

### Woman's Movement In Celestial Empire.

Their Splendid Energy After Centuries of Repression—Girls Now Attending Schools.

The position of Chinese women was the same 3,000 years ago that it is to-day, says a writer in the Queen. But there is a woman's movement in the Celestial Empire now just as there is in every other country, and it has clever and capable leaders.

Instead of remaining home with crippled feet the modern Chinese girl attends one of the schools that are being started everywhere for her instruction and which are crowded with young women, in fact they have been found too small to accommodate all the applicants.

The course of study generally includes mathematics, English, various sciences, music, calligraphy, Chinese writing and reading. The teachers are almost entirely women, though occasionally an old man teaches Chinese classics. A Japanese woman usually takes mathematics, calligraphy and music.

The ladies of the royal family have been among the first to encourage the new learning. Imperial princesses established schools at Peking and took the lead in Mongolia, while it is through their influence that schools have been opened in most of the provinces throughout the empire.

Chinese ladies are also leaving their own country to finish their education in Europe, America and Japan. Three years ago the Berlin University received as student the daughter of a Shanghai gentleman, while in America the Chinese women students are taking their place by the side of their male compatriots in any movement or meeting dealing with Chinese questions which takes place in the country on terms of perfect equality.

Women's medical schools are springing up in China staffed by English and American ladies, and the good they are doing is incalculable. The Margaret Williamson Hospital at Shanghai is an entirely American institution, where no men are employed except coolies for the roughest work. The doctors and head nurses are white women, and many of the assistants are Chinese who have been trained in the hospital.

The Government Hospital and Medical School for Women at Tientsin is also doing splendid work for women in the country. The Government does not raise difficulties with regard to the higher education of women, and many men are anxious for their daughters to be trained on Western lines, and are encouraging them in every possible way.

Modern literature and journalism are also largely responsible for the awakening of Chinese women. Two books published within the last few years in the "Germ of Feminism" and "The Right of the Chinese Woman in the Choice of a Husband" voice the modern ideas which are taking root in the country.

Several papers edited by Chinese women with women as contributors, have lately been started. Mrs. Chang, the widow of a Chinese official, has edited the Peking Woman's Paper, devoted entirely to women's interests, the suffrage movement in England being a favorite topic. This gifted lady was trained and educated by her father as if she had been a boy, and she thus obtained a power of observing the conditions of women's life which would have been impossible for any ordinary Chinese lady. It has been stated that in Peking there are nine journals edited, composed, printed and sold by women; Canton produces four, Shanghai six and Foochow three.

The Government has recently laid down rules regarding the management of native papers. Publishers, printers and editors must be over 21 years of age, "sound of brain," and have never been in prison. They must also deposit security to the amount of \$15 per paper, unless it is devoted to education, art or statistics, and a copy of each issue must be sent to the local magistrate and to the Board of Civil Affairs in Peking.

The legal position of the Chinese woman is deplorable, and is one of the reasons why the movement for her greater freedom is making such rapid growth. She is subject to the "three obediences"—to her father in her childhood, to her husband after marriage and to her son in her widowhood, and this position naturally cripples her powers and has a disastrous effect upon her character.

When a Chinaman has only daughters he says he has no children, in fact, a girl ought to consider herself lucky to be alive at all, for in many parts of the country it is the custom to drown female babies. Her parents dispose of her in marriage as they please—it is the only career open to her—and she then becomes the property of her husband.

Though the women of the better classes rarely meet men outside their own immediate circle, they still exercise a great influence, and in one of the Chinese encyclopedias 376 books out of 1,628 are devoted to famous women, and eleven chapters deal with their knowledge and literary works. When we consider how restricted are their lives and how few opportunities they have for enlarging their minds we can but admire the use they have made of their opportunities.

The women of the lower classes work hard. They spin, make clothes, shoes and most articles for home needs. They serve in almost every department of industry, and are to be met with on their way to the factories, the markets, or the fields, with their babies strapped onto their backs. In Canton the women work on the boats, on the streets and in other ways which they seldom do in north China. One of the most noticeable sights in the ports is the crowd of strong and active women coolies, only distinguished from their menfolk by their headgear. They swarm about the streets and do every kind of work. In the interior they are to be met with in every department of agriculture and industry. No work is too rough or too heavy for them to undertake, and it is difficult to realize that they are supposed to represent "the weaker sex."

