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FOR THE CHRISTIAN VISITOR.

" We are saved by Hope."-Romans viii. 24 1 Peter il 13.

Hope is unknown to saints in Heaven; Hope for Man's solace here is given. Hope is a gift of love divine. Hope does on promised help recline. Hope yields relief, though faith e'en fail. Hope will o'er doubts and fears prevail. Hope breaks the fetters of despair. Hope aids the mind's worst ills to bear. Hope mental darkness turns to light. Hope prompts against all foes to fight Hope soothes the Captive when in chains. Hope mitigates severest pains. Hope nerves with strength the feeblest hand. Hope does, with joy, the heart expand. Hope urges on the tardy feet. Hope fills the soul with rapture sweet. Hope cheers amidst each care and toil. Hope e'en a ranc'rous foe will foil. Hope is the anchor of the soul. Hope raises from the deepest fall. Hope leans on Christ the soul to save. Hope leads the conquest o'er the grave. Hope can the fear of death remove. Hope looks for bliss in realms above. Hope points to rest when death is past. Hope wins the crown of life at last. Hope yields that peace nought else can give.

BAIDWAYS IN SWITZERLAND. Translated from the Revue des deux Mondes, for the Boston Courier.] . 1000

HOPE, then, I'll cherish while I live!

Two years and a half ago, -in December, 1849.—the federal assembly in Switzerland, bach, with a branch to Zurich by Wallensat Berne, ordered an inquiry into " the prac- tadt, offers the same advantages to Luckmanticability of establishing at net-work of railways in the cantons, and the best direction to bardy will no longer look upon Switzerland be given to the principal lines, taking into as a country without outlet, a barrier which in the modes of execution. From Geneva to duction of wine in the canton of Vaud is but view the wants of communication, industry must be avoided at any cost, because it breaks and defence of the country." Even before up and intercepts commercial relations. There 1849, interesting inquiries had been made on is, however, one difficulty in the plan of the this subject by Swiss engineers. In 1838, English engineers; it is that the projected net M. Fraisse, engineer in the canton of Vaud, published an excellent memorial in which he foot of the mountains; the passage of the Alps proposed and planned a railway between Lake Geneva and Lake Yverdun. After the resolution in December, 1839, the Swiss government appointed the celebrated English engineers. Robert Stephenson and Mr. Swin-safely over the declivities, which it must now burne, to take charge of the investigation or avoid as too rapid, it must be acknowledged that dered by the federal assembly. It could not it will meet in the climate of the Alps, during have chosen better; the report they made in five or six winter months, obstacles more for October, 1850, shows how carefully they have midable even than its lofty mountains. No one studied the question, and how entirely they have entered into the spirit which should preside over the works of public utility in a nation whose reveuue and credit are, as it were, still to be created.

It might have been feared that the man who conceived and executed the wonderful bridge, the Britannia, might be carried away by the idea, certainly very poetical, of leaping the Alps with a locomotive, or cutting through its crest by subterranean roads, opening on one side upon the plains of Lombardy, and on the other upon the valley of Jura. Such dreams have been too complacently indulged by engineers of undoubted merit, and the strange project of establishing a railway upon the Grim-sel, one of the boldest and most elevated Alpine summits, was seriously thought of in other places than in Switzerland. Even the very last year, German and Italian governments sent skilful agents to examine, upon the spots, the difficulties of this extravagant operation, compared to which the famous tunnel of Mount 12,000 metres" in length, was only child's play. Mr. Stephenson is happily e

A metre is equal to about 37 1-2 English inch

metres* the communication by railway be at hand. tween Soleure and Geneva. The whole dis-Yverdun to Neufhalet, and from the latter point to Soleure.

