## Song of Praise .... By EMILY HILL.

April, 1857.

Rejoice ye gushing fountains! Ye streams of pearly hue, Ye tow'ring hills and mountains, Ye lovely valleys too-All nature, give fair greeting, Rich melodies awake And celebrate our meeting, Our mutual joy partake!

Ye Saints! dispel all sadness And high your voices raise In songs of thrilling gladness, In symphonies of praise; Extol the King of glory In strains of living fire, Oh God, we would adore thee, Do thou our souls inspire.

One spot upon this planet Is dedicate to thee, And those who dwell upon it, Thine, only thine will be: Tho' this resolve hath 'reft us Of wealth and kindred too, Thy Spirit bath not left us, It loves the good and true.

Nor homes we've left behind us, Nor friends in childhood dear, Nor ties of blood could bind us-Our sympathies are here: Yes, here we've sisters, brothers, Here we have husbands, wives, . Here we have fathers, methers, And keys of endless lives.

Here we have mighty princes Of Israel's royal line, Whose judgment e'er evinces Authority divine: Here's Brigham Young-the Lion Who keeps the wolves at bay; Through him God favors Zion In this the latter day.

Oh ye who seek our ruin! Believe God is our friend-All things belong unto Him-His people He'll defend; In peace we will assemble To learn the ways of God, While thrones and empires tremble At His Amighty word.

Arise from error's slumbers, All ye whose aims are pure, And swell our gathering numbers, Make your salvation sure; Haste! chant old Bab'lon's requiem And unto Zion flee, For in the vales of Ephraim Deliverance shall be.

Rejoice, oh favored nation! Whom God hath gathered out; Praise Him for your salvation With universal shout: With songs of adoration, With sweetest minstrelsy, For Zion's restoration, For truth, which makes us free. G. S. L. CITY, April 9, 1857.

## THE PATHS OF THE SEA.

LIEUT. MAURY delivered his interesting, instructive and novel lecture upon 'The Paths of the on Monday evening. On being introduced to the loud applause, and proceeded to speak substantially as follows:-

of chance and circumstances. When gold was bosom. first discovered in California, and the tide of popuhundred and twenty days. So it was with Colum- and raise the heart to admiration. bus; he sailed to the south and west, skirting his The land and sea breezes are other characterisway along till he reached the continent, and that tics of the sea. At Valperaiso, in the summer route was continued up to our declaration of inde- afternoons, there is always a strong gale blowing pendence.

house between us and the Old World-our com- ing in the streets is stopped, and nearly every outmerce flowed through South Carolina. The Caro- door pursuit is prevented. Suddenly there is a great ward till he met the northwest trade winds, and as calm as if it had never known a storm. wafted westward to them, he reached our shore. The weather invites abroad, the ladies prome- strong enough, and if we used a larger one it was and the surrounding sea.

tical purposes. The influence of this stream places, and there is beauty unsurpassed. Alone bottom, but the quills and reed are drawn up. The merce with all people.' had often been felt, but its nature had never before in the night watch after the sea breeze was sunk to apparatus is so arranged that the moment the end been known. When Cortez came from Mexico, rest, I have stood upon the deck gazing admirably of the reed-which extends six or eight inches behe put himself upon the Gulf Stream and upon its upon the stars which shine with a lustre unknown | youd the ball-touches the bottom, the shot falls current floated his ship out of the Gulf to the open to this latitude. The sky looks solid, like a vault off and the rest can be easily drawn up. sea.

been known before it was discovered by Dr. profound. Glancing the eye above and around, and it discovered better than gems and pearls at Franklin. The discovery was considered of great you are dazzled with the firmament; the moon the bottom of the sea-it discovered the telegraphimportance, for at that time the tables by which and stars stand out and do not seem to touch the ic plateau which is to unite the Old and New latitude and longitude were reckoned were very vault. incorrect. A very large reward was offered by But at the same time the western sky is beau- skeletons of sea insects of microscopic minuteat sea.

pointed out.

well navigated or directed.

so little was known about navigation; but as soon and perseverence. as a correct system of circulation was established | It appears that we had no idea of the operations | ed in the snow storm. then the smoke of the steamers was seen upon that were carried on in the depths of the sea till the sea.

time and been driven about by high winds, the what there is beneath it. found a strong northwesterly wind.

