# Scientific.

#### ARTIFICIAL STONE.

There is a concern there which makes, out of ing the gospel to the heathen does not amount and thus rendered his removal impossible. As common sand, a mantel equal to one of white to so much as a penny in the week for each of they stood around him weeping that they should marble, and sells it for about ten dollars. The the members, I dreamed a dream, which I will see his face and hear his voice no more, a letter sand in a few hours is converted into rock pre- now relate. cisely similar to the strata and ledges beneath I saw a crowd, composed of many thousand as he opened it, for he saw that it was from the the earth, that have required ages of aqueous persons, in great distress, to which some gave and might announce the approach of expression in tears, and others in mournful cries. his successor. His countenance however sudis strictly scientific and chemical. The ma- They had rebelled against a bountiful benefac- denly changed as he read-"The Committee are terials used are common brown or white sand, tor, who was also their Creator; and by his sorry, that, after duly considering the case, they soda, flint, chlorine, and calcium. The flint, righteous law were condemned to death, and to cannot send another Missionary to your station. which is the cementing agent, is melted by suffering after death, which they deemed more being subjected to heat in connection with soda. I saw one appear clothed in shining flint, in its chemical constitution, is an acid. raiment, whose form was that of a man, but a increase their agency. They had hoped that and like all other acids readily combines with dignity in his countenance showed that he was the churches would place a larger sum at their an alkali. Combined with soda, the flint more than man. He bore the mark of wounds disposal, and enable them to meet the increasing (silica) forms a silicate of soda—a thick, viscid, transparent substance, very much like glue. If it is too thin when first made, it is reduced by evaporation in pans till it reaches the proper consistency. It is then mixed with sand in a more than man. He bore the mark of wounds in his hands and feet; and a tear, which spoke of tenderness mingled with sorrow trembled in his eye. He told them how he had humbled himself, and suffered and died on their behalf, and then proclaimed a full and free pardon for mill, from which the mixture comes forth a good all their offences. At first their faith was stagmill, from which the mixture comes forth a good deal like wet brown sugar. The substance is called "pug." It is very plastic, and works as easily in the hand as wet clay or putty. Each molder has a quantity of the "pug" placed in a box on the end of his work-bench, from which he takes handfuls as he requires it to press into the mold. It matters not whether the mold is a rosette, a diamond, a flower, or a leaf ornament— a keystone, a vase, a pedestal, or the section of a mantel piece—he molds anything and everything with equal ease, beauty, and accuracy: and when the form is taken from the mold, the product is a plastic ornament more perfect and beautiful than a carver could execute in a week beautiful than a carver could execute in a week he loved them, and had died for their salvation. spirit passed away. of constant and patient labor .- New York Sun. He then charged them to go and proclaim par- Again the scene changed. "I saw a great

#### WEARING FLANNEL.

from an early grave.

better can be worn next the skin than a loose, though it could not sufficiently meet, his extenwoolen flannel shirt; loose, for it has room to sive claims. They could not all go out as mismove on the skin, causing a titilation which sionaries to the heathen, but some of them draws the blood to the surface and keeps it might, and the others could contribute to their some of them blushed ond looked confused as there; and when that is the case no one can take cold; red is best, for white flannel fulls support; or they might all contribute to the purpose of sending the gospel to the heathen. up, mats together, and becomes tight, stiff, cordingly, they brought their contributions,—

I have also an impression, that when the judge cordingly and impression, that when the judge contributions,—

I have also an impression, that when the judge contribute to the purpose of sending the gospel to the heathen. heavy, and impervious. Cotton wool merely some weekly, others monthly, and others yearly, asked if that was all they could give, some of absorbs the moisture from the surface, while as was found most cenvenient; some giving one them were speechless; but this impression is woolen flannel conveys it from the skin and sum, and others another, and others declining to not very distinct, for here, by the excitement of deposits it in drops on the outside of the shirt, give as their circumstances or their inclination | the moment, my dream was abruptly closed. from which the ordinary cotton shirt absorbs it, determined. And at the end of the year, when and by its nearer exposure to the exterior air, is the proceeds were appropriated, they were found not yet mentioned, that must not be omitted. these properties, red woolen flannel is worn by the week for each of the number. sailors even in the midsummer of the hottest coun-Wear a thinner material in the summer.

