SONGS OF THE SCIENCES-MEDI

cos the *Pons Variolia* many times a day.

physiology, With a l that Foster, Carpenter and Huxley well We'll hope you'll pay attention to profe can show.
You'll find how blood goes through the lungs, and how they're oxidizing it;
How certain foods can do us good, while others de

How constant foods can do us government us haven;
The body's like a steam engine, 'tis really not surprising it ould take a regular amount of fuel to keep With chemistry, and pharmacy, and surgery, and

Mon cannot cure the body till you've amply stored the mind. come when we are ill, like some be quisitor;
Or gailant feats of surg ry shall startle all the town; aging into lunsey you may become a vis-Autointed by the Chancellor, like Dr. Crichton

Merc, surely, is a grand career—to cure our poor hu-Of all the ills to which our flesh is heir-a noble

To wage against each fell discuss, and give the properties life. And when you've studied all you can, in order catewhen you have worked at every branch of science under sun.

Wou'll find—the illustration's not my own, but is

You pick up pebbles on the shore—you've only just begin!

LODGINGS TO LET.

An Episode of the French Exhibition

During the Exposition, Paris was visited by mania for lodge-letting. From the middle of April, hanging up at the doors of the houses, in the fashionable and central neighborhoods of the French capital might be seen bills with "Joli apartement meuble a louer present ment"—"Handsome furnished apartments to let;" and many a family, many a widow, many a bachelor or widower emigrated to some distant outskirt, giving up their apartments to strangers or foreigners, in consideration of receiving some thousand francs, while they themelves nestled down, during the great influx, in some humble locality, within or without the walls. In letting, there was no distinction of nation made; the terms were the same for one and allfor the native compatniot, as well as the Milord Anglais for the German Baron, as well as the Russian Boyard, the Polish Count, the dollar-laden American for everybody, in short, who could pay; that was the one condition.

Madame de Y----, ayoung and hand some widow of 25, who, on the first of April in that memorable year, had thrown off her weeds, resigned herself, among the rest, to the reigning epidemic. One morning she ran for the lodge-keeper of the house in which she resided in the Chausse d'Antin, and ordered him to nail up at the portecochere the universal bill.

"Bless my soul! what running up and down I shall have of it!" exclaimed, in petto voce, with a piteous shrug, the seemingly-disconsolate porter, but who inwardly rejoiced at the circumstance; for he, also, hoped to reap a golden harvest from the new-comers.

"N'importe, Andre," continued the charming young widow-"N'importe let my apartment for 3,000 francs, and you shall have your commission of-let me sec-5 per cent, if to a bachelor or widower; 4 per cent, if to a married couple without any infantile encum-brances; and 3 per cent., if to a family and there are 5 francs to drink my

"Alas! alas!" greaned the portecochere Cerberus, as he pocketed the silver piece and promised, in a tone of melancholy devotedness, to do his best. That evening the widow, accompanied by her femme de chambre, took up her quarters in a small cottage near the village of Fontenay-aux Roses, outside the Barriere d'Eufer, and contiguous to the pretty Bois de Meudon, where she rusticated in the full enjoyment of her inde-pendent widowhood till the expiration

of the term.
On the 2d of August following, Madame de Y returned to Paris, and drove to her residence, believing that her apartment, which had been let by the concierge, was vacated and ready for

"Madame," said Andre, "the gentle-

"Magame, said Angue, "take gentleaman has not yet gone."
"What gentleman, Andre?"
"The lodger, madame, Moncieur de
is—, a provincial gentleman, very
comme il fant. Yet it is not my fault,
for I informed him, three days ago, that
his time was up, and that he must ge;
but he said to me that it was all right. but he said to me that it was all right it was his affair, and he would square

"Go and inform him. Andre, that I have returned, and want my apartments immediately." "Useless, madame—completely ase-less. He was headstrong as a donkey;

he wouldn't listen to me; it is with you alone he wishes to confer." "Le it so, Andre. Go before and an-

nounce me. Madame de Y was received most graciously and politely by the premincial tenant, who thus addressed her:

"You cannot conceive, madame, how comfortable I find myself in this your pretty apartment, and how much I de-sire to spend in it the remaining time I have to stay in your charming capital; and I foully hope you will have the goodness to allow me so to do. What-ever be your terms, I accept them be-