have arrived here in January. Indeed, on return- it has brought up shells and the carcasses of the the deep sea; there are no abrading agents at ing in that month he was almost shipwrecked .- | dead. The vessels that went west, and those that went A single quill may bring up thousands-nay, time; a rope of sand if stretched upon the bed of east both kept their own reckoning, and religious- millions of these shells; they are so small that it the ocean, would be a cable strong enough to hold ly noted their Sabbaths; but on meeting and com- requires the minutest microscope to discover them; the longest telegraphic wire that art can draw .-paring they found that paradox-two Sundays they cannot be seen when alive. The bottom of At the bottom of the sea there is a protecting coming together. The Society Islands received the deep is covered over with their carcasses; they cushion of still water. We have had soundings in their reckoning from Cape Horn and the Sandwich have obeyed the commandment which was given the Gulf Stream, and every thing at the bottom Islands from the east of Asia; so a ship in passing on the fifth day: 'Multiply and bring forth abund- there is as still as the grave. from one to the other must either hitch back their antly.' Never before now does history give an actime one day or hitch it up a day.

India by the Persian Gulf-the Atlantic line be- good, I continued the attempt. to be hoped the third attempt of the French gov- sea at that point. Mediterranean will be successful.

developed-there is nothing to change or defect twine after it. them; an open boat might float upon them as

The breeze is just sufficient to keep the sails they were then upwards of one hundred and scenes one meets with at sea, the most enchanteighty days on their passage. They sailed through ing are among the islands in the South Pacific, till sunset, the twine still runing out, so they new seas and by a course as yet little known to along the course of the trade winds. There sky, navigation; but becoming acquainted with the earth and air combine their splendors in such a winds and seas they made the passage in one harmonious whole as doubly to delight the mind

By that route Charleston was the half-way shore, the ships drag their anchors, the promenad-

it. Presently, when the short twilight has scarcely and explained it to the audience.) The shot is of steel, set with diamonds; you fear to speak, Provided with these instruments and facilities, a But the temperature of the Stream had never lest the slightest noise shall disturb the deep ship was sent out to the ocean to take soundings,

navigator that he was approaching the shore of a can have any idea of their magnificence, grandeur examined the matter brought from the telegraphic new hemisphere: and so, when outward bound, as and beauty. But let us pass from the deep above plateau, he found volcanic cinders in it. [Composed at Conference assembled in G. S. L. City, he passed beyond it, it would inform him that he to the deep below. The lead is let down to the We could not account for it at first; we knew was far from shore upon the broad Atlantic. The bottom of the sea, and it is curious to see the work that the volcanoes of South America had cast their lecturer here traced the course of the Gulf Stream that is going on there. Beautiful coral islands are | cinders as far as Cuba; but if they came from on the map, saying, the stream is so distinctly built up there; perhaps a part of one, if we could that source we would have found them in the marked that the very line of its extent can be dissect it would be found to have come down the Gulf Stream; so it was useless to look there for Mississippi, from the Rocky Mountains, or to an explanation. It was next suggested that those Sometimes you can see half of your ship lying have been borne upon the bosom of the great cinders lying just along the track of the Europein the Gulf Stream and half of it without. In Amazon, from the tropics of South America; or, an steamers might be the ashes from these bouts; comparing the paths of the sea used by a former indeed, parts in that island may have come from so Professor Bailey told me to get him some cinders age to the paths now used we should not forget every part of the world, by routes which if we from the ashpit of the Baltic and the Pacific .-the difficulty they had to contend with then .- | could trace them would seem wonderfully long and | After giving them a careful and critical examina-Their ships were very clumsy and could not be strange. In the cell which one of these animal- tion, he established the gratifying fact that steamculi has built for itself we should recognize a part | boats are not volcanoes. (Laughter.) The Such a thing as a barometer had never been of the Table Rock from Niagara, and sand from source of these cinders still remains a mystery; conceived of-now we are able to tell when a the Holy Mountains. It may contain matter from but they show that the matter there lies as soft as storm is coming on, though it is yet a long way the Euphrates, from the sunny plains of Southern down at the bottom of the deep sea. off, by the use of that delicate feeler of the at- Europe, from the battle fields of the Danube and There is no motion nor disturbing force there. mosphere which not only forewarns the mariner the Nile, or from the soil of classic Italy. We Indeed, these soundings suggest the idea that the of its approach, but frequently tells him whence know all this, because mariners have told us of the sea like the snow cloud with its flakes in a calm, it comes and at how rapid a speed, thus enabling islands these corals have built up; they seem to is always letting full upon its bed showers of mihim oftimes to get away from it entirely. One have been at work in the sea ever since the waters croscopic shells; and we may readily imagine that discovery, one invention, begets another, and none | were gathered together in one place; and looking | that 'sunless wrecks' which strew its bottom are is begotten before it is wanted. Sea steamers at the work they have done, the islands they have in the process of ages hid under this fleecy coverwould have been of no use in those times, when builtup, we have a proof of their eternal dilligence ing, presenting the rounded appearance which is

discovered America-for instead of finding the ferent story; it shows that all such things are cov- filtered through the sea water. trade winds to help him westward he would have ered up and buried deep down, many feet, by shells and animalculi. Everywhere where this of insects of the sea of microscopic minuteness. With that wind in large ships he never could admirable sounding apparatus of Brooks has been, The currents do not reach down to the bottom of

friend in China by the Atlantic line, and request of assisting in perfecting these discoveries, and resist and withstand the forces of the sea. them to inform you of the exact time at which also to allow the whole navy to assist in making | Whereupon the conducting wire, after being

