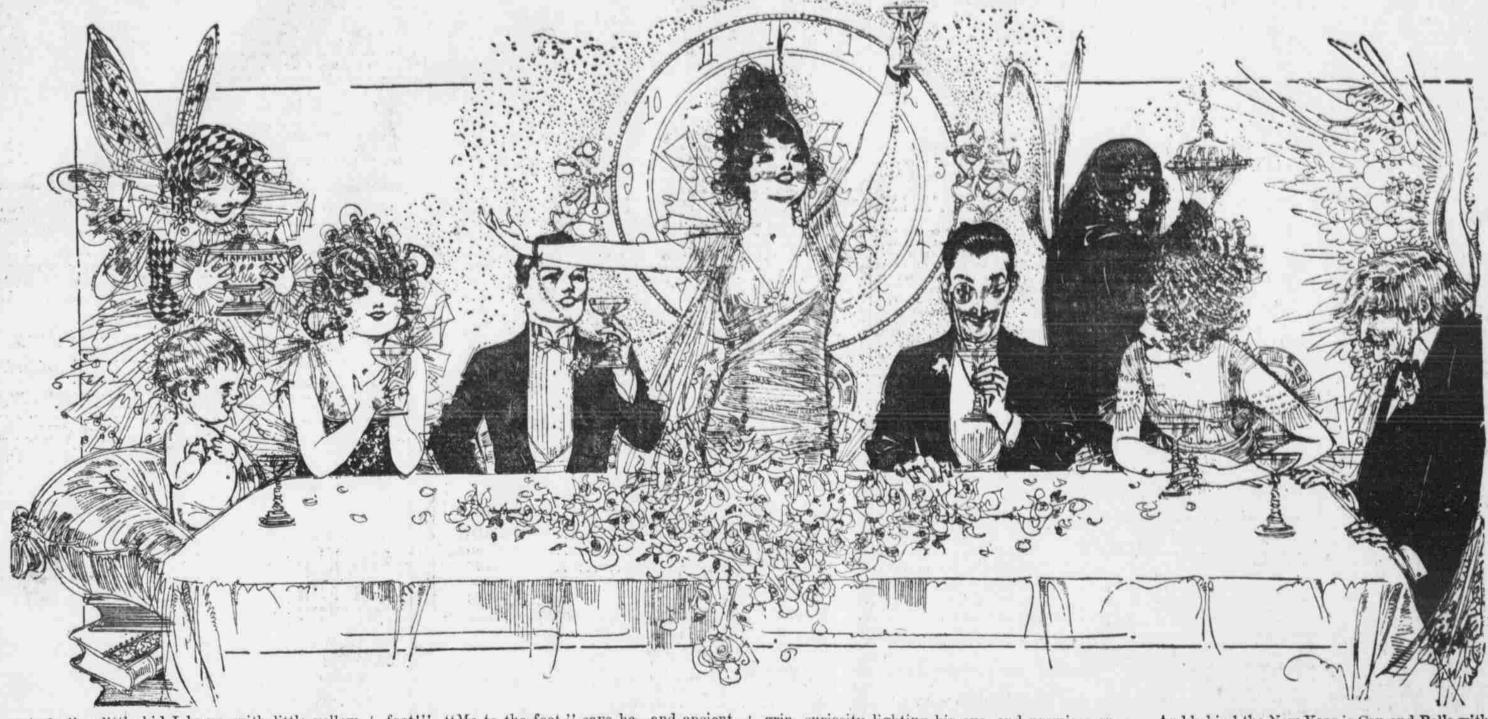
The Bee's Home Magazine Page

"Me to the Foot," Says the Old Year

"We'll Toast Them Both; One Gives Us Promises, the Other Memories."

By Ne!l Brinkley Lapyright, 1915, Intern't News Servi



A darling little kid I know, with little yellow rings of hair and great dignity (which never stooped to slang), when first he bent above the new baby at his house lying all wadded up in the place beside his mother where he had always snuggled, had this surprised out of him: "Me to foot!" "Me to the foot," says he-and ancient, silvery topped Old Year is saying that too. For his place is filled. There's been a change all 'round, and when midnight struck and things were all straightened out-there sat a very young and new fat person with no hair at all at all, a wide

grin, curiosity lighting his eye, and promises on his lips, at the head of the table, and to the foot had gone the willing and feeble old man; and his hair is long cotton-white, and his lips are folded tight, for there are no more songs for him to sing, and his eyes are filled with memories.

