## CORRESPONESQTCE:

philadelpha letter,
Last week I made a short visit Philadelphia, and spent o few houre in the familiar but almost deserted
Centennial grounds. Of the buildCentennial grounds. Of the blildings, nearly all remaip, and their
rilence and emptiness, when cos. thasted with empieir gay and overllowing life, a tew months ago, greatly
intensifies the impression of lovelivess.
But sonn there will be a change.
On the loth of May the permanent On the 10th of May the permanent International Extlibition will be opened, not with the eclat, eeremony
and fistorie. siguifeance, liat char ieterized our somewhat too bonstfu salutation to the, "fete despotisms"
one gear ago, laut, if with less noise, not without a fair prospect of per manent suecess and unetulosss. II
is impossible not to admire the energy and courage of the Philadel phians who have undertaken siogle
handed and alone so unique and handed and alone so unique an gigantic an enterprixe as a permanen
Iuternational Extibtition; for, must be remembered, that this is the
venture of private individaals with out the solid assistance of State o Nationat appropriations, and inde
vendent of the enthosiamm excited by a great national epochk The ne ne
cessary funds have been cullected cessary funds have been conlected, in eharge have jrofited from thei experience in the tast Extribition, the
arrangements will be more complete than they haye ever been at any former worlds fair. The representa tions ${ }^{*}$ of foreign nations will, o thut England and her colonies France, Brazi, and Jap yy will have be but poorly repreiented.
Ationality will not be attempted is the permanent exhribition, but the distribution will be aecording to
class, art, and industry, thus affording the visitor much better oppor tunity for stady and comparison than he had at the former exhibiticn, where each country bad an indepen dent show. As in the former ex-
hibition space will be allowed the exhibitors free of charge, but they will be expected to pay len per cen of all sales to the permanent ex
hibition association, which fund will be used to defray carrent expenses The admission tee will be twenty - five cents, and the gates will be closed on Sunday. That it bas
been possible to fill the main exhibi tion building with interesting ex hibits is certainly remarkalfie This
building, it will be remembered covers precisely twenty acres. hail, that is 140 by 60 feet is thought
t $\sigma$ be of very respeetable size, but to be of very respeetable size, but
this is as large as juet 1000 such halls.
Among the new attractions wi! be two inmense aguria, one for salt
water, and the other for tresh water water, and the other for tresh water ture said to represent a review Aroops afier the battle of Yorktown The picture which is after the win dow cartain order of art, it is said, was originally painted tor something else, still it will answer for the re viace, but like the bloody dath of the Battle of Gettysbarg, by Rather mel, it offends the nostrils of the aesthetic.
It is designed to make Memorial Hall an art museum after the model of the Kensington Museam in Londen, and although it will be years before it reaches the excellence of its great'pattorn, still Philade'phia and the cơnutry are to be congratulated upon the enbstantial poundation that has been haid. Last year the ex hibition prober attracted so much attention that not a few visitors left
the city without having seen the most complete Zoologieal garden in
this hemisy here, and one of the best in the world, and yet it has been completed and stock.
I torgot to mention that there wil be no charge for admission to Me morial Hall, nor to Horticultura Hall, and that the beantitul flowe parterres in front of Horticultaral tion last year, will be cuhivated the expenise of the city. Machiner Hall still remains, but it is not at present known or what purppse Franklin Iratitute will use it for an annual exhibition of machinery Other buildings, such as the Imperia! German pavilion, the English Govt building, and the small Japanese beresented by state of Pennsylvania, will be among the free attractions at the old Cenennial grounds. 1 believe that its intollerable long name, the Per manent International Exhibition will be a shecess.

