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Iron Moulders, every Thurdday. Iron Moulders, every Thursday.
Plasterers, 1st and 3rd Thursday Traderers, Assembly, 1st and 3rd Fridas Bricklagers, 1at and 3rd Friday Ceopers, 2nd and 4th Friday Printers, lst Saturday.

Messrs. LaNCEFIELD, !BROS., Newsdealers, No. 6 Marbet'Square, Hanilton, are Agents for the Worimas in that of the city.
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ToRonto, THURSDAY, JUNE 5, 1873.
THE WORLD'S FAIR OF 1873.
The cxhibition now in progress at ing a very important epoch in European history-following so speedily; as it does, the recent sanguinary conflict between the great continental powers,
and presenting the picture of a grand international re-union, at which peace and barmony provails, and Eupires
Kingdoms and Nations met, not in the din and panoply of war, contending for the laurels of military supremacy; but in active competition for the more glorious and permanent victories of peace, and for the honors of arts and sciences, industry and civilization.
first great exhibition in Hyde Park, London, England, in 1851-the conception of the late Prince Consort, "Albert the Good,"-Was intended to demon strate that the arts of peace and industry were more glorious than, and had triumphed over, those of war and
destruction, and to give palpable evidence of the progress and development that had been achioved by enlightenment and civilizatiou. Throughout the world the event was, at that time, bailed with joy, and waie necepted as an harbinger and omon of continued poace
and tranquility; and though, since that time, war has frequently reared its gory head, exulting in destruction and car nage-still there cap exist no doubt but that the nations of the earth have been to a very great extent influenced by the civiliziug aud humanizing tendencies of
have been held-and pooples hitherto estranged by differences of nationality and dialect, mingling togother in those
gatherings, have been lorought to rcalize gatherings, have been brought to realize
more fully the common brotherhood of man.
Tho Vienna Exhibition, which is now will, in a the attention of the world the least and most insiguificent clement in the onward progress of this great and glorious work. When we consider that but a fow years ago, $\Lambda$ ustria was regarded as, perhaps, the most backward of all the nations of Europe-the masses
ground down by a galling feudal system; ground down by a galling feudal system; the energics of the people depressed by of the Exhibition of 1873 gives uncontestable evidonec of the vitality and power of civilization. At the close of the liranco-Austrian war, when its disastrous tormination deprivod the Empire of its fairest possessions, and the
country was threatenod with financial ruin, Fraucis Joseph turned from the thought of military aggrandisement, and gave his energios to the developmont of the intornal resources of the Empire. By the inauguration of re forms, and the purstance of a more
hiberal policy, the country, in place of noberal policy, the country, in place of
agitation and anarchy, presents an aspect of peace and prosperity, and the consummation reached by the holding
of the exhibition now in prosress, givos evidence of how much nobler and graader have been the accomplishacents of the Emperor in the promotion of peaceful industry, than could hare been achieved by continuing to indulge in dreams of muilitary glory and ambition. It is to bo hoped that this crowning triumph of wiser judgment may but incite to re nered diligence in the pursuits of peree, till the picture of Austria of the past, with all her dark records, shall have been forever blotted out by the pieture of Austria of the future taking her place in the froit ranks amongst the most advanced and enlightened nations of the earth.

