# Brief Notes of Science

Crickets have a tendency to chirp syn

the River Main, near Kariburg, found buried in the bed of the stream the trunks of six great oak trees the wood of which was very hard and turned to the color of coony. The discovery is valuable as the wood can be used for inlaying purposes. - Agcording to the German authorities the trees have probably laid submerged in the river 1,000

maker of the Pittsburg and Lake Eric Railroad, has been fitted up in a rather novel manner. The chair cushions and bed mattresses are constructcil on the pneumatic principle, it being claimed that the jar of the journey is thereby greatly reduced. At night the geat cushions are emptied of air, folded and packed snugly away, and the lager cushions for the beds are brought out of their place of concealment in the

The discovery is announced by Prof. Kapteyn of a telescopic star in the Southern Hemisphere in the constellation Pictor which is moving even laster than the famous little star called "1830 Groombridge," which is known as a runaway because of its extraordinary speeki. According to Prof. Simon Newtire known universe could not have set a star like this going with such velocity, and would be unable to arrest it. As the distance is unknown, and the real shave long been making colors .

Prof. Harshberger claims that the dahlia, botanically considered, is an American genius confined to Mexico. When found the dahlia cultivated in the gartiens of the natives. It was first grown in Matrid in 1789, and in England in 1790. Horticulturists in the early part of the present century began to proviuce such brilliant variations in the form and color of the dahlia as to make difficult to recognize the old flower in its new beauty. The American Dahlia has been organized for the purpose of cultivating the Dahlia, and new varicties are likely to be produced without

The division of the day into ten hours Instead of twenty-four is a proposition which meets with special favor in An illustration is given in La Nature of a flouble faced watch by means of which the general public could graflually accustom itself to the change. tion of the stem-winder. On the ordimary face the four hand makes two revoiutions in twenty-four hours. while on the decimal face it makes one revolu-Mion in ten hours. The decimal face has no secont hand but in : decimal watches of great precision the second hands are provided which indicate onehundred-thousandths of a day.

ing electric messages or signals with-Aino to the curious fact that the hills to not obstruct the passage of the elec- the eye, are now receiving the attention tric waves to which the transmission of the signals is due. If, for instance ment is one one slike of a hill and the

bridge over the hill and fall upon the receiving apparatus on the other elde. Signals have been sent without wires distance of more than eight miles in-Bristol Channel, and the limit, Mr.

hatred in order to avenge thems

human flesh because of famine are re ckoned as 18 per cent. In short, deduc

ing all these there remains noly a pro-portion of 24 per cen who partake of human fiesh because they prefer it to other means of all miniation.

The Esusgman lamp, accrosing to Dr

Water Hough, is a prerequisite to mi-gration into higher latitities and the Escuenaux must have had it before they emigrated from their criginal home, which was probably farther south and

near the seacoast. The form of the lamp becomes more specialized the higher

the latitude is-the lamps of Southern

Alaska having a wick-cdige of two inch-cis, while those of Point Barrow and northern Greenland have w.ck-cdiges of from seventeen to twenty-six inches. The various uses to which the lamp is

put shows its importance, for it is em

awarming drying clothes id in the sarts. It is also a social for or and the sign of the family un ar head of

An interesting lecture was given be-fore the photographic Society of London by Prof. Lippman on the process of photog by Prof. Lippman on the process of photographing objects in natural colors. He sectares that he has solved the problem of directly fixing colors with a single exposure. After the sensative side of the plate or film has been rendered grain-the least notable of those about whom the least notable of the least notabl less and transparent it is brought into contact with a metallic mirror. The Ramabal. The knowledge of her life march to Russia. She had but a small contact is effected by a falling alide has revealed to us much of the social sum of money, but she finally reached and development have been correct. Several specimens were shown, and the

brief period no new or appreciable in-pression, they declare, can possibly be made. Further according to the studies ties of these game eminent authorities an inflividual cannot make more than ten, or at most a dozen, separate, vol-untary movements of any kind or nature in a second, although the muscless independently of the will, are capbale of making as many as thirty or forty.

