



The Pearl and Its Microbe.

Women who are fortunate enough to possess pearls wear them constantly. In so doing it is said that they prevent their being injured by a microbe which attacks them when they are laid away. This little parasite eats through the outer coating of the pearl, destroying its beautiful sheen and leaving only the dull substance underneath.

Girls Take Naturally to Carpentry.

A course of lectures on education was inaugurated the other day in Association hall by the committee on domestic economy in the Woman's Education association. Dr. John Dewey, professor of pedagogy in Chicago university, was the speaker. In the course of his address he said:

"The introduction of domestic economy in the schools is largely along the line of future services for girls, and is a wise innovation. In my experience boys are no more proficient in carpentry work than girls, and the same may be said of cooking in the elementary grades, for it is a child's nature to speculate on what's coming next, and cooking and carpentry offer good subjects in that direction."—Boston Herald.

Chinese Sewing Women.

In nearly all of the principal cities of China native sewing women are to be seen seated on low stools or perhaps on the sidewalk, mending articles of masculin wearing apparel. The accomplishments of these street seamstresses are somewhat limited. Their efforts with the needle being confined as a rule to "running." Other branches of needlework are practically unknown to them. As a consequence their efforts are better appreciated by natives than by American or English travelers. They are never short of patrons among the Chinese tradesmen for these have come to the city to engage in business and have no one to mend a rent for them, their wives being left at home, and they are glad to employ street needle women. For this class of customers the skill of these sewing women answers every purpose.

Golf Gloves.

Golf gloves are hard to find—that is just what one would wish. The heavy kid, with the holes in the back and in the palm to give ventilation, protect the hands very satisfactorily, as do also the gloves of wash leather. But there are some gloves made for golf or for driving that are made of a silk mesh, looking like the crochet or netted work on the purses. These have kid palms, with holes for ventilation. They are cool, wash well, and the kid on the palms protects the hands very satisfactorily. They are expensive and hard to find, but are exceedingly smart for any one who wishes to carry out her fancy of wearing all white. Nothing looks better, for with a pique skirt the ordinary white kid glove of place, whereas these gloves look what they were designed to look—useful, and made for a certain purpose. The plain white chamolis or wash leather serve the purpose when these special golf gloves are not to be found.—Harper's Bazar.

A Housemaid's Club.

The maid servants of Monette, Mo., known as the "Housemaids' Club" for the protection of their own interests. Whenever a member loses her place she brings the matter up before the club, stating her grievances. A vote is taken. If she is sustained the whole club set themselves to work to find her a new position. But the vote must be unanimous. If there is any opposition she leaves the place at her own risk. The girls take pride in keeping up a good standard of work, but the following rules show how fully they look after their own interests:

1. No restriction is to be placed upon the number of callers that a girl is allowed to entertain. She must be permitted to regulate her visiting list as the mistress regulates hers.
2. Every evening out, at the maid's pleasure, after 7.30.
3. No answering of the bell on wash days when there is only one servant in the house.
4. Every Sunday afternoon out.

"Wages—Not less than \$3.25 a week, with board and room.

Summer Shirtwaists.

The raglan shirtwaist is the newest with its sleeve carried up into the collar. The latest sleeve is the easy-fitting bishop with a straight, narrow, cuff lapped over in a point. A stylish and practical material is the striped Scotch madras in its new colorings, which show a great diversity of choice. Other tailor fabrics are heavy white duck, or butcher's linen. Among the preferred goods, excellent for washable waists are the figured chevrons, or those of plain color with contrasting borders, fancy pique or corded linen. Lovely dainty waists are created from the inexhaustible variety of fine cotton textiles, exquisite in their decoration of lace stripes and figures, embroidery, hemstitchings and shirtings. Among the new imported summer cotton goods are silk-finished French chambrays, flowered and embroidered India mulls and faintly tinted mouseline brillante. The season's shirtwaists are generally made without yokes in order to preserve fashion's long lines from

shoulder to belt. The fronts, finished with the usual box-pleat, are laid in small tucks or plaits in the shoulder seam.

Several varieties of sailor blouse have appeared with the regulation deep collar and shield. One form of collar is developed into revers in front, with the usual sailor-back.