To this the widow replied, somewhat surprised, that she had no terms to pro-pose; that she wanted her apartment, and must have it. But greater still was her surprise when she heard the provin-cial declare his determination to keep it, even if it was necessary to stead a regular siege. Madame de Y—end-avored, as gently as possible, to make him understand the impropriety of his conduct; but all ten avail, for the tenant pleaded his correction. ed his cause with grace, eloquence and

wit. The debate became warmer and warmer, the gentleman losing, and the lady gaining no ground, while Andre slipped away to his lodge, informing his better-half that the storm was gathering above. At last, after much speechifying on both sides, the gentleman, breaking a pause of apparently deep reflec-

Well, madame," said he, "there re mains but one way to arrange our little dispute, so as to enable you to resume possession of your delightful residence,

without ousting me from it." "What is your meaning, sir?" de-manded the bewildered young widow, looking still more charming in her

My meaning is this, madame; name is Arthur—Baron Arthur de B—. I belong to an old and honorable family —am a bachelor, and 32 years of age.

My estates are worth 50,000 francs a
year—but this I mention out of respect
to the laws of business; and despite the originality and queerness of my conduct, which may perhaps have offended you, I am considered a very good-natured person; and, upon the whole, I flatter myself I am a man fully capable of making a last heave. ing a lady happy. Will you, therefore, do me the honor of accepting my heart, my hand, and my fortune?"

To this sudden proposal Madame de Y— replied with dignity: "Your jest is not in very good taste, sir, and all I can do is to laugh at it."

"Serious, most serious, madame, I am indeed—and, on the faith of a gentleman, I beg you to believe it."
"What, sir! you propose marriage

merely that you may not have to give up my apartments!"

"A little upon that account, madaine. but still more because of a more over powering reason; for among the many considerations I have had the honor of laying before you, there is one I dare not mention, but allow me now to confess it-I love you.'

At this avowal, Madame de Y-blushed to the eyes. What lady, young or old, would not have done so, particularly when the avowal came from a young, handsome and wealthy man? However she took it in good part, and laughed outright at her interlocutor?

"You are laughing, madame, and "Your folly provokes my laughter, Monsieur le Baron. I really cannot help

"Nevertheless, madame, I can assure you I am fully master of my reason, or at least as much of it as remains, sub-dued as it is by intense passion."

"What, sir! intense passion at first

"You forget, madame, that I have been living three long months in your apartments, and that your portrait, which I now see is an adorable hiseness. is manging up there in the next room. It was the first object that caught my attention on entering, and I have looked at and admired it every day since. Nor was I captivated by the charms of your beauty alone, for I am well acquainted with your merit in every way, your many superior qualities and your irreproachs ole character. A man, however so little he may be versed in womanly affairs, cannot spend three months in a lady's apartment without noticing and studying many things disclosing her habits, her tastes, her feelings. I have been an acute, and, perhaps, an indiscreet, observer, madame; and what I have dis covered has captivated my heart forever. That heart I offer you again, and humbly wait your answer to know my

There was no bombast, no fanfaronade in the Baron's language, it was the resolve of a man who had made up his mind, and was determined to suc But the more he urged his suit, the less he advanced in it; fill at last the widow signified to him, in due form and unmistakable phraseology, that he must instantly shift his quarters—thus giving him his leave, and intimating to him at the same time that he must never think

of setting foot in her residence again.
"Very well, madame—I withdraw, and will not return till you invite me to and will not return till you invite me to do so;" the answer to which parting words was a saucy smile, and a toss of the head which evidently meant, "You have long to wait, Monsieur le Baron, before receiving such an invitation."

However, at the end of a few days, the invitation was sent, and the Baron arrived just as the widow had completed making herself more charming than ever.

