

with a vengeance; & it will be a
blessing to me if all my friends
do not get so hate me. But
I look at it as certain, if I had
not stirred up the mud some one
else would very soon; so that
the sooner the battle is fought the
sooner it will be settled, - and
that the subject will be settled
in our lives' time. It will
be an immense gain, if the
question becomes a fairly open
one; so that each man may
try his new facts on it pro
& contra. - Very many
thanks about N. Y. Times; I
doubt you will be disappointed
with the article; & I cannot
for the life of me tell what
it is that struck Gold & me

41
860?
My dear Franz

Down Bromley Heath
July 3^d
I received the mathematical papers,
for which many thanks, but have
not yet had time to ^{try to} understand
them: your letter of June 17th has
been forwarded to me here (for I
am at Water-Cum). I have had
an unhappy household of late: my
eldest girl has had her fever, 9 weeks
in bed, but at last we have moved
her: & my health quite broke
down. We shall soon have to take her
to sea-side & I want a considerable
change; for my anxiety & consequent
ill-health has done hardly anything
for last six weeks. - I am very sorry
to hear how extremely hard you are
pressed with work. It is a pity the

you had spent more time over Reviews
of my Book: you have done an
immensity & been of incalculable service.
I feel very grateful; though I know
well that this is not a personal
affair: you wish that the subject
sh. be fairly treated & discussed.
Nevertheless I cannot help feeling
deeply obliged to you. — I can
now very plainly see from many
late Reviews, that I sh. have
been fairly annihilated, had it
not been for 4 or 5 men, in-
cluding yourself. The early
formal reviews were highly
important in preparing the subject
for being "battered." — Yesterday
I had letter from Hooker at B.

before" at Oxford; & he tells me
that there was one day "a savage
fight" between Owen & Hurley;
& subsequently a discussion of
utmost warmth of 4 hours
duration (!) on a paper I
drew of U. States on 18th
subject, in which somehow
(I know not how) my book became
subject: Bishop of Oxford, one of
most eloquent men in England,
indulged me at great length
& with much spirit; & Hooker
answered him, I imagine, with
wonderful spirit & success. —
Owen with not more spirit, when
he said that the whole subject
would be forgotten in 10 years.
My book has stirred up the mind

with respect to justification & insects.
He used led us to find the
two horns (I subsequently depicted at
pollen-tube) in Gynandrium complex
are the stigmas & you never saw
anything so pretty as the columnar
are. Do you know Hooker's paper
in Phil. Transactions on Lintara;
he misapprehended meaning of his
facts. I find the illustration is
delicate the the apical tube
place of touch of human-hair,
& the fruit set's head, under two
nests. It was really beautiful
to see the little Sphex licking the
labellum, & as soon as it had
touched the illustration the apical
touch-place, & the insect crawled
at with the 2 pollen-masses
adhered to its face, ready to

grasp it - I hope I may find it at ⁵
home when I return there in
3 or 4 days. - I will add the
two numbers of the Abbe's which
I know which number contains
your articles; & I shall be
very anxious to see them.
I have just read your letter;
in truth I am myself giv-
ing occasion the my mind is
in simple muddle about
"designed laws" & "undesigned
consequences" - Does not
Kant say that there are
several subjects on which
directly opposite conclusions
can be proved true?!
I forget to say the in Flossen
Meyers for July, there is ~~strong~~
thing

article of our great man W. H. H. H.
It is written with very fair spirit
& with all sense of the antagonism
of a mathematician, than might
have been expected. I have corresponded
with him for 10 years saying
that I base my views on what
I could see great difficulties. —

Anger of looking them difficulties
alone can make a work strong
even against me. I will
myself write a more daring
Review than has a such
afforded! On question of hybridity
he paper on ^{the} ^{invariably} fine gradation
from utter sterility to complete fertility —
the fertility (W. Herbert) of some hybrids —
& the sterility of the var. of Verbascum
(Gairdner) & of the var. of Tobacco
(R. M. M.), which latter facts you

to say, never notice. — Your letter on
great pleasure to me, but pray do not
write whilst so overworked. —

I have this minute had letter from H. H.;
who is just starting for continent;
on his return he is going to
investigate reported case of Hippopotamus
subsequent to glacial epoch: he
finds Felschen & first will not believe
in the remarkable fact: if so
then he ^{probably} been in Europe a period
subsequent to glacial warms. Do
you remember of saying that I
had I th^d be found wrong to
punish me for disbelieving in you;
& it seems that by punishment
is at hand! — Not being able
later to work I have amused myself
about Orchids. I have been struck
with amplexus & beauty of certain

frag 41
unifugate next flower, ^{with which} it crawled into. (9

One word more on "designed laws"
& "undesigned results". I see a bird
which I want for food, take my
gun & kill it, I do this
designedly. - An insect & good
man stands under tree & is

killed by flash of lightning. Do
you believe (& I really do like
to hear) the god designedly killed
this man? Many or most persons
do believe this; I can't &
don't. - If you believe so, do
you believe the when a
swallow snaps up a gnat
the god designed the the
particular swallow ^{it?} snap
up the particular gnat at
the particular instant?

I believe that to man &
to great are in same predicament.
- If the death of
neither man or great are
designed, I see no great
reason to believe that their
first birth or production is?
be necessary designed. Let
as I said before, I cannot
persuade myself that electricity
acts, that the tree grows, the
man aspires to loftiest conceptions
all for blind, brute force.

Yours most & affectionately
friend C. Darwin



Darwin, Charles. 1860. "Darwin, Charles July 3, 1860." *Charles Darwin letters to Asa Gray*

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