Steceted from the Railway Magazine.
SCIEATIFIC NOVELTIES.
Steaming Acruas the Athantic.-This great problem: has been solved, and in a manner that leaves no doubt of a steam coumunication being able to be maintained with America under ail circumstances. The Sirius of Joodon, and the Great Western 'nf Bristof, have had the honour of first accomplishing this grent weject, and nearly simultaneously.-The Sirius left Cork, April thi, and reached New York the 23rd, laving accomplished the voyage in 19 days. She encountered some severe gales; her aterage rate was $8 \frac{1}{2}$ miles per hour; with wind fair, 12: in maderate weather 10. Out of 153 tons of coal, she consumed A:31, and 43 barrels of resim, which was mixed with conl-ashes. Her tomange is 700 , and engines 320 horse-powe:. On her return, she lett New Fonk Nay 1st, and arrived at Holmouth Mity 19th, is 18 days. The winds were generally gagainst her and rough. Her dialy rates of sititing were :-153, $193,155,90,106,131$, $152,180,225,220,176,156,172,181,192,200,227,119$ uhis to Scilly. The Captain says, had he had good corals, he could have reached liome thres days carlier. New York to Cork is $\because: 300$ ) miles ; in Falmouth, $: 3,400$. WThe Great Western left Inistol April 8th, and reached New York the 24th, having been fiteen days and five hours in her outward royage. Her uaily rates were : $-2 \cdot 10,213,200,251,212,218,241,243,185,169$, 206, 183, 192, $158,2,230$ miles, and 50 to larbour, making a total distance of 3,223 miles. 'Out of 600 tons of coals, she used only 450, having used no resin, and steamed all the way. Hermean daily rate was 215 miles, and hourly 9, with unfavourabie wealher, and strong hend-winds. Reducing to the same distance, she beat the Sirius by four days and a quarter. She left New York on her return Nay Thh, and reached King's Road the 22nd, at 10 ㅅ. M . Her tunarge is 1,310 , with 450 horse-power engines. It has been computed, that two barrels of resin are equal to one ton of coals ; and thence that, at the same expense of fuel, the Great Western has performed nearly double the work of the Sirius.The Great Western consumed, as given us by a friend, near thirty-three tons of coal per diem in her outward trip, which was fifteen days, and twenty-seven in her homeward, which was fourteen and a half.-Yoo much praise caunot be given to the spirited proptictors of these vessels, whose names, and all those connected
willa the great performance, will be handed dnwn to posterity with honour. The palm, however, of superiority is due decidedly to the enterprising genius of Bristol. Not only is the Great Western every way a superior vessel to the Sitius, whether we regard her tonnage or her sailing, but she is far more economical in the work that she does:
Thates Tunnel.-Mr. Brunel has given au account of the now poling boards which he is employing tor the effectual protection of the fhield at the Tunnel. These conslitute a system of praneling, of which every one, though it can be easily moved, is secured to its neighbour. 'Thus the boards cannot be diplaced, atd a most efficient ansiliary is provided against the loose portions of ground in fromt of the shield. The application of these appears to have added every thing hat was wated to render the aniuld a perfect protection in ill operations of a mature similar to those which aro now going oll at tha Tumene.
Aurnatetic Mastic.-The asphatic mastic is obtained from Py rmont, near Seyssell, and Lroughe down the Rhone: it is a compcuate of a carbenate of lime and mincral pitcli. After being roasted on an iron-plate it fails to powder, or may be readily pounddd. Dy roasting, it loses about one-fortieth of its weight. It is composed of nearly pure cartbonate of lime, withabout wine or ten per cent. of bitumen. - When in a state of powder, it is mixed with about seven per cent. of a bitumen, or mineral pitch, found aenr the same spot. This bitumen appears to give ductility to the mastic. The addition of only one per cent. of sulphur nialies it esceedingly britlle. The powdered asphatic is added to the litumen when in a melting state; also a quantily of clean gravel, to give it a proper consistency for pouring it into moulds. When bad town for parement, sumall stones are sifted on, and this sifing is not observed to wear ofi. The mass is partialify elastic, and Mr. Simms has seen a case in which wall, having fallen away, the :wiphaltic stretched, nad did not crark. It naty be considered as a rpecies of mineral leather. The sun and rain do not appear to have any eftico upon it; it answers exceedingly well for the floors of the abbateoirs of the barracks, and keeps the vermin down ; :mid is unimiured by the licking of the horses' feet. It may be tad down from eight-pence to nine-pence per square foot.
Anraonomy,-Sir John Ilerschel has returned, after near furr years' sojeurn at the Capz of Good Itope, to observe the accarate positions of the stars in the southern hemisphere. It is said he has hrought hone with him a large mass of valuable astronomisal and other ebservations, which will short!y be arranged and published.