"What have I been apprised of, sir?" said Madame de Y- to him, as seated himself in an arm-chair a la Voltaire right opposite to her. "During my absence, you brought my long-pending laws at to an amicable arrange-

"Why, yes, madame; but you must be neither pleased nor displeased with me on that account, as II acted only in

my own interest."
"How so, if you please, Baron?" "The fact is, the lawyers' clerks were calling here with their papers every day and, owing to a heavy and protracted suit I once had myself, I have an utter aversion to every 'limb of the law,' as our allies, Messiours los Anglais, have it. Being acquainteth with your plaintiff, who is a deutor of mine, I made use of my influence over him, and soon got him to forego his unfounded claim, and he made over to me what he called his rights. It is therefore an affair between him and me, But rest assured, mad-ame, that your delicacy and susceptibility shall never have to complain of my proceedings. Your lawsuit is forever quashed, and that is all!" Whereon the Baron looked the willow steadfastly but respectfully in the face, and gave no

further explanation.

Madame de Y—— was somewhat confused; but, in spite of herself, she was continually forced to think of her extenant. In every room of her apartment he had left some someanir of his sojourn—poetry, penciling, songs, a usic composed by himself, thoughts and maxims, etc., written in her albums and scrapbook. All these gallant attentions scemed nost charming to ther, while they piqued her curiosity; and when that important part of the female constitution is ewakened other sentiments soon come forth and blossom.

Now it happened that, the day after the Baron's sivited visit, a poor woman, the mother of a family to whom Madame de Y __ was in the habit of giving stated pecuniary reliaf, called to thank her for her last munificent donation, which, she said, would keep her and hers forever. "You were absent my too generous benefactress, but I had the honer of saceting fiere with your husband."

"My husband?" ejaculated the wiflow. "Ah, usadame, what an excellent, what a kind-hearted gentleman! Ah, how well you are mated, for you suit each other admirably. Yes, madame, I told him everything and how kind, how Providence like you won to the same of the Providence-like you were to me. He seems to love you very much, and how could that be otherwise? 'Good woman, says your husband to me, madame, 'your benefactress is absent for the time being; but, before she went, she left this with me for you, and thereon he put in my hands a pocket-book con taining bank notes—a fortune, madame. I was loth to accept the first, but he would have me take it, although God knows you have already done much for me and my poor fatherless children. Ah, dear madame, how happy you must be with such a husband! But it is only the just reward of your excellent heart and

Christian virtues. May Heaven bless and preserve you both for years and years to come." "Strange, strange, passing strange!" thought the widow. "Settle my tedious lawsuit—provide for my poor widow and her children—leave some trace of himself everywhere around me! But men are such queer characters, such originals nowadays." She resolved, however, not to speak to the Baron of his generous conduct toward her proteges, fearful lest

she might betray her sensibilite at so noble an action. But another circumstance soon came to light, and caused the Baron to be invited, suddenly and nervously, to call a second time. This circumstance was as follows: A young coxcomb, Leopold de R.—, imagining he had fallen in love with Madame de Y.—, because, living in the house opposite to lers, he had claused new and then to see her at the balcony before then to see her at the balcony before missing her all on a sudden at her departure from her apartment. After many days' anxiety he determined upon writing her a billet doux, informing her of his love, and stating that he would call that evening for an answer. Having written his note, he wrapped it up in a small paper parcel and jerked it over the balcony into the window. It happened that the Baron had just finished the second breakfast he had taken in the second oreakrast he had taken in the house, and was poring over the newspaper when the parcel dropped into the room. He took it up, and, finding no superscription, he opened it and read

no superscription, he opened it and read the following:

Charming neighbor, for weeks and weeks have I admired you from my window-seat opposite. O how superlatively happy shoul? I be were you to do me the honor of admirting me to your presence, and allowing me to declare myself and crave pardon tor my presamption. At 8 this evening, I will call, ask for admission and learn my fate. Till then, minutes will gilde away like years from by imfor admission and loan my law. All the minutes will glide away like years from n.y impatient heart. Farewell till then, goddess on Leopold.

He came, and the door was opened to him by the Baron in propria persona.

"Is Madamede Y—at home?" "She is not at home for you."
"And pray, by what right do you re-

fuse me admission?" " Methinks that right is very evident." "And you are here in her apartment?

"True; but for the time being it is my own."

The dialogue went rapidly on from cross words to a challenge; and on the morrow a duel took place in one of the

-woods of the Bois de Boulogne. This time, Madame de Y---- had every reason, she thought, for blaming Baron's conduct; so another invitation was sent to him, which he duly at-"How is this, Monsieur le Baron?"

said the widow in tremulous and re proachful accents—"expose your life with such a puppy—a life so useful, so precious! O, truly, I cannot but think you more foolish than wise."