A modification of the Russian blouse is another fashionable model, the overlapping side bordered with Russian embroidery as well as the stock and cuffs.—American Queen.

How Fashions Are Created.

"How are new fashions created?" is a question that must certainly suggest itself now and then to women.

Those unacquainted with Paris chiffon and its mysteries probably suppose that the fashion artist spends much time in studying the harmonious contours of his favorite model, with her elegant figure, reposeful air and graceful attitudes, which lend themselves to the varied manifestations of his genius. They picture her patiently submitting to the envying manipulations of the essayeuse, who tries, measures, selects and discards according to the capricious combinations of a chief who changes his mind with a suddenness born of genius in search of the ideal. Finally, they fondly imagine, he arrests the essayeuse's movements with a nervous, imperious gesture. He has found his ideal. The new fashion is evolved.

Alas, this romantic conception is seldom realized. A fashion does not, as a rule, emerge—complete, unique, perfect—from the brain of one sartorial genius, however eminent. More often it results from the collation of isolated ideas, which, floating in the ambient air, are studied, analyzed and materialized. But after what efforts, failures and modifications!

Fashions frequently originate in the fertile brains of Montmartre artists, hundreds of whom are constantly designing, inventing and copying. They derive inspiration from pictures of the dogeesses of the fifteenth century, the marquises of the seventeenth century and the elegantes of the empire. These painted beauties furnish their modern sisters with many a lesson in coquetry and adornment. Methods differ in various houses, of course, but as a rule any sketch, idea, design or suggestion is immediately on receipt submitted to the chief. He forms his opinion. Then, discreetly, he consults two or three of his principal collaborators in whose judgment he has perfect confidence. Expert in the art of selection, endowed with an artistic intuition fortified by the ripest commercial and social experience, they are qualified to decide. Should the idea be adopted, the house imparts life and grace to the conception, adapting the picturesque sketch of the artist to its practical purpose—the beautification of a modern belle riche enough to pay for genius applied to la mode.—Washington Star.



Satin foulard is one of the smartest of spring fabrics.

Polka dots and hemstitching are prominent features of the latest neckwear.

Mercerized linens are the top-notch of the mode for the coming shirtwaist.

Gold effects, finished with gold ferret buttons, are salient features of the newest waist girdles.

Blue and black hse stockings for spring, with three embroidered clocks, come for wear with tan Oxfords.

All bishop sleeves for shirtwaists have narrow bandlike cuffs, so the link cuff buttons may be laid away.

Chiffon, net and point d'esprit fichus are to be more worn this summer than last, but sailor collars and revers will be quite passe.

Lace has only a secondary place as a trimming this season, even the sheerest of materials being ornamented with embroidery instead.

Three shaped flounces, one overlapping the other about two inches, and covering a space of 18 inches from the hem up, make a very pretty skirt trimming.

Embroidered mulls and batistes in white come in a variety of dainty designs for blouse waists which require no trimming or tucking beyond a little edge for the finish of the collar and cuffs.

It is prophesied that straps will be the favored shirtwaist garniture of the season, and next the perfectly plain design will be the vogue. Except for the very diaphanous fancy ones, tucks, it is said, are to be relegated to second place.

The different shades of red are all fashionable this spring, and some of the smartest gowns that as yet have been exhibited are of this vivid coloring, toned down sometimes by elaborate trimmings of ecru or guipure lace, again left open with no relief.

A novelty is a waistcoat of yellow lace. It is made with a very long pointed front, builded over chameleon velvet or satin, the color of the lace. It is buttoned with handsome metal buttons, and the top edge is finished with a binding of gold braid or Persian embroidery or velvet.

Ruffles will be used in abundance on the skirts of gowns this summer. The newest ruffled gowns have the ruffles quite untrimmed, but they are applied to the skirt in rows far enough apart to show very distinctly the pretty lace insertion that serves as a heading to each flounce.

SCIENCE AND INDUSTRY.

In 1889 the production of aluminum in the United States was about 22 tons and in other countries 71 tons, while in 1900 the United States produced about 4000 tons and other countries about 7500. Copper telegraph and telephone wires must be twice as heavy as aluminum in order to do the same work, and 6000 tons of aluminum used for sheathing or roofs will replace 20,000 tons of copper.

