

Correspondence A

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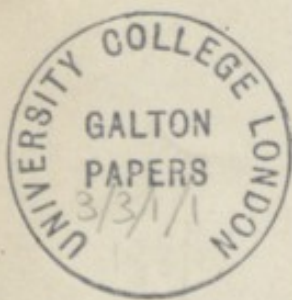


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Capt Abney

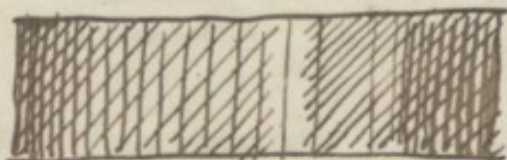
9. 1892

f. 1r




Dear Galton

I have of late considered
 what you propose and I
 honestly say that I have
 never arrived at a solution
 of the problem as I know
 I represent where I ought
 I shall be disappointed if
 I should hear



This is the dearest approach
 that I have made to it

up recent colors by 
 mix, & light & shade by
 natural hair.

Do not you think that
 the lower neck - make a
 bold stripe - and have
 3 Chronos's supposed to
 Muskrat. no more. G B
 & R. B. & (perhaps) Blue
 perception only. The W. make
 the I don't think it will
 cost any ~~more~~ much
 & see I have a pattern

amount of money left.

I think you have a copy
of Poldi's disappearance of her
own. Colours - reason. Perhaps

I might get some. R. V. B.

person & ~~at~~ ~~some~~ - their
& the thing w. be done

Yr. sincerely

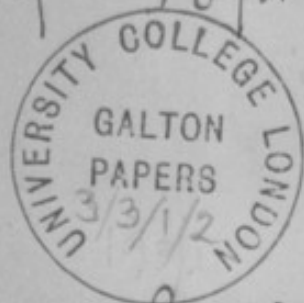
R. W. M. Abney

(Ackermann) 122 Sinclair Road f.1r
W Kensington W.

Octo 19th 1894

F. Galton Esq J.R.S.

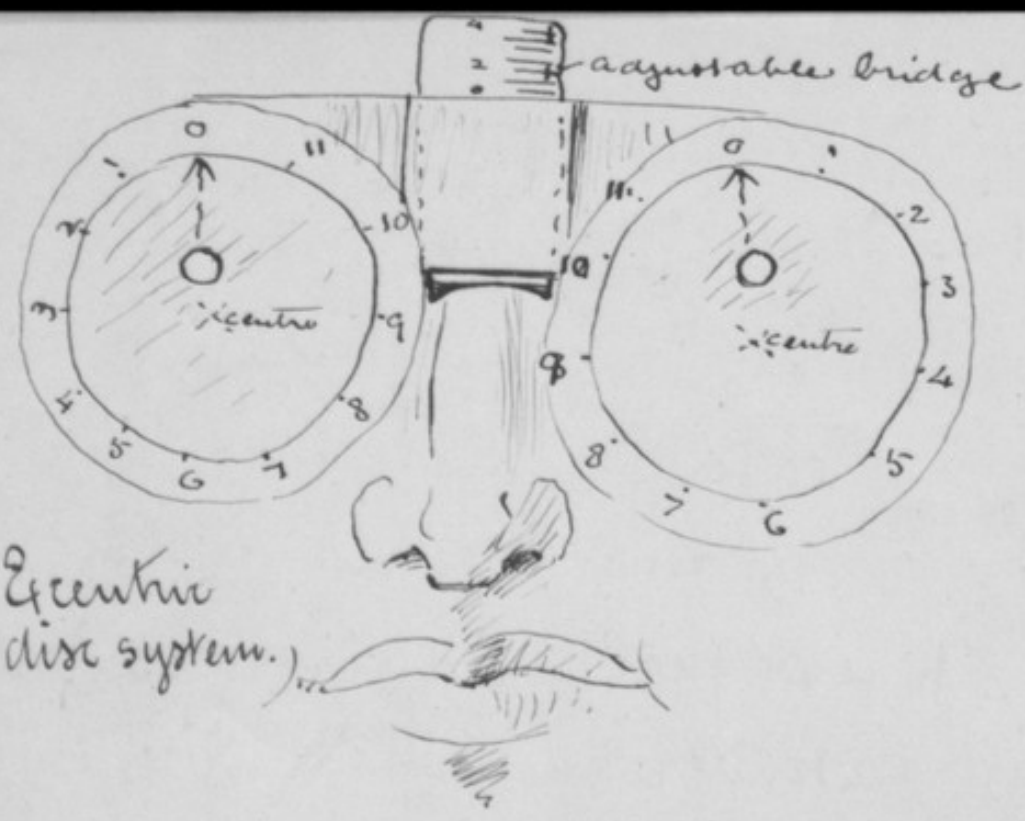
Dear Sir



I enclose a few
photos of your useful institution
at S. K. Museum, Tokio whilst
there awaiting some measurements.

I have noted already the
value of such an institution in
several cases under my own
observation. and all folks I have
taken there have declared their
thankfulness and expressed their
interest in its future success, tho
at first there is a reluctance to go
there as if the tests they would be
put too were something to be
dreaded.

B.



Eccentric disc system.

Sliding scale in millimeters

A.



Suggested test for centre to centre of eyes.

The same object might be attained by making holes eccentric, readings wd then be more accurate but bridge would have to be adjustable see sketch B.

your assistant has his hands so full I scarcely like to suggest any further measurements, but in my own case it was years before I found out, why I could not see thro' Stereoscopes or ordinary spectacles, I then discovered that my eyes are centred wider apart than the general run of humanity & tho' my eyes have been under examination at numerous times by professional men it never occurred to any of them to test the distance apart of the eyes, which your system of head measurement might have indicated & a further simple test by looking thro' perforated spectacles have confirmed.

Thanking you for your generous exertions in behalf of humanity
Yours faithfully A. W. Ackermann



H. Adams

60 Queen Victoria Street,
London, E.C. 27 Aug. 1892.

Francis Galton Esq. F.R.S.

Sir,

I obtained your "Human Faculty and its Development" about four years ago & was intensely interested in the contents. I made a few notes at the time intending to forward them to you, but something else came in the way & they got put aside. I have just come across them again, and as I see no reason to modify them after this interval I send you the substance of them.

I have always had strong powers of visualisation, or what I have hitherto called eye-memory, e.g., passing persons in the street without noticing them & afterwards recalling & studying their features. My profession of Engineer & Surveyor has doubtless strengthened this faculty and I have frequently astonished my confreres by describing details which I had taken in by a cursory glance and quite unconsciously at the time. Last summer I was in Belgium and visited some twelve or thirteen of the principal towns. On my return home I remembered that a cheque had been sent me by a correspondent which I had put by at the time and had apparently lost. I had not the slightest idea where it was but I retravelled the whole ground by mental pictures and saw the envelope containing it lying in a drawer with other papers and various odds and ends at a Brussels hotel. My wife thought it could not be so & said Antwerp was the place, if any, where I had left it. However I wrote the Manager of the Hotel at Brussels & in a few days had the satisfaction of receiving the cheque &c. which had been found as described.

I have some doubt as to the classification of vividness which you make with regard to visualisation as it appears to me that it is impossible to compare it with actual sight. In my own case I should say that my visualisation is precisely similar to the appearance of objects in dreams, the vision is generally concentrated over a small space at the time but can travel rapidly to any other part far or near. When extended over a large area there is an absence of detail. I may say that I am very myopic, I have to bring the type of "Human Faculty" within four inches of my eyes to be able to read it without glasses.