### Scientific Miscellany.

Magnetic Strength-Testing—Edible Earth Mining—Reinforced Paving—Feed in Horse Evolution—Milk That Keeps.

A novel electromagnetic tensile test apparatus is an engineering device for showing the effect upon materials of repeatedly loading and unloading. It consists of a frame of four fixed parallel side bars, a fixed top head in which one end of the test piece is fastened, a fixed bottom head carrying two upward projecting pole pieces surrounded by two exciting coils, and a movable head sliding between the side bars and gripping the lower end of the test piece. In normal position, the movable head is close to the end faces of the pole pieces, serving as an armature to the magnet. When an alternating current is sent through the magnet winding, the armature and test piece are subjected to a rapid succession of pulls and the pulling force can be determined from the supply voltage and the air gap between pole pieces and armature. In a machine already built a pull of 220 pounds is obtained with a current of 100 volts. The load may be applied many times in a short period, a 50-cycle current giving 100 pulls a second, making 8,540,000 loadings in 24 hours.

Geophagy, or earth-eating, is common in many places, but it seems to have reached a unique development in the French Sudan, as described by Henry Hubert, a French author. Though food is abundant, the dirt—a kind of clay—is obtained by regular mining. The clay beds are of varying thickness, and, as the deeper layers are preferred, galleries are dug to reach the choicest material. A single native often eats 7 pounds or more in a day.

The influence of soft bread on children's teeth has been investigated in Germany. At Kotzing, Bavaria, 6.9 per cent. of those eating hard bread had diseased teeth; 8.2 per cent. of those eating both hard and soft; and 10.5 of those eating only soft bread. At Irhringen, Baden, the percentage rose from 12.4 in 1894, when only hard bread was used, to 20.9 in 1901, when the bread was mostly soft.

The reinforced macadam of Gulet, a French engineer, is a new road material that is claimed to have given superior results in his tests of the last year or two. It is made in plates of various sizes, and consists of a bottom layer of cement enclosing the strengthening pieces of flat and circular iron, and a top layer of broken stone pressed into the cement. Formed into plates of moderate thickness 28 inches long and 19 wide, the pavement readily supported an evenly distributed load of 30 tons or a load of 8 tons concentrated at one point. The surface has been found very resistant to the wear of heavy traffic, and its smoothness—giving a striking contrast to stone pavement—is a special advantage. In places where the plates are too expensive to use over the entire width of the roadway, it is recommended that a narrow track be laid to receive the wheels of vehicles.

A kind of wild clover called "zulla," found only in the Province of Cadiz, has been proclaimed by a Spanish horse dealer as the finest feed known for horses. The plant grows luxuriantly in chalky or clayey soil, seems to thrive best wild and is never cultivated, reaches a height of three or four feet, and sometimes yields 15 tons or more to the acre. It is cut and dried like hay. A recent tendency in Spain has been to use the Spanish-English hackney as draft animals, but the Spanish saddle-horse is asserted to have retained its supremacy for speed, endurance and tenacity of life. These high qualities are attributed to the feed. It is declared, moreover, that any class of animals may be improved by introduction to the favored region, and that in the zulla locality they will in two generations acquire the extraordinary toughness and endurance.

The success of powdered milk may be of far-reaching importance, as it connects all sources of milk supply with the world's markets. It is developing a great industry in New Zealand, which provided a large amount for Shackleton's expedition and is to supply two tons for the expedition of Dr. Mawson. Advantages are claimed over condensed milk. It excels in keeping qualities and nutritive value, and is especially adapted for infants' food by its thorough sterilization and close resemblance to human milk.

Photographing through colored screens is the new method of studying Mars that has been undertaken by Tighoff at the Pulkova observatory. Four different screens were used—transmitting respectively red, red and orange, orange and yellow, and green—and in the 30-inch equatorial telescope they produced good photographs of very small size. The red and the green filters gave strikingly different results. On the plates that were exposed under the red, the continents are much brighter than the south polar cap, while the seas are very dark and the canals are best seen; and the pictures that were taken under the green show the south polar cap as the brightest object, and the seas are grayish. A study of the polar cap has made it appear greenish instead of white. The interesting conclusion has been reached that at the time the photographs were made the cap was ice instead of snow, and this view has been confirmed by experiments on the absorption spectrum of ice and in photographing sand, snow and ice.

