Concrete Walls.

The following plan for making walls of concrete is worthy of attention, in a great numblocks

side by side close together with a thin layer commencement of June, so that it is only duof cement between, in a short time they ad- ring three months of the year that woolen clohere together like one solid stone. Now ev- thing is unnecessary. All the other places ing discs; this organ forms the siphon up er leaked. Water-pipes of burned clay or ery particle of sand is a very small stone, and in China, where we have commercial stations if a large quantity of coarse sand be mixed are hot, sultry, and unhealthy. The Island life stream. On the sides of this are placed, becomes as hard as stone, resist the effects of with a moderate quantity of cement, together furnishes provisions of every description, of at different distances, several lancet-like pro-humidity for ages. The following is the rewith water, and the whole well worked over, the best quality, at a very moderate price. so as to insure the thinnest fibre of cement between each particle of sand, I should think the greatest abundance. Of geese, as large as ted poison into the minute wound; and these kilned lime, finest quality, reduce to powder, that the whole would harden into a solid mass those in America, there is no lack. Ducks are barbed, and resemble in some respects, ten quarts of pure linseed oil; and one or two like the sandstone made by Sir James Hall. are hatched by steam by thousands, and eggs If this compound be allowed to harden in are less than a halfpenny a piece. Game of gnat, or, as the poet Spencer calls it, "its dually mixing the oil and cotton in a wooden moulds cubical blocks can be obtained which every variety easily procured. Bread of good murmuring small trumpet," is a sound famil- | trough, until the mixture assumes the consiscan be used in building like hewn stone. Now quality, is readily prepared by the Chinese. iar to every ear-to most of us far more familthe great object is to use as little cement as All kinds of vegetables may be obtained. and possible. We may throw pebbles in the mould fruit grows with great luxuriance. Potatoes as many as we can conveniently get in, first have now been introduced, and will probably smearing each with the pure cement, and this become an article of great consumption will lessen the quantity of cement required. throughout China. Indeed all kinds of pro-The most advantageous way of doing it would | visions may be had at one-hali the sum they be as tollows: First mix the cement with the coarse sand, adding a little fine sand there- i can want to be known, to be immediately supto and then place in the bottom of the mould plied from the Island or the continent. Fisha lot of considerably large pebbles, no matter how large; there are now several crevices which may as well as not be filled in with smaller ones; still smaller crevices will now appear, let these be filled with gravel stones, and the mortar be mixed in altogether, and so on to the top. Theoretically, the quantity of cement may be indefinitely diminished, and practically to a very small quantity. Concrete walls may be built up in this way, and irregular stones of immense size worked in, in this way. And if it would harden inside, piers might also thus be built, by raising the outside like a pie crust with hewn stone, these forming a bed or pit in the middle which could be filled up in the same way once the moulds were filled. Yours respectfully,

LYMAN W. DENSMORE. Rochester, N. Y, April 14, 1848.

Island of Chusan.

The Island of Chusan is seven miles from the mainland, and forty miles distant from the city of Ningpo, and lies in the vicinity of all the great and valuable marts of commerce on the eastern coast. It is 150 miles in circumference. The chief bay, that of Tinghae, is capable of accomodating, in perfect security, a hundred sail of square rigged vessels, and possesses the most admirable facilities for the establishment of docks. Good water abounds, not only at the capital, but throughout the Island. Chusan consists of a succession of hills and dales, which present one unbroken scene of rich cultivation, and exhibit the most lovely scenery. Wheat, rice, tea, grass-cloth, sweet potatoes, cotton, tobacco, and other articles grow in great luxuriance. The island is intersected with roadsnot intended for wheeled conveyances-from five to seven feet broad, and paved and flagged throughout; and it is thickly studded with villages. Those who have the best opportunity of forming an opition on the subject, believe that a hundred well populated and superior villages would be found on it, containing from one to five thousand inhabitants. The whole population is estimated at 270,000. The people are 1 dustrious and comfortable, and appear to have no want unsupplied; scarcely a beggar is to be seen, and ery step-affliction may strike down those there is a comparative absence of crime, hich reflects no small credit on the Chinese character. Not a single homicide has occurred during the time in which it has been in jail, contributed by the whole island, have rarely exceeded twenty; and the majority have consisted of those who were confined for the illegal sale of its indigenous whiskey, the shamshoo.

