

BY THE RIVER.

O, ever changing river,
That seeketh the changless sea,
Where are the forms and faces
The years have show to thee!

PRACTICAL SCIENCE.

A New Celluloid.

This new product is said to be obtained from well selected potatoes which are treated for 36 hours with a solution of 8 parts sulphuric acid in 100 parts of water.

The Blue of the Sky.

M. Chappuis thinks that the blue of the sky may be due to ozone present in the upper regions of the air. He argues that the electrical discharges constantly taking place will produce ozone, and the result is the blue of the sky.

The Comparative Anatomy of Locomotive Engines.

In a paper read by George Burnham, Jr., at a recent meeting of the Civil Engineers' Club of Philadelphia, after pointing out the analogy existing between animals and machines, both being mechanisms to perform useful work.

A Novel Kind of Wire Belting.

Herr J. Jarolimex, of Hainburg, Austria, has brought out a novel kind of wire belting, which is described as follows: The wire is wound on spindles, the diameter of which is as small as practicable, and is obtained, therefore, in the form of a long spiral spring.

Cooking by Electricity.

Of the many curious things certain to be seen at the forthcoming exhibition of electricity at Paris, not the least remarkable will be the electrical cooking range of M. Salgnac. That ingenious gentleman is going to fit up his apparatus in the grill room of the restaurant, and intends to furnish a great variety of meats which he has cooked by heat generated from the electric current.

Fixing the Position and Distance of Objects by the Eyes.

That persons having the use of one eye only estimate distances nearly as well as those having two eyes, is a well known fact. Where a person has lost the sight of one eye, the power of judging by the other has to be acquired.

nearer to the observers than the lens or the mirror. Further, the object projecting a shadow on any surface always lies before that surface. These two things make up the appearance of the objects, and they are rarely overpowered by others; for example, stereoscopic combinations as demonstrated by Dove's pseudoscope, composed of two regular prisms, and showing to each eye a reflected image inverted from right to left.

The "Cry of Tin."

If a piece of tin is bent, it emits a sound; this, being regarded as a proper sound, it has been called the "cry of tin." This phenomenon is explained by the peculiar crystalline structure of the metal. Reasoning that, if this explanation be the true one, then other metals obviously crystalline in structure should also exhibit the phenomenon.

Sweet Girl Graduate.

"Could I see the editor?" she asked, looking around for him, and wondering who she was going to see. "Oh, yes, I'm in," responded the editor, resolving himself, and slipping a cork into his vest pocket. "What can I do for you?"

The Saragossa Sea.

This is the name given to a portion of the Atlantic Ocean covered with the sea-weed Saragossa. Its boundaries may be indicated by tracing a triangle, of which the three corners are represented by the Azores, the Canaries and Cape Verde. Within those limits the sea is clothed on its surface with a garment of vegetable material, so thick as to retard the progress of vessels through it.

Safety in the Water.

When I first went to sea at the age of 12 years I fell overboard in the Bay of Biscay when the ship was going ten knots with studding sails set. A heavy sea was running, and the Captain wrote that he "had ever known any one saved under such circumstances."

Sitting Bull's Latest Speech.

The following speech of Sitting Bull has been specially translated and reported by our Indian editor, who is also wholesale and retail dealer in deceased languages, and general agent for home-made Sioux rhetoric and tanned Indian eloquence.

Lee in Tears at Apomattox.

When it was known that he had surrendered, there was at first some dissatisfaction, but sympathy for Lee soon did away with all individual sense of humiliation. When Harris' Mississippi brigade of Mahone's army, on the morning of the surrender, and ordered to cease firing, most of the officers and men refused to obey, declaring that they would never surrender.

Factors of Mexican Progress.

In the progress and prosperity of any country there are several important factors. Chief among these may be reckoned natural resources, population, education and means of transportation.

Wonders of the Washington Monument.

In 1793 Congress took steps to erect at Washington, then became the seat of government, a marble monument, under which the remains of Washington, who died on December 14th of that year, were to be deposited.

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The following year (1833) a voluntary association was organized at Washington to do what Congress had failed to do. After a variety of delays and vicissitudes the Monument Association in 1859 issued a stirring address to the people, and appointed agents in all the States to solicit and receive contributions.

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Now, it is evident that any rapid progress in Mexico must come through colonization by some higher and more progressive race, or by the introduction of capital in large amounts to develop her natural resources by the aid of the native races, who are generally peaceable and industrious.

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There are great many people, their religion that remind me of "Uncle Phil," a pious old darkey of the old times in Texas. Well, Phil was a fervent Christian, with a great gift of prayer.

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and we had to retain them all and put them into a punt or they did not count. My first sensation on feeling myself in and under the water was to force myself in the customary way to the surface and then, seeing the ship sailing away and the lifeboat apparently close to try the "goon straight-forward breast stroke" recommended by the Secretary of the Swimming Association. Less than a minute convinced me of my error. My cloth uniform was very heavy, as it was mid-winter; I was losing all my strength, and filling my nose and mouth with "spoon drift."