## The Chemistry of Vision

If we admit that during the net of vision thie, retina, as a structure with cárbon nucleus, undergoes meta morphosis, the principles of photochemistry would head us to expee that the yellow murst be the bright est ray. and a harmony is thus estab-
lished between' this and other fune onal changes in the body. W Iso perceive the significance of cer ain struetures of the eye which oth erwise would appear to be without etamorphosis which must be tak ing prace io the retims involver the away the wasted prodsets and sup plyiog nutrition with the utmoist nekuess. And this is
iretharged by the choroid.
But such removals and supplie require time. Time, therefore,
ters as an element in the visual op-
eration. ight commences instanta
neously, but the image of an object may be seen long afier the reality has disappeared. This instantane ous commecoment of a retinal impression may be very strikingly it lustrated. The spark of a Leydenjar, shough it does not last, as is af
firmed, the millinnth of a second, can without any difficulty be photograph at even ou sosluggish a compound a vilver iodide. Oa the far more sen sitive retina the cheníoal impressio must be practically contemporaneou with the impinging of the light. If, after the eyelids have betn clos
d for some time, we suddenly and ed for some tive, we suddenly and
steadfastly gaze at a bright object, steadfastly gaze at a bright object, and then quickly close ti.e lids ogain phantom image is perceived exis ing in the indefinite darkneess befor as; By degrees the image become less and less diatinct; in
two it has disappeared.
The chemical hy pothesis renders very elear explanation of this effec -an explanation that coinmends juself to our attention as casting light
in many eases on the curious phemany eases on the curious phe that have been not without influence on the history of mankind.
The duration and gradual extinc ion of tbe retinal phantoms corres pond to the dextruction and renova on taking place in the retina itself. The blood supply is very sample, as are likewise the channels for the reneyal of waste, but he operations require time to be accompliskied. As a machines contrived by man, so in atural organs, the practical work ing does not always come up to the heoretical standard. Theoretically, as the retina suffers change under he incident light, the removal of vaste and nutrition should go on in un equal manner both as to time and quantity. A marvelous approsech to dhe ideat perfection is attained, for essarily be eumulative, that is, of
oreasing with the continuance of exposure, objeets do not becóne bright but they atuain their predestined dis tinetuess at quce. The action of the light, the removal of the waste it i
occasioning, and the supply for reno ration are all contemporaneously go ing on with an equal step, or so nea y so that such way be considered to be the practical effect.-Dr. J. W. May.

The Effects of a European. Wgr.
War in Europe does not mean unimited prosperityin Ameriea. When the war-drums throb, anywhere in
the civilized world, some share of the sulfering and loss musy fall sooner inater to every bation. Moder nance and aodern commetce hav hat cannot be, seen but cannot be roken, and the true interent of each has become the bent interest of all Jay Cooke could not fail at New
York without causing staryation in many, an English town, and the Sub lime Porte cannot señd devout Mu sulmans if be foud for Russian can non wiehout bringing disaster, vea Aaine or California
It is very mueh the habit to tak foll-granted that war in Europ will be a great blessing to this ountry. War between eivilized ua ions needs to sustain its grain an old as well as blood and iron, and ort of combatents, in tord, eloth g, and munitions of war, will not -inconsiderable. But the main and obvious fact is that ports from
which about $42,000.000$ busbele of rain are msually sent. to supply aropesu demands will be elosed by ey. The number of consumers wil be unchanged ; the number of pro ucers will be greatly diminished unitions, and mans manufacture tioles will be purchased from this country io much larger quantity be ane of the war. Already eargoen re dispatched by telegraphic order ready factories open their doors ad the prices of our chief product. for export advance. But the meda
has two faces. We are certain to ship larger quantities of products gher prices, andin the exchange of nations thene products areps good as gold, and yet the prempany on gowittly.
It is not possible as yet to meas the financial dislurbance which war in Europe will cause. It it easy to United States bonds lall, but not a eusy to see why the former effect should be only temporary, as many
expect, if the war lasts. Men say, War creates extraordinary oppor anities for employment of money disturbance in, the money marke ano ereater extraordinary demand and men sell what they can sell a least lors in order to realize the
money needed." Turkish and Ras-
and ian securities have becone neariy ansalable, and decidedly not good for money apring up on avery side and the people want to realize in order to employ money at better profit, or who must realize in order o protect themselves, rell United States stocks because there kell quiekly and at suall nicritice. Thi reasoning undoubtediy applies is ome transactions, But the slight eeline in United! Statex bendx is by no means, compnensurat: with the
apid rise in gold. The truth is rapid rise in gold. The truth is that something else is coming to this side much more largely than the bonded debt of the nation.
It does not seem probable that very large transters of Government bonds will be made to this country.
There are a great many sellers, no There are a great many sellers,
doubt, in every foreign market, bu
there are also a great many bayers
and the more beeanse European future of European-nations is clouded with doubt. Unhappily, we owe to Europe very large nums which are bonds. Our State and cyunty and municipal bonds, our corporate onds and stocks, are held there to an enormous amount. Confidence in auch securities bas been terribly housands of tormaer holders wial to ealize on the securities, there will Goverament bonds, other thousands anxioun to invest. A great exoda* of Ameriean scecurities of the less mmediate effect of the war, and; if the struggle is prolonged, and in-
volves great exhaustion of European capital or the borrowing of large
sums at high rates by European governments, this slipment
securities to America seems likely to continue.
Inasmuch as we owe nearly
quite $82,000,000,000$ abroad in the
orm of bonded debt, the credit of
oupprations and-manieipalities not
known to be streng is likely to b severely tested. Not a few railways, which bave straggled until now against bad-management or adverse ate, will be forced to surrender a own kinds, mining, railway, and manuaoturing, are also largely held. broad, añd in mapy-Cases are likely us that this disturbance in Europe o closely follows events which haye mpaired confidence in , the managepd of many American corporations robable that itor some time to rain and produce will go to pay for Eountry. $-N$. Y. Tribume.