### KEEP IN THE SUN.

A writer in Harper's Bazar has the following sensible remarks upon the health-giving properties of the sun's rays:

ing celery. A deep trench is dug, in which the without any perceptable increase. seed are sown or sprouts set, and with the growth of the plant the earth is carefully heaped up un- claims were numerous; and I thought it might til the whole is nearly buried. By this means be true that they could not give more. But the light is excluded almost entirely, and the veg- when I looked, I could not see that many of NOTES OF A TOUR TO MANDELAY. etable becomes the pale and tender esculent of our them partook of coarser food, or dressed in

of depriving an organized being, whether a plant to which they were accustomed previous to their or an animal, of the light of the sun, but these conversion, in order that they might be able to qualities, however desirable in a sprig of celery, give more than a penny in the week. And I are indications of an artificial and unwholesome wondered if he who died for them did not mean delays we are off for Mandelay. The new and condition. The human being soon loses in ob- that they should exercise self denial.

our delicate dames, who pass so much of their over my native land; and the sun shone more lives indoors, to sit or lounge in dark rooms.— brightly, but it looked on idolatrous temples, on eighty. It is now about fifty-three years since

The sunlight is not only essential to the preser- hope.

Weak and sick children are especially benefit-ted by exposure to the sun's light, and mothers would do well to reverse the usual order of the

A PENNY IN THE WEEK.

BY THE REV. W. LANDELS.

- Put it on at once; winter or snmmer, nothing service which would express their sense of,

Every one is familiar with the process of grow- other year passed, and another, and another, church."

There was much truth in the plea that the plainer clothing, or lived in a less expensive (From the Missionary Magazine, January, 1869.) Paleness and tenderness are always the result style, or denied themselves any of the luxuries

brightness of intelligence and vigor of body .- in a far distant land, where the beauty and manded by Captain Antrem, with two large children brought up in mines and cellars are glory of nature contrasted strangely with the flats, the "Prome" and "Pegu," in tow, left blanched, dwarfed, stupid, liable to diseases of vileness and misery of man. The soil yielded her anchorage off Rangoon town for Mandelay, all kinds, and short-lived; and grown people, how- its fruits almost without the labour of the hus- at about two P. M. Among the passengers were ever vigorous they may have been previously, will bandman; and from every grove spicy odours Mrs. C. Bennett, Rev. Geo. Hough, Rev. J. N. soon, when deprived of light, become pale and feeble. were wafted on the evening air. The sky was Cushing, Mrs. Calogreedy and four children, There cannot be a greater mistake than for of a more crimson hue than that which bends and about a hundred and fifty native passengers. They require all the sun's light they can get. It fires where living women were burned with the he arrived in Rangoon as a missionary, and is true that whatever defects of toilet and com- dead bodies of their husbands, on aged parents joined Mr. Judson, who had been on the field plexion they may have will be better conceal- left by unnatural children to expire alone in the two or three years before. Mr. Hough has never ed from a chance visitor by obscurity, but this desert or jungle-on scenes of superstition and been obliged to seek a change of climate for small gratification is too dearly purchased at the cruelty too horrible to be described -on myriads health, at least has not been out of the "tropics" of men living in darkness, and dying without for fifty-two or three years. He is still quite

vation of the natural vigor of the body, but acts In the suburbs of a populous town stood an mental faculties, is cheerful and hopeful, and very beneficially as a remedy in disease. The unpretending chapel, with a mission house ad- much respected by all who know him. Proba-French make great use of it in their hospitals. To joining. In a room of the house there lay or bly those who attended his ordination, and those the windows of these are attached inclined planes, rather sat on his bed a man comparatively who waited upon his ministry, and those who upon which the sick are laid, and exposed on young, but his frame so wasted, and his coun-joined in the "farewell and God speed," as he every clear day to the sun's light. This has a tenance so pale, so wan, rnd ghastly, as to show and his wife and little son left our American more powerful tonic effect than all the iron, qui- that his end was near. His wife sat at one side shores for this heathen land, are nearly all nine, porter, wine and spirits which are so much of the bed, pale with watching and sorrow-an gone-gone. The few that may remain will be infant on her knee, and two children by her glad to hear what I have mentioned. nurse, "Keep in the shade." We say, and we through his teaching—the only christians in have science and experience on our side: Keep in that idolatrous town. More than a year ago his failing health had rendered a change necessary, and manifold labors for Christ.

