

that spent in attaining the electrokinetic energy. Hence we were looking rather of two different things. I was very much struck by this.

or Geissler tubes.

I think there was a little misunderstanding between us when we talked about energy in the Park at Oxford.

You were speaking of the energy turned into the field by the battery in magnetizing up a specimen of iron by steps.

I referred to electrokinetic energy existing in the medium, which if Ampere's theory of magnetism is correct and if it seems to me ^{to exist only} to be $\frac{1}{2} HB$. The energy given out by the battery includes energy spent in doing electromagnetic work one and above

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PENYBRYN.

BANGOR, N. WALES.

Sept. 7, 1894

Dear Fitzgerald,

Burke with other two men, one from Edinburgh, and another from London (whom by the way you must have examined in 1892 as he got a Second Class in Expt. Physics J. Edward Indall) is on the short boat for my assistant ship & the elec is to take place on Wednesday next.

We shall still, notwithstanding
our own University, have to
prepare students for London,
and of course you know the
kind of work a man should
be able to do for the London
examinations, and especially
the higher practical exami-
nations in physics. Now the
question has been asked
whether Burke is thoroughly
conversant with that range
and kind of work.

I have not much doubt
about the matter myself

having regard to his degree,
your testimonial, & what you
told me of his good and bad
points at Oxford, but it
might be well if you would
write me a line or two in
answer to this special
question. I suppose he
would compare well with
a man you would have
given a First Class to
at London? 9/41

I am very sorry that owing
to the "bifurcation" of Section
A I missed his paper