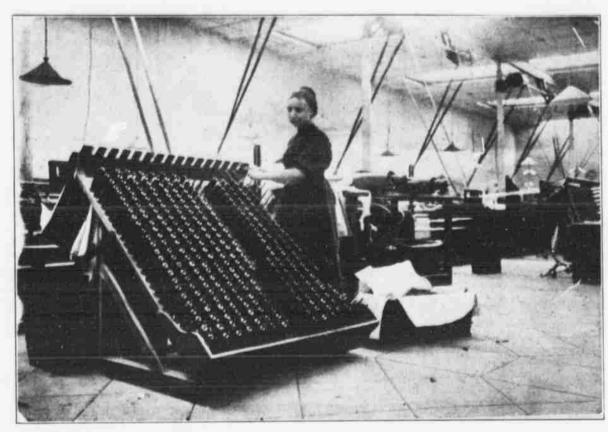
Lyons--The Velvet Metropolis and Its Factories



SILK WORKERS ARE BARE-ARMED, BARE-HEADED GIRLS



IN THE SILK REELING ROOM

(Copyright, 1902, by Frank G. Carpenter.) YONS, France, Oct. 15.-Special Correspondence of The Bee.)-I am in the silk center of the world, where for more than four centuries the finest gowns of the belies of all nations have been turned out on common hand looms. Lyons makes about \$90,000,000 worth of silks and silk goods every year. Its satins and velvets go all over the world, and within the past few months it has been busy making the rich red velvets which were worn at the coronation of King Edward VII.

The city is the commercial center of middle France, and, next to Paris, the chief city of this republic. It took me eight hours on the railroad to cover the 200 miles between here and Paris, and I now find myself in the rich valley of the Rhone, in one of the most beautifully located of

Lyons is surrounded by hills. It lies on the lowlands, under the mountains, at the confluence of the Rhone and the Saone. On the other side of the Saone are the Heights of Fourvieres, with a great tower upon them, up which we shall climb for the view. We walk through the town, passing the site of a Roman palace in which the most cruel of the Roman emperors, Claudius and Caligula, were born; we go over one of the Saone bridges and by a cable railroad are elevated to the foot of the tower. Another elevator takes us to the top, and we are 600 feet above the river, hanging, as it were, high over the city. Behind us are the Golden mountains of Lyons, and beyond them, over a valley of gardens and trees, are the mighty Alps, their snowy peaks forming a ragged silver mars against the clouds. The day is clear and we can see the snowy cap of Mont Blanc 100 miles away. Turn about now and look down into the valley. There is the Rhone, fresh from its glacier cradle in Mont St. Gothard, and nearer still, flowing almost at our feet, is the Saone, winding about through the town side by side with its twin sister, the Rhone. Between the two is the greater part of Lyons, and as we look we see the silvery streams embracing the municipal maiden in her silken clothes and going singing on together to the sea.

Stop a minute and think where we are, We are in the heart of one of the oldest parts of Europe and on the site of one of the most famous cities of France. This Rhone valley was a trade route in the days of Julius Caesar and great fairs were held here in the middle ages, to which merchants from Amsterdam to Ventce and from other parts of Europe came to buy and sell. The Gauls had a town on this site 600 years before Christ was born and at the time Christ lived here was a Roman city. On this very hill one Roman emperor caused 20,000 Christlans to be massacred and in the days of the French revolution the Tribunal, finding that the guillotine would not kill the Lyons aristocrats fast enough, tied them together with ropes in rows of sixty and executed them by wholesale with cannon leaded with grape shot.

center. It contains 500,000 people and with its suburbs has about three-quarters of a million. Standing here on the tower you can see the smokestacks of its and there, across the valley, on the other Cross), the hill where the silk makers



GENERAL VIEW OF LYONS FROM FOURVIERES.

looks more like a residence section than an industrial one. Still Lyons has hundreds of silk factories and the most of them are situated upon that hill.