A successful experiment in the use of single lines for simultaneous telegraphing and telephoning is reported from Berlin. The system is employed by the fire brigade of that city. Each fire-cart is provided with a portable telephone apparatus which can be attached to the alarm pillars in various parts of the city, and operated with the same wires employed for telegraphing. Experience has shown that the switching in of the telephone in no way influences the telegraph service. During simultaneous telegraphing and telephoning a slight knocking is perceptible in the telephone, but the noise is not sufficient to destroy the audibility of the messages.

In the island of Cyprus is a basin cut off from the sea, although sunk slightly below sea-level, which contains a salt lake from which a considerable harvest of salt is annually obtained in August, when the fierce summer heat dries up the water. C. V. Bellamy, who recently visited the lake called Larnaca, thinks sea-water percolates through the rocks into the basin, thus supplying the salt. A single heavy rain in midsummer has sometimes sufficed to ruin the salt crop, and the Cyprians, in order to protect the valuable lake as much as possible, have constructed channels to carry off the flood water of rains from the slopes of the basin into the sea.

A new machine has been devised that will utilize in fabrics the flax waste that has been formerly sold for the manufacture of paper. Henry W. Wing is the inventor, and he has taken the device to Bradford, England, where most of the flax is spun. Since the installation of the machine at Bradford it has been discovered that the appliance was equally useful in spinning asbestos and peat moss, or in fact, any other substance that has sufficient staple to hold in the form of a textile. The work of the machine is so carefully and excellently done that it is almost impossible to tell what the original material was that has been spun into the fabric. Just what commercial name will be given to the spun flax waste or what it will be used for has not been determined, but doubtless it will be found available for many purposes that require a coarse, hard fabric.

A very peculiar bridge is being constructed over the Mary river, at Maryborough, Queensland, in that it is being designed so that its surface will be submerged several times during the year at the seasons of high floods. The idea in building the bridge in this way is to save the material that would be required to build it sufficiently high to escape submersion at high water. The country on the banks of the Mary river lies so low that the approaches would have to be extraordinarily long to be entirely out of the water during floods, and this would have involved an immense expense, so that it was decided to disregard the floods, and build the bridge for use during low water, and employ boats during the comparatively short time that the water would cover the bridge. The bridge will clear by 12 feet and six inches at ordinary high water. The highest flood level is 33 feet, so that at times the bridge will be submerged more than 20 feet.

Our New Coast-Defence Plant.

The United States will shortly possess a plant capable of turning out for coast fortifications, and complete in every detail, the world-famed Gruson turret. Not only is the plant assured, but work has actually commenced on the erection of the necessary buildings, and to such an extent have the plans progressed that the casting of the plates for the initial turret could, if required, be commenced in six months' time.

The raison d'etre of the new industry is primarily the recommendation of the Endicott board of ordnance and fortifications, calling for emplacements for 22 turrets at coast points of the United States; but in the main the new plant owes its being to the conditions which confronted this country on the breaking out of war with Spain in 1898, and to existing conditions which make imperative the adoption of a system impregnable to gun attack.

The new organization is called the Gruson Iron Works, and will carry on the manufacture of all descriptions of chilled iron-work and heavy castings requiring special strength and resistance for naval and marine work.

The interests associated with the new company include the largest manufacturers of chilled iron in America, and the works will be equipped with everything requisite for the manufacture of the largest chilled castings to which the particular plant for finishing Gruson turrets can be quickly added.

The site for the new works is on the banks of the Delaware at the little town of Eddystone, and distant only a few miles from the city of Chester, Penn. This site was selected largely because of its tide-water facilities, and with special reference to the needs which must arise incident to the shipment of heavy turret equipment.—Harper's Weekly.

Advertisement for 'A Match Starts the Meal' featuring a 'WICKLESS BLUE FLAME OIL STOVE'. The ad includes an illustration of the stove and text: 'No Fuss No Muss', 'If your dealer does not keep them, write to the nearest agency of ATLANTIC REFINING CO.'