but unwilling to leave the few sheep in the wilderness uncared for, he had waited in the expectation that some one would be appointed to take charge of the station in his absence; I senetimes dream in the daytime, and while until the heart sickness which results from hope Making stone is a business in St. Louis. buted by our churches for the purpose of send- had deprived him of his little remaining strength was placed in his hands. His eye brightened

don to them in his name : intimating that they white throne, and him that sat on it, from would thereby manifest their love to him, pro- whose face the earth and the heaven mote the fulfillment of his desires, and, at the fled away; and there was found no place for In our climate, fickle in its gleams of sunshine and its balmy airs, as a coquette in her smiles and favors, consumption bears away every year the ornaments of many social circles. The fairest and loveliest are its favorite victims. An ounce of prevention in this fatal disease is worth many pounds of cure, for when once seated, it mocks alike medical skill and careful nursing. If the fair sex could be induced to regard the laws of health, many precious lives might be laws of health, many precious lives might be Lord's command. They spoke of how much anxious to know if they still formed the same saved, but pasteboard soles, low-necked dresses, they owed him. They remembered their past estimate of their contributions, I narrowly and liliputian hats, sow annually the seeds of a misery; how unlike to the position in which watched their motions, and was struck with the fatal harvest. The suggestions in the following they were placed, and the prospect which opened fact, that, as those converted heathers entered article from the Scientific American, if followed, before them now. Nor were they unmindful of with joy and gladness on their reward, and others might save many with consumptive tendencies the fact, that all thy possessed were his. It did passed into outer darkness, very few of these become them they acknowledged, to render some | thousands congratulated themselves that they had done what they could for their conversion. The time came when they, too, had to render their account, and receive their reward. And I noticed, that in speaking of what they had done,

There is one thing, however, which I have soon dried without injury to the body. Having to amount to something less than a penny in fan ied that in that crowd of many thousands there was something which I had seen before. To some, the amount appeared strangely dis- Now and again indeed, I met with a familiar proportionate to the wants of the world, the face, which suddenly changed into another that claims of Christ, and their own ability; and I did not know, and again the well known counone here and another there remonstrated with tenance would speedily reappear-as is frequenttheir neighbours, and urged them to greater ly the case in dreams. And it might be on this liberality. Their arguments, however, were met account that I found myself instinctively mutby the plea, the claims were so numerous, they tering, "Perhaps—perhaps these thousands are really could not give more. Accordingly, an- the members-but I need not tell you of what

## Alissionary Intelligence.

BY REV. A. T. ROSE, RANGOON, BURMAH.

Setting out.—Nov. 30, 1867.—After long powerful steamer, "Col. A. P. Phayre" (named scurity his color and toughness, and with them all In my dream the scene was changed. I stood in honor of the late Chief Commissioner), comactive, can walk a mile or so, retains well his

The steamer moves off down, down the Rangoon river, though it is up we want to go. A strong tide and wind are against us. Many eyes involuntarily, but not unnaturally, turn to take lingering looks at Rangoon.