## slight Mistake.

The present Arehbishop of Dabliy The gifted author of the work, so Widely known, on the Study of Words, is not in very robust health,
and biss been for many years appreand biss been for many years appre-
hensive of paralysis, At a recent dinner in Dublin, given by the Lorddinner in Dublin, given by the Iord Letenant of Ireland, his Grace sak
on the right of his hostess, the Dueliun the right of his hostess, the Duch
uss of Abeaors. In the midst of the finner the company was startled by eeing the arehbishop rise from bis im exclaim, in a dismal and sepul hral tone, "It has come! it has chral to
come "
"What has come, your Grace?" angerly cried balf a dozen voiee "W Whiferent parts of the table "What I have been expecting for he Archbishop-a struke of paraly he Arehbishop-a struke of paraly for the last beent pinching mysel for the last iwenty minutes, and find "Pardon me without sensation." "Pardon me, my dear arehbishop," wid the duchess, lovking up to bim "pardon me for, cuntradieting you, at it is I that you have been pinch per's Magazine for May.

## Temple of Diana.

Mr . Wood, the successful.exeava or and disceverer, writes to the Ste ay at Home of what has been ac mplished, and what remains to be
one, at the Temple of Diana at
" When the site had been com pletely oleared and the ineasirremem. aken, the tomple was foind to larva ight coluinis on the fimky; one nondred of these colums, which wer fix feet in diameter and sixty, tee
hingyanyounded the nars, or veila
hiryfor of the columas were sculp hirt oftx of the colamus were sculp
ared and five examples of. these oulptured columus were found an
the site. The temple meantred nearIy one hundrod and sixty-four feeg by three handred and forty-three feet, and it was raised to the heipht of sine feet five-and a-half inches from the pavement surrounding it on a platform, which measurod on the lowest of tourteen steps two humdred and thirty-nine fert by four hundred and eighteen feet. Tho eells was nearly seventy feet wide and was probably adoriel with two Ther of columns and entablatures. The major part of the seulpture fias been chopped up into small pieeer, large heaps of which were found rendy to be thrown into the line
ki'na fount on the situ. All was found was sent to Enigland from tive to time in the mea of war which were innt to Sinyrna for the purpose; and in the British Mureuia on be seen all that was tmporied. At the extreine end of the Elgin
Gallery will be.fgund thres of the sculptared drums, the bise of one of the large columns of the peristyle, a portion of the frieze, two capitals, a
lion's head from the cornice, a fine specimen of the enriched cymatyam, and several interesting fragments of arehaie seulpture, Thiese are some of the most important bloelfo but
the great mass of the antiquities brought over remail in the sheds onder the portieg of the Minseàm until more space can be spared for the ex. hibition of sealplare th the rodina ind gatteries which wilt in time be devoted to therer.
When the excavations were suepended in April 1874, I had ele ired out and examined the who'e of the emple site, and thirty" feet beyond which it was raised, excepting on the east side, tuearly one half of witich the phattorm. In this large unexa portico which was found surrounding she temple at a distanice of
thirty- gne leet, who ean telt what
valoabfer remains of the emple may