I had not heard of "number-form" before reading your book & was at first inclined to ridicule the idea, but I found that if I shut my eyes & thought of numbers I visualised them as standing vertically on the table one behind the other in front of me and a little to the left, like a row of bankers' pass books, unity nearest, the tens stronger than the intermediate figures, and 100 larger than the others, the figures black, on misty tablets with indefinite margins. Beyond 100 requires some effort & I lose the previous part, in fact the same tendency to strong local visualisation appears. A whole number and decimals appears thus :- 8'533 fading from view on the right. Years ago I used to practice rapid casting & mental arithmetic & after a short spell of practice I could unconsciously add up column after column, putting down the correct total. In the same way in more advanced work I used to find that if my conscious brain got muddled & made a pause my unconscious one (if I may so describe it for lack of a better phrase) went on with the work & intimated the correct figures to me without any personal effort or rather in spite of a personal effort to pull myself together again & proceed with the work I had in hand. Sometimes if I wanted to multiply two quantities, my unconscious power set to work & before I could make a start by conscious effort

would give me the answer. After recording my number-form these facts of unconscious cerebration came up in my memory & I felt a great desire to find out more about the method. I said to myself and pictured the figures in front of me $8 \cdot 5$ to be multiplied together. Immediately there seemed a confused jumble of figures lying flat and superposed on the table with $19 \cdot 55$ lying on the top, which was the correct answer. Picking out the different layers of figures they seemed to be $18 \cdot 15$ at the bottom i.e. laid down first, then $2 \cdot 4$, then $1 \cdot 0$. Upon subsequent analysis the method appeared to be the upper line of figures, $8 \cdot 5$, multiplied by those below, $2 \cdot 3$, each by each, then the ~~three~~ 3 by the 8, and lastly the 5 by the 2, and the whole added up. The decimal point kept its position all through. I have heard the term cross-multiplication but am not aware whether this has anything to do with it & have no recollection of ever having learnt or consciously used such a method as this. In this and many other things I find that I do best when I lose all sense of self & am thoroughly absorbed ~~in my work~~ in my work.

The personification of numbers appeared to me an exceedingly grotesque idea but I found that I unconsciously attached certain qualities to them as follows:- 1, immature: 2, dandy, fop: 3, mean: 4, workman: 5, tall, thin, lank hair: 6, motherly: 7, irritable: 8, baker: 9, crossing-sweeper: 10, lawyer: 11, old maid: 12, beneficent. This seems absurd & I cannot account for the associations. Dwelling upon the subject appeared to introduce a personal element that affected the spontaneity and suggested doubt as to whether these attributes were not pure fancy, however I give you them as they occurred to me. I have no colour associations with the individual numbers.

Replying to your Questions p.378 I may say further :-

1. Fairly clear, exactly as appearances in a dream.
2. Sharpest definition over a contracted area.
3. Colours quite distinct and natural, with the proviso above.
4. Can place myself in any position with regard to external objects and see the whole of an interior at the same time but the whole of an exterior seems to be partly by a quasi transparency.
5. Images appear in front of the eyes or in any position according to will but mostly at a distance corresponding to reality or as a diminished view about 18 inches from the eyes. If the object is at a distance I mentally travel to it & then it appears close. By a strong effort I can project the image on paper but it is like looking at a solid and trying to fancy it is flat.
6. The mental picture requires an effort to maintain, the smaller the part over which the attention is concentrated the brighter it becomes. The image is the same whether the eyes are open or closed. The difficulty of maintaining it for a long time seems similar to the difficulty of directing the gaze upon an actual object for a lengthened period. Without any special reason to maintain it the mind wanders.
7. Features recalled distinctly and can be made to speak and act in any desired way. The voice & change of expression being vivid as in dreams.
8. Scenery retained with such detail as could be observed with near-sight. Mental pictures so vivid from descriptions that many new places seem to have been visited before.
9. Difference precisely same as between dreams and reality. Have never mistaken the two but have had some curious experiences which I take to be cases of "thought-transfer".



- 10. This is given above. The association of this particular number-form may be through infantile letter blocks, ^{discarded} number labels for diagrams, &c. but not knowingly.
- 11. I have a strong aptitude for mechanics and construction generally. My memory seems to consist far more of visualisation than of what is commonly known as memory. As a student sitting for exams I could often read off mentally from the text book, and where my memory was defective it seemed as if the printing was shadowy. I have had some thousands of students under me during the last twenty years & scarcely a dozen could be named without his visualised counterpart appearing instantly. I was much struck when I was a youngster upon reading the account of Robert Houdin training his son in rapid observation, and this may have caused me to develop a strong power of visualisation in the effort at rivalry that was naturally induced.
- 12. A to F all good, i.e. as vivid as a thing can be that is not reality.
- 13. Yes. The inside of a rumbling omnibus can be made an effective substitute for a full orchestra, it seems more real than the purely mental music, there seems like a power of selection of the notes in harmony from a confused jumble of sounds.
- 14. Always good but have improved. For many years have impressed upon my students the necessity for picturing the subjects of their drawings as solids, knowing how useful it had been to me.

I send herewith a copy of "Machinery Market" containing a short biography of myself as the readiest means of putting before you such of my antecedents as may bear upon the above notes.

Trusting these notes may be of some interest although probably of little practical use,

I am, Yours faithfully,

Henry Adams



JUST ISSUED.

PROPOSED STERILIZATION OF CERTAIN MENTAL AND
PHYSICAL DEGENERATES.

AN APPEAL TO ASYLUM MANAGERS AND OTHERS.

BY

ROBERT R. RENTOUL, M.D.

PRICE, 1/- NETT. BY POST, 1/1½

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Cross, Stone,
Staffordshire,

29 May 1904

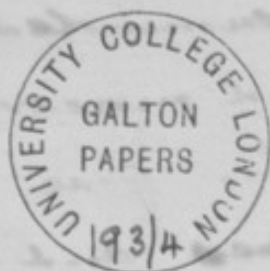
ated in reading
address to the
ety on Eugenics.
too busy to write

I have had some
previous acquaintance with your
advocacy in this direction but it
has always seemed to me that
altho' your object was desirable
the mode of procedure proposed
appeared so impracticable as to
render it useless. Any new
developments in moral practice
is so blindly and bitterly opposed
by the clergy and they also discourag

Culston Cross, Stone,

Staffordshire,

29 May 1904



Dear Sir,

I was interested in reading the report of your address to the Sociological Society on Eugenics. but I have been too busy to write until now. I have had some previous acquaintance with your advocacy in this direction but it has always seemed to me that altho' your object was desirable the mode of procedure proposed appeared so impracticable as to render it useless. Any new developments in moral practice is so blindly and bitterly opposed by the clergy and they also discourage

the laity to meet these proposals with deeply inherited ~~prejudice~~ prejudices rather than by openminded and logical reasoning, and moreover the subject dealing in this case with the relations of the sexes and the liberty of the individual that it makes one despair of accomplishing any improvement in the human race on the lines you advocate.

Altho', if the time you take were the only practicable way, I for one would be prepared to support and spread the ideas if it took till doomsday to accomplish the object in view.

My opinion is that some method of sterilizing the unfit would be far more practicable and would receive much more support. — Because —

1. It would not prevent the natural intercourse (the sight to which probably most of the unfit would refuse to surrender)

2. It would not upset present ideas on the relations of the sexes. 3. It would directly prevent the propagation of those who are known by their antecedents to be unfit & likely to be a burden on the taxpayers.
4. Two or three weeks in a hospital would be the only expense to the taxpayer, labor colonies would be a great expense and the sexes would rebel against the denial of satisfaction. 5. It would not interfere with the natural development of the race. 6. It would leave room for the increase of the more fit.
7. In a large number of cases the unfit (who were not bad enough for state interference) would probably offer themselves for operation so as to relieve themselves of any trouble about parentage.
8. I think the government would have a strong interest in sterilizing the rejected recruits for the army seeing that they would be wiped out and leave room for a stronger race to be produced for army purposes.

F2v

Dr Renton of Liverpool has in his pamphlet advocated a simple method of sterilization for both sexes and my object in addressing you is to ascertain if there is any difficulty in proceeding on these lines - It may be that your proposals would be the best if carried out but you might agree that Dr Renton's proposals would perhaps be more practicable and fit for a readier acceptance.

I have noticed in recent years a more widespread concern at the rapid increase in the number of unfit and I feel sure that the time is ripe for a concentration of efforts to combat the reproduction of diseased and degenerate types and I believe that if a general agreement in the best way of attaining the object could be arrived at among reformers that the time is ripe for the founding of an association for its special advocacy.



Culton Cross, Stone,

Staffordshire,

(Cont^d)

190

I have done something in the way of writing to the newspapers and other means to promote the discussion of this subject and should esteem it a favor if you could say in what, if any way my ideas are open to criticism - as I want to ascertain the best means of attaining the object in view and to know the worst that can be said against such means.

Scarcely a day passes but one may see physical degenerates, and we cannot open a newspaper without seeing cases which indicate

mental ~~degeneration~~ degeneracy.
If the system of sterilization
is practicable we might
~~not ultimately~~ ultimately
adopt the practice of
sterilizing the lowest 10%
of the population, so that
the increase would always
take place from a rising
standard of efficiency -

I am a Railway Engineer
and have no professional
interests in this subject and
take it up entirely philanthropically

Yours truly

W. Adams.

Count on article
did not refer to the bill 7/4/29

CASTLE HILL,
NEWPORT, R. I.