Then we used the same kind of twine and the found sometimes that the twine would never run came back and said they guessed there was no bottom there. (Laughter.) This was before we

discovered the under-currents. By the use of proper leads we now know the structure of the

as along the Atlantic.

The most peculiar thing in the North Atlantic from the sea, the waves rise and beat against the is a ridge from Newfoundland to England, which point along that route is about two miles. Havports were greater than the exports of all New the tide, which a moment before was angrily tom of the sea and knew its composition and gethe twine was fastened, but the twine was not shallow water. land, and during that voyage discovered the differ- not wind enough to disturb the slightest curl, and have the invention of Brooke's excellent apparatus.

World. The quills on coming up contained total and the loss irreparable.

seen over the body of the traveler who has perish-

The ocean, especially within and near the trowe begin to explore it with lead and line, and now pics, swarms with life. The remains of myriads Indeed, vessels used to get so far out of the it seems a great charnel house. Everybody who of moving things are conveyed by currents, and way as not to know whether they were on the has stood upon the shore of the sea has desired to scattered and lodged in the course of time all over Atlantic or Pacific Ocean. I have a well authen- fly away upon its waves and learn what there is its bottom. This process, continued for ages, has ticated history where a vessel, having sailed a long beyond it, or if possible to dive below and learn covered the depths of the ocean as with a mantle, consisting of organisms as delicate as the imcaptain thought she had reached the Pacific Ocean, Until recently all was conjecture about the depth | maculate frost, and as light as the undrifted snow and so turned north. The next day he met and formation of the bottom of the sea; it was flake on the mountain. Wherever this beautiful another ship and asked where he was. The supposed that it might be as deep as a mountain sounding rod has reached the bottom of the deep answer was, if you keep south for a day you will is high; but the character of the bottom, they left sea, whether in the Atlantic or Pacific, the bed of reach Cape Horn.' (Laughter.) Columbus; that to poets' brains to picture. Some supposed the ocean has been found of a downlike softness. sailed from Spaine in the month of August; if he it scattered over with gold, gems, anchors, dead The lead appears to sink many feet deep into the had attempted it in winter he would not have men's bones, &c., but Brooke's lead teaches a dif- oozy matter there, which has been strained and

> This matter consist of the skeletons and casts work there, save only the gnawing of the tooth of

If the stream, with its current of four miles an count of any attempts being made to measure the hour, reached to the bottom of the sea, it would If we had a telegraph line stretched from Manilla depths of the sea. Chance circumstances caused have torn up or worn through the surface of the to California, thence to this city and another to me to attempt it, and thinking it might result in earth, and we would have gone down to the molten interior. We see in the Table Rock, at ing also completed-then if you should send a tele- | Congress then passed an act directing the Niagara, what a small stream continually weargraph message to a correspondent in Manilla by Secretary of the Navy to set apart and direct one ing away will do. The notion has prevailed that the California and Pacific line, and another to your vessel to continue these soundings for the purpose a telegraphic cable must be of great strength to