Advertisement for 'Cascarets' featuring a diagram of the human digestive system labeled '30 FEET OF BOWELS'. The ad includes text: 'Made CLEAN and STRONG by Cascarets LIVER TONIC', 'BEST FOR THE BOWELS', 'NEVER SOLD IN BULK', and 'GUARANTEED TO CURE'.

SIXTY DOLLARS Worth of staple goods free to one intelligent man or woman in every county of the U. S. Write quick, New Jersey Mfg. Co. (Incorp.), Jersey City, N. J.

CHEWING GUM FREE Write for particulars and sample. NEUROLOGICAL MEDICAL COMPANY, Hornellsville, N. Y.

Dr. Bull's Cough Syrup Safest, surest cure for all throat and lung troubles. People praise it. Doctors prescribe it. Quick and sure results. Refuse substitutes. Get Dr. Bull's Cough Syrup.

A Missouri man at Nevada drinks a good, big amount of whiskey, but only consumes the pure moonshine quality, which he has shipped in from the mountains of East Tennessee.

All goods are alike to PUTNAM FADELESS DYES, as they color all fibers at one boiling. Sold by all druggists.

Only one colored soldier wears the Victoria cross—Lance-Sergeant Gordon, of the West Indian regiment.

France changed its Constitution four times during Queen Victoria's reign.

Ask Your Dealer for Allen's Foot-Paste. A powder to shake into your shoes; rests the feet. Cures Corns, Bunions, Swollen, Sore, Hot, Callous, Aching, Swelling Feet and In-growing Nails. Allen's Foot-Paste makes new or tight shoes easy. At all druggists and shoe stores, 25 cts. Sample mailed FREE. Address: Allen S. Olmsted, LeRoy, N. Y.

On some of the Japanese railways terra cotta sleepers are used. They are far more durable than those of wood.

If You Have Dyspepsia Send no money, but write Dr. Shoop, Racine Wis., Box 148, for six bottles of Dr. Shoop's Restorative; express paid. If cured, pay \$5.50; if not, it is free.

Austria and Mexico have resumed intercourse for the first time since the execution of Emperor Maximilian.

Advertisement for W.L. Douglas shoes, featuring an illustration of a shoe and a portrait of the inventor. Text: 'W.L. DOUGLAS \$3. & \$3.50 SHOES UNION MADE', 'WE USE FAST COLOR EYELETS', 'FACTORY, BROCKTON, MASS.'.

The German city of Cassel will celebrate the thousandth anniversary of its foundation in 1913.

Garfield Headache Powders: A good, common-sense remedy for the cure of headaches; one powder cures. Try them—your cure will repay you.

Four bushels of potatoes contain the same amount of nourishment as a bushel of wheat.

Hessie's Croup Cure Will check a cold in one hour, and cures Croup in a few minutes. 50 cents.

Spain's kingdom of Asturias boasts of twenty-eight centenarians in a population of 600,000.

Frey's Vermifuge Saves the lives of children. 25c. Druggists and country stores, or by mail. E. & S. Frey, Baltimore, Md.

Some men spend the last half of their lives discovering the mistakes they made in the first half.

FITs permanently cured. No fits or nervousness after first day's use of Dr. Kline's Great Nerve Restorer. \$2 trial bottle and treatise free. Dr. R. H. Kline, Ltd., 931 Arch St., Phila., Pa.

About fifteen of the capitals of the States in Mexico have an altitude of 5000 feet or more.

Advertisement for 'A WISE MAN WEARS TOWER'S TOWER'S FISH BRAND OILED WATERPROOF CLOTHING'. Includes an illustration of a fisherman and text: 'WILL KEEP YOU DRY NOTHING ELSE WILL', 'TAKE NO SUBSTITUTES—CATALOGUES FREE', 'SENDING FULL LINE OF GARMENTS AND HATS', 'A. J. TOWER CO., BOSTON, MASS. 46'.

AGENTS WANTED for the Brohard Sash Lock and Brohard Door Holder. Active workers everywhere can earn big money always a steady demand for our goods. Sample sash lock, with price, terms, etc., free for 25c. Postage. THE BROTHER CO., Department 12, Philadelphia, Pa.