Fellow Passengers.—On that flat are about a hundred Maulmain people, mostly of Taling stock, wealthy, and of much worldly intelligence. They have been long engaged in the teak timber trade, and some of them have amassed wealth, and by the wealth have built and are building extensive works of merit. The most noted among these people for large offerings is the "Kyoung-ta-gah" (one who builds and consecrates a kyoung or monastery), Moung Taw Yike. This man completed a few years ago, at Kado, ten miles above Maulmain, a magnificent and expensive kyoung, costing, it is said, Rs. 200,000; besides this, half as much more was expended at different times in feasts and entertainments, gotten up on an almost kingly scale. Taw Yike is about forty-five or fifty, has a pleasant countenance, modest bearing, sharp business talents, but not great argumentative or reasoning powers; at least, his mental faculties have not been exercised and trained to defend his religions notions. He "has worked hard to make money, and his earnings are now invested in the 'bank of merit,' which, according to the religion and philosophy of his ancestors and those of surrounding nations, is not only the safest, but the only safe investment. If he has erred, be it so; the consequences of that error will be more tolerable than the odium of condemning and opposing the wisdom of ances-

Character of the People.—All these people are very polite and intelligent; some of the young women are good readers. They have felt the power and influence of western civilization longer and stronger than Burmans of any other community. They admit and admire the vast superiority of western science and art and literature; in short, almost everything the white ships bring to this country is better than their own, except religion. That, they are free to say, is inferior to theirs, or, "if it be better for us, it is not so good for them." Under the term religion, they place social morality, temperance, purity, honesty, etc., etc. We do the same. In thought we connect the revolting cruelties and immoralities of the Hindus with their religion. The Burmese connect arrack and opium, drunkenness and licentiousness, with the religion of those who have done so much to fill the land with these deadly poisons and loathsome crimes. How hard it is to get these people to turn their eyes off from the vile vestments in which many merely nominal Christians choose to robe themselves, and get them to come near to Christ and look on Him and hear His words. Many of these people have heard a good deal in Maulmain, and have read our books, and say our Law is good. Christ was holy, and his doctrine pure and good; no bad man can keep the law or follow Christ; no one can follow Christ and not be good, etc., etc. But then, as for real, earnest, honest hearing, it is not to be found in one of these people. They are leaving their homes and business for two months on a trip of religious pleasure and profit on the old "Shin Gaudama" line; that is, they go to enjoy themselves and to get merit by she-ko-ing to every pagoda, temple, idol, and priest they meet with, and they would sooner be plunged to the bottom of the river than be "turned from the track." Still, we talk and discuss points; we shall be better acquainted before we get to Mandelay; some are reading our tracts and portions of the

Scriptures. On our flat, "Prome," is a mixed multitude, - up-country merchants, Burmese, Chinese, Mussulmans, Hindus, etc., etc. Here we find a number of champions, who with burning zeal put themselves forward to do battle for Gaudama. We shall find work enough on board the flats to keep us busy.

Life on Board-Karen Villages .- Have worship with the native Christians on board morning and evening in my cabin. There are two Burmese disciples, two Karens, one Shan, and one

At nine, A. M., we pass the large fishing town Thong-Kwah, where years ago some appeared well, but no fruit has yet matured. The villages are numerous. It looks to me that many new villages have sprung up since I was last along this stream; but it may only be that now on the upper deck of a steamer I can see many villages lying off from the river that I could not see in a small boat close to the water.

At Fingdau, twenty-five miles above Henthada, on the east bank, is a broad opening during the rains that help to swell the Hlaing river; but this is a dry bed of sand in the dry season. We passed Nyoung dong at sundown, the river broad and deep, beautiful islands, many fine villages, boats in all directions, large and small. How sweet and calm is nature in all her forms here presented! Loud and discordant sounds of Burmese music tell of feasting, merry-making, and "Koo-tho" getting at different points on shore.

Tuesday, Dec. 3.—Pass S'gah-gee, where there has been for years a flourishing Karen church, with a good ordained pastor. The country looks rich and beautiful; the river is more than a mile wide at places, with many islands and sandbanks visible at this season. Some of these islands are charming spots; they seem to have a vain and self-complacent look, a little proud of their situation. No people in the world could more easily get a good living, it would seem, than those of this valley. Rice, vegetables, fruit, fish, and fowls can be procured in no country for less labor than here, if the people would only be industrious. Cheap clothing and cheap dwellings are all the people need for their comfort; and for these very reasons, doubtless, the Burmese are an indolent people.

Henthada.- 'bout noon pass the large Bur-mese town of Zalong, where is a small Burmese church, and inland, some eight or ten miles, is