lowest first-class one-way fare, good lifteen days, fare and a third good sixty days. Now is the time to see this, the greatest of all Expositions in the history of the world. The great Wabash is the Banner Line, the shortest and quickest route from Canada to St. Louis. A prominent physician of Rome, The through trains on the Wabash Georgia, went through a food ex- are the admiration of all travelers going to St. Louis.

may here be made of the wire used at muscle. It improves the digestion cover that his friends are not as

Minard's Liniment is used by Physicians

"Harkins," said the head of firm to the foreman, "the firm has decided to inaugurate a system of profit-sharing with its employes." "Good!" replied the foreman. "What Trial 10 days on Grape-Nuts when were the firm's profits last year?" the regular food does not seem to 'Last year the firm lost \$3,000. sustain the body will work miracles. That necessitates a reduction of 10 per cent, in wages under the new Blue Hill attained the then record Look in each package for the fam- system. Tell the men the new arheight of 11,716 feet. It was regard- ous little book, "The Road to Well- rangement comes into effect immediately."

ality should always be the first consideration, price the next, romember this if you are ever does not bear the brand Blue Ribbon

Potatoes, Poultry, Eggs, Butter, Apples

Let us have your consignment of any of these articles and we will get you good prices.

COMMISSION Cor. Wost Market and Colborne Sts, TORONTO.

HAUNTS OF FISH AND GAME.

Attractions for Sportsmen on the Line of the Grand Trunk.

The Grand Trunk Railway Company has issued a handsome publication, profusely illustrated with half-tone engravings, descriptive of the many attractive localities for sportsmen on their line of railway. Many of the regions reached by the Grand Trunk seem to have been specially prepared for the delectation of mankind, and Scientific investigation has discov- where for a brief period the cares of "Naw." "Well, Bobby, may I kiss business are cast aside and life is given up to enjoyment. Not only do top of my head." the "Highlands of Ontario" present unrivalled facilities for both hunting, fishing and camping, but the 30,000 Islands of the Georgian Bay, Thousand Islands and St. Lawrence River, Rideau River and Lakes, Lake St. John, and the many attractive localities in Maine and New Hampshire, present equal opportunities for health, pleasure and sport. All these localities are reached by the Grand Trunk Railway System, and on trains unequalled on the continent. Abstracts of Ontario, Michigan, Quebec, New Hampshire and Maine fish and game laws are inserted in the publication for the guidance sportsmen. The Grand Trunk Rail- 3 to 4 per cent. half yearly, or better than way has also issued descriptive lustrated matter for each district separately, which are sent free on application to the agents of the Company and to Mr. J. D. McDonald, District Passenger Agent, G. T. R., Union Station, Toronto.

Crabshaw-He has the inventive faculty very highly developed. ford-What has he invented? Crabshaw-Nothing, so far as I know. But when his wife goes out he can think of things to keep the baby amused by the hour.

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MRS. WINSLOW'S SOOTHING SYRUP has been used by millions of mothers for their children while teething. Itsoothea the child, softens the gums, allayapain, cures wind colic, regulates the stomach and bowels, and is the best remedy for Diarrhosa. Twenty-five cents a bottle Sold by druggists throughout the world. Be sure and ack for "MRS. WINSLOW'S SOOTHING SYRUP." 22-01

When a widower begins to tell his troubles to a widow she knows he is going to ask her to share them.

At the Yarmouth Y. M. C. A. Boys' Camp held at Tusket Falls in August, I found MINARD'S LINIMENT most beneficial for sun burn, an immediate relief for colic and tooth-

> ALFRED STOKESI General Secretary.

"My boy," said the old gentleman, "there's only one thing that stands between you and success." "And what is that?" asked the 'youth. "If you worked as hard at working as you do at trying to find out some way to avoid working, you could easily acquire both fame and fortune!"

Keep Minard's Liniment in the House.

FACES IN COINS.

In connection with the new issue of coins it is not generally known that the Duchess of Portsmouth has been the Britannia on all British copper coins since Charles II. Mrs. Martha Washington used to beam from the United States Treasury notes. A century ago the Rothschilds similarly adorned their notes with the benevo-An old bachelor who was very bald lent face of Baroness de Rothschild;

> La grippe, pneumonia, and influenza often leave a nasty cough when they're gone. It is a dangerous thing to neglect. • Cure it with

Consumption The Lung

The cure that is guaranteed by your druggist. Prices: S. C. WELLS & Co. 309 25c. 50c \$1 LeRoy, N.Y., Toronto, Can.

1 - 28

CLEVER TOMMY.

"Where do the bees get the honey from, daddy?"

"Why from the flowers, of course, Tommy. I did think you knew as much as that!"

"Oh, I know. But I wanted to find out if you did!"

Ask for Minard's and take no other.

you?" "Yes, if you kiss me easy on

Minard's Liniment Lumberman's Friend

Jimjones-"I met a ghost last night and it spoke to me." Samsmith -"What did it say?" Jimjones-"Haven't the least idea. I'm not familiar with the dead languages."

that are safe and earn good rates of interest. We offer good securities that are paying 7 and 8 per cent. per annum. For full part -"Executor," No. 11 Queen St. East, Toronto.



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