In no fielf of science is the Germans doing more than in chemistry. They

city is of course merely a matter of tiyes in their labratories synthetically tiriving out of the market the old dyes which we earlier had to go to the tropics after. The woods and the saps and the insects which yielded up their store of colors to dye our hosiery and our neckerchiefs are things of a past uti-lity. We get colors to-day of more beautiful and most serviceable kinds at a pheaper price from the chemist's pot. says the Manufacturer. For instance, musk, one of the most highly prized and most costly of perfumes, has been imitated by the German chemists. It, however, is not an imitation. It the scientists can resolve a substrace occurring in nature into its parts, and stance by other means so as to produce precisely the same result, why should we call it an imitation? If eggs can be manufactures, why should we prolong the exhistance of the hen? And if butter and hilk and cheese can be made by the chemist why should we not manuretire the cow from active service? This may be regarded as another assault upon the agriculturalists and the agrarians who are always complaining because ci vilization is setting in against them. The truth is that the The truth is that the men or the class of men who try to stem such a tide as this are getting apoor fight. They are out of joint with the times, and the They way to succeed is to deserve to bucceed In describing the Royal Institution in Germans have profluced an artifical essence of violets, and indeed a whole se ies of scents, which, appealing to the

# Acute Rhoumatism

of the patient scientists of Germany.

Pains in the Foot and Limb-Complete Cure Accomplished by Hood's Sarsaparilla.

"For a number of years I was afflicted with acute rheumati Bristol Channel, and the limit, Mr. Prece thinks, has by no means been roachest.

According to a French writer named Petrie, whose conclusions are quoted in Rhe Medical News, 28 percent of all gaundless eat the dead in order to gloting up pio when I happened to hear of their courage, and eat dead children in order to renew their youth 10 per cent, pertake of their near relatives from religious motives, 5 per cent feast for hatred in order to avenge themsely.

Mr. Medical Meway down my limb into my foot and the way down my limb into my form and the way down my limb into my form and the way down my limb into my form and all the way down my limb into my form my for

Hood's Pills are purely vegetable, care

The faintest stars visible to the nake

eye are of the sixth magnitude; the

faintes' telescopic stars are reckoned of

the sixteenth or seventeenth magnitude

Miscellaneous.

How lightly marriages is arranged in India is illustrated in Ramabai's stor of her mother's marriage, as Max Muller gives it . Rambai's grandfather, a high-caste Bra

hman, was on a rel'gious pilgrimage with his wife and their two daughters, nine and seven years of age. One morning, when bathing in the Godayari, he saw a fine looking man in the river. and found on injuly that he was a widower. Her grandfather then be-trothed to this man his nine-year old riage took place and the stranger in mediately started for his home nine hundred miles away from the child's own home, while the father paid no more at tention to the fate of his daughter. Th marriage, however, turned out wel for the husband, who was a great Sar skrit scholar was very kind to his chil wife, and was most anxious to teach he the sacred language. This was a ver unusual course,-in fact, it was contrar to the Brahmanic law. Professar Mul

ler goes on with the story : "It seems that he had made the sam experiment with his first wife, out that it had failed owing to the opposition of her family. When therefore he was me by a similar opposition in the case of his second wife he suddenly left his home and his friends, and journeyed with his young wife to the forest of Gungamul on a remote plateau of the Western where the world could no longer hinde or trouble him. Such things are pos sible in India only, and even there they are of rare occurrence. Ramabai was told by her mother how she and her hus we band spent the first night after their flight from home in the open air without sheltes of any kind, she rolled up in he pasorii or cotton quilt, and he watching by her side. Wild animals were heard nowling all around them, and the olfactory nerves as the colors appeal to wife lay convulsed with terror; and no wonder she did tho her hus, band key watch till daybreak, frightening the wild animals away as best he could from his bride and his new home. However there, in the forest, husband and wife maineti, and there the husband begar to teach his wife Sanskrit. A rude hut was soon constructed, such as suffices in a forest and in the climate of India. The wife grew in statute and in know ledge, and soon became the mother of grew up the father at once began the instruction of his zan and his elder daughter. Soon the fame of his scholarship began to attract students from the neighborhood, and the hermitage, situa it was near the source of one of the rivers, became a place of pilgrimage, an

Ramabai grew up, the father was getting too old to teach her, so her Trees who devour of famine are relating and must always be at my post."

William Harkerr, yardman, Grand Trunk Railroad depot, Brantford, Ontario.

Hood's Sarson. siucation devolved upon her mother. But India pilgrims have a right to hospiality, and there came so many that the ousehold could not bear the expense and the hermitage had to be broken The family began a lite of tramping from place to place and made a living by eciting Sanakrit texts. Ramaba was a profligy oftearning. In India the student learns by repetition, and can re-peat whole librarics of books without naking the alightest mistake. Ramaba istened outside the doer while her bro her repeated his lessons, and in this way she got an immense fund of know edge. She remained unmarried lorg afer the age fixed by statute. This was DO NOT CONFOUND.