"I confess, madame, that I was wrong; but I merely wanted to put the young puppy, as you justly call him, in his right place, and save you forever from his importunities. He scratched me, but I gave him a gentle sword-thrust which will prevent him from annoying you for some time to come. Was that not a service worth having, my charming landlady?"

Yes; but at such a price—the risk of your life and my reputation! Gra-cious! Baron, what will my friends think of me after such an affair? You have compromised me terribly by your generous, your noble, your magnanimous

"'Tis true, very true, dear lady, and I now begin to see I acted too rashly upon the impulse of the moment; and that, in fact, I owe you a repara-

Madame de Y--- thought so likewise. "Well, my dear Baron," said she, proffering her hand, "since it was to be, it must be, so let it be-we are friends

"And betrothed ones, my charmer." cried the enamored Baron, fondly pressing to his lips the widow's ripe, red lips, "And the marriage-day? When?" "Oh, dear me! Mon Dieu, what a man! In a month hence." And the

A Hot-Water River.

The great Sutro tunnel, cut to relieve the celebrated Comsteck mines at Virginia City, Nevada, of the vast quantities of hot water which is encountered in them, affords an outlet to 12,000 tons every twenty-four hours, or about 3.000,-000 gallons. Some of the water, as,it fluds its way into the mines, has a temperature of 195 degrees, while fou. miles from the meuth of the tunnel the temperature ranges from 130 to 135 degrees. inconvenience which would arise from the vapor such wast quantity of water would give off the flow is conducted through the entire tunnel, four miles, in a tight flume made of pine. At the point of exit the water has lost but seven degrees of heat. Sixty feet below the mouth of the tunnel the hot water utilized for turning machinery belonging to the company, from whence it is carried off by a tunnel 1,100 feet in length, which serves as a water-way. Leaving the waste-way tunnel, the water flows to the Carson River, a mile and a half distant. This hot water is being have arranged several pools where they indulge in hot baths. The miners and others use it for laundry purposes, and arrangements are being made whereby a thousand acres belonging to the com-pany are being irrigated. It is proposed to conduct the hot water through iron pipes, beneath the surface of the soil, near the routs of thousands of fruit trees which are to be planted, and in a similar manner give the necessary warmth to a number of hot-houses to be used for the propagation of easy fruits and vegetables.

They Let Him Hunt. Mn making change on the Woodward avenue car mesterday a passenger dropped a pearsy on the floor, and it went under the gratings. Before he made a move to find it, he stood arp in the middle of the car and said: "Ladies and gentlemen, I know just how you feel about this matter. If we been there myself. I know that any one of you adramer put your handin your pockets and give me 2 cents than to see me gdt down on my knees and hunt around for that cent. But let me explain. I do not eare for the money, having over 15 cents left in my pocket, but that penny is an heirloom in the family—a sacred relic to remember the dead and gone—and I appeal to your sentiment to induce you to draw your feet under the seats while I make a general hunt." The passengers good-naturedly complied, and, after being carried four blocks past his corner, the man recovered his sacred relic and jumped off the

ear.—Detroit Free Press. The Happy Conat and the Bull. A very short-lived, conceited little guar settled on the horn of a bull, and sat there for some time. At last, in despair of attracting attention, the insect remarked that he supposed he had been a great burden to the bull all this time.

"Not in the least," responded the bull, pleasantly, becoming at last aware of the existence of the gnat. "I did not know you had come, and I shall not miss you selve you go away. Shook

miss you when you go away. Shooh, fly, don't bodder me!" "Ah!" exclaimed the gust, in tri-umph, "I have at last compelled you

to recognize me."
Moral: Some men are of more consequence in their own eyes than in the eyes of their neighbors. — Galveston

SCRAPS OF SCIENCE.

CERTAIN sounds from a musical instru-ment will affect the flame from a gas jet, ausing it to dance about.

Ir is claimed that more rain falls now in Nebraska than formerly, and that this rainfall is increasing with the march of settlement and consequent cultivation.