And behind the New Year is Cap-and-Bells with the spiced nectar of Happiness which I wish for you, and turning away behind the Old Year is a Gloom with the Brew of Past-Troubles which I hope, for you, is leaving your board for good and all!-Nell Brinkley.

Mighty Projectiles of Space

By GARRETT P. SERVISS.

Among the wonders of our solar sys-em I wish you would point out the tre-nendous velocity of our earth and moon traveling through space, comparing with the speed of the rifle ball, etc., Nothing in the universe is more impressive to me than the speed and power of those wast projections.—II. E. S. Brixton.

The direction and speed of the earth's flight are the resultants of two motions with which it is endowed-the one around the sun, the other with the sun straight earth to travel in a spiral path whose axis is directed nearly toward the bright star Vega, or Alpha Lyrae, the most beautiful in the northern sky.

In its orbit, or annual path around the miles per second.

This means that if you could stand be side it and see the earth rush by, its snatch his discovery from him. whole enormous globe, \$,000 miles in diamels 1,900,800 miles!

Compared with the velocity of projectiles the speed of the earth's flight is so seem to stand still. A rifle bullet may speck of cosmic vapor. go, say, one-third of a mile per second, in the first moments of its flight-that is, sixty times slower than the earth, which never stops or slows up.

The initial velocity of some projectiles may be half a mile per second, or fortyour times slower than the earth. If a annon could be planted out in space and fired at the earth from a distance equal to one-quarter of the earth's diameter (which would be like a hunter firing his rifie about eighteen inches from a deer's side), and if the shot were aimed at the front edge of the flying earth (imagining the latter flat 'like 'a disk), and fired with an undiminishing velocity of half a mile per second, it would not only miss its give her up.

You are very young for marriage and
You are very young for marriage and traversed one-tenth of the original dis- a sirl who does not love a man enough earth. To recur to the comparison of the a worldly young person who is unlikely hunter and the deer, it would be as it to make a very good wife. If a wife is the animal ran so fast that it got out of one in the truest sense-that of being the line of fire before the bullet had traveled two inches from the sun. eled two inches from the gun.

The motion of the earth becomes possibly even more impressive when we consider the awful energy it produces a Kinetic energy, or the capacity to do work, such as striking a blow, is measured by multiplying the mass of the moving body by the square of its velocity and dividing the product by two. In order to get the result in footpounds we recken the mass in pounds and divide again by thisty-two, or by and divide again by thirty-two, or by True love cannot exist without faith. aixty-four in ail. 'The reason for divid- Since you condemned this man unheard. I ing by thirty-two (more exactly 32 is) is cannot blame him for failing to acknowlthat that number is the unit tin feet per edge your letter of apology. Possibly if p.

seros) foot-pounds! Figured in another fry to forget him.

the acceleration of gravity.

way, the energy in the flying earth is equivalent to nearly three sextillions of horsepower, the horsepower being the measure of the work done by 38,000 footpounds of energy developed in one minute. That is to say, if the earth could be

prought to rest in one minute and all its energy turned into driving machinery it would develop nearly three sextillions of horsepower. But if it were brought to rest in one second it would develop sixty times more horsepower! Power is away through space. The combination of the rate of doing work, and necessarily these simultaneous motions causes the involves the element of time in its calculation. Then we may consider the thermal ef-

fects of the earth's kinetic energy if, by instantaneous arrest of the motion, it were turned into heat. There would be sun, the carth's mean speed is eighteen a sudden development of so tremendous and one-half miles per second, while its a temperature that the earth might be speed of translation toward Vega, which vaporized. Puff: And some astronomor it shares with the sun, is about twelve on some distant planet, aiming his telemiles per second. We may call the re- scope through the cool evening air, sultant, or combined, speed of the earth would catch eight of a little new nebula. in its actual spiral trajectory twenty-two twinkling like a thistle down blown into the sky of space, and would run to send off a telegram quick, that nobody might

Thereafter the dissipated earth would eter, would pass your eye in about six appear in a catalogue on that far-off minutes. It means that in one day and world under the name of "Jones" Nonight (twenty-four hours) the earth trav- bula," and nobody, casually giancing at it from an observatory, and unsympathetically noting its extreme exiguity would ever think of the heart-breaking great that the swiftest of them would history that had been nebulized in that