Suppose we visit it. We descend by the Saone, cross the bridge and take the trolley car through the city to the cable station at car, dropping a sou, or 1 cent, at the turnstile, for that is what is charged for the We enter a box car where a score ride. of silk workers are standing, and in a mo- francs per day. ment find ourselves riding to the top of the hill. A few steps from the station above takes you into the heart of the silk industry of Lyons. We can tell it by the click! click! click! which is heard on every street and in every hallway. The houses are lean five-story structures, built along alley-like streets, with narrow entrance doors. They look like tenement buildings and they are indeed little more than tenements, great beehives filled with laborers, every cell of which is a little factory. Most of the work in the great silk department of the Rhone is done on hand looms, and there are 400,-000 men thus employed in this department. Even where power looms are used the work is largely that of house industry, several weavers having, in a single room, looms worked by electricity, paying therefor a

few cents per day per loom. We enter one of the buildings and walk The Lyons of today, however, devotes clicking going on as we mount from story Rhine; the English have long neen known itself more to business than to politics to story. The building is rudely constructed as makers of fine silks, the Russians are or religion. It is a great manufacturing and without modern conveniences. We doing some wonderful weaving near Moscow knock at a door, pounding loudly in order and the Italians are rapidly regaining the that we may overcome the noise of the place they held in the middle agas as one weaving. A Frenchman in his shirt sleeves, of the chief silk-manufacturing peoples of with a cap on his head, opens the door and the world. It used to be that the most of looms and they have had them remodeled car shops, tanneries and chemical works asks us to enter. He has just left his loom the raw silk brought from China came to so that they can now earn 75 cents and upand at our request he again goes to work. Marseilles; a large part of it new goes to side, is the famous Croix Rousse (Red The loom is old-fashioned, and he works it Genea on the North German Lloyd Atlatic live, where the fashions of generations from one side to the other through the steadily grows. have been woven and where today some silk threads. He is making a pattern of of the most beautiful cloths of the world dress goods which may eventually be worn the trade of Lyons more than any of the The hill looks but little by some of the four hundred, or may shine European countries. Before our civil war like a manufacturing center. It has no perhaps on a Virginia belie at a White we annually contributed about \$30,023,600 to vast brick buildings, walled with windows. House reception. I ask him his wages, the Lyons silk weavers. Now we caske 90 such as you see in the factory towns of He replies that he earns 3 francs and a per cent of the silk we consume, and, not-

ten years, and is one of the best paid men do not amount to more than \$10,000.600 a

in the building.

Going on, we enter room after room. armed, bare-headed men and women weavday and the women 48 cents.

is furnished by a society at such a rate mills on the American plan. that a man gets electrical power for 5 cents a day and pays for his loom on in- mill of this country. It has 420 looms and stallments. With such looms the men can make better wages, working in the same room in which their families have been living and working for generations.

I have talked with many of the silk men of Lyens, both factors and laborers. find a general belief that the days of such house industry are numbered. Lyons has been gradually losing its standing as the chief silk-making center of the world. Other countries are coming into competition with it, and its trade is slowly but steadily falling. Germany is making beautiful silks with the best of modern machinery at Kreup the narrow stone stairs. We hear the feld, not far from the left bank of the with his feet, throwing the shuttle by hand lines, and the output of Italian silk goods

The United States, however, is injuring

year. The French writers claim that the falling off in their trade is due to our pro-Each has one or more looms, with bare- tective tariff, which has built up the silk industry of Paterson and other American ing away. All kinds of silks are turned cities. In these places the silk is made in out and the wages in all cases are low, large mills, and the cost is so reduced that wall covering. The faces of the most noted the foot of Croix Rousse. We go into the The men earn on an average 60 cents a American commercial travelors are now men of France are thus woven as well as best selling American silks in Europa We alworkmen sometimes earn from \$1 to \$1.25 ready weave two-thirds as much silk as and a very few as much as \$2.40, or 12 France and our silk coports may not become one of the features of the american In some buildings we find the looms commercial invasion of Europe. I am told worked by electricity, the lightning hav- that a number of the Prench factors have ing been called to make brocades and silks already removed their plants to the United for our women's dresses. The electricity States, and that others are remoteling their