12 Ashburton Pl.
Boston
Mass U.S.A.



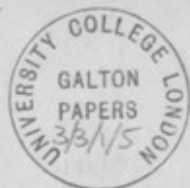
Francis Galton Esq.

Dear Sir

In reading the "Memoirs of My Life" my attention was again called to your remarks on breeding animals for intelligence. This is a project that I have long wished to undertake, and it is possible that I may be able to see my way to start in to do so next winter. I should very much like to know whether you consider dogs the best animals to experiment with? I should like to try monkeys if I knew of any method of procuring especially intelligent ones in sufficient quantities. My means are such as to enable me to undertake the ex-

F. 1 v

periment in whatever manner seems best,
within reasonable limits. Any suggestions
that you might care to give me in the
matter would be greatly appreciated by me.
I am the more tempted to take up this work
now, as I had the pleasure last winter in
Santa Barbara Cal. of helping a young
alienist, Dr. Hamilton with some experiments
he was making on the intelligence of
children and animals, with an apparatus
of his device which he calls the four door
method. In this method an enclosure has
four doors equally accessible to the subject.
After the subject has become thoroughly
familiar with the apparatus with the
doors unlocked, he is then placed in the
enclosure with all the doors locked but
one, and a motive given him for wishing

CASTLE HILL,
NEWPORT, R. I.

to get out. This experiment may be repeated as often as desirable - the same door never being left unlocked in each succeeding experiment. In practice it was not found advisable to repeat the experiment more than ~~one~~ ten times in one day to any subject. As Dr. Hamilton has not yet published the results of his experiments, I will not go into this matter in detail, beyond saying that it has proved a very efficient method of comparing the intelligence of animals. I have been devising an apparatus ^{based on this method} that I hope I shall be able to test ants with later, but I have not as yet been able to find time to do so.

It has occurred ^{to me} that this method

would furnish an excellent means of testing one's results in breeding for intelligence. Trusting that I have not bored you in writing you of my little project, I am

Yours very truly
G. R. Agassiz

Dr. F. Galton

f.3 r

SPECIMEN MORAL LESSON

(Under the auspices of the Moral Education League)

by

Mr. F. J. Gould

(Author of "The Children's Book of Moral Lessons")

A Specimen Moral Lesson to a Class of Children,
followed by Discussion,

will be given at

70, Prince's Gate, S.W.

(By kind invitation of Mrs. Eric Hambro),

on

Thursday, July 1st,

at 5 p.m. prompt

The Chair will be
taken by
Mr. St. George Lane
Fox Pitt.

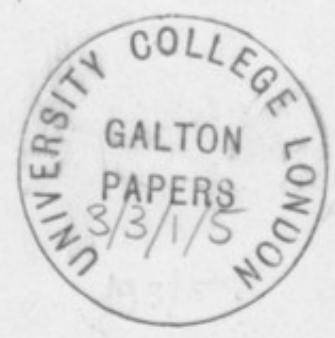
R.S.V.P.
to Hon. Sec., The
Moral Education League,
6, York Buildings, W.C.
Tea at 4.30 p.m.

Integral and
Unpronounceable dog.

Ready to
Devoted to master.
Temper - gentle wary - gay
Inquisitiveness (curious)
Teachability - of theoretical work, of others
Attitude of obedience,
Dog problems, handling
Will master games
without
Special aptitudes (subjects)
Sources Kennel & ~~writing~~ ~~writing~~

Game - fault during a day
fault on his kept in air
Science of exper^{ts} well developed to man
rather than to dog, all the fault seen as a type to dog
Perfume fence. Diploma to dog of class A
line class in several subjects
Height, weight, color, ^{hair} _{set}
Roman - breed of child mind.

Triplet senior
Prize, ^{you must learn one}
^{little - common}
Fetch & carry
Swimming
Obedience & retrieve
as per master's choice
to show off his dog at his best
under instruction, especially in
Sheep dog
Retrievers
pointers
Obstacle race (then acrobatic
= in 1900)



Forward from - handle
Hoe (handle)
down hoe (handle)
Zogs

Forward to - 1900
Noble and 1 -
Zogs with 2 years

F.3 v



A letter from an American correspondent expressing willingness to undertake experiments in breeding dogs or other animals for intelligence in response to a proposal lately published in Memoirs of my life wishes me to advise you

The following are extracts from the passage in question

It seems well in many respects to want a little more fact on the matter, because ^{it appears that} ~~because~~ of experiments see really about to be made, ^{at American} it is most important that the details

of the procedure should be ^{discussed as} ~~very carefully~~ ^{be considered} before hand ^{of the} ~~very~~ ^{best} sort of view. I venture therefore to ~~say~~ ^{offer} some ideas, very ~~loosely~~ ^{loosely} for I have little ^{experience} ~~knowledge~~ on the subject. ^{As I have considered} ~~As I have considered~~ ^{with these other papers & about myself} ~~with these other papers & about myself~~ ^{of what they would see} ~~of what they would see~~ in the end I should ^{be able to choose} ~~be able to choose~~ ^{some candidates for intelligence} ~~some candidates for intelligence~~ ^{to} ~~to~~ ^{be} ~~be~~ ^{of} ~~of~~ ^{one} ~~one~~ ^{of} ~~of~~ ^{other} ~~other~~ ^{of} ~~of~~ ^a ~~a ^{few} ~~a~~ ^{specified} ~~specified~~ ^{classes} ~~classes such as small, medium & large sized, with ^{various} ~~various~~ ^{subdivisions} ~~subdivisions~~.~~~~

of some such form as Description, height weight, age, colour & hair First class ^{certificates} ~~certificates~~ ^{for} ~~for~~ ^{general} ~~general~~ ^{qualifications} ~~qualifications, specially commended for - - -~~

I suppose the dogs ^{to be} ~~to be~~ ^{submitted} ~~submitted to a well thought out & appropriate examination very much as you wish and the certificate granted to be~~

The examination to be ^{of} ~~of~~ ^{the} ~~the ^{dog} ~~dog~~ ^{as} ~~as~~ ^{directed} ~~directed~~ ^{by} ~~by~~ ^{his} ~~his~~ ^{owner} ~~owner~~ [&] ~~&~~ ^{the} ~~the~~ ^{proprietor} ~~proprietor~~~~

tests to be made as are desirable in a dog, considered as an intelligent & agreeable companion.

The following outline will serve as a basis for the contemplated experiments.

General tests for all dogs

- 1 Affection to master
- 2 Good temper
- 3 Courage
- 4 Attention and perseverance
- 5 Teachability, shown by performing tricks
- 6 Obedience to voice and gestures of master
- 7 Seeking by smell, & carrying to master,
- 8 Success in one or more obstacle races, where judgment is as important as agility.

Scientific development of which is further than that of them - not shown for

Special extra subjects

- For sheep dogs
- retrievers
- pointers
- greyhounds
- etc.



as by this seeking objects by boat & carrying 'down' to the master hand.
 They bring out the same evaluation but by different methods &
 with some reservation the same may be said of ^{the} tests appropriate
 to greyhounds. In brief, methods of examination have already
 been arrived at, that perhaps might be ^{improved here & there and} brought more to common
 standards, ~~than they are~~, but which ^{as they are} enable dogs of the specified
 classes to be ranked ^{justly} according to their merits. An important
~~class~~ ^{class} of data ^{often related to} in awarding prizes, must however be wholly
 omitted ^{here.} It ^{includes} all that relates to external appearance & to
 pedigree descent. For the purpose ^{now} in view ^{such} dogs are just
 as eligible prize winners, as beautiful & high bred animals.

Teachability, is a quality not overlooked in the above, but
 more emphatically displayed ^{by} ^{the tricks of} performing dogs.