they receive them-suppose you send the mesages the investigation in so far as they could without coated to insulation with gutta percha, was encasat 12 M., on Monday—and your friend in China interfering with their proper duties. In order to ed in a wire hawser or cable stout enough to hold will answer, 'I received your instructions twelve get at the bottom of the sea, they got some com- the largest 'seventy-four' to her anchors. These hours after date, or at midnight on Monday,' but mon twine and tied a thirty-two pound ball to it; cables were very expensive in their manufacture, your correspondent at Manilla with reply, I re- then letting it down into the sea, they waited to bulky for stowage, unwieldy for handling, and ceived your message twelve hours before the date, see how much line would run out, and considered difficult to lay. It was such a wire laid cable that that is at twelve o'clock on Sunday night.' It is the length of that line measured the depth of the the Telegraph Company lost in the laying between Newfoundland and Cape Breton, in 1855; and it ernment to lay their lines of telegraph in the The twine and ball were left in the sea. As soon is such a one-wire laid, stiff, and larger than a as the deep sea soundings were commenced, we man's arm—that the French have twice attempted When that and the Atlantic line are completed found we were in a new field; we found that system to lay in the Mediterranean, and twice lost. But we will have the happiness of witnessing the three | would not do; experiment showed us that when the | now we have learned that all the obstacles interold continents in conversation with the new. The cannon ball was at the bottom, the twine continued posed by the sea to the laying of submarine telemariner, as he reaches the trade winds, finds him- to run out, and that the larger the ball the slower graphs lie between the surface and the depth of a self wasted along by air the softest, sweetest, the twine would run. The difficulty of getting it few hundred fathoms below; and that these are not Sea,' in Dr. Hutton's church, Washington Square, purest in the world; there is no sky more delicious, down was not because of the increased density of to to be mastered by force nor overcome by the no heavens more beautiful. In the Pacific ocean the water, since that can only be compressed very tensile strength of wire drawn ropes, but, that audience by the chairman, he was greeted with the trade winds are the finest-they are perfectly slightly, but because that it had to drag a mile of with a little artifice, they will yield to a mere

Therefore, it may now be considered as a settled The paths of the sea are very much the work easily and safely as upon a sunny river's placid same weight of ball for every experiment, but we principle in submarine telegraphy that the true character of a cable for the deep sea is not that of out. A vessel one day was sent out to take an iron rope as large as a man's arm, but a single lation began to pour from the East to the West, filled; it is constant and never rises or falls sud- soundings, or measure the depth of the sea at a copper wire, or a fasicle of wires, coated with gutta our vessels sailed all the way round Cape Horn; denly-a gale is unknown. Of all the lovely particular spot; they began at sunrise, and, as the percha, pliant and supple, and not larger than a captain was a very patient man, they stayed there lady's finger. A company composed of English and Americans are now at work on the submarine, . Atlantic telegraph, and I hope and believe that before this time next year it will be in successful operation. The first telegraph that was ever laid down under water was across the East River, from bottom of the sea along the north Pacific, as well | the Merchants' Exchange to the signal station on the other side.

But then there was no such thing as gutta percha known in commerce. It was laid down suris called the telegraphic plateau. The deepest rounded with a leaden tube, but the motion of the water wore it off in six months. After the dising learned this, we must next get some plan to covery of gutta percha we learned the very beautilinas were the chief commercial colonies; their ex- calm—the fishermen launch their little boats upon prove to the people that we had reached the bot- ful process of insulating wires in it. Iron wires have been used to surround the gutta percha, but England. Columbus left Spain and stood south- foaming and breaking against the shore, but now ography. We tried to bring up the shot to which they are unnecessary, except near the shore or in

May the submarine Atlantic telegraph be quick-In 1775 Dr. Franklin crossed the ocean to Eng- nade the streets in ball costume, for now there is too heavy for the shot to carry down. Hence we ly completed, and let the first message which flashes across its wires read thus:- The people ence of the temperature between the Gulf Stream all this change in so sudden that one cannot realize (Lieutenant Maury here presented a sample of it of the United States, in Congress assembled to the Princes, Potentates and Powers of the Old He considered it of great importance, and would passed away, the stars stand out, as if held by in- hollow, with a long reed running through it; there World send greeting: peace and good will to all not, therefore, make it known, but kept it for poli- visible fingers, the constellations are fixed in their are quills in the reed; now, the shot is left at the nations in the world; free intercourse and com-

> THE VERMONT STATE CAPITOL .- BOSTON, JAN. 7 .- The Vermont State Capitol was a simple but imposing structure, commenced in the year 1833 and finished in 1837, at a cost of one hundred and thirty-two thousand dollars. Nothing remains of the building this morning but the granite walls. Among the most serious losses is the State Naturalist's apartments the destruction of which is

RELIGIOUS LIBERTY IN FRANCE -Louis Napelethe British government for some correct and sim- tiful. Orion is there, and just about to go down ness; these were sent to West Point, and particul- on has positively and peremptorily ordered the ple method for calculating the position of a ship and sup with his brother. The constellations of arly examined by Professor Bailey. The speci- prefects of France to all the free and undisturbed stars seem like holes torn in the robe of night, mens from the calm sea, from the Gulf of Mexico, exercise of their religion, desiring that he may This stream which stretched along our coast through which the astronomers peer into the Gulf Stream, all evidently consist of one hear no more persecution of Protestants, and that like a bordering band of ribbon, would tell the beyond. No one who has never beheld these skies family and of one kind. When Professor Bailey they may never again be disturbed in their worship.