Wright's Liver and Stimach Pilis with the numetrous cheap purgative pilis that only act on the bowels. Wright's Liver and Stomach Pilis are given as a treatment with full directions of how and when to use them. The cost is 50 cts a box. One box cures, ask J. Livingstom Druggist, Listowel about them, and get a circular. a breach of the taw, but she was not dis-turbed while her father lived. After his death her position became almost, flesperate. She still had protection in her prother, but all the family property had been spent. They were not able to pay the Brahmans for carrying the re-

Thereafter she and her brother wan-Thereafter she and her brother although of a more glutious tures excited great interest.

contact is effected by a falling slide from behind the mercury, which after conditions in India, especially as they beer upon child widows. The widow is no longer burned in India, owing to the relipement, which is managed in the ordinary way. The result is a negative upon which as the process of drying goes on, the colors appear true and bright in proportion as the exposure and development have been correct. Several specimens were shown, and the from those who sympathize with her.

right on "making a hog of himself."

In some instances he gets thin and em aciated. In others he gets thin and em aciated. In others he gets thin and em aciated. In others he gets grossly corpulent, and weighted downed in the first instance he is a claim of the dayspepsia and nervous prostration. In the first instance he is a claim of the dayspepsia and nervous prostration. In the second for kidney trouble or heart failure. Dr. Pierce's Golden Medical Discovery enables the average man to undergo a great deal of hardship, deprivation and overwork, in spite of the life he leads. It causes the food to be properly assimilated. It builds firm, healthy flesh, but does not make corpulent people more fat. It cures dyspepsia, nervous troubles, kidney disease and 95 per cent. of all cases of consumption. It prevents weakness in any organ of the body.

"In August, 1887, I was taken down in bed with a burning and severe palus in my stomach and under my shoulders, and dizziness in my head," writes lat D. Herring, Psq., of Emporia, but and the deal of the difference of the folden Medical Discovery and three of "Pleasant Pellets." I am now able the difference of the Golden Medical Discovery and three of "Pleasant Pellets." I am mow able to the difference of the Golden Medical Discovery and three of "Pleasant Pellets." I am mow able to the difference of the Golden Medical Discovery and three of "Pleasant Pellets." I am mow able to the difference of the Golden Medical Discovery and three of "Pleasant Pellets." I am mow able to the difference of the Golden Medical Discovery and three of "Pleasant Pellets." I am mow able to the difference of the Golden Medical Discovery and three of "Pleasant Pellets." I am mow able to the difference of the Golden Medical Discovery and three of "Pleasant Pellets." I am mow able to the difference of the Golden Medical Discovery and three of "Pleasant Pellets." I am mow able to the difference of the Golden Medical Discovery and three of "Pleasant Pellets." I am now able to the difference of the Gol

# Science Notes.

occasions but 6,000 will be normal The aperture will be 48 1/4 inches the focal length being nearly 197 feet The hypothesis is put forward by H.

V. Gill in the American Journal of Sci ce that the stratification of the ele tric discharge '- Gelssler tubes is due

to gas waves somew hose which produce the dust figures in Kundi's tube. The theory is sup-orted by dust figures obtained by el-

The employment of individual gli ars for the retention of milk delivere by peddlars has been prohibited by milk spectors in several cities, on the groun hat they are dangerous to public health The objection is advanced that erilization is impossible, as water of equisite temperature to destroy gerr ruld break the jars. Safety is only insured by the use of receptacles that can be subjected to steam heat. The glass jar should be generally abolished

and especially its pasteboard lid.

In one of the streets in the neigh for nood of the famous London bridge ther has for sometime been carried on an industry populiar even to that city of curious and crowded occupations, namey, an c'iskin leather factory. Here are repared and manufactured : interestng variety of articles from the skin of he common ecl. By means of numer complicated processes the skins in questicn are manipulated until they resemble and would be easily takenfor leather. although of a more glutious and pliable

ther died and she was forced to take and plaited very closely together for whip a husband. The marriage turned out lashes nad to cover pertions of he handles of more expensive whips. Certain The Story of Panelita Ramabal.