~~I should deal with dogs of various breeds of perfect breeds, but as would~~
~~interested with various results.~~ They I should utilize as far as feasible the

results obtained at notable dog trials, not caring a bit for ^{the} points of appearance
that tell in a dog show. It will be found that the ^{most} ^{in all} ^{ways} ^{of} ^{appearance} ^{of}
nearly all the ^{most} faculties that demand consideration from ^{our} ^{own} ^{point} ^{of} ^{view}

Take as an example the ^{group} ^{of} ^{sheep} ^{dogs}, is related to ^{group} ^{of} ^{Temper}, ^{group} ^{of} ^{Courage} and
good ^{group} ^{of} ^{temper} ^{group} ^{of} ^{Judgment}, and
perseverance, Obedience to voice & gesture of master, shown in what is practically
an "obstacle race" with great skill on the ^{part} ^{of} ^{the} ^{dog} ^{and} ^{all} ^{of} ^{high} ^{confidence}

These sheep seem to be driven by the dog, helped by the voice and movements
of his distant master, ^{course} ^{of} ^{many} ^{hundred} ^{yards} ^{of} ^{broken} ^{ground},
into a small fold, ^{making} ^a ^{few} ^{yards}. The intelligence shown by

good sheep dogs in driving and managing ^{these} ^{recalcitrant} ^{sheep} is surprising. I saw
on one occasion ^{at} ^{which} ^I ^{was} ^{present}, ^{by} ^{the} ^{dog}
the sheep driven ^{at} ^{the} ^{front} ^{of} ^{the} ^{pen}, ^{but} ^{they} ^{refused} ^{to} ^{enter} ^{the} ^{fold}.

The dog quickly lay down facing them, put ^{up} ^a ^{barrier} ^{of} ^{the} ^{sheep}
with a ^{to} ^{the} ^{left}, ^{until} ^{their} ^{patience} ^{was} ^{exhausted} ^{and} ^{they} ^{walked} ⁱⁿ. The ^{dog}
drove ^{them} ^{so} ^{close} ^{to} ^{the} ^{fold} ^{that} ^{they} ^{could} ^{not} ^{escape}. This

common ^{group} ^{of} ^{experience} shows how scarcely good temper, perseverance, and
judgment are excused. The dog's willing obedience to the voice or whistle of his
master & to the wave of his hand ^{bring} ^{out} ^{other} ^{faculties}.

Much of the same general description may be said of the tests for retrievers

G. N. Agassiz

[Faint handwritten signature]

[Extremely faint handwritten text, likely bleed-through from the reverse side of the page]



J. H. Avey

f. 1r

Stoke House.

Woodbridge.

13 June 1895.



Dear Sir,

Finding your letter of this morning awaiting me on my return from an expedition which has occupied the day, I have only just time to write that I recognize the importance of the questions which you ask concerning my old phytotaxy studies, and that I will endeavour to answer them if I can.

By a curious coincidence

I am coming to London tomorrow (to stay a few days with James Stuart M.P. at 24 Grosvenor Road,

Westminster Embankment, S.W.)

— for the express purpose of studying Leaf-arrangement in Kew Gardens. It will therefore be entirely congenial to my immediate purpose, to consider the points which you put forward, and to do my best to deal with them.

I will look up such correspondence as I can find relating to the reception of my papers by the R.S. in 1873 and 1874,

f. 2

~~My recollection is~~

and ^{will} tell you what I ~~can~~ find.

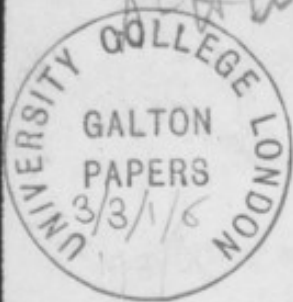
I am faithfully yours

Hubert Airey

P.S. - I have only now at last (after 22 years) secured leisure to take up this subject and I find a great deal of dust on my old papers, - and also on my old Spectacles, - which will require a spring-cleaning before they can be used. But I am more convinced than ever of the main truth of the theory which I first put forward some 22 years ago.

address: c/o James Stuart Esq. M.P.
24. Grosvenor Road. S.W.

Francis Galton Esq. F.R.S.



James Stuart M.P.
24 Grosvenor Road.
S.W.

f.3r

18 June 1895.

Dear Sir

I fear I have not yet
~~hitherto~~ followed out the
investigation of the geometrical
and mechanical ~~(for I am
sure we ought to consider also
the mechanical)~~ relations among
the embryo leaves and florlets
in a bud, with sufficient
accuracy to justify me in
attempting to give a confident
answer to your first question,
- viz. as to "adequate proof of
the exceptional stability of
the 3-5-8-13-21-36 series." ²⁵

It would be easy to urge that, as a matter of fact, the series in question is of most frequent occurrence, which is, so far, evidence of great stability; but I think that is not what you want.

— I think you would wish for mathematical (geometrical or mechanical, or both) reasons for expecting a certain species of plant to conform to a certain phytotactic series. — Well, how about the teazles and the Scabious family? — True,



f.4r

they don't belong, ^{invariably} to the 3, 5, 8, 13 etc series, but I think they are all the more instructive on that account. — They ^{though not invariably} belong to a series exhibiting 6, 10, 16, 26 etc ranks or spirals, — just the doubles of the above numbers, be it noticed; — and with good reason, for they can show ^(on opposite sides of the 'head') two florets, for every one that would be found in the ordinary series.

— Still, I feel that doesn't answer your question, and I fear I must take a little more time to consider it.

As to the "points in my original papers that made the Council hesitate about publishing

F4v

them in full³ — that was a
sore point at the time, and a
great disappointment and dis-
-couragement to a young man
who had been taught to regard
the Royal Society as the Salt
of the Earth. However, there
were other things to be done, and
though I should have been glad if
the R.S. could have adopted the
theory, I was obliged at last
to lay it by in my desk.

I tried the R.S. once more,
— in 1874. — with a paper on
the leaf-arrangement of the
Crowberry (*Empetrum nigrum*),
about which I had taken a
good deal of pains, but when
the day came on which it was

June 18/95

f.5r

down for reading, the then
Secretary, Prof. (now Sir George)
Stokes, smilingly told me that
my paper had met its fate in
the "massacre of the innocents."

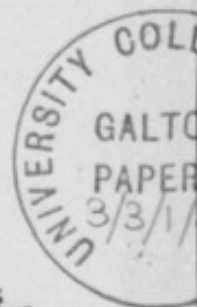
An Abstract was printed in
the Proceedings, but of course
my hope of exhibiting the
instrument which I had devised
for making my observations,
^{of exhibiting} and, the actual twigs which
formed the material I was
dealing with, had to be
given up.

I think the Crowberry paper,
and I presume also the
earlier ones, - were referred

to the judgment of the
Rev. George Henslow.

I would rather not
write any more about that,
~~except that to my mind~~
~~his criticism seemed unfair~~
~~and inadequate.~~ But

I find I have kept (and
have here with me) almost
all the letters and papers
relating to the matter,
and my host, James Stuart,
recommends me, and authorizes
me, to ask you if you will
be good enough to come
here one day to lunch,



f. 6r

when I should be able
— and should be extremely
glad — to produce any of
the papers and letters for
your inspection.

Stuart suggests that next
^{at 1.30 pm.}
Thursday, the 20th, might
be convenient to you, and
that is a day when he might
expect to be disengaged. He
bids me add that you have
on one occasion met Mrs
Stuart, but I now find that
she is on the point of leaving
for Norwich, and will not
be present on Thursday.

If Thursday is not con-
-venient to you, would you



kindly name another day
when you could come?

My only engagement is on
Wednesday evening.

I am yours faithfully

Hubert Airy

P.S. Yes; I know Schwendener's work.

The R.S. Critic made no mention
of that or any other paper as
having anticipated my views.

Francis Galton Esq. F.R.S.

J. H. Airey
24. Grosvenor R^d S.W. ^{F. 7}
19 June 1895.

Dear Sir,

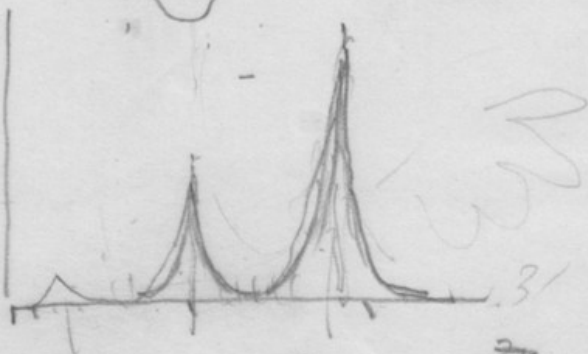
I have told Prof. Stuart the purport of your letter, and he is very glad to hear that you will come to lunch tomorrow. He will endeavour to be present himself.

I shall be very glad indeed to accept your invitation to tea at the R. Soc. at 4. p.m.

Very faithfully yours

Hubert Airey

Francis Galton Esq.
F.R.S.



13 21 34

D. H. Ciry
of James Stuart Esq. M.P.
24. Grosvenor Road S.W.

f. 9 r

20 June 1895.

My dear Sir

Let me say how much
I enjoyed the rendezvous
at Burlington House this
evening and how much
I am obliged to you for
the agreeable introductions
you gave me. I shall
wish to take advantage of
them to write again on
some of the points that
arose in conversation between
us.

