

# The Bee's Home Magazine Page

## What a Modern Young Woman in a High Place Thinks : : :

By ADA PATTERSON.

The minds and eyes of many are turning toward a slender, graceful, clear-eyed young woman who on New Year's day will ascend to a place of vicarious honor. That her high place is one secured merely by sharing it with the one who earned it makes it none the less precious to her.



She is the wife of a brave man and an honest one, whose state has rewarded him for his bravery and honesty and great ability by electing him governor of his state. Because she is the wife of the man so honored, eyes and minds turn toward her, as I have said, with kindly interest. As the world loves a lover, so it loves those who have well earned their success.

She is young to share honors so great. On New Year's day when the keys of the executive mansion of her state are handed to her she will be 33 years old. Those keys, rusty perhaps and heavy and unlovely, save in their significance, will be her husband's birthday gift to her. Need I tell you that they are more welcome to her than a taira of rubies?

Before two months have passed within the quaint walls of the old gubernatorial mansion another life will have dawned into being, and the 4-year-old daughter of the honored pair will have a small brother or sister.

The outlook of view is the individual. The outlook of this young woman, raised to such a place of honor and social power and far-reaching influence is of interest and weight because of its influence. Every one stands for some dominant principle, some ruling thought, that governs his or her life. Mrs. Charles Whitman, wife of the governor of New York, stands for home cheer and for the future as well as the present welfare of her children.

"My life hasn't prepared me for the career of the wife of a public man," she told me, while this crowning honor was nearly two years away. "But I doubt whether any preparation is necessary. One must take good care of him, must keep him healthy and keep his house well. Of course, I am frightened when I think of the danger he is in in the discharge of his duties as a public man, preventing murderers and their vindictive friends. Last summer when I had to take the baby away from the hot city to the mountains and my husband was alone here at business, I was petrified with fear. But I never told my husband that I was afraid. His nature is of the up and down kind and we are always gay and light-hearted when he is about. If we were not, his spirits would drop. I don't want to interfere, even by moods, with what he is doing."

"Which is worth your coiffuring, O wife in every station."

She is not a shouting woman. She makes little noise about her beliefs. But she has the large view and sees far into the future with her singularly clear, bright, far-seeing eyes. She worked with organizations for making working conditions and living conditions better. She is not addicted to social clubs, but she is a member of societies who work for the betterment of life.