Her case was now indeed desperate, but kinds of lashes and harness laces are PROF. MAX MULLER, continues to she was upheld by her strong desire to also made from such skins, combining

# Cross Lighting,

Some traditions die hard, being acceptight should be naturally or artifically, the weaker, as by having the window north and south or by filling those on the right with clouded glass. Windows in front are always objectionable, but light from behind, if not so strong as crease the illumination derived from the long pointed out, reading or other worl demanding clear but effortless vision in the open air when the sky is ove cast is a real duxury. Under these cir owless; it comes from everywhere, but The most perfect artificial illumination conceivable is that obtained by Hrabow

# Rats in Azores.

ski's hemispherical milk glass reflector

light of an electric arc lamp is diffuse

equally throughout the building, though

a clear summer day and as free from

color; it is almost shadowless, and, i fact, is superior to dyalight in not be

ing liable to fluctuations, although its

intensity can be regulated at will.

A resident of Fayal, says the Revus Air alcohol thermometer 70 feet in length is now being put in place at Wintchester Mass. It will be placed in a pit of its own depth and be used for sciential of the scannel of Jamacia makes the Access is of a kind to renden the Access is of a the constructed on the principles as smaller instruments.

The great telescope for the Paris Exhibition of 1900 is said to be making good progress, and that it is expeated that a magnifying power of 10,000 will be used.

# A Popular Teacher Speaks About Pain's Celery meeth, County Since of the Manager o

The Great Life Saver Cures Even at the Eleventh Hour. Mr. Belyea's Letter Should be the present case the experiment lasted four hours, during which time the kite Read by all Suffers.

medicine began to have a telling cuerny nerves.

I have taken three bottles of this glorious medicine, and to-day I can say that it is the first time in eleven years that I have felt none of those piercing pains to which I had once oen a victim Let me say to any person who may read this testimonial. In this province or elsewhere, that if you discredit this statement, just write me and I will only be too glad to inform you of what has, cured ment, just write me and I will only b too glaf to infarm you of what has, cure me of neuralgia and a shattered nervou

Yours respectfully, LEVERETT A. BELYBA, Hampstead, N. B.

#### A Brave Deed.

Few readers are aware that our war

ships carry boiler makers, who are often and, in cases of emergency, these men go inside of the boiler or furnace, which but a few minutes before had been filled with boiling water or red hot coal.
There is no task too dangerous for these
men to do. One of them undoubtedly
saved the "Castine" from destruction in the harbour of San Juan. The "Castis went into action under full speed. The furnaces were heated to the highest degree, forced draught being used. out warning, a fierce hissing noise was heard inside one of the furnaces. socket bolt in a back connection at the ard development have been correct. Sets toward reform in this respect was the passage of agolil raising the fefted obtained was excellent.

The researches and experiments of Messrs. Broca and Richet, specialists in this line, have led them to the interesting for this step werd in general interesting for this step werd in this line, have led them to the interesting for this step werd in this line, have led them to the interesting for this step werd in general interesting for this step werd in this line, have led them to the interesting for this step werd in this line, have led them to the interesting for this step werd in this line, have led them to the interesting for this step werd in this line, have led them to the interesting for this step werd in this line, have led them to the interesting for this step werd in this line, have led them to the interesting for this step werd in this line, have led them to the interesting for this step werd in this line, have led them to the interesting for this step werd in this line, have led them to the interesting for this step werd in this line, have led them to the interesting for this step werd in this line, have led them to the interesting for this step werd in this line, have led them to the interesting for this step werd this they double for this step werd the fired to strangle Ramabal. Falling in this, the friend killed herself, and Ramabal tried to strangle Ramabal. Falling in this, the friend killed herself, and Ramabal tried to strangle Ramabal. Falling in this, the friend killed herself, and Ramabal tried to strangle Ramabal. Falling in this, the friend killed herself, and Ramabal tried to strangle Ramabal. Falling in this, the friend killed herself, and Ramabal tried to strangle Ramabal. Falling in this, the friend killed herself, and Ramabal tried to strangle Ramabal. Falling in this, the friend killed herself, and Ramabal tried to strangle Ramabal. There statistics and experimental investigation pervade every department of administration, and the fire fired t farthest interior extremity of the fur-nace had become loose, springing a leak. The stream was pouring in upon of child marriages, the Hindus urged that love between children is idyilic and likely becoming a Christain has no doubt reto last, while love between adults is not tarded her work, but her goodness can lasting and ends frequently in cruel separations. Their arguments were over hinden. She is indeed says Prof.

She is indeed says Prof.