## emigration.

The annual report of the chicf of the Bureau of Statistics of Commerce and Narigation for the United States, furnishes some rely important figures relating to the bearing of emigration upon skilled industries. From au extract
of the report tre learn that during the year $18 i 2$ there arrived in that country $43,16 \pm$ foreign skilled workmen, of whom 510 were coopers, $2,2 \div 9$ were
blacksmiths, 269 were moulders, 6,689 were miocrs, 472 were machiuists, 2,140 were shoemakers, 419 were cigar makers, 3,055 were carpenters, 3,264 were masons and bricklayers, $2,1+1$ were tailors, and so on through the various trades and callings. One of the ablest publications in the United States devoted
to the cause of labor reform-the Coopers' Journal-in discussing this subject, says:-
"The study of these figures forces the conviction that the labor market of this
conntry is being, to a certain extent,
'Beared, and that it is quite time the
' Bulls' large and boundless prairies can accommo-
date any number of the goaded agricultural
labcrers of the old world but jut labcrers of the old world, but just now al
the nueclauical callings are uncowfortably the mechauical callings are uncomfortably
crowded, and something should be done to discourage tle simmigration of skilled labor to this country, at least for the present.
We consider it a matter of regret that New figures of reliability reach us in pations of the emigrants who occu our shores; but if all the facts of the case could be arrived at, we are unde ho couviction that they would show somewhat similar state of affairs to that
reforred to above-though, of courso, to a more limited exteut in point of num bers. Now, we do not wish to be understood as decrying the importance of the subject of ewigration,-but the matter to be arrived at is, whether, in come to Canada is that of which the country stands wost in need. We do not deny that the agents appointed by Gocal -arc using their utmost efforts in endenvoring to direct the stream of emigration from the Old World to our shores, aud the success of those endeavors is testified by the telegrams

Which from time to time reach us of the 'placed to the progress which will be and from thence have distributed them selves throughout the various provinces butjwe cannot but again protest against
the uufair means that many of those agonts are using in order to accomplish the purposes of their mission, making the bost exaggerutcd and untruthful statements in rolation to the matter o wagos and cost of living. From infor mation received from emigrants, we aro convinced that very many of the skilled workmen, who have come here, attracted by the glowing accounts that were given by the emigration ageuts, have left bet ter and far more remunerative situations than they wero able to secure on their arrival here. There aro, however, many who would gladly see all the mechanica callings oven more than " nacomfortably crowded," but not from a patriotic desiro for the prosperity of the masses, but that they may trado upon the neces sities of the now arrivals, and thus
wring from the toilers a larger margin of profits.

Would we, then, wish to retard emi gration? Not at all. But the induce ments held out to promote emigration should be based on the principles of the strictest accuracy. We have seen communications addressed to papers in the Old World, from writers in Canada, who were evidently subsidized for the pur pose, in which offers of wages wero made in a specific mechanical calling, fully ten per cent. abore that which can bo realized by the most skilled operatives engraged at tho prosent time; and it seems to us that such efiorts are made, and such inducements held out, with the sole purpose of overstocking the labor market. Such sehemes may possibly be saccessful for a time, but it will be a sorry and fleeting success at the best, and will most likely recoil to the disadvantage ef tho prosperity of ths country We boliere the great need of Canada at the present time is a large accession of agricultural laborers. Of this class we cannot recoive too many. We want them
to settle in our back country, and develop the resources of the great North West Territory. After this class shall have settled in any uumbers, the demand for those of the mechanical callings will speedily follow. But first we need the pioncers. Of these the old world at the present time, has a surplus; and the main cfforts of our enigration agent hould be to secure as large an influx :

THE LATE LIEUT.-GOV. HOWE.
Canada has lost another of her great tatesmen in the sudden decease of th ate Licut.-Gov. Howe. His health fo some time past had been precarious ppreheaded; and when honored by the appointment to the Licut.-Governorship it was generally believed that the rest which the occupancy of that position would bring him, would tend to restore him to health. But these expoctation were disappoint
on Friday last.

LITE AND LIFE FORMS.