If this project is regarded not merely in the light of private interest to Switzerland, but as connecting itself with the general system of railways in the neighboring countries, it will be observed that the net-work of Messrs. Stephenson & Swinburne offers to Genoa (and also to Marseilles, if France ever resumes the project of connecting Lyons with Switzerland) the advantage of an uninterrupted communication with Basle, where the railways of the Rhine terminate, and with the shores of Lake Constance, where those of Wurtemburg and Bavaria terminate. The cross line from Basle to Lucerne, and thence by steamboat to Fluelen, conducts the communication to the foot of St. Gothard. The line from Coire to Rorsier and Splugen. France, Piedmont, Lomwork of railways will stop on both sides at the must then be made by ordinary carriages. It is certainly to be regretted that no other means could be found of surmounting this double barrier; but even if the locomotive could ever rush can be ignorant that one of the greatest and most frequent dangers of the Alps, during the winter season, is the sudden accumulation of snow, which the tempests heap up on spots, which appeared free a few moments before.-The electric telegraph could be but an imperfect security upon a railway built across these mountains. A covered railway has been an expenditure it would involve, if this covering is made proof against avalanches of snow ice and rocks! The Grimsel itself could be conquered by means of millions; there are no obstacles which money cannot surmount; but in commercial or industrial enterprises, the vital condition is that the expense should be in proportion to the revenue. Mr. Stephenson advises the Swiss not to avoid too much steep declivities where they will diminish labour, but to adopt for them the most simple style, and be satisfied with one track, for, by means of electric telegraphs upon lines where the communication will always be easily reulated, it is useless to have the expense of a double track.

dowed, as engineer, with an essentially prac- Several routes have been proposed for the The whole net-work of railways ready for

union of steamboat navigation and railway in temperature incident to a long route. that Mr. Stephenson's plan shows a mind We choose this example at random among nication as active as that which exists between the direct revenue from the enterprise itself.

an arm of the sea, more than seven miles broad, effect of the French duties. open to the great tides and enormous waves of the Northern Sea. The medium swiftness of the boat is ten miles an hour; the lading and minutes. This mode has succeeded beyond the hopes of the engineer, and, notwithstanding the situation of this passage exposed to the sea, notwithstanding the strong easterly wind, which blows there in the spring, transit has

tical spirit. The predominant idea which di- line from Bale to Alten, the only one we have travel constructed with one track over an exrected his investigation was to secure to the said which presents any serious difficulties .- tent of about 650 kilometres, will cost but Swiss, with the least possible expense, all the These difficulties, insurmountable by ordinary 102,000,000, according to the estimate of the advantages of a system of railways. Nature means, disappear in the plan of Mr. Stephen-department of public works of the Swiss con-has lavished upon Switzerland precious re-son by the application of mechanism, which federation. Even if the expense should amount sources, as if to compensate it for the difficult relies upon the use of water. In this way, to 130,000,000, as some persons think, who ties which a mountainous soil opposes, upon a Mr. Stephenson thinks, great economy can be are judges in these matters, the sum would still vast portion of its territories, to the transport combined with safety. He proposes that the be trifling compared to the advantages it would tation of travellers and merchandize; to take line from Bale to Alten shall cross the Hau- be to Switzerland. One example among a thouadvantage of these natural resources, Mr. Ste- enstein, one of the highest summits of the Ju- sand will be sufficient to show what Switzerphenson has especially devoted himself. By ra, and says that this passage will present a land will gain by the new mode of communicamaking use of the streams of water and the favourable opportunity for taking advantage of tion. We borrow from a report presented by lakes, he reduced for example, to 461 kilo- the powerful water courses which are ready M. Coindet of Geneva, to the department of public works of the Swiss confederation :-Prejudice will undoubtedly raise many ob- The canton of Vaud produces wines which the tance between the two towns is 137 kilome- jections against this opinion, objections based consumers of German Switzerland prefer to tres; the 90 other kilometres would be left to principally upon a vague fear of the unknown; those of Alsace, not only for the taste, but besteamboat navigation, established upon Lake it will be said that the method is novel, dan- cause they keep better. With the present Leman, between Geneva and Morges, from gerous, liable to delays, and that it has never price of transportation in Switzerland, the been tried. These objections have no foun- Vaudois wine costs, to be delivered at Zurich, dation. If it is true that water courses have 321 francs per char, (a wine measure,) more not generally been very generally employed than the wine of Alsaee, and usually the first for such a service, there are, nevertheless, value of the char is but little more than 100 some instances of this employment. As to the francs. The annual exportation of the Vausupposed danger, proofs are not wanting to dois wines is generally about 23,000 chars. show that the use of inclined planes and cables which are worth about 2,500,000 francs, and has not been followed by any greater proportion of accidents than any other system. It is 1,100,000 francs. There is no country where certain that in all cases where water has been the expense of transportation is as exorbitant properly employed, this mode of transport is as it is in Switzerland, not even in England. far before every other in point of economy.— Now the same quantity of wine transported Mr. Stephenson's plan for adopting the use of the same distance by railway, would cost less an inclined plane is similar to that which Mr. than 400,000 francs, and beside this economy Moncure Robinson has adopted in the United of 700,000 francs on a value of 2,500,000, (al-States upon the inclined planes of railways most a third.) there would be the advantage from Pottsville to Sunbury in Pennsylvania. of great promptness in transportation and the It is not only by the judicious employment better preservation of the wine, which would of inclined planes, but is also by the happy be exposed neither to the frauds nor changes