Muller, a noble and unselfish woman, however, and Malabari's bill be and deserves all the help she receives creasing abliquity of the rays of light furnace. First record draught was objections as acutely felt in wide rooms, especially the door; the forced draught was objections when not high in proportion, on the side turned on, and in a few minutes the not only be a revolution.

The plot the rays of light furnace. First record draught was objections. intensity of illumination is equalized and its total amount doubled. It is only der that the engineering corps in our ecessary that that coming from the navy is receiving the highest praise or every side.

# TOBACCO HEART.

HAVE you been smoking a good deal
ing a good going through your arm and fingers? arm and ingers.
Better take a boxortwo of
Milburn's Heart and Nerve
Pills and get cured before
things become too serious.
Here's what Mr. John
James, of Caledonia, Ont.,

has to say about them: "I have had serious heart's trouble for four years, caused by excessive use of tobacco. As times my heart would beat very rapidly and then seemed to stop beating only to commence again with unnatural rapidity. "This unhealthy action of my heart oaused shortness of breath, weakness and debility. I tried many medicines and spent a great deal of money but could not get any help.

Last November, however, I read of a man, afflicted like myself, being cured by Milburn's Heart and Nerve Pills. I went to Roper's drug store and bought a box. When I had finished taking it I was so much better I bought another box and this completed the cure. My heart has not bothered me since, and I strongly recommend all sufferers from heart and nerve trouble, caused by excessive use of tobacco, to give Milburn's Heart and Nerve Pills a fair and faithful trial."

Price 50c. a box or 3 boxes for \$1.25\$, all druggists. T. Milburn & Co., Toronto, Ont.

LAXA-LIVER PILLS cure Constiputors.

Billousness and Dyspepsia. Price 25c.

LAXA-LIVER PILLS cure Constipation, Billiousness and Dyspepsia. Price 25c.

# The Telephone Kite.

According to the journal Electricity n England in which a kite was made to he middle of the wire was fastened near him an artist the kite, which was flown from a ship, as if at sea. One end of the telephone ire remained on the ship, the other wa dragged by the kite a long distance to leeward until it was without difficulty ropped on the deck of H. M. S. "Dauntess," where it was secured and attached to a telephone appratus. In this way vessels that are perhaps two miles apart be brought into telephonic commuphone are reeled back to

remained suspended, held in place by

Gentlemen:—In the winter of 1884 I was taken with a severe attack of neuralizing in the head and shoulders. Since then it became scated, and I gave up the diea of ever being cursel. Have taken pielicine prescribed by different physicians, but all to no avail.

Some three months ago I was induced to try a bottle of Palne's Celery Compount. Before I had taken half of it I began to feel better. Sleep, which in my early days seemed so refreshing, has in these years of affliction been made up of frightful dreams; but not so now, as the medicine began to have a telling effect on my nerves. communicating between the shore and inally dopre york Ledger The kite telephone, so called, would time. The same method would be as wire over a difficult country or forest. The result is as over the ocean, and probably as use ful in war times as in times of peace.

The best medicine which you can take is that which builds a solid foundation for health in pure, rich blood—Hond's Sarsaparullia.

Instant relief guaranteed by using Mil-burn's Sterling Headache Powders. No depressing after effect.

BENJAMIN WEST the Great Pair About a Revelution had Before the days of Raynolds ough and Constable and expect any one to pay sat their pictures as for those of a went to buy anything but "What could I do with its countries of the countries with the countries of the countri connoiseur is said to gentleman who had ask not purchase a historical ly admired. "You sure me hang up a modern i my house unless it were The cause of this low lish art may be seen the control of the low lish art may be seen the control of the low lish art may be seen the control of the low lish art may be seen the control of the low lish art may be seen the control of the low lish art may be seen the control of the low lish art may be seen the lo ed by Mrs. Bell in her the first attempt mesent a modern his

to occurred was madin his famous plotu wolfe," exhibited in Such was then the subjects that when west was paint a actors were re-

with the serious int if possible, recogniculd not get them positions whose w those that "would a stand up and read be returned promp be returned promptly by to which he offered them The Hoosier dialect was for the average magazine

well kne

Hiram Powers and Yo him an artist, then."
"That is out of your ply. "Nature has done was agreed that your study to become a psendition that he shou other part of his educat—Art Amateur.

Refreshing 51 Sleep, refreshing sleep influence. It is the tin force uses to repair the sp

the grain, a

There is an

It is said that cold