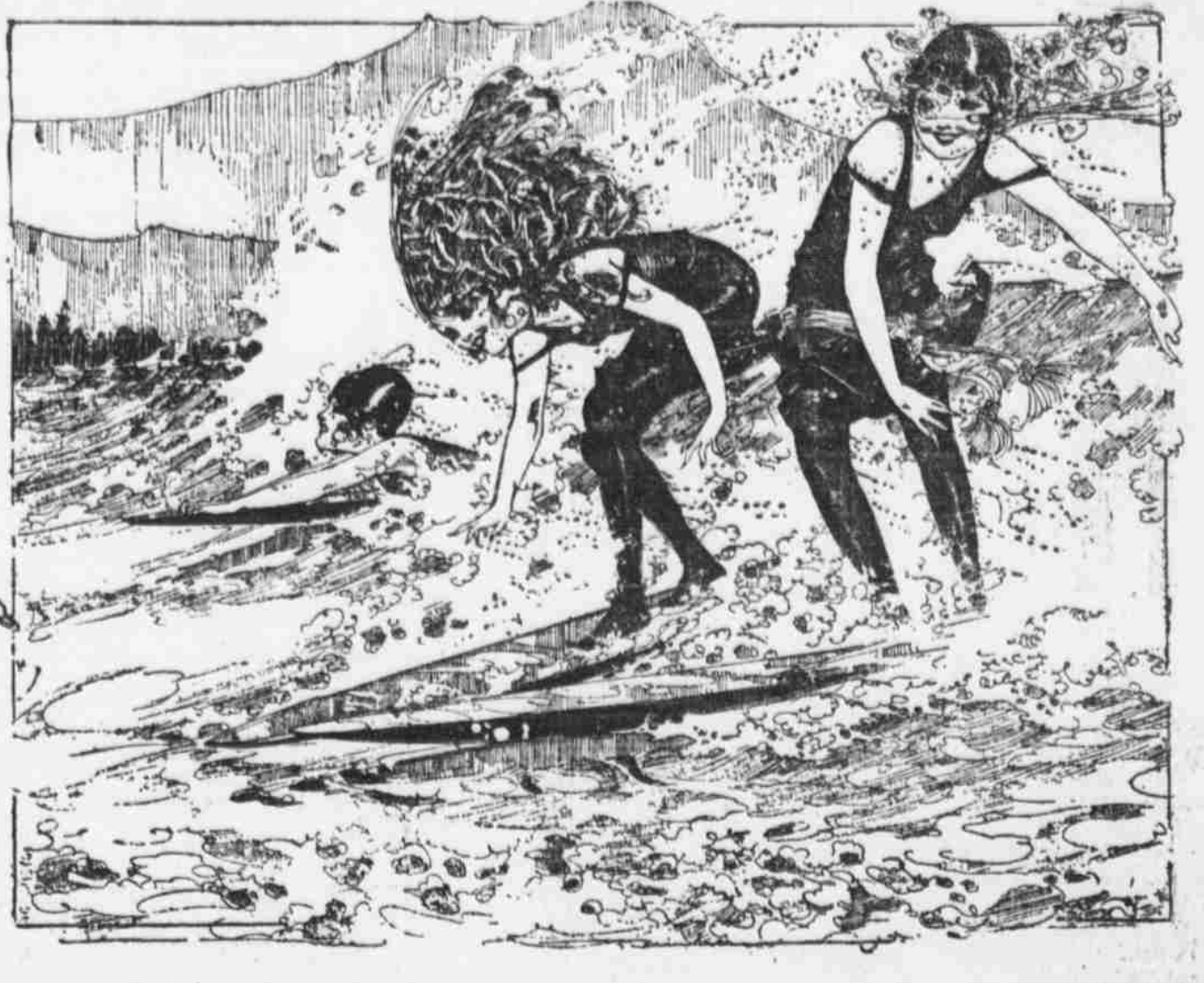
"As a mother, I naturally look forward to the future, and give consideration to what the future will hold for children when they are men and women," she said. "Women who do not give thought to interests outside the home, interests which will later on affect them and the lives of their children, are not doing their duty by the future race."

The wife of the governor of New York sets all womankind an example by her own practice; she is teaching those who will heed to look over the ruins of their home world into the wider world which, too, is their home.

## "Coming and Going!"

By Nell Brinkley

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Comin—the bright-cheeked skating girl, with her furs and toque, her gay sashes and woolly sweaters, her knight at her rough-shod feet buckling on her flashing runners to the tune of her laughter, the crackling trees with their muffling of snow, the sky clear like the thrilling note that rings inside a wall, the pond-sheet stretch-

ing like a blue-gray dulled mirror slashed and marred with the winged skates and ringing with their grinding song. Coming—the summer girl of the sea—riding the jade breakers with their torn lace trimmings—beaded with the salt water on eyelashes and nose and ear tips—glistening and brown—black-clad, with arms and throat

bare to the wind and the water and the sun, like golden buds emerging from an ebony sheath—short-skirted, comfy from head to foot, revelling in the warm heart of summer-time and rioting in the last little stingy days that are left. Going—the sea girl and hot sand and soft sweet winds, Ah!—Nell Brinkley.

## Marvels of the Starry Universe

The Great Law of Inverse Squares and the Wonderful Consequences that Result from It—The Unthinkable Size of Some Distant Stars. : : : : :

By GARRETT P. SERVISS.

Two readers of The Bee request me to discuss the law by which the brightness of a star increases or diminishes inversely with the square of its distance. I have only space here to point out the meaning and some of the consequences of this law, which is one of nature's edicts, affecting us in thousands of ways of which we almost never think. It governs all kinds of radiant energy, light, heat, etc., as well as gravitation. If you double the distance from the source the intensity of the energy diminishes to one-fourth; if you halve the distance the intensity increases four times, and so for all fractions and multiples of the original distance, which in every calculation should, for convenience, be counted as unity, or 1.



The law can be demonstrated geometrically by holding a square screen before an electric light emanating from a small point, and letting its shadow fall on a white wall. If the screen is half way between the wall and the light the shadow will have four times the area of the screen. This shows that when the light falls uninterrupted on the wall the same quantity is there spread over four times as much surface as it covers at half the distance. Consequently the intensity, or brightness, of the light is diminished four times in traveling a double distance from its source.