I entered the meeting-room, and had the pleasure of getting a handshake with my chief Thorne Thorne and my sub-chief, Power.

You are aware that the meeting of the British Assocⁿ is to be held this year in Ipswich, which is only 9 or 10 miles from my home at Woodbridge. Needless to say, I shall be interested in the proceedings. I almost think I might venture to.



Offer a short paper to the
Botanical Section, probably
on the phyllotaxy of monstros-
ities, for which I have accum-
-ulated some material.

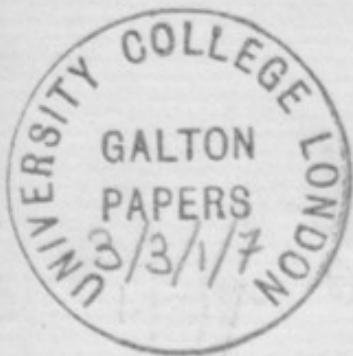
I am, my dear Sir,

Faithfully yours

Hubert Ainy



Francis Salton Esq. F.R.S.
42. Rutland Gate S.W.



f.1c
14, Great Queen Street,
Westminster. S.W.

Dec. 1. 86

My dear Galton,

I am delighted to
hear by the Times this morning
that the Royal Society has
done you duty the honour
of awarding the Royal
Medal for your distinguished
services & achievements in the
field of science, long
may you

Francis Galton

may you live to enjoy
 both your inherited & your
 acquired honors & the
 congratulations of a large
 circle of sincere friends
 of which you know I am
 always one &

Yours truly

Rutherford B. Hayes

I am delighted dear Mr.
Galton, & wish you & your
dear wife joy of your new
honour with all my heart!
I have not seen the Times,
but North^d. has just brought
me the news of his rate, &c.
I hope you will not think
I shirk by my P.S.

Very sincerely Y^r
Lucy Alcock

Cliff W. Wood Jan 27.09 ^{f.1r}

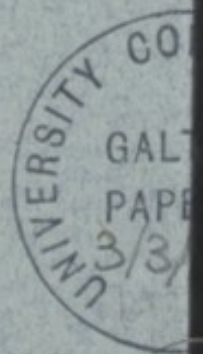


St Radegund's,
Cambridge.

Dear Sir Francis

During the brilliant
Charles Darwin Cele-
brations - a wonderfully
successful occasion -
you were often spoken
of + your absence
deplored. It is

Receipte with the penitence
 pleasure that we
 see thro' the tented
 distinctions fall to the
 lot of one & the
 most modest & self
 effacing of summent-
 man of science.



What your name
in honor the "Darwin
week" would have
been incomplete

Hoping you are
family well
Yours, affectionately

Clifford Auburn



Prof Abbott

11 July.

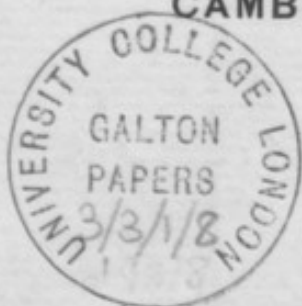
f.3ar

SYSTEM OF MEDICINE.

ST RADEGUNDS,

CAMBRIDGE.

My dear Sir



Excuse the error

of my address. I do
not know how it arose;

I cannot plead ignorance.
(I once kept an Arthur Salton.)

I feared you might
feel unwilling to tackle

medical questions but

ST. RADDEGUND'S.
CAMBRIDGE

SYSTEM OF MEDICINE.

I see you are with me
as the creed of such students
directions for study.

Dr. Bellamy of Washington
is sending me an article
on Med. Statistics bet
he all out, I think, go
into any appreciation of
the value of published

I think two factors introduced ^{carelessness} into
Med. Histories besides the usual ^{prepossessions} _{to}

1. The assumption of no previous phenomena
in fam. tree ~~but~~ when none are known - i.e.
negative becomes positive evidence. S. Calvert
opines that a hospital patient gives a proper
account of his ancestors.
2. Concealment, deliberate & half deliberate;
especially as to Cancer & insanity. An incident

f.3bv

whom you + I probably both know well,
 medical man who had ^{and obvious} cancer in
 his own stomach (+ must have known it, for
 one else knew it) declared in respect of his
 own daughter, dying of cancer, that ~~no case~~ ^{he could not}
 understand it as there was "no cancer
 in the family"!! There had been also
 other cases but he would conceal ^{the disposition} it if possible



to bleed but will add to
them his own: I trust as
a good example to follow.

I trouble you with a
reply to ask whether you
happen to know any medi-
cal man who is (the relief)
upon to deal carefully with
medical questions of
heredity &c. It is a

Subject - I have not kept
 up with.

Chas. Roberts is I fancy
 not altogether to be relied

upon. If you do not

know any such person

pray give the matter no

more trouble: if you do the

name & address in post card

will suffice & oblige.

Yours faithfully

Elizabeth Roberts



Deonitini House, f.5r
Aublesde

At. 7.

tu 15th a so

Dear Mr Gallon

Away from my
books may I for the
present content myself
with giving you my own
impressions - they
can scarcely be called
opinions, & certainly
not more.

I. Allen
d.

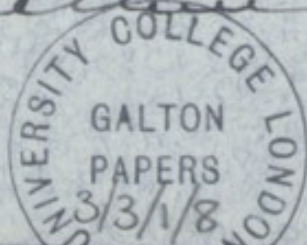
may be studied

B. unscathed -

If A. be performed - say by
resection of the vas carrying
the semen from the testis,
I believe no harm is done.

- the internal influences
(chemical?) of these glands
still reach the system, by
blood vessels or lymphatics.

B. If the testicles themselves
are removed the results
- soon in elderly persons
are in my experience



disastrous. In all cases
 I have known of, mental
 deterioration has set in, fol-
 lowing a very grave kind.
 One young physician, ^{who} had
 both testicles removed for
 tubercle I know personally
 & see occasionally. Fortunately
 he is in partnership with
 his ^{young} brother or he wd be
 quite stranded - so he tells
 me. Beyond a certain readi-
 ness of manner & speech
 I did not value much, but

the days (though now quite ^{7 f. 6v}
(+ well for years) he is good
well physically) he is good
for nothing. He was a cultivated
man, but his interests
in reading much have flagged
he has no enterprise; he
can just help his brothers
a little, but not with any
efficiency. And this is I
think as good a ^{result} ~~case~~ as

any. Others have gone into
lethargies &
dementias of sorts: but
^ become suicidal.

2. Wamsley.

There is I believe no α

(no lessening of disease's
but preventing ^{mitigation?} ~~result~~)

f. 7r

of little harm I believe it
is only B. spaying. For
a bad friend a young lady
friend of mine has just
had ~~her~~ a "clean
sweep" made. Both
vocal cords were ^{found} diseased. It
will be curious to see
what happens, poor thing.

Speaking generally I have
known a few such cases,
& the effects were un-
favourable, though by no

means as bad as in ^{an} ^{eye} ^{of} ^{an} ^{evil} ^{man}.

But I should say the
sick are of perverted
affections, obsessions or
hardness or unkindness.
I don't see I have been,
but there may have been
other causes of perversion
e.g. heredity, or disappoint-
ment of offspring &c. I
am ready to believe that
spraying may be com-
paratively harmless

except I suppose for de-
gree of specimen?

As to the books I will
write later? & I am sending
you letter to ^{Walter} Heape (FRS)
who is as likely as anyone
to know what is the best
point - herein

With kind regards
Yours truly
R. H. Whittaker

P.S. I think we must

not forget the moral
 effect of stultifying upon
 the surgeon? & the
 assenting parties generally
 I don't feel sure that
 it wd. not be too short
 a cut to self defence on
 behalf of the community - but
 consistent with the higher
 ethical standpoint? Is
 it not rather like chopping
 off a homicidal persons
 right hand?



Telegraphic Address -
"DEUCALION LONDON"
Telephone No 6554 CENTRAL.
GEORGE ALLEN & SONS.
Publishers.



Ruskin's House,
156, Charing Cross Road,
London, April 22 1909
W.C.

Francis Galton Esq.
42 Rutland Gate S.W.

