



MISS MARY A. BOOTH.

A Woman Scientist Who Has Not Had a College Education.

Miss Mary A. Booth of Springfield, Mass., is a woman who is well known to the scientific world. Microscopical research is her special field, and she has written many valuable papers on the results of her experiments.

She is a fellow of the Royal Microscopical society of London, one of the few women to be admitted to that society; a fellow of the American Association for the Advancement of Science, a member of the American Microscopical society and a member of the New York Microscopical society.



MISS MARY A. BOOTH.

belongs also to the Washington Microscopical society, the Brooklyn institute and the National Geographical society.

She has contributed to all the leading American microscope journals and to some of the foreign periodicals. She has been offered the editorship of several such journals and edited the Practical Microscopy eight years.

Miss Booth has not had a college education, but was moved to study microscopy by her love for nature. Her father, Samuel Colton Booth, was a noted mineralogist whose collection of mineralogical and geological specimens was donated to the Springfield library by Miss Booth.

When a physician orders light diet for one who is just beginning to recover from a severe illness it is well to know exactly what dishes "light diet" includes.

Her mother's family was literary, the Bartons of Vermont, of whom Clara Barton is one.

In 1877 Miss Booth bought her first compound microscope and has used it constantly since. Not only does she use the microscope skillfully, but she prepares her own lantern slides by the use of the microscope and camera work which is rarely attempted by women.

She entered the lecture field several years ago and has been a success from the start. She has traveled to various parts of the country, and her lectures have been well received everywhere.

She illustrates the lecture by the stereopticon, for which she has prepared the slides herself.

She is a member of all the prominent women's societies in Springfield, and, although hampered by ill health, often prepares valuable papers for them.—Boston Globe.

Effect of Women in Business.

Instead of the business world suffering from the advent of women, it is the home that is suffering from the age long defection of men. If it is true that every occupation has its masculine side and its feminine side, then it is true of the domestic occupations as well as of those belonging to the world of business, and it is evident that the home will suffer from an undue predominance of one element over the other.

That our homes are not running smoothly; that fads and boarding houses multiply and divorces and nervous prostrations, instead of proving that women ought to stay at home and set things right, may well mean that women need the fresher air and wider spaces of the business world, the relief of doing things on a big scale, the calming effect of working impersonally. Business hours may be—and I think are—unnecessarily hard for a woman, but at home she has no hours at all. Her work, as the old saw has it, is "never done." I met a young woman recently who said that she had never known good health until she went to work in a downtown office and was obliged to keep regular hours.—North American Review.

Housework "Easily Done."

The sensible housewife considers her guest has paid her a compliment when he remarks, "How easily you do your

work!" It may be that the guest knows very little about it, but the fact remains that to him the work of the housewife seems easily done. This means that the household machinery is well oiled; there is no rushing here and there after something needed at the last moment. There is no fussing when some one happens to be late to a meal. There is no fluttering in and out and jumping up, excusing oneself to rush to see if the biscuits are burning. There is no scowl on the forehead of this housewife who does her work "so easily." The woman who frowns and jumps and runs and frets and fusses will sooner or later break down and be a chronic invalid. Such a woman is a burden to herself and no consolation to her family. The more silently the wheels of domestic affairs are made to run the healthier the family and the happier the wife and mother.

Several cases of what is called "corset cancer" are reported. It occurs in women who are obliged to use incessantly the right arm in their work the whole day long, the growth appearing at the site of the greatest friction—i. e., just above the upper edge of the corset. One woman so affected was employed in a fur factory, her work being to scrape the fur of rabbits' skins with a blunt knife so as to make all the hairs of a uniform length. Another woman had been employed in a laundry, ironing clothes.

Cancer would not occur in these cases unless there was a predisposition to it, yet it might be well for women who are obliged to use their arms in a constant and fro movement at their work not to wear a corset when so employed.—Newark News.

Family Fire Drill.

A family fire drill occasionally, where there are little children, is an excellent plan. Provide them with a wool dressing gown and slippers to keep near the bed and teach them at the first alarm of fire to slip them on, throw a blanket or rug over head and shoulders, and if possible tie a wet handkerchief, preferably silk, over their mouths and then take the most direct way out. Teach them how to put out a small fire with rugs or blankets, stopping direct drafts by closing doors or windows, and, above all, to keep cool and collected.