Great Westetn Railifay.-This splendid line was openad to Mudementad oa Monday, June the. To Fieading aud Didcot it will be opene! next spring, and between Bath and Britol at the same tince. Erery preciution is taken to ensure regularity and punctuality, as far as plenty of power will do it. Nime en-
double the number which is needful. The present intermediate shall the dust retarn to the earth as it was; and the spirit return stations are to be at Ealing, West Drayton, and Langely Marsh. "to God who gave it."
Nomthern and Eastern Rablay.-The works frum| Having passed a neat coluge on your left and in which resides Tottenham-mills northward are proceeding rapidy. Five miles are completed at the Tottenham end, and the renainder to Broxbourne will be ready in the autumn. Antive preparations are in progress beyond Broxbourne to Bishnp Stortiord. Instead of procoeding by the expensive routc to Islington, a line is to be carried from Tollenlam-mills road to unite with the Blackwall line, and lring the termiaus to Fenchurch-street. It is compnted that £. 400,000 at least will be saved by this means, as well as the (unnei avoided at Clapton hill. This junction line, which is computed to cost $£ 120,000$, way be completed in less time than the extension could in Istington. The terminus will thus be brought into the heart of the city, near London Bridge, where steam-boats are plying to the west; we believe, overy guarter of an hour, and eastwards to all parts of the world.
Raheway Accipents.- Dy the evidence of Mr. Moss before he llouse of Commons, it has been shown, that of $3,300,000$ persons carried chirty miles, and during a period of some years, vily two fital accidents to passengers had occurred, one of which happened in a fog just after the opening of the Liverpool and Manchester Railway, and the other by the culpable uegligence of the engine-man. What will the advocates for stage-coach safety say to this? With an equal number of persons, will this make one er cent. of the accidents by stage-coaches?
Rathway in Holland.-A decree of the 30 h of April directs a railway to be made from Amsterdam to Arnheim by Utrecht, to be prolonged, in case of need, from Utrecht to Rot terdam, and from Arnheim to Prussia. Loans to the amount of $18,000,000$ of florins, or $£ 1,400,000$, at $4 \frac{1}{2}$ per cent., to be contracted for to meet the expense. This railroad, if the subscripions fall short, is to be executed at the private expense of the king.

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IIALIFAX, FRIDAY EVENING, AUGCST 24, 1828.
Rural Cemetries.-As supplementary to the eccentric article in our iast number on "The Inhumation of the Dead in Cities," we intend to offer a few remarks on Rural Cemetries. On hygienic considerations, the propriety of having the cemeries of towns at some distance from the inhabiled portions, scems to be generally admitted. Among medical writers a variety of opinion exists on the production of malarious disease by àninal putrefaction, but all are agreed that air, charged with the products of animal decomposition arising from bodies confined in a small place, as in the case of private vaults when first opened, may, so powerfully affect the nervous system as to produce high nervous disorder, and that when snch minsmata are absorbed by the luags in a concentrated state, they may excite putrid disorders of; the most dangerous description. Among other instances in proof of this later view, we are informed by Baron Percy, one of the eminent army surgeons of Napoleon, that a Dr. Chambon wats required by the Dean of the Foculty of Mreleciz of Paris to demonstrate the liver and its appendiges before the Faculic, on applying fur his license. The decompesition of the subject, given him for demonstration, was so fir advanced, that Chambon drew the attention of the Dean to it, but he was required to go on One of the four candidates, Corion, struck by the putril emanations, which escaped from the body as soon as it was opened, fainted, was carried home and died in seventy hours: noother, the celebrated Fourcroy, was attacked with a burning eruption and two others, Laguerenne and Dufresnoy, remained a long time feeble, and the latter never completely recovered. "As for Chambon," says M. Londe, "indignant the the obstinacy of the Dean, he remained firm in his place; finished his lecture in the
midst of the commissioners, who inundated their handkerclief with essences, and doubtless owed his safety to his cerebral excitement, which during the night after a slight febrile attack, gave occasion to a profuse cutaneous exhalation."