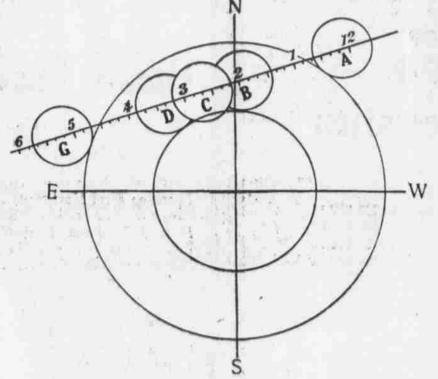
Advice to Lovelorn

BY BEATRICE FAIRFAX. Twenty-Five Dollars a Week.

Dear Miss Fairfax: I am 21 years old and I am going about with a young adv the same age. At present I am earning \$25 a week, but this lady does not think this is sufficient to be married on. Do you think this lady is right, or do you think two persons could live comfortably with this amount? I am deeply me love with her and would not like to give her up. would have passed by before the ball had would do well to wait a year or so, but separating the cannon from the to begin life with him on \$25 a week is

second; of the earth's gravitation, or you go to him and tell him that you have in learned a sad lesson through your own On the 6th it is in conjunction with Calculated in this way the kinetic foolishness in being so ready to listen to Venils, on the 5th with Jupiter, on the energy of the earth comes out at more gossip he may forgive you. If persistence 18th with Saturn, and on the 22d with than ninety septillion (90 followed by 24 fails, then you must return his gifts and Mars.

The Heavens in January



By WILLIAM F. RIGGE.

The monotony of the last few months will be broken on the night of the 19-20 by a partial eclipse of the moon. The annexed diagram will give the particulars. The largest circle is the earth's penumbra, and the next in eise the earth's shadow-N S E W being their cardinal points. The five small circles represent the moon at important moments on the long oblique line, which is its path with respect to the umbra and penumbra. When its center is at A at 12:05 a. m. on the 20th, the moon enters penumbra. At B at 1:55 the moon enters shadow. At C at 2:40 we have the middle of the eclipse. At D at 3:34 the moon leaves shadow, and at G at 5:14 the moon leaves

Only 16 per cent of the moon's diameter will be obscured in the earth's shadow, so that this eclipse is not worth the sacrifice of an hour's eleep. To make amends for this the moon promises to eclipse the sun for us on February 3.

All the great planets will be visible in the early evenings. Venus is conspicuous in the southwest, setting on the 15th at 7:44 p. m. Jupiter is higher in the sky Dear Miss Fairfax: Up to six months than Venus, and sets on the 15th at 10:31

> after, the positions of the planets may be found for other days of the month. The moon is new on the 4th at 10:45 p. m., in first quarter on the 11th at 2:35 m. full on the 20th at 2:29 a. m., and last quarter on the 27th at 6:35 p. m.

The days increase in length 48 minutes | and nearest the au-

during the month, being 9 hours 10 minutes long on the 1st, 9 hours 26 minutes on the ith, and 9 hours 58 minutes on the list. On the 2d we have the latest sunrise of the year, 7:54. The standard times of the rising, meridian passage and setting of the aun and moon at Omaha during the month are given in the follow ing table:

	#UN. 1			1000	MOON.			1
- 1	Rine.	Noon.	išet.	JAN.	Rise	Nouth.	Net.	
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なは ものまでる	7 53 7 54 7 53 7 53 7 53 7 53 7 53	12.38 12.29 12.39 12.30 12.30	5.05 5.05 5.05 5.07 5.08	Nun. Mon. Tue. Wed. Thu. Fri. Bat.	5 19 6 38 4 85 8 27 9 28 10 66	12.02 1.06	3.22 4.32 5.52 7.18	.8
9,10,112,14,15	7.62 7.63 7.63 7.63	12.81 12.32 12.33 12.33 12.33	5.11 5.12 5.13 5.14 5.14	Sun Mon Tue Wed Thu Fri Sat	16 33 10 51 21 18 11 41 12.06 12.41 1.18	5.91 6.40 7.35 5.00	10.81 11.58 36.6dm 1.93 2.07 3.11 4.13	.10 .11 .12 .13 .14
16. 17. 18. 19. 30. 32.	7 49 7 49 7 46 7 46 7 47 7 46 7 46	12.34 12.34 12.35 12.35 12.35	5,30 5,30 5,33 5,33 6,24	Sun. Mon. Tue. Wed. Thu. Fri. Sat.	2.60 2.59 3.50 4.56 6.58 7.00 8.07	10.54 11.48 Midn 12.30 1.18	6 49 7 96 8 01	16 17 18 19 20
23.4.66.37.28.28	7.45	12.36 12.36 12.36 12.37 12.37	5.30 5.30 5.30 5.31 5.32	Mon Tue Wed Thu Fri Sat	10.18 11.21 Midn 12.31 1.42	3 28 4 10 4 56	9 15 9 87 9 87 10 30 10 47 11 23 12.08	.33 .34 .35 .36 .37 .38
30. 31.	7 40 7 30	12.87 12.87	5.37	Sun	6 10 5 17	8 35 9 40	12.58 2.66	.30