Sir,

In view of the acute state of the various problems bearing on and the resultant of national degeneration, and the increasing demand from thoughtful readers and citizens for pronouncement on these and kindred subjects from those whose study of them gives their dicta authority, it has occurred to us to approach you on the matter, with the object of ascertaining whether you would be willing to write for us a book on

Nature and Nurture:

the philosophy of racial progress and improvement. This, roughly stated, is the idea as it comes to us - though, doubtless, you could suggest a less crude generalized statement of the lines on which such a work should be written.

Your labours in the cause of Eugenics and the national interest which the subject claims must be our excuse for venturing to make this proposal to you. Should you be inclined to give it your consideration and to fall in

with it, we shall have further pleasure in entering into negotiations as to terms of publication and other details; but should you be unable to entertain the idea, we should appreciate from you any suggestion as to the writer (or symposium of writers) who would in your opinion be the best fitted to treat for general appeal the subjects to be dealt with.

Awaiting the favour of your reply

We are, Sir

Yours faithfully

George Allen & Sons

P.S. Since writing this we see that in 1874 you published a book on "English 'Men of Science'" with a sub-title similar to that suggested by us as the principal one. But we do not consider this would matter.

Allen 1

Allen 2

ES

Telegraphic Address-

"DEUCALION LONDON"

Telephone No 6554 CENTRAL.

GEORGE ALLEN & SONS,
Publishers.

Ruskin House,

156, Charing Cross Road,

London, April 26, 1909
W.C.

Francis Galton Esq.
42 Rutland Gate S.W.

Sir,

We are gratified by your favourable reception of our letter of 22nd inst., and by your willingness to consider the writing of a book for us as suggested. The amount of text you mention — from 40,000 to 60,000 words — coincides with that we should consider sufficient for the work.

As regards terms — we are giving our consideration to these and other details, and

hope in the course of two or three days to make you a proposal in due form.

We realise that, apart from the question of your health, such a work could not be unduly hurried. And in your case we should be happy to fall in with your views, provided the term allowed for the delivery of the manuscript did not exceed the six months named by you.

We are, Sir
Yours faithfully
George Allen & Sons

may decline.
H

Telegraphic Address -
"DEUVALION LONDON"
Telephone No 6554 CENTRAL.
GEORGE ALLEN & SONS,
Publishers.

Ruskin House,
156, Charing Cross Road,
London, April 29 1909
W.C.

AMW 3

Francis Galton Esq.
42 Rutland Gate S.W.



Sir,

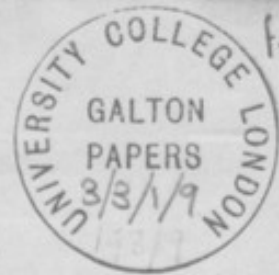
We have now given our full consideration to the question of terms, etc, for the book referred to in the previous correspondence between us, and we have pleasure in making the following proposal of publication for it, & roughly stated for the present, but to be followed by a detailed draft of agreement for your consideration should the general terms fall in with your views:—

The sum of £100 (One Hundred Pounds) to be paid on publication on a fee of a royalty of fifteen per cent ^{of the published price} for all copies sold in the United Kingdom — to be increased to twenty per cent after the sale of five thousand copies. Half the profits if the work be copyrighted in America — or a royalty according to the price obtained for copies ^{supplied} for America. The published price of the book to be not less than five shillings —

We shall be glad to know whether these terms, generally stated, meet your views.

We are, Sir, Yrs faithfully, George Allen & Sons

Allen 4



F.B

Telegraphic Address -
"DEUCALION LONDON."

Telephone No: 6554 CENTRAL.

GEORGE ALLEN & SONS,
Publishers.

Ruskin House,

156, Charing Cross Road,

London, May 3 1909
P.C.

Francis Galton Esq.

42 Rutland Gate S.W.

Dear Sir,

It is with regret that we learn your decision to relinquish the work we had suggested to you. The wording of your letter makes it clear that it is not due to any question of terms, but rather that of your health — for which please accept our sympathy.

Should it be merely, also, the mention of a time-limit which prompts your refusal,

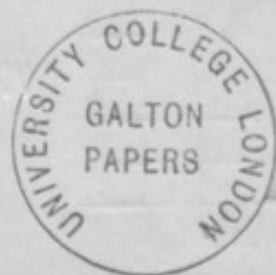
we should be prepared to waive that, and to leave the matter in abeyance for the present. But should you wish us to treat your decision as final, we trust that in the event of improvement in health causing you to rescind that decision you will ~~allow~~ allow us to reopen negotiations on hearing from you to that effect. Or perhaps you would prefer to send us your MS. whenever the inspiration and power for work seizes you.

With our renewed regrets

We are, Sir

Yours faithfully

George Allen & Sons



Answered

Robin Allen F.R.S.



Woodberry

Langton Spex.

22. Aug. 89.

Dear Sir,

I am not sure whether I may
not be committing something of
an impertinence in addressing
you on the subject of heredity,
since I have not yet had
the opportunity of reading what
you have written on it; to say
nothing of the doubt whether I
should be able to grasp the
significance of it if I had;

Yours Galton Eq. F.R.S.

but

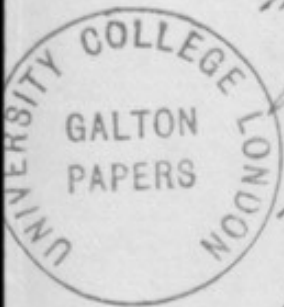
but as a humble worker in
 my old age towards better social
 arrangements I trust I may
 be forgiven if I ask whether
 your researches throw any
 light upon the relative responsibilities
of the man & the woman in
the production of satisfactory
issue?

It would seem to be indisputable
 that after birth, - so long as
 the child is dependent on the
 mother, whether for milk
 nutrition or spoon meat
 & maternal care - it is
 she who influences the

UNIVERSITY

development, or non-development,
 of character the most; and it
 is reasonable (altho' somewhat
 hypothetical), to consider that
 during the time she carries the
 embryo within her, that every
 one of her sensations & thoughts
 must affect it so much, that
 during the period anterior to
 birth she is actually creating
 its character.

The occasionally striking resemblance
 of the child, both physically and
 morally, to the male parent
 would seem to militate against
 this; but this might arise
 from the woman's love for the
 father, from her recognition of



and admiration for his characteristics
 and it would be very interesting
 if, upon research it should be
 found that the resemblances to
 the father are strongest. When the
 intimacy, both physical & moral,
 of the two parents has been greater,
 and least where the mother knew
 less of the father (as in the case
 of posthumous children) or nothing
 - neither seeing him before nor
 after impregnation - as is said
 to be not infrequently the case
 with women of the town.

Now that the intelligence of
 humanity is beginning to cast off
 its superstition, and, instead of
 being influenced by the old Semitic
 agnostic dogmatism which, when
 it partially apprehended a
 fragment

fragment of Truth declared "Thus saith
 the Lord." "it now desires to
 learn, not the accuracy of Science
 "What doth the Lord?" - and
 now that womanhood is asserting
 itself in so many ways (blindly
 enough in some but pathetically
 in all), it becomes profoundly
 desirable to know what the
 Creator Spirit has ^{or permitted} done, in
 regard to the functions of that
 Sex. If it be indeed, to a
 far greater extent than is
 generally apprehended, the
 Woman that is responsible for
 the character of the Child, then
 one of our chief aims in social
 organisation should be so to
 educate every maiden that she

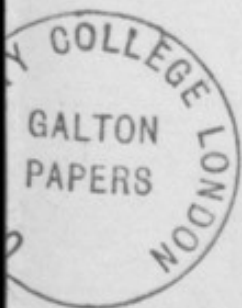


she should regard herself, before
 she accepted maternity, as
 'Aucilla Domini', and after
 maternity so to direct the
 wealth and guide the consideration
 of Society towards her, that
 every mother should have
 opportunity to give her child the
 fairest play.

It may be that with the best men
 and women this is now, practically,
 the case; but if the religion of
 the future is to be an acceptance
 and furtherance of the purposes
 of the Creative-Spirit as manifested
 thro' organization & Law
 and the law of reproduction
 is in effect a burden of

responsibility upon the woman,
 then a pervading recognition of
 this fact, by both sexes, would
 surely go far to solve the riddle
 of this very painful Earth, and
 create a millennium upon it.

I write, as I have implied,
 as an old man, and probably
 have but little power to influence
 Society left in me, but the
 infinite battles of failure and
 misdirection throughout the
 hurly-burly moves me very
 deeply; and as I still keep
 some touch, by voice & pen,
 with people willing to listen to
 me I venture to approach
 you

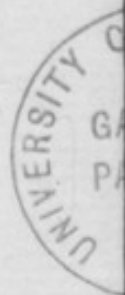


You for any light you may
 be able to throw on a great
 question, which seems to me
 to affect & ~~cover~~ cover nearly
 all the rest.

Believe me
 dear Sir

Very faithfully
 J. Jermyn

Robin Allen.



F. Allman

f. 1c



Ardmore.
Parkstone.

Aug 15 1897

My dear Galton

I was greatly interested in your paper on the contributions of the ancestors to the herbage of the offspring in the last No of the R. S. Proceedings. There can I think be little doubt that Galton's Law will be accepted as an important factor in the phenomena of heredity.

The Darwinian Theory has lately been occupying my thoughts

a good deal and I have been
met with many difficulties in
its ~~adoption~~ acceptance to the
extent demanded for it by
Darwin and his followers. Chief
among these is the alleged trans-
mission uninterruptedly through
inconceivably great lengths of
time of the sexual functions. The
sexual organization is probably
the most complex and the most
precarious in its functions of all
the systems of the body. If we
confine ourselves to the Vertebrata
alone we find abundant evidence
of this precariousness even where
around us in the extension

without assignable cause of families and tribes and the gradual diminution in numbers of whole population, and yet if the Descentism theory be correct we must believe that every sexual individual now living on the globe has come down to us uninterruptedly from the first appearance of sex upon the earth, a postulate which I appear to me cannot be accepted. The alternative is to admit that there are numerous breaches in the continuity of succession or to find ourselves placed in the dilemma of admitting that we have to deal with a period

which if long enough for evolution is too long for persistence.

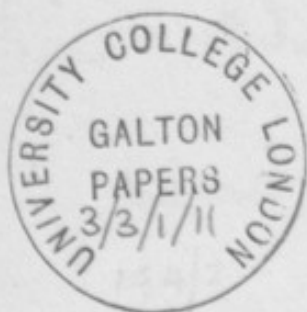
I should be much obliged to you if you would think over this and that if you can detect the weak point in the argument you will let me know.

Believe me
very sincerely yours
Geo. J. Allman



J. Allman

f.3c



Ardmore,
Parkstone.

Aug. 24 1897

My dear Galton

Most sincerely do I
sympathize with you in your
bereavement. I can now say nothing
more than to hope that ^{you may find in} time the
great assuager of such sorrow
its friendly and efficient
help.

It was very good of you to
write to me on the subject of my
letter. I have already had before me

what you say in explanation
of the difficulty but perhaps in
a different aspect from that in
which it appears to you. I should
like to send you my own views
of the matter but I could not think
of now intruding them on you in
your hour.

Believe me
always sincerely yours
Geo. J. Allen

I hope to send you the registers very
soon & etc

f.1r

Dec. 8. 91

NORTH ESX LODGE
MUSSELBURGH

Almond

Dear Sir.

I have to thank you
for your two very kind letters
of Nov. 23. 1891.

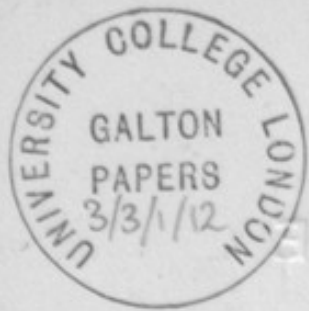
I see I have been wrong on
some points.

And yet it seems to me

quite reprehensible that
only bookish qualifications

should be taken into account
in selecting for active services.

GALTON/3/3/1/12



f.1v

This is exactly the case when
Kangalis are chosen by
the same test - for these
are restoring one of the
loved races on the earth in
all the aspects of character -
through an intellectual as a
devil.

I shall sometimes rewrite
after by article. I am back
on getting a hearing, but

don't know how.

I shall send you over
physical registers soon.

They are at present wanted for
our December measurements.

I also always during Xmas
holidays look carefully over
the chest girths.

If any boy has not improved
in this respect during the year.
(unless he has a very big girth).
esp. between the ages of 15-18.

I always make a note in the

Medical officers both to have
his chest sounded as his return.

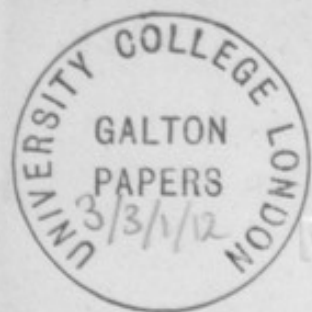
It then was several other
unsuspected cases of chest
disease have been discovered
& taken in time.

When the chest is duly increased
there is now lung disease.

Our measurements have since
1874. been taken by the same
sergeant major.

Each boy is measured on entry
& three times annually.





NORTH ESK LODGE
MUSSELBURGH

As you will see, on average
my is about 2 inches better
than the average new boy
at the same age.

The measurements establish
the fact, that nearly every
boy may be given a good
chest girth.

I am taking all our boys over 18 last
~~December~~ April. (When there were an
unusual number of big boys)
I will send the following girths

MUSSELBURGH
NORTH-ESK LODGE

40. 41. 37. $36\frac{1}{4}$. 37. 35.

$38\frac{1}{2}$ 39 36 $36\frac{1}{4}$. $37\frac{1}{2}$. $36\frac{1}{2}$

$37\frac{3}{4}$ $38\frac{1}{4}$ $40\frac{1}{4}$ 38 38. $38\frac{1}{2}$

39 39 $40\frac{1}{4}$ $40\frac{1}{2}$.

These were taken in the bare heart
of Ibbelien, in the usual military
way.

Now I do not consider a ~~single~~
as
one of the boys under 38 inches

What length for a soldier

with 2 exceptions, of the ~~war~~
life $5.5\frac{1}{2}$ & $5.2\frac{1}{2}$ feet-in height

A at least, of 38 inches were

made a minimum there

would be better to have a
class room - if there was
in all our schools a proper
system of education

In fact our system is simply
- natural.

I.e. every day I spend $\frac{1}{2}$ hour
daily in gymnastics, the rest
be out about 40 minutes before
dinner - 1 or 2 days.

$1\frac{1}{2}$ hours in afternoon. On very
wet days a 4 or 5 mile

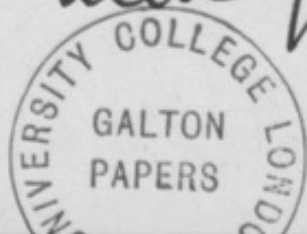
compulsory run - which the
will cover with. Also has been
experienced the after flow.

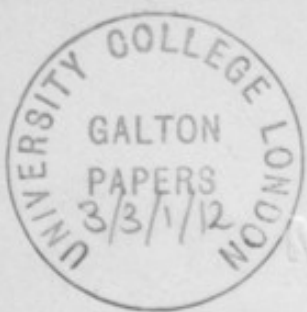
The dress also has something to

do into the chest girths
 Flannel shirts. Open at the
 back. & no waistcoats
 - even coats off. whenever
 warm enough. outside - in short
 - a at meals, give the
 chest a freedom of growth
 it does not usually get.

Of course we sacrifice to costume so
 far as a go to society costume
 for a few hours on Sunday.

But I am venturally keen on
 insisting that we shall have
 fine men physically for our





f.5r

NORTH ESK LODGE
MUSSELBURGH

acted services. When
1st I have proved
practically that they can
be grown. It follows

the general lines laid
down by Herbert Spencer
in his Essay on Education.
— lines which he says no one
ever tries.

2nd when I see that
our boys turn out, as a rule.

MUSSELBURGH
NORTH ESK LODGE

leading & governing character
wherever they go.

I hope I am not bragging.
but this little ^{the last} group of 120
has hit times in 8 years.

Given Alfred its football
captain - I owe to Cambridge.
we have also in the last season
captained Alfred were eight
& athletics. besides constant
Collegiate Captains.

3. When I find that old boys
when we get back here have
been more governing power
than master generally have.

4. When I think I have
proved that consumption
tendencies may be entirely
eradicated.

I omitted to mention the
Catherine Nuttall's attack
was 'ventilation', but to
open windows. I believe in
oxygen by night as well
as by day.



F. 6v

used how can a yacht stand
Cambering who can sleep
with his window open - as
is the rule. in almost all
weather.

I hope I have not hesitated on
y-^h between - but it is very hard
for a man living far from London
to get a hearing for his views.
That you may not think I am the
"athlete of the school" I may perhaps
add that though I did row in the
Hullid boat. I also got 2 firsts +
2 seconds.

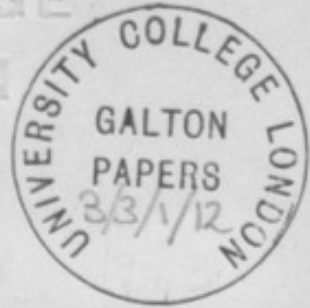
I don't want to advertise. You may
use any of my observations if you please
- but intended is name of that of Peretto
I do wish to be published. I think I have
discovered something that H. H. H. always

Almond

F.7r

Nov 10. 12

NORTH ESX LODGE
MUSSELBURGH



Dear Sir.

I herewith send
you one chest ^{of gymnastic} measurement
books.

The only thing I have worked
at is the chest, because
it involves such important
issues

I believe that the books
compiled with by Lapin

MUSSELSBURGH
NORTH ESK LODGE

leave out

That the chest girths of
growing boys an average
should be improved
in the average from $1\frac{1}{2}$ to
2 inches.

2. ⁰³ That the means taken
for such improvements
acts favourably in many
ways upon health, morals
& character.

3^d. That such improvement
decrease the liability to
Chest disease

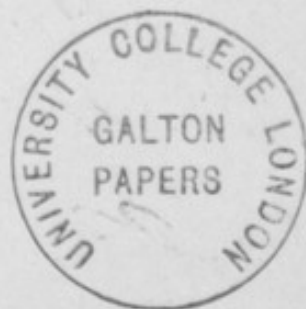
4th That when a boy's Chest
does not improve ~~they~~ in
Measurement, he should
be sounded.

5th That when it is
improving & heard, the
boy is in no danger of
tubercular lung disease.

I think that the bodies
suffer in themselves
not well.

I believe that similar notes
 are kept at the best
 athlete & football school
 in its size - in the world
 Mercator castle, Cambridge

Very truly
 H. H. Arnold



Mr said
M.S. almonds
separately
E.P.

Nov 11th - 9.

NORTH ESK LODGE
MUSSELBURGH



Dear Mr Butler.

I gladly send
you my paper.

If Mr Galton would ever

come to see our physical

exhibitions. I shall be

most glad to send them -

I believe they are useful.

I.e. I do not know of

MUSSELSBURGH
NORTH ESK LODGE

any other contains the
measurements, taken 3
times a year. of all boys
who have been subject
to a system for 15 years.
New boys as I showed you
are taken separately.
The system taken clearly
establishes that a system
may make a difference of

About $2\frac{1}{2}$ inches in the
 average chest width of
 boys of 15 & 16. The
 Cambrian boys also have
 been subject to it for some
 time. With them also have
 been under all sorts of
 systems.

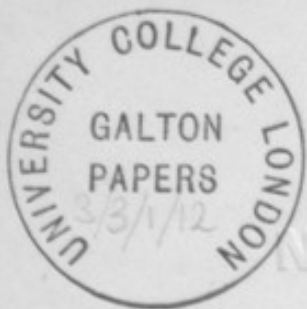
There is nothing however
 of the nature of discovery
 in the system.

It is simply an attempt to
 grow what human anatomy



on Physiological Principles,
a thing which Herbert
Spencer ~~says~~ ^{said} nobody tries.
I think therefore I tried.

It is in fact merely a
matter of oxygenating the
blood. by caloric of
various kinds & fresh
air inside the house.
and none a leaf. Sweating
feeds, and ~~constantly~~
lose pee dropping, and
~~constantly~~ talking to



f.11r

NORTH ESK LODGE
MUSSELBURGH

by about the rationale
of their lives.

Be this as it may, the
results are on the
surface of the registers.

Further, on comparing
the physical with our
carefully kept medical
registers. I can clearly

Show the effect of a good
physical system on
the prevention ^{of cure} of lung
disease - & the close
connection of which exists
between such disease
& the absence of proper
growth in chest
girth.

I regard myself as
 however, an expert
engineering in an

almost unknown
 direction. I know that
 there are plenty of
 faults in our system
 I am finding them out
 every year.

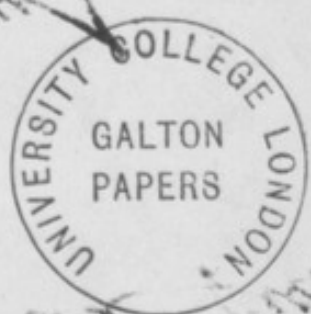
I believe that in the
 accompanying paper I
 have avoided anything like

Advertising. But it is
 very hard to make public
^{the} benefits of independent
 research without
Advertising.

Very truly
 yours

H. H. Cullum

[Faint, illegible handwritten notes and scribbles]



MS on Physical Tests in Competitive Exam
by Hely Hutchinson Almond Headmaster of Loretto School, North Lake Lodge
Musselburgh
(was sent to me by George G. Butler to read)

1. Cannot understand why for the more active services at least, competition sh^d be purely intellectual
2. In dealing with nature of our dependencies present system is inadequate
4. Qualities sought are intelligence, special information, assiduity, business habits, force of will, power of command, high principle, temperance, courage, endurance, courtesy, high spirits, physical robustness ^{power}
- 5-6. Governing power and the more strictly intellectual powers are not correlated, with intellect + physique ^{being}
7. ~~They rarely~~ ^{They rarely} exist however with a low intellect
8. Schoolmaster chooses masters with consideration to physical qualities - phys: & success are likely to influence long.
9. Tom Brown illustrates the evil effects of choosing prefects on intellectual grounds only.
10. Appeal to any headmaster whether his experience does not show that all his prefects have been chosen on the possible ground
14. The recommendation of the Commission was wisely shelved through a laudable debate. {He clearly has not read it}
- 15-16. Is greatly against going too much to mere athletics, and ^{agrees in p. 17} a 25 or 30 miles walk required from all candidates to the woods & forests is with right direction
- 18-19. The gladiatorial character of modern athletics is greatly to be deprecated - most look in idly ease at themselves ^{as} ~~as~~ ^{active}
20. ^{praises of walking} any healthy youth ought to cover 30 miles within 7 hours by the help of his legs alone {? ?}
21. Would make candidates camp out & attend to themselves. camps on military principles. - Evens a case.
23. marks his long capacity. - He has kept a register of chest girths - here proves to have scarcely
24. seen been a prefect with less than 35 inches girth - would they have run more - refers to the ^{children}
26. Believe by his plan we sh^d get substantially the same men, but they would be greatly improved in will. be also the unsuccessful would have gained health - many of these are now worn down by undue ^{exercise} ~~exercise~~
27. The aim of the schools sh^d be to produce not a few athletic prodigies but a high level of health & manliness
28. I wish to join together what should never have been parted (health & intellect.)



F.1r 194/4

June 28th 1897
from C. P. B. Alsop
99 Bartholomew Road
Kentish Town



Sir Francis Galton.
K. C. B., J. P., F. R. S.

Dear Sir

having read your article
on the Planet Mars, in the
New York Journal which
appeared January 17th.

I wish to say that I was
much interested in your
communication to the
Journal on the subject
of the possibility of signaling
from that Planet to our
earth, it reminded me

of what I had read in
a Book some two or
three years ago upon a
similar subject and
feeling so much interested
in your letter to the journal,
I sent a manuscript to
the journal which I had
copied from the Book
I had read. The journal
would I think have published
my manuscript but at the
time they had more letter
press on hand than they
could well manage at
the time. I enclose you
their printed reply which
they sent back with my

manuscript which I
requested them to return
should they not be able
to find room for it, so

I now take the pleasure
of forwarding the same
manuscript for your
perusal, as I think
if you will do me the
favor of reading the
information it gives on
Mars & its inhabitants
will be interesting and
may also be encouraging
to you in your further
investigations of that
most interesting Planet
praying that God may
bless you with ultimate
success

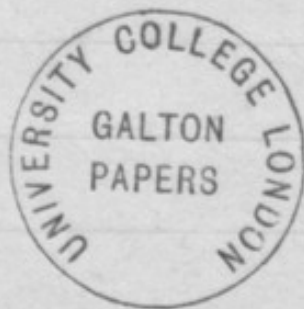
in your most arduous and
all absorbing work

I remain yours faithfully

C. P. B. Alsop

97, Bartholomew Road
Rentish Town

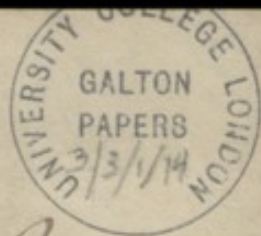
When I