The climate vies with that of the most favored regions in the world. There are but three months which can be called hot, June July, and August. In this latter month, the thermometer stands on an average at 83 deg., but sinks at night to 73 deg. The next | ledge of the subject displayed in it.

month it subsides to 74 deg. Then comes winter with its bracing influences, and the ground is covered with hoar frost, and the ber of respects. We are not aware that it has ice lies half an inch thick. In January and belong to the order of dipterons, or double- and durable, are so efficacious, that although been practised by any person but Rennie, who February, the theimometer stands at 20 deg. winged insects. The common gnat, Culex some Taksim tanks are entirely beneath the found it better in some situations than solid of Fahrenheit. In March it rises to 28 deg., pipiens, is a delicate, pretty insect, rather earth, and thus perpetually exposed to outbut the hills continue to be capped with snow less than a quarter of an inch in length. It ward infiltrations as well as inward pressure Mr. Editor :- If we place two flat stones and the cheerful fire is kept up until the is furnished with a long, slender proboscis, and undoubtedly coveal with the earliest By-Beef, pork, and poultry, may be obtained in while others seem adapted to wject the irrita- er-way men :)-Take 1000 pounds of fresh cost at Hong Kong. It is only for an Ameriing is universal around the Island, and it is doing, the musical notes we hear. The fracalculated that no fewer than 7,000 vessels; gile wings of this insect have been estimated come from the continent, and remain for, by Latour to vibrate at the rate of three three months off Chusan employed in fishing.¹ thousand times a minute; a rapidity which, They are attended with boats filled with ice, when it is regarded as a succession of muscuin which the fish are packed, and then dispatched to the neighboring coast.

The Bridge over the Ohio at Wheeling, Virginia.

The Wheeling (Va.) Times gives us a description of the splendid Wire Suspension delights chiefly in shady woods, and in moist Bridge which is to be constructed over the situations, from whence great hosts may oc-Ohio river at that city. The length of the span is 1,010 feet from the centre of the tow- | cinity of stagnant pools, which form the nurers upon which the structure rests. The strength of a strand of the wire used (No. 10) is capable of sustaining 500 pounds of weight at least. There will be 9,000 strands of the wire. The height of the bridge above low water mask, will be 87 feet. The summit of the eastern tower, will be 2531 feet above low water. The tower will be 60 feet above the bridge and 51 3.4 feet above the tower on the west end. The flooring of the bridge, will be 24 feet wide, with a foot way on each side 31 feet wide, and a carriage way in the centre, 17 feet wide. The floor will be $93\frac{1}{2}$ feet high at the eastern shore, and gradually fall to 62 feet at the western tower. The flooring will be supported by 12 cables, each 1,380 feet long which will rest upon iron rollers on the towers, and are firmly anchored in the ground or walls at each end. The timber employed in the building will be white pine, except the upper cover of boards which will be white oak. The whole weight of the wood work, will be 250 tons. The entire cost of the bridge will be estimated at \$210,000.

Be True to Yourself.

The history of the world, as well as the biography of those who have played a prominent part in its concerns, is worthy of everlasting remembrance. It assures us that it matters but little what form of danger may assail a man, if he be true to himself.

Poverty may lay its chilly hand upon him, and freeze up the brightest fountain of his hope-disappointments may meet him at evwho are nearest to his heart—the foul breath and tarnish his reputation—still let him be ity and presumption; in proportion as they that trickled down her furrowed check re-true to himself—let him maintain a stout the more disposed to listen to the counsels of vealed a depth of furrowed check re-British occupation; and the inmates of the heart and clear breast-and he will eventually outride the storm. Let those who are struggling with " low pirth and iron fortune," remember this truth-and let them remember, that no man can be destroyed by others without fault and weakness in himself.

> Cato was the first Roman who attempted to write on diseases and medicine. He wrote a ter of need they leave us alone and naked work that might have been called a system of Domestic Medicine, but there was little know- in his need: but more truly happy is he, by