## No. 1.

## [Contributed.]

Many regard with great distrust the bold and rapid advance of science in the present day, fearing, not without reason, that it will result in the continued verthrow of opinions which have been hauded down from less enlightened ares,
but which had almost come to be looked but which had almost come to be looked
upon as established truths. Happily, howevor, men who are in earnest in their pursuit after truth, are not to be influ enced by any such weakness as to entertain any consideration for fears like these. Nover before were theri such vigorous and sustained efforts mado as at present to onlarge the circlo of knowledge, and to arrive at a proper understanding of all the phenomena of nature, whatever may be the mystery Which, as in some cases, hangs over
thom, and undeterred by difficultics, however formidable, which may stand in the way. The aim may be a high one, but when its attainment is sought, as it is beíng sought, no limit can be
made in this direction. "Nothing impos sible" is tho true notto for the philoso-
pher. A single individual cau do littlo, pher. A single individual can do littlo,
but when the labors of successivo workers, onch starting from the highest point gained by those before him, very great results must be achieved. How many of the accomplienced facts of to-day were the impossibilitios of fifty or one hundred years ago? How much of the familiar knowledge of the school-boy ow, was at no distant date the rdvanced and exclusive study of philosophers? And have we not every reason to beliove that progress will be still greater in the fature than in the past?
The quastion of life is a problem which has been the study and theme of men in all ages, and has engaged the attention of the most subtle and porwerful minds in attempting to penetrate tho mystery which surrounds it, and arriv at some idea of its nature, but withou much suceess. There are, howover, not wantiug signs which seem to indicate the not very distant approach of its at east partial solution. The opinion that life is a "principle," or somo kind of essence which presides over and directs ll the actions of the body, which was ong held and warmly defended, is now passing away, and is entertained by few whose judgment is of much value. The more probable riew is, that lifo is a property or force, identified with every part of organized structures, so that when we speak of the life of $a n$ indivi dual we use $a$ word which in reality ignifies a collection or circle of life properties, each having its peculia haracteristics, but so arrauged, so inter laced, so to speak, with each other, and
governed by some genial law, as to result in the perfect harmony of action which we see and feel. But these life or vital properties are not equally distributed. Some parts possess them in greater iutensity than others, as in the ase, for instance, of the blood and nuscles, the reciprocal action of whic is very intimate. So much-so, that it has been found that if ou the one hand
the arteries which supply any particular muscle be tied, the muscle rapidly lose its power, and on the other hand, if the muscular vessels containing blood ara by an accident deprived of vitality, tho blood begins at once to coagulate in the ame way as if taken out of tho body The more advanced school of thinkers on the subject, hold it probable that, a the physical forces-electricity: galvan ism, magnetism, light, heat, and chemi difforent manifestations of the same force, so also with the vital forees; but it is doubtful if there is any true analogy in these cases, and that otherwiso the rounds upon which it is based are so unsatisfactory that it must be classed with the many other rash speculations for which there is, at present, no justifcation.
Between the vital and physical forees there is a perpetual struggle, which possibly ends in the victory of the latter at death. Till then, however, the vital forces maintain the upper hand, and stcadfastly resist any undue influcace of external conditions, besides having the power to modify and mould both chemical and physical forces to meet the requirements of the organism, and often to act in direct contravention of them. But these vital forces are themselves governed by a higher law, and their action aroused and controlled by means of certain stimulii. Of these the most mportant is brought to bear by means of the beautiful system of nerves which are distributed through evory portion of the organism, partly under the control of the will, but to a large extent wholly independent of it.
In small persons, and in emall animals generally, the vital action is more intense than in those which are larger. We see evidence of this everywhere, but perhaps no whore can it bo better observed than exhibit an a mount of strength generally exhibit an amount of strength, activity, endurance and tenacity of lifo which almost incrodible. As a very peculiar example we may tako the tlea. This will loap some hundreds of times its own length, and can drag after it slowly without much difficulty a weight at least

Gifty timos that of itself. And Mr. Do isle has observed $a \mathrm{fly}$, so minute as to bo almost invisible, run noarly thre inches in half a second, making in that space 540 stops. If $a$ man went as fas in proportion-his steps measuring two feet-he would be obliged to run at the ucredible rate of more than 20 miles minute.
It is noticablo also, that as wo descend the animal scale, there is increasing enncity of lifo, and of insonsibility to ain. For instance, a tortoise has been known to live upwards of 18 days after