Aniline poisoning in a curious manner has been reported by a German physician. A boy applied commercial aniline liberally to his hands for ulcerated chilblains, and while there was no inflammation of the tissue, and healing progressed under the treatment, general symptoms of severe poisoning appeared, and were acquired by the boy's room-mate from simply sleeping in the close room. In the morning both boys were found unconscious. The one who had been poisoned by inhalation recovered the next day, but the

other could not stand for nine days, after which he gradually recovered.

Bacteria, which may endure cold and drought unharmed, have possibilities of surprising longevity. From earth attached to moss that had been kept in a cabinet since 1852 a German biologist has obtained 89,200 living spores per gramme. A search for still older dried moss revealed a specimen that had been kept in a paper envelope since 1824, and even this yielded 19,000 bacteria per gramme. It is known that some disease germs retains their vitality a long time.

### SELECT CULLINGS

#### A Chinese Salute.

No one who has studied the military methods of China will be surprised to learn that "shells" of painted wood have been picked up in the German concession at Hankow. This is truly Chinese. Not so very long ago each soldier was supplied with an oilcloth parasol and a fan, which he tucked up his sleeve. During the battle of Pingyang, when the rain came on, the parasols were opened, and the enemy found the men easy targets, especially as each one wore a large white disk bearing the number of his regiment on his breast and back. At the arsenal at Nanking it was once decided to shorten a Krupp cannon which had arrived there because it was too long and to make "solid shells" which would not burst. Green sprouts were also seen on the logs from which gunstocks were to be made. But the "limit," as one may say, was reached at Hankow when an Austrian warship entered the port and saluted the fort. The Chinese attempted to return the courtesy, but stopped short after five or six discharges. As the Chinese commander afterward explained, "When the third artilleryman had been killed we decided to stop firing."—Pall Mall Gazette.

#### Alaska as a Game Preserve.

Quietly, but surely, Alaska becomes one vast game preserve. A new division of the fisheries bureau in the department of commerce and labor is called the Alaska fisheries survey. The function of this survey is to look after all the Alaska fur seals, the lesser fur bearing animals, the beaver and the sea otter and almost all the varieties of bear. By a strange arrangement, however, the Kadiak bear, the largest of the tribe, is placed under the jurisdiction of the biological survey. From now on, so far as game is concerned, the territory will be controlled like a huge zoological park. No fur bearing animals may be killed except under the rules laid down by the fisheries survey. The sea otter is not to be hunted for nine years and the beaver not for four years. The movement is going to take the greatest care of fur seals. Five game wardens are to be maintained for the territory, and they are to guard and study the animals. On the south coast and where the Kadiak bear abounds those animals are becoming so numerous as to become a positive nuisance and an actual menace.—Chicago News.

#### Story of a Portrait.

A story comes from Vienna of Frau Selma Kurz, the opera singer, and Professor Leopold Harvurt, the court painter. The prima donna, it is said, had long been anxious to have her portrait painted by the professor. A friend introduced her, and the artist agreed to execute the commission. The portrait was finished in thirty sittings, and the singer, enthusiastic in its praise, handed the painter a small package and asked him to send the picture to her home. The professor opened the package on the spot and found that it contained \$400. With a smile he told the lady she could keep the \$400 and he would keep the portrait. Frau Kurz thereupon reminded him that she had given him thirty sittings, "and I am not an artist's model," she added. The painter smiled again and said, "I pay my models a dollar for every sitting. You may, therefore, claim \$30. I shall not fail to discharge my obligation."

#### His Football Record.

Luke Lea, the senate's "baby," tells this on himself: "I have seen it printed in several newspapers that I was a great football player when I was at college. As a matter of fact, I never played but one game of football in my life. That was a terrific but bloodless encounter between my boarding house team and another aggregation at the University of the South. In the first part of the game I got hold of the ball and started as fast as I could go toward my goal, not realizing that the point was to take it across the opposite side's goal line. The thing that saved the day was that the quarterback on my team overtook me, tackled me, threw me down and wrested the ball from my grasp. That is my football record, and I'm not very proud of it."—Washington Star.

#### Teachers' Wages Long Ago.

The scale of teachers' wages prevalent fifty-eight years ago in Vermont, as shown by a communication to the Morrisville Messenger, is interesting as compared with the present pay, which is admittedly too low. Eleven dollars to a female teacher for a whole term and \$18 to a male teacher for the same period is something nonunderstandable now. Those teachers taught the "three R's" and kept order, their ability in the latter respect being the chief consideration when they were engaged, all for 25 cents a day and board in the case of a man and about 15 cents a day and board in the case of a woman.—Rutland News.