A MACHINE for making laces hitherto produced only by hand-work is reported in France. Even old styles of laces, the in France. Even old styles of laces, the art of making which has been lost, can readily be produced. The machine employs from 1,800 to 2,000 spindles, and from 200 to 300 pins. The Moniteur des Fils et Tissu speaks in high terms of the machine and its products, which is said to be fully equal to the best hand-made

AT VARIOUS points in the heavens there are clusters of stars, some of these containing as many as 2,000 distinct orbs. diameter of 180,000,000 of miles—orbs compared with which our earth is as an orange to the dome of St. Paul's; and yet there are thousands of such suns, in one of these faintly luminous clusters, scarcely visible to the eye!

THE effect of the virbrations of sound is very peculiar. Here is an example: A plate of glass or metal may be held between the finger and thumb at one corner, having been previously strewn over with fine sand, then a fiddle-bow be drawn near one of its angles, the sand becomes agitated, and finally resolves itself into the form of a Latin cross. If the bow be drawn near the middle of one of the sides, a St. Andrew's cross will be formed.

In Colorado is a ten-acre field which is no more nor less than a subterranean lake covered with soil about eighteen inches deep. On the soil is cultivated a field of corn which produces thirty or forty bushels to the acre. If one will take the trouble to dig a hole the depth of a spade handle he will find it to fill with water, and by using a hook and line fish four or five inches long can be caught. The fish have neither scales nor eyes and are perch-like shape.

METEOROLOGISTS have found that United States storms usually advance from the Upper Mississippi Valley toward New York and New England. frequently toward Virginia and seldom toward the Carolinas. American storm centres most frequently pass off the coast between 45 and 50 degrees north latitude. The great waves of high barometer, with fierce northwest winds in their front, usually advance from the Rock Mountains toward Virginia and the Carolinas, but less frequently toward New England.

By KEEPING the soil beneath charged with moisture, forest regions tend to make gradual and constant the supply of waters to the rivers and give uniformity to the flow; and hence, when forests are cut away, the rains reach speedily the streams, making them hable to alternate periods of wasteful violence and worthless feebleness. The cutting away of the forest has led, in the French Alps, to ancontrollable floods, despoiled fields and an impoverished people: and in America to annual seasons of dry mill-ponds, an immense sacrifice of available water power and the desertion of many a mill

While our knowledge of the regions surrounding the North Pole has been greatly extended by the energy and enterprise of modern explorers, compara-tively little has been done in the exploration of corresponding portions of the southern hemisphere. At the head of an American expedition Lieut. Wilkes believed that he had established the existence of an Antarctic continent: and this discovery was verified a year later by Sir James Ross, who found the extensive Victoria Land, with mountains 14,-

000 feet high and an active volcano. The Pay of Book-keepers. In this city, where business is widely extended, a book-keeper who has his employer's confidence can keep the lat-ter continually blinded in points of great importance. The merchant will inquire, How much money have we in the bank, Mr. Brown?" Mr. Brown will reply renerally in a correct manner: but may, by ingeniously altering figures, make a delusive show. It is said that "figures will not lie." Naturally speaking they will not, but in the hands ing they will not, but all the mands of a skillful accountant they may be made to do so in a very surprising manner. The book-keeper McGutchen, of the Ocean Bank, succeeded in robbing that institution of \$66,000 before detection, while the book-keeper Leverich, of the City Bank, obtained \$400,000 of that institution. This, however, was an unusual haul, and will not soon be equalled, but it-shows what can be done. If lack of pay could be urged in extenuation, the book-keeper would have a powerful plea. This is always small in proportion to the work required. They are not and never will be paid more than enough to eke out a hard living. Some who have an unusually laborious and responsible position may get what is called a high salary—say \$2,000; but such instances are very say \$2,000; but such instances and you can hire expert hands at \$1,500. The hardest worked book-keeper ever knew got only \$2,000, and had a very extensive set of books, and his neat hand and immense columns of figures were matters of admination, but t was killing work. In large houses the books balanced. He will have his monthly balance sheet, commonly called a "trial balance," ready by the first of the month, and the accurate balance between the debit and credit saids will prove that the ledger has been kept correctly. If an error, even of only a dime, appear, it must be discovered at however great a cost of time and study. and I have known a book-keeper to spend three days looking up just such an item. Hence the work requires great care and an habitual exactness in figures. - New

Raw Oysters.