widely occupied with economy and simplicity the minor interests of Switzerland. The pro-Morges, from from Yverdun to Soleure, from of secondary importance; but if, to only one Zurich to Wallenstadt, the steamboat takes of the twenty-two confederate states, and in a the place of the locomotive. The travelling single branch of its commerce, the economy will not be quite so rapid; from Geneva to realized by railways is equal to a sixth of the Morges, a distance of 37 kilometres, the interest of the capital absorbed by the net the steamboat will take eighteen or twenty work, it is easy to conceive that the indirect minutes more than a locomotive on a railway, profits resulting to the whole nation by the a difference of some importance, in a commu-establishment of the system, will much exceed

Liverpool and Manchester, but unimportant as The establishment of railways in Switzerregards Switzerland. When one considers the land will produce a great change in its agriimmense value of the luxurious estates which cultural interests, as it will open to them a adorn the borders of Lake Leman from Geneva much wider market, not only in Switzerland to Morges, and compares it to the limited finan-litself, but many of the principal cantons will cial resources of Switzerland, he cannot but ap-find in France new channels for its produce. plaud a project which spares the state ruinous M. Coindet's report proves that these cautons appropriations of territory, even if it pays for have a right to reciprocity which Switzerland themlattheir just value, or prevents itlfrom com- has not yet obtained. In point of consumpmmitting robbcery, if it cannot indemnify the tion, Switzerland is in respect to France, the third state in the commercial world. It re-The most serious objection which the plan ceives from thirty-five to thirty-six millions of of Mr. Stepnenson has raised, is the delay and French productions, and sells to France but expense occasioned by the changes in the sixteen or seventeen millions of its own.mountains. A covered railway has been talked of; in theory this is possible, but what routes. To remedy it, this engineer propo- France furnishes Switzerland nearly double sees the employment of long steamboats con- what it receives. Still further; in the imporstructed so as to receive fifteen or twenty wa- tations from France, the fabricated merchangons, which, at the landing, pass directly upon dize is in the proportion of eighty-six per cent. the railway with their load and vice versa as is of the sum total; in the exportations of Switzdone with the greatest ease upon one of the erland this merchandive is only in the propormost travelled roads in Scotland-those from tion of forty per cent. This difference, so un-Edinburgh to Perth. This road thus crosses favorable to Switzerland, is aggravated by the

> The establishment of a system of railways in Switzerland will cause a perceptible change in the commercial relations of the confederaunlading does not take more than ten or twelve tion with the neighboring states, especially with France. The present position of the Swiss Republic authorises more than one would suppose, a change in its commercial policy. Under the old treaty the sovereignty of cantons was the presiding principle; this been interrupted but one day in the course of principle secured not only the political neu

A fifth part of a marine league.