If this law did not apply throughout the universe the starry heavens at night would blind us with their brilliance, and the heat of the sun by day would be unbearable. The law of inverse squares is the constitutional guarantee of the stability of the universe. Among other things it affords a wonderful perspective in the depths of space. Tyndall found that the light of an ordinary candle can, on a clear night, be seen at the distance of one mile. The light of the sun (at the sun's surface) equals that of about 1,600 septillions of candles! (16 followed by 25 zeros). At first sight you might suppose

that that tremendous number should represent the distance in miles at which the sun would appear of the brightness of a candle seen one mile away. But the law of inverse squares shows us that we must take the square root of 1,600 septillions, which is forty millions of millions, in order to get the distance in miles at which the sun would appear no brighter than a candle at one mile.

Thus we see that if the sun were only about one-fifth as far away as the star Capella it would be a mere glimmering point in the sky! The law of inverse squares produces many striking contrasts and deceptions

in the heavens. There is, for instance, a well known and very beautiful pair of stars called "The Twins," in the constellation Gemini. Their names are Castor and Pollux. To an inexperienced eye they seem about equal. But Pollux is three and a third times farther away in space than Castor, and applying the law to that fact we find that Pollux is, in reality, eleven times more brilliant than its twin!

Whenever we succeed in measuring the distance of a star we can quickly calculate its actual brightness if we begin by comparing its apparent brightness with that of the sun. Thus the superb

star Sirius is known to be about 60,000,000,000 miles away. The distance of the sun is about 93,000,000 miles. In round numbers, then, Sirius is 640,000 times as far away as the sun. Now, the square of 640,000 (again using round numbers) is about 400,000,000,000. From this it is evident that if the sun and Sirius were of the same actual brightness the former should give us 400,000,000,000 times as much light as the latter. But careful measurements show that the sunlight exceeds the light received from Sirius only 16,000,000 times, from which we infer that Sirius exceeds the sun thirty times in actual brightness.

The same method of comparison shows that the North Star is fifty times as bright as the sun; Betelgeuse, in Orion, 600 times as bright; Regulus, in Leo, 1,000 times as bright, and Rigel, in Orion, 100,000 times as bright; and Canopus, in Argo, more than 10,000 times as bright!

The sun is one of the smaller planets belonging to its small sun—what, then, is man that the Almighty should consider him? Perhaps the answer could be found in the fact that man, in spite of the insignificance of his immediate surroundings, reaches boldly out with his intellect and grasps the universe!

# Important Announcement

Next Monday, December 28th

BEGINS OUR

# Year End Clearing Sale

All Holiday Merchandise,  
All Wearing Apparel,  
FOR MEN, WOMEN and CHILDREN  
All Staple Lines in Which  
Assortments Are Broken

Will Be  
Marked Down  
to the Lowest  
Possible  
Point

Our business for Fall, Early Winter and the Holidays has been enormous, and we are left with immense quantities of small lots here and there, that we insist must be sold before January 1st. This sale is like a *dividend* to you. Don't fail to take advantage of it.

Watch Next Sunday's Papers for Announcement

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## DIAMONDS - WATCHES ON CREDIT CHRISTMAS



No. 22—This exquisite "Perfection" Diamond Ring stands alone as the most perfect ring ever produced. Finest quality pure white diamond, perfect in cut and full of fiery brilliancy. Skillfully mounted in our famous "Perfection" 6-prong ring, 14k solid gold. Cased in velvet ring box ready for presentation. Regular \$50.00. **TERMS: \$5 A MONTH**

**OPEN TO-DAY AND THIS EVENING Christmas**  
For the Convenience and accommodation of our customers and friends who have been delayed in completing their Christmas shopping, and for those who have been surprised by the receipt of Christmas presents and wish to reciprocate, our store will be open all day to-day—Christmas—and every evening during Holiday Week. **Our ANNUAL HOLIDAY CLEARANCE Sale Begins to-day and continues to and includes New Year's Day.** This great Holiday Sale is the event of the year, and affords you an opportunity to obtain a fine Diamond, Watch or other artistic Jewelry at 25 to 40 per cent below actual value. Confidential credit terms to all.



No. 34—You can not possibly find a Holiday present for the money that will give the pleasure and practical serving of a good dependable watch. This genuine, accurate time-keeping Elgin, Waltham or Hampden Watch, in 16-year guaranteed double-struck gold filled case, adjusted to temperature, incrustation and position, with movement guaranteed 25 years, only \$12.75. **\$1 A MONTH**

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