But, seting aside all considerations of health, do we owe no respect for the dead? And does not nature point out to us the daty of selecting a spot, remote from the din and bustle of life, surrounded with evergreens, and beautified with shrnbs and trees, wherein may repose the astes of our friends? In many places the loss of the ground so npproprinted is an object of the first consideration, but mblifas abounding with unoccupied land has no such impediment in the way. A nunbler of the towns in Great Britain have their rural cemetries, and it is not hazarding too much to say, that ere long none will be without them. The beautiful cemetry of Pere La Cluise, near Paris, is an object of attraction, to every intelligent traveller, and in the United States there are two cemetries which almost vie with it in point of loveliness. One is the Laurel Hill cematry near Pbiladelphia, and the other Moumt Auburn, near the city of Boston. We had the plensure of visiting the latter in iS36 and a sweeter spot we never beleld. Lou euter this sylvan retreat by an Esyptian Portal of a chaste
the keeper of the grounds, you proceed a short distance along a carriage way, until some beautiful walk induces you to turn aside. So many are there of these wallis, and branching out as they do in all directions, that it is not long before you find that you are in an almost endless la byrinth. Still as you continue you are gratificd at every new turn by some simple yet elegant surmonuting to a tomb, which makes its appearance and summons your attention, All of these tombs are remarkable for their simplicity, and yet amongst them, there is a great diversity of pattern and design, many of the most polished inarble, and evidently requiring in their rormation, much skill and taste. Affection has here and there surrounded them, with flowering shrubs, and has otherwise marked the place by the careful preparations with which the love that survives the tomb is ofientimes expressed. Nany of toe palles and avenues wind through romantic recesses, and what adds greatly to the interest of the place, they are all designated by different trees, shrubs and wines. There is, among others, the Sweet briar path, the Hawthorn path, the Beech avenue, tho Sumac path, the Iyy, Hazel and Woodbine paths, and the Larch avenue. Many ol'these walks admirably correspond to your associations with the name of the tree, shrub or vine. There is the Hemlock path, a name so of en found in connection wite "Night-slade," and a gloomy spot it is. And so of most of the other names. Nearly in the middle of the grounds is a large pool of water, which with its margin of turf, is quite an ornament to the place. Mount Auburn, the garden of graves ive visited twice ${ }_{2}$ and yet the second time it seeemed more interesting and beautiful than the first, and we lingered on the sacred spot with the most intense delight. It was a lovely place and we vonerated it as a repository of the dead. And greatly would Halifixs be enhanced. in our estimation wilh her rural cemetry, commanding, as it might, a beautiful view of our noble harbour, and embellished in a manner creditable to the taste and liberality of our townsmen. Shall we never be favored with such a hallowed place-
-the port of rest from troublous toyle,
The world's swect inn from puile nud wearisone turmogle.

The Seasons and Crops.---On all sides we are fuvoured with accounts of the exceedingly fine weather of the season, and of the abundance of the froits of the earth. "The earth is the Lord's and the fullness thereof,' and abouding gratitude should be felt towards Him who giveth rain in its season, and causeth his sun to shine for the benefit of man. We extract from the New England Farmer the fillowing piece on the weather, and by which it will be seci that in New England the article of potatoes is very abundant. In Nova-Scotia there is too general a fuilure of this useful article, owing as we believe, to the antipathy which exists against plamting then whole.
"The season, we believe, has not, within the memory of any man living, been surpassed for the fineness of its weather and the luxuriance of its yegetation. The sun-shines and rains have come in such regular and benutiful succession ; and the temparalare has been so precisely what it seemed desirable that it should be that even habitual discontent has found no room for complaint ; and the most fistidiaus inagination has not been able to say how matters should be improved. Hity is coming in abundantly; and the season has been as finvorable as it ever was for secaring it. Rye and wheat, and bartey and outs, are looking extremely well. Potatoes promise profusion, and Indian corn, the best tressure of New England, nevor presented a more healthy and brilliant appearance. There is really nothing to be done ; but to stake our heads with sorrow, and cry; "it is too mich trouble to gather all these good things. We shall never get througl with harvesting and husking. O sad! our neightors' crops are as good as ours. We have got too macli, too much; prices must come down; prices will be low ; the poor will have enough this tine ;" and other complaints asgrateful and as henevolent, of which there is always in our commanity quantum sufficil."

The Lady Lilyord, a very fine ship of 600 tons, built by Mr. Lyle, for Nesirs Canard \& Co. was Jaunched from the ship yard at Dartmouth, on Tuesday morning at 9 o'clock. The beautiful weather in addition to the interest of the sight, induced a large number of persons to visil Dartmouth on the occasion. The harbour in the vicinity of the yard was studded with boats, and every eminence around was crowded with spectators. Bioor gracefully did my lady Lillord glide into the water, amid the pladits of the multituic, and having been ceremonially named by Miss Cunard: Built for the parposes of commerce and civilization and not for those of destruction, as we gazed on the ship we were forcibly remind ed of the peace words of Mary Howitt-

And the blessings of a chousanc lands
Upon our ship shall lie!
For she shall nor be a man-or-war,
Nora pirate shall stic be ;
But a uobie, Christian mifrchant ship,
To sail urion the sea.