### Daily Christmas Hint

An Artistic Gift For the Flower Loving Woman



BAMBOO FLOWER HOLDER

This charming receptacle for flowers makes just the gift for the average woman, for the average woman is a flower lover and will appreciate the fact that you credit her with so refined a taste.

If you happen to know her favorite flower and she is a member of your family it would be a charming idea to place the gift beside her plate on Christmas morning filled with her favorite blossoms and with a pretty Christmas card bearing a holiday greeting. The flower holder illustrated here is of green ware, covered with woven brown bamboo.

If the recipient is not a member of your household the vase should be carefully packed for mailing or expressage. A Christmas tragedy is to receive a souvenir of this sort in pieces.

### Daily Christmas Hint

Something For the Housewife or Prospective Bride



EMBROIDERED TOWEL

This gift will be prized by the housekeeper or by the prospective bride. The towel is of linen huck and may be bought stamped. If the maker is an artist she may sketch her own design upon the fabric and then work it in with mercerized cotton. The towel should bear the initials of the one for whom it is intended.

### Daily Christmas Hint

A Jolly Gift For the Fun Loving Girl



GOOD LUCK CALENDAR

Here is exactly the gift for the girl who loves "fool things." Make her a good luck calendar, and she'll have a fine laugh when she opens the present.

All that is needed is a rather large square of heavy cardboard. The illustration shows you how the good luck emblems are arranged with the little calendar at the top. Nothing is missing from the list of lucky signs. The four leaved clover, the swastika, the black cat, are all represented.

A loop of ribbon may be pasted on at the top to hang the calendar in a convenient position on the wall. Water color board cut out in the form of four leaved clovers or cats may afterward be tinted in suitable colors, and the designs thus made are attractive mounts for the little paper calendars.

### The Boy Who Has No Santa Claus

By ROBERTUS LOVE

(From "Poems All the Way From Pike," copyright, 1904, by Pan-American Press.)

THE boy who has no Santa Claus, So wistful, oh, so wan he looks Through wondrous windows, making pause To gloat upon the picture books—"The Giant Killer," "Mother Goose," Hias, poor urchin, what's the use?

I saw him standing yesternight, His nose against the frosty pane, Enamored of the fairy sight, So fond, so friendless, oh, so fain To grasp and beat the painted drum He dreamed of seeing Santa come.

So long he stood and looked within I thought his yearning gaze must charm The stalwart soldier made of tin To rise and follow through the storm And, standing guard above him, make His dream come true ere he awake.



The jumping jack, the candy cane, The bugle and the hobbyhorse—I'd think they would be rich with pain And sorrowful with deep remorse Because they did not steal away And in his equal'd garret stay.

The boy who has no Santa Claus, Oh, sadder far his sorrow is Than all our grownup woes, because We have no wishes such as his. The useless yearn of childhood, oh, We cannot feel, we cannot know!

Oh, little Johnny Loney Boy, I'm sad and sorry for you—so! You shouldn't miss the perfect joy Of Christmas, for the years are slow. If I'd the making of the laws I'd give each boy a Santa Claus.

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### Letter of a Bad Boy

By GOODLOE THOMAS  
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WELL, Santa Claus, I guess it's up to me to write an' tell About a thing or two you might get twisted on, an'—well Fergit to come or put a snowball in my stockin', like You left last Chris'mas when you come, to fool my brother Ike. First thing, I'll tell about that day I didn't go to school, But went away to hunt for rabbits 'long with Andy Kool. Well, that was Andy's fault. He said if I'd go 'long he'd see That no one knowed, then went an' told an' blamed it all on me.

I s'pose you've got it in for me because the other day I had that fight with Stringy Keys an' licked him so. Well, say, I guess if one o' them air Eskymaux up round the pole Would pull your reindeers' tails like Stringy did my dog's an' tol' The other boys he yelped that way because he had the fleas You'd want to hit him on the nose, like I did Stringy Keys. So please excuse, an' if you know of any other fight That I was in I'll fix it up with you next time I write.

I guess I'd better mention 'bout that pie that disappeared So strange a night or two ago, an' mother said she feared A burglar'd been around. You know, dear Santa, that was me Or else I wouldn't bring it up right now. But then, you see, I'm telling everything, so if my pa or ma should write An' mention things you'll understand I've told them, honor bright! I guess that's all. I hope you'll bring the watch an' skates an' gun. A boy that's spected to be good has got to have some fun.

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