The dot or period between the hours and minutes indicates p. m. times. The times not so marked are a. m. sun is slow the whole month on the sundist time, the exact amount in minutes being found by subtracting 12:24 from the times given in the "noon" column. the list the sun enters Aquarius. On the ld at 7 a. m. the earth is in perihelion

Want Married Women to Teach College Girls

By ADA PATTERSON.

New York is not a progressive city. Western cities have left it far behind in the race of modern improvements in truf fic and in mental progress. It shows the latest Paris-born gowns in its shop windows a few weeks before they are displayed in cities further west, but for progress in matters that are vital we must look beyond Manhattan Island. Proof of this is found in that a memper of the New York school board has

said. "No unmarried woman should be permitted to instruct girls in college." If Mary Wolley, that superb woman who founded Mount Holyoke college for women, were alive, he would dismiss her. So Miss Willard, who Russell Sage told me was the loveliest weman he had ever known and the greatest, would have to pack her trunk and depart and that with despatch, from the seminary she graced and Illuminated, because she did not number among her posecssions, la hus-The dean of Barnard college would have to say farewell to her girls, and the dean of Bryn Mawr would be deposed because she had not concentrated

sufficiently upon how to win that great prize-man. And along with the departing founders and deans of girls' colleges would go a mornful procession of others of the unfit. commissioner of Correction Davis of New York would have to hand the keys of her office to some woman with a certified mate. Jane Addams would have to leave Hull House to run by its own momentum unless a woman with a trousered attachment could be found to assume its direction. Julia Lathrop would never have been permitted to do her work as the head of the child bureau of the Department of Labor, Lillian Wald would be driven from the Heny House settlement which she established. Saint Sophie of New Orleans would lose her halo, placed there by a grateful city government for her founding of the needed free night schools of that city. Dr. Annie G. Daniels, who for thirtyfive years has administered healing to the friendless poor of the East Side, would have to cease her ministering. Allea C. Smith would cease her labors among the unfortunate women of New York, a post which is nominally that of probation officer of the night court for women, but that has earned for her the title of "The Christ Woman." The little missionary of New York would have to resign her volunteer office of the friend of those in dire need, because she had never qualified as a wife.

Just what is this necromancy that man exercises over women that makes them so much more capable after than before taking husbands? Living under the same roof with a lordly male causes a woman to cultivate forebearance. She needs a vast patience. She must become schooled in meekness. But these are negative virtues. The positive, upstanding ones with which a girl, companioned only by her own soul, can face a stormy world with-

Need Was Only Temporary. Broad-By the way, old man, do you nember borrowing \$10 from me six onths ago

Short-Yes. Broad—And you said you only wanted t for a short time. Short—And I told the truth. I didn't seep it twenty minutes.—New York Sun.

out fear, can wrest from it what she instructing college girls. The good mosphere.

the colleges, Mr. Member of the New tenuse, York school board. One of them might teach your daughter or your granddaughter the difficult art of standing alone. which she may need. Who is so strong that he can guarantee that she will not

it is a good but not a sufficient one for whe is,

needs, are not often grown in such at- mother will be tee good a mother, if the little one at home has croup, to fix her Better leave the spinster teachers in material mind upon squaring the hypo-

> There's a main business in life for every woman. It is family or work. Either of them requires 90 per cent of woman's limited energies.

And don't forget that she mother who might have been may have a heart as The qualification of motherhood? Yes, big. as tender, as that of any mother

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