> I visited this afternoon the biggest silk two or three times that many employes. The the best of modern silk weaving machinery hands are bare-armed, bare-headed girls, is used and a great part of it bears the well dressed and in many case good look- mark of American manufacturers. An ing. They are the daughters of the mea American sewing machine sews the pattern who work on the house looms and are the cards together, and American methods of descendants of many generations of silk weaving are employed. All kinds of silks, weavers. The mili is somewhat like a great velvets, plain and figured goods are made cotton factory, save that more bright coland the thousands of spools make a maze of brilliant tints and shades. The factory is well lighted, and it is equipped with all on the Croix Rousse, after going through the modern conveniences of our factories, the silk factories of that neighborhood. This The wages are very low and there is no trouble in getting employes.

> I was interested in the velvet works. The dustry, although power looms are generally used. The weavers have found they can not make wages by using their old hand wards per day. Much of the velvet woven in Lyons is brocade, and that in most beauti- They belong to the rich and the poor, many ful patterns. Silk and velvet curtains are made, some of which cost as much as \$800 a pair. I saw velvets today which sell for \$70 a yard, and was shown curtains which and also cepies of his designs. The school require four months to weave. The finest teaches all matters about the breeding of of the velvets are made in these little

The velvet is woven about wires, the our country; it has no smokestacks pour- half, or 70 American cents, a day of eleven withstanding our enormous increase in threads being cut through to the wires with ing volumes of black into the clouds and hours. He has been working at his trade wealth and population, our Lyons purchases a knife and the wires taken out. The vel-

vet has to be made thread by thread, each line being cut separately, so that a slip of the knife would ruin the cloth.

I visited one factory which made 8,000 vards of red velvet to be worn at the coronation of King Edward, and another where I was shown specimens of furniture coverings made for one of the Vanderbilt families at a cost of \$21 a yard. Think of paying \$21 for a chair scat! And this is what the stuff costs in France. The price will be doubled by the time it gets into one of the Vanderbilt palaces and is fitted on to its iuxurious sofas. Every time one sits down upon it he or she will cover a yard of it. It would make me uncomfortable to sit down on \$42 at one time.

The very best of the French silks seldom get to the United States, as our duties make them almost prohibitory. Velvets which will sell for \$4 a yard in Lyons would cost \$10 a yard in New York and silk brocad at \$5 a yard would be doubled in price after they had passed through our custom house and paid the charges of the middle-

I have gone through some of the largest of the Lyons silk stores. They are to be found in buildings not unlike factories. You enter an unpretentious stairway and on the second or third floor may find a door with a little brass sign marked with the name of the merchant. Entering you come into large rooms with long counters running through them. There is no silk on view, for the goods are stored away in cases or drawers until brought out for customers. The rooms are well lighted and parts of them are walled with mirrors in order that the colors may be shown by reflected as well as by direct light. Some of the oldest styles are the most beautiful, and these are repeated from age to age, new designs are being continually invented and the greatest artists of France are engaged in designing. The French are noted as designers, and they have schools here which teach designing. Some of the factories make pictures in silk both for the decoration and fancy pictures of all sorts.

Lyons is doing all it can to foster its silk industry. It has its technical schools which teach all branches of silk manufacture. Young men come here from all parts of the world to study how to make silk, and many work in the mills for that purpose. There is one school which charges from 800 to 1,200 francs a year as tuition. The 800 francs is the charge for Frenchmen and the 1,200 francs that for foreigners. In this school here, under the superintendence of the most ors are used. In the reeling room the skilled workmen, the boys doing the work-threads are of all the bues of the rainbow, themselves with the professional silk men as overseers.

I visited the Lyons municipal silk school, school is sustained by the city, and is open only to Lycnnese youths. Any Lyons boy who has reached the age of 15 can enter finer of such goods are made by house in- upon the payment of \$1.73 and learn all about silk weaving, designing and pattern making. The course of day study is ten months, and there is in addition a night school, in which a course of three years is required.

> There are about 300 pupils in this school. of them being the sons of common laborers Every boy has to keep a diary of his work. with the patterns of the silks he has made, silk worms as well as all kinds of weaving and designing. The professor in charge, a kind looking old Frenchman, wearing a

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