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arithmetical test better. Germany might be demonstrated, "to be in the balance of a nation of continue. Adolphus, the countymen of Gustavus," "id, to be infinitely worse. In Switzerland," he which reformers of the condition of working classes point the finger of envy, and emulation, the rate of alcoholic consumption nearly doubles that of England. The advocates of temperance attempt to answer by repudiating the direct significance of their favorite statistics. They urge that their mission has succeeded in subtracting a large part of the population from the drinkers. Consequently, according to their present contention, the averages they have been fond of insisting on are fallacious in their natural state. They require to be corrected by concentrating them upon the intemperate residuum. Even so, however, their adversaries maintain, if continental States be sober, England is doomed. It is doubtful if any equal area on the face of the globe possesses larger deposits of the precious metals, or has already produced more of them. Her coast lands are for the most part exceedingly fertile, producing in abundance the best growths of the tropics; but they have an unhealthy climate, and can never be developed by the labor of white men.

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with a beautiful young novice who was soon to take the veil. The sentiment was returned, and Brabour arranged for an elopement. His inamorata succeeded in getting outside the convent wall, and the two hurried away to the house of a neighboring priest. The holy man was awakened and requested, to perform the marriage ceremony. "A refusal was a thing to be expected, but Brabour was too cunning for the old man. When he said 'no!' most emphatically, and was about to raise a commotion and have the novice returned to the cloister, a deep sepulchral voice was heard coming from the bowels of the earth. It said: "I am thy father, and am still in torment. Marry thy couple to each other, and my probation in purgatory will be over."

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The frightened priest called upon the saints to protect him, and proceeded to perform that ceremony with greater alacrity than he had ever shown on similar occasions. "Do you ever play jokes?" "Not often. I am not given to such sport as a general thing, but occasionally amuse myself at the expense of others. Last year I was traveling with a musical companion. One day while riding on the cars I threw my voice into a covered basket, and set up a furious barking like a dog. The lady beside whom the basket was sitting gave a scream and bounded out of the seat. Then I made a cat join with the howl, and a broken comical melody which served to quiet the disturbance. He jerked the lid of the basket and found nothing but a lot of delicious peaches the lady was taking home. The crowd was considerably mystified. Then I set a hum-buzzing about the brakeman's ears and he retreated. A gentleman who was standing near by was working so furiously behind him that he jumped about two feet high. Then the lady was made to believe that a mouse's nest had found lodgment in her pocket, and the circus was complete. But I don't believe much in such capers, and generally forego the fun I might have if I felt disposed.

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DOMESTIC RECIPES.

GRIGER SNAKS.—Boil together one pint of molasses and one pound of butter; let it stand till cool; add two table-spoonfuls of ginger and one teaspoonful of soda, flour to roll. Bake quick, in thin rounds, on a flat sheet.

COOKING SPINACH.—When cooking spinach, substitute a little piece of bacon for the salt pork usually cooked with it to season it. The bluest way to serve it is to put it in individual vegetable dishes, and put a bit of the bacon in each dish. Hard boiled eggs, sliced when cold, are also liked with the greens.

RHUBARB TAFT.—Line a pie-plate with good paste and bake it with a filling of uncooked rice or of linen rags. When done remove the filling and put the rhubarb already stewed and sweetened and flavored with a little lemon juice and peel. Instead of putting on a whole top crust, twist some strips of the dough or paste and lay three of them across the pie from edge to edge at wide intervals. Then lay three more strips over the first, three so that they cross them in checker-board pattern. Arrange the oven so that the top and not the bottom will bake. Brown the strips slightly and quickly. Serve with a pitcher of cream.

MACAROONS.—Half a pound of almonds, half of sifted loaf sugar, the whites of three eggs, wafer paper, Blaneh, skin and dry the almonds, and pound them well with a little orange-flower water; add to them the sifted sugar and whites of the eggs, which should be beaten to a stiff froth, and mix all the ingredients well together. When the paste becomes soft, drop it at equal distances from a biscuit syringe on to sheets of wafer paper; put a strip of almond on the top of each; strew some sugar over and bake in a slow oven to a light brown color. Do not let them get too brown, as the cakes appear heavy and a little more egg.

Two Good Hands.

When I was a boy, I once became especially interested in the subject of inheritances. I was particularly anxious to know what my father's inheritance was, so one day, after thinking about the matter a good while, I seriously, I ventured to ask him, and his was his reply: "My inheritance I will tell you what it was. Two good hands and an honest purpose to make the best use in my power of my hands and of the time God gave." Though it is now many years since, I remember distinctly the tones of my father's voice as he spoke, with both of his hands lifted up to give emphasis to his words.

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