Musquitoes

The proper-that is, the technical name for this tribe of insects is the Culicides: they this composition, which is remarkably simple which projects downwards and forwards, zantine monarchs, yet there is no record of having at its extremity a part of little suck- their requiring repair, or of their having evwhich the creature draws its fill from our metal joined with lukium, which, when dried cesses, some of which appear simply to cut, ceipt, as now used by the Lou Yolgee (Watthe sting of the bee. The "hum" of the pounds of cotton. Manipulate the lime, graiar than agreeable. This, which is really a pretty and not unpleasant sound itself, were | required for the latter, take a sufficient quanit not that it is a flourish preparatory to an tity, moisten it with linseed oil, and with this onslaught, is produced by the rapid vibration | paste give two or more coatings to the wall of its delicate gauze-like wings. The sound or pipes, allowing each coat to dry. Pipes has a precise analogue in the deep-toned hum of the "fan" of our blast-furnaces, by twisting well-carded hemp, saturated with where the vanes of the blower cut through | lukium, round the interstices, and making it the air with vast rapidity, and produce, in so lar contractions and relaxations, is something far more wonderful than the most enormous speed to which mechanism was ever driven. The gnat makes its appearance in the greatest numbers at eventime, but its persecutions ted by a good disposition! It is sunshine falare by no means confined to that period. It ling on his heart. He is happy, and the casionally be observed to issue, and in the vising places of the young. It has been frequently remarked that it is the female insect which pursues us for blood, and that the male is altogether innocent of the crimes his partner delights to commit. The insect makes its attack in the following manner;-After the flourish as aforesaid, and with a courage equal to all its noise, it flies directly upon its victim, and falls to. Alighting gently upon the surface, it lowers its formidable weapon, gently and gradually thrusting it into the skin until it has pushed home all its lancets. The fluid which produces the subsequent pain in the wound is then injected into it, as has been plausibly supposed, for the purpose Asystem of petty restraints, of privations, of of rendering the blood more fluid, and better severe looks, and incessant chiding, only adapting it to the suctorial capabilities of the \S results in depraving the feelings, and perverinsect; and now the thirsty creature takes its fill.-These operations are repeated until it der such circumstances, entirely out of haris satisfied, when it flies away, oftentimes be- mony with nature. He is like a flower, coming gorged and less active, as if com. which requires light and warmth, placed in pletely intoxicated with its potion.

plugues are frequently almost in vain; but impossible that a child so treated can ever t is our opinion that flax nets loosely twisted attain the proper characteristic of a wellare the best that can be used round beds. constituted man or woman. Our Southern friends will be none the worse of trying the experiment during the coming summer, and this is the reason of our early advice.

Liberty.

We like Burke's ideas of liberty. He says : -" Men are qualified for civil liberty, in exact proportion to their disposition to put chains upon their own appetites, in proportion as their love of justice is above their rapacity; in proportion as their soundness and when probably her examination might prove sobriety of understanding is above their vanthe good and wise in preference to the flattery of knaves."

Friendship.

while the sap of maintenance lasts, our friends _ him." swarm in abundance around us, but in win-He is a fortunate man, that finds a real triend far, that hath no need of his aid.

Lukium, or Turkish Plaster.

The impervious and adhesive qualities of tence of loat-dough. Let it dry and then break it into cakes for store or use. When of metal or clay can be hermetically joined fast with cord also dipped in the mixture.

The Female Temper.

No trait of character is more valuable in a female than the possession of a sweet temper. Home can never be happy without it. It is like the flowers that spring up in our pathway reviving and cheering us. Let a man go home at night, wearied and worn by the toils of the day, and how soothing is a word dictacares of life are forgotten. A sweet temper has a soothing influence over the minds of a whole family. Where it is found in the wife and mother, you observe a kindness and love predominating over the natural feelings of a bad heart. Smiles, kind words, and looks characterise the children, and peace and love have their dwelling there. Study then, to acquire and retain a sweet temper. It is more valuable than gold; it captivates more than beauty; and to the close of life it retains all its freshess and power

How to Spoll a Child.

Above all mistakes, is that of supposing that the better nature of a child is to be drawn out and raised into strength, which we should desire to see in the man, by making him pass through a cold and cheerless youth. ting the reason of a young person. He is, una cellar where it can never acquire its pro-Expedients for defence, against these per proportions, color, or vigor. It is quite

Love to the Saviour.

A poor Scottish widow one day came to her parish minister, to be examined for admission to the Lord's Supper. He question. ed her respecting the orthodoxy and spirituality of her views, and being dissatisfied with her statements dismissed her from the communion on that occasion: but requested that she would wait on hum before the next, more satisfactory. He saw that the aged fetion had not made manifest. Her pastor called her back, and asked her why she wept Her reply was eloquent, because from the When we see the leaves dropping from heart: sublime, because it was simple: "Sir the trees in the beginning of autumn, just I cannot speak a word for Christ," said she, such, think we, is the friendship of the world; " but I could die for Christ, so truly do I love

> A lively Irish writer speaks of a "dish of potatoes roasted on the turf ashes, just bursting their brown surtouts and exposing the delicate whiteness of their mealy bosoms."