Dr. William Roberts, in an interesting series of lectures on digestive ferments, published in the Lancet, says: The practice of cooking is not equally necessary in regard to all articles of food. There are important differences in this respect, and it is interesting to note how correctly the experience of man-kind has guided them in this matter. The est cles of food which we still use in the ancooked state are comparatively few, and it is not difficult in each case to indicate the reason of the exemption Fruits, which we consume largely in the raw state, owe their dietetic value chiefly to the sugar which they contain; but sugar is not altered by cooking. Milk is consumed by us both cooked and un-cooked, indifferently, and experiment justifies this indifference; for I have found on trial that the digestion of milk by paper ratic extract was not apprecia-bly hastened by previously boiling the milk. Our practice in regard to the oyster is quite exceptional, and furnishes a striking example of the general correctness of the popular judgment on

dietetic questions. The oyster is almost the only animal substance which we eat habitually, and by preference, in the raw or uncocked state, and it is interest-ing to know that there is a sound physi-ological reason at the bottom of this preference. The 'fawn-color'd mass which constitutes the dainty part of the oyster is its liver, and this is little else than a heap of glycogen. Associated with the glycogen, but withheld from actual contact with it during life, is its appropriative digestive ferment—the hepatic disastase. The mere crushing of the dainty between the teeth brings these two bodies together, and the gly cogen is at once digested, without other help, by its own diastase. The oyster in the uncooked state, or merely warmed, is, in fact, self-digestive. But the advantage of this provision is wholly lost by cooking, for the heat employed immediately destroys the associated ferment, and a cooked oyster has to be di-Astronomers have established the fact gested, like any other food, by the eatthat the smallest of these stars has a er's own digestive powers.

Ingenious But Lueffectual.

In Illinois some gentlemen had a most elaborate plan for obtaining drinks They formed an association for the avowed purpose of promoting temperance, friendship, and such-like virtues One of the associates was already the happy possessor of a dramshop; the asociation bought him out, hock, stock, and barrel; then—for he was a jolly good fellow—they elected him to the honor able and onerous position of treasurer, and left him in charge of the old shop. So anxious were the promoters to extend the benign benefits of temperance and friendship that the doors of their society vere thrown open to any and to all who were willing to pay the nominal fee of one dollar. In token of payment of the fee the member received a ticket upon which were the numbers from one twenty inclusive. When moved by one

"Reasons why men drink; Good wine, a friend, because I'm dry, Or lest I should be by and by, Or any other reason why,"

the member called upon the treasurer, presented his ticket, had a number punched, and received his liquor or his cigar. The treasurer took all the money, gave no account to the others, and bought all the drinkables and smokables. The court was so prejudiced, narrow-minded, and opposed to the enlightening influences of temperance and friendship that it considered the whole affair a fraud and a device to evade the law, and that the treasurer was guilty of unlawfully selling intoxicating liquor.

In one establishment whenever a cus-tomer purchased a cigarette he was handsomely treated to a glass of whisky. The court (knowing perhaps from personal experience the costs of such articles, or having had evidence thereof submitted) considered that the transaction was a sale of the whisky as well as of the cigarette, and acted accordingly .-R. V. Rogers, jun., in Albany Law

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Mrs. C. V. Calmoun,
New York.

A young and well-dressed woman un-mercifully thumping her mother upon the back excited mingled emotions of indignations and pity in the minds of the passers-by on a crowded thoroughfare yesterday. A good-hearted but in-discreet philanthropist who ventured to remonstrate at this brutal exhibition was bidden to mind his own affairs, and at last, after much gasping and cough-ing, the elder lady explained that she had "swallowed a cardamon seed the wrong way," and her daughter was duti-fully pounding her between the shoul-ders to the intent that choking might be avoided. Surely, appearances are often deceitful.—Boston Journal.

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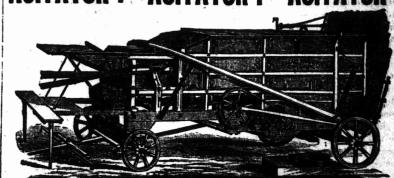
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