

(E. P. C.)

86 Boulevard de Port Royal

Tuesday, March 13
1877.

(I received letters from home last Tuesday Wednesday).

My dear George,

I called again at the publishers with the intention of getting Labrosse's work for you; but it seems they tell me now that they cannot sell one volume alone. The work consists of two volumes and costs altogether $\text{F } 14.$ or say $\text{\$ } 2.80$. The second contains among other tables, a set giving the means of correcting the results $\text{\$}$ found in the first volume of which I have already spoken. It might therefore be of some use. I hesitated however to invest in it before hearing from you, as the price is more than double

of the one I had before mentioned. I now wait to hear whether you think it worth the price.

We had rather a curious lecture on Architecture the other day. The professor had finished his historical review of the subject, and we all thought that the course had come to a conclusion. It seems that he has still to treat of Heating & Ventilation; & to begin this part of his subject he took up the question of chimneys. He commenced by giving us a pretty complete summary of the dynamics of gasses, & worked out an immense equation nearly the whole length of the black-board the solution of which gave the velocity with which heated air went up the chimney. Rather elaborate considering the nature of the subject.

He has taken up the heating of a

room much in the same way, so that we can now calculate our grate surface & quantity of fuel required to keep a room at a given temperature when the nature of the walls & outside temperature are known.

Prof. Croizette gave us a description of the different kinds of American Trusses at our last lecture, together with a description of the St Louis bridge. of which he had several photos. It seems that it was Prof. Malezieux who first heard of American systems of bridges when he was in the States some years ago; so that to him belongs the glory of the discovery of the talent that lay hid in the wilds of America, & ^{of making} ~~made~~ it known to the "civilized world." However, Prof. Croizette spoke to very highly of the systems he described & said he would like to see them tried in France.

The ink sancer you sent me is the
most time-saving appliance I have come
across for a long time. It is also much
appreciated, as nearly the whole class takes
advantage of it. I do not use the little
well however, as it would be difficult to
clean out. I would prefer it in the form
of a plain sancer. Do you know what
kind of stone it is made of? Perhaps
the other side could be cut into a sancer,
but as it is there is plenty room to rub
down the ink.

Our bridge is to be finished
for Saturday of this week, and Friday of
next week we have our exam: with Collignon
on mechanics. I have got on very well with
my project of a bridge, & have now to finish
the drawings of the centering, and ~~to~~ give the
details of the foundations. Swithowski has
by far the best-looking drawings, & has shaded
& coloured them most artistically.
(and the memoire.)

With love to all I remain your affection-
ate brother

William.