A Shampoo For Dry Scalp.

A splendid tonic shampoo for a dry scalp can be made as follows: Take two ounces of white castile soap, one-half an ounce of potassium carbonate, eight ounces of alcohol, two ounces of tincture of quillaia, twenty drops of oil of lavender and eight ounces of water. Dissolve in the water the potassium carbonate and soap, then add the other ingredients. Rub well into the roots of the hair and then rinse well in several waters. Dry if possible in the sun, never in front of a fire, as this will make the hair brittle.

What "Light Diet" Means.

When a physician orders light diet for one who is just beginning to recover from a severe illness it is well to know exactly what dishes "light diet" includes. Here is a list given by a careful doctor of the writer's acquaintance: Clam, chicken and mutton broth, broiled filets of chicken, lamb chops, tenderloin steak, delicately cooked game, soft cooked eggs, dry and milk toast, cereal in small portions, koumiss, cocoa, custards, fresh fruit, gelatin jellies and sponge cake.

Saratoga Potatoes.

A southern housekeeper celebrated for her excellent Saratoga potatoes describes her method. It is the familiar one, with one variation. After the potatoes are sliced as thin as shavings they are thrown into cold water until crisp. Turn this water off and pour on boiling water for an instant. This takes out all the starch. The cold water should be turned on again quickly and left until the slices are crisp. Wipe dry and fry, a few pieces at a time, in a frying basket.

A Straight Backbone.

Regarding proper poise of the body, a straight backbone is the first essential. This lifts the chest, sufficiently without straining and flattens the abdomen, giving proper breathing position. Never prepare for a breath; always be ready, standing straight, and the lungs will develop while inhaling and exhaling through the nose.

Matting.

In sweeping matting always make the strokes across the breadths. Use a soft broom. A harsh, stiff one wears and breaks the fiber. Water rots the fiber of matting, therefore in wiping it wring the cloth very dry. Salt and water will brighten matting. Grease spots can be removed with blotting paper and a warm iron.

For Double Chin.

For a double chin massage up and down along the cheeks and sides of the face, down along the jaw, horizontally on the sides of the neck and back and forth under the chin. Ten minutes' vigorous massage two or three times a day will often produce in a fortnight a remarkable result.

Silk may be restored by sponging, and while quite damp it should be rolled on a broomstick and left until quite dry. Silk should never be ironed for fear of glazing.

No woman does her best except when she is cheerful. A light heart makes nimble hands and keeps the mind free and alert.

After bathing tired feet in hot water it is very soothing to rub them with olive oil.

Castors should always be a part of every shirt waist box or box couch.

An Animal Story For Little Folks How Fido Was Avenged

Fido was a good dog, but Fido had one enemy. He made no enemies himself, but this one happened. It was Terence Muldoon, who lived on the next street and who took a special delight in tying tin cans with strings to the stubby tail of Fido.

One day Terence had cornered Fido and in spite of his growls of protest had tied an unusually large can to his poor tail. Down the street Fido tore, the can hanging and bumping along over the stones. It was a hot day, and Fido's little tongue hung out of his mouth helplessly. Every one stood and laughed. But Fido was going mad. He frothed at the mouth; his eyes stuck out. People cried "Mad dog!" and at last, after many attempts, a policeman shot him. They buried him in Dog cemetery. But that night Ter-



HE HAD TIED TO HIM A HUGE CAN.

ence Muldoon could not sleep. He dreamed that he stood at the end of a long street paved with cobblestones, wondering how far it was to the other end, when he heard a whirring sound, as of wings, behind him, and, looking around, he saw a sight that made his hair stand on end. There in the air above him, with a ribbon round his neck and a halo above his head, like a saint, was Fido, supported on two gorgeous wings of snowy white. His eyes were big and staring, and he wore a most fearful grin. Terence did not stop to look again, but at once took to his heels and ran. Suddenly he heard something clattering on the stones behind him, and, turning, he saw that he had tied to him a huge can. He saw also that the dog spirit was flying after him. He thought he heard it yell "Mad boy!" Just then the winged Fido made a great swoop down at him. He yelled "Help! Help!" and woke up. But the other dogs in Terence's street are now sleeping safely and without fear.—St. Louis Post-Dispatch.

An Animal Story For Little Folks The Grasshopper's Sign

Who would think that anybody had a better right to play around in the bright green fields than the grasshopper? And yet when he made his appearance in the meadow the other day he was confronted with a sign which read:

KEEP OFF THE GRASS.

"Now, who could have put up that sign?" meditated the grasshopper, as he sat on a blade of grass and thought. "I am sure it must have been Mr. Butterfly," he continued, "because he doesn't like me at all. But I can't



HE SAT ON A BLADE OF GRASS AND THOUGHT.

keep off the grass. This is my home, and I am not able to climb trees or live in the water.

"But there's that sign," he added; "what am I to do about that? I suppose the best thing is to use it in some way to keep the butterflies from worrying me any more."

So off he went to a paint shop and got a bucket of paint and a brush. Then he returned to the field where the sign stood, and at the bottom of it he painted these words, "Hopper's Flowers."

And now the sign was altogether different, for it read:

KEEP OFF THE GRASSHOPPER'S FLOWERS.

When the butterflies came along that way and read the new sign and saw Mr. Grasshopper marching about the field with a big club in his hands they decided that it would not be wise for them to stay around there any longer, and they had to go to another meadow to find flowers to feed upon.—Pittsburg Dispatch.

THE PUZZLER

No. 251.—Triangle. 1. Rural. 2. Junction. 3. A perpendicular line from one end of an arc to the diameter drawn through the other end. 4. One of the extremities of the foot. 5. A preposition. 6. A letter.

No. 252.—Picture Puzzle.



The name of a bird is represented in the picture.

No. 253.—Reversals. Reverse a first appearance and have a first appearance. Reverse a deck on a ship and have a deck on a ship.

No. 254.—Concealed Word Square. Each sentence indicates the word concealed.

- 1. Five helpful fingers are better than diamond rings. 2. Tropical sunshine like a halo encircles this stately plant. 3. This letter is not even one page in length. 4. Game abounded in the forest's shade ere the woods were cut away.

No. 255.—Riddle. I am in papers and in books; I'm oft within your hand; I'm on the street where or one looks; Sometimes I lonely stand. Sometimes I soar high in the air, Some more just like me under, And then the country people stare And gaze aloft in wonder.

No. 256.—Misling Rhymes. Cease wondering why you came; Stop looking for faults and —; Rise up — in your pride and —; "I am part of the first great —; However full the world, There is room for an earnest —; It has need of — or I would not —; I am here to strengthen the —."

No. 257.—Rhomboid. Crosswords: 1. A Mongolian. 2. Relating to nativity. 3. A glossy, close woven silk. 4. Engages for pay. 5. Point directly opposite the zenith.

Down: 1. A letter. 2. A preposition. 3. An aeriform elastic fluid. 4. A western state. 5. An ancient language. 6. An Italian silver coin. 7. A boy's name. 8. Two letters from sign. 9. A letter.

No. 258.—Jumble. "Ring not shall tonight curfew." "Voices soft when vibrates music die when memory in the." "Wise madness be defer today 'tis to."

No. 259.—Decapitations. Behold repentance and have the lesser white heron. Behold a joiner's tool and have a narrow passage or street. Behold a puddle of water and have a whip.

Mixed Mathematics. Master (setting a problem)—If one camera can take a portrait in six seconds, how many cameras will be required to take the same portrait in three-fifths of a second?—Pick-Me-Up.

Fishing For Fischer. A fishy old fisher named Fischer. Fished fish from the edge of a fissure. A cod, with a grin. Pulled the fisherman in. Now they're fishing the fissure for Fischer. —Cincinnati Tribune.

Not on Speaking Terms. She—Did you know Mr. Raymond's wife? He—Not to speak of. I was engaged

to her at one time.—Illustrated Edits.

Quite Contrary. The trust it is a wondrous thing. The marvel of the time; The more we're shouting "Down with it!" The higher it doth climb.

Key to the Puzzler. No. 242.—Primal Acrostic: Milton. 1. Merman. 2. Instep. 3. Linden. 4. Thorax. 5. Osprey. 6. Nonage.

No. 243.—Charade: Moss, key, toe (mosquito). No. 244.—Word Building: An, ran, near, learn, angler.

No. 245.—Anagram States: Minnesota, California, Rhode Island. No. 246.—Metagram: 1. Fun. 2. Sun. 3. Dun. 4. Hun. 5. Tun.

No. 247.—Connected Diamonds:

I IL M N MAT NEW AUENTS NEWER MOTHERS KISSING MANHATTAN NEWSPAPER HATTLES REPAIRS MOTTO RAPID HAT PET N R

No. 248.—An Old Adage: Two heads are better than one. No. 249.—Poetical Wheel: 1 to 8 and 9 to 16, "Paradise Regained." 1 to 9, poor. 2 to 10, acre. 3 to 11, ring. 4 to 12, aria. 5 to 13, deml. 6 to 14, iron. 7 to 15, sure. 8 to 16, eyed.

No. 250.—Deletions: Paint, pant. Pant, put, Pump, pup, Poke, Poe. Place, pace, Pear, par, Pike, pie. Plot, plot. Copal, coal. Cost, cot.

BRAN WATER. A Tonic For Overworked Women Who Are Afflicted With "Nerves."

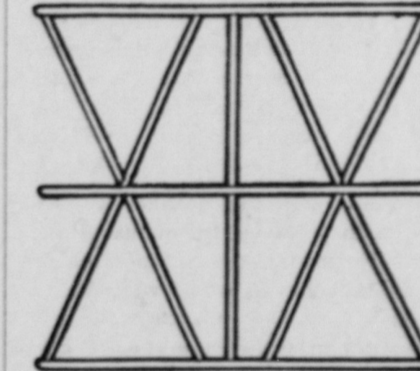
Overworked women who have the "nerves" should drink bran water between meals instead of tea, and instead of eating factory made biscuits or crackers or white bread and butter or "anything that is handy," when they feel fatigued.

The phosphates in the bran will develop a steadiness of nerve that will enable them to work out their life in such a way as to make overwork no longer necessary.

Bring three pints of water to a boil. Add a coffee cupful of bran—just ordinary bran such as the horses eat. Have the water actually boiling when the bran is put in and let it boil without a cover until the bran no longer floats on top of the water. Shaking the saucepan helps to settle it. Cover and boil slowly for ten minutes. Strain into a pitcher. Let it stand and settle for several hours and then pour off the top and drink it. It is best to reheat it if convenient. Drink two or three cupfuls a day.

Bran water does not taste particularly good, but it is not really bad either, and in this age of white flour it is just what every system needs.—Maxwell's Talsman.

A Safety Device. I once wove a nursery stair gate out of pieces of lath. In fact, the pieces were from the frames of several broken window screens. The idea oc-



A STAIR GATE.

urred to me while weaving some kindergarten sticks, says a Good Housekeeping correspondent. The gate can be made any height or width, according to the angles of the weaving and the length of the slat. My stairway is twenty-nine inches wide, and the gate is twenty-six inches high.

Washing Stockings. It is recommended that a little vinegar be added to the water in which stockings are rinsed after being washed. The stockings should then be dried wrong side out. Colored stockings will be unfaded and black ones will retain their original luster.

Rheumatism Neuralgia

To these two diseases probably mankind owes more suffering than to all others combined. While neither is ordinarily perilous, nevertheless Rheumatism lays the foundation for heart disease and Neuralgia leads to the morphine and opium habits. No matter how mild the case may be these troubles should never be neglected. A reliable remedy applied promptly will prevent endless pain and many sleepless nights.



Hamlin's Wizard Oil

is such a remedy. Its use will bring instant relief in all cases and final cure in the great majority. Hamlin's Wizard Oil has cured thousands of people from all parts of the world. It can do the same for you.

Whitley, Tex. I have had Rheumatism for ten years and was nearly helpless. I tried several remedies and found no relief. I tried Hamlin's Wizard Oil and one bottle cured me. Mrs. KATE BETTY.

Omaha, Neb., Jan. 1, 1900. My mother was troubled with Facial Neuralgia for 13 years. She used six bottles of Hamlin's Wizard Oil and it cured her. We are never without a bottle of it in the house. J. COLWAY.

There is only one Wizard Oil—Hamlin's—name blown in the bottle. Signature "Hamlin's" on wrapper. Take no substitute. 50c. and \$1.00.

Hamlin's Cough Balsam

Hamlin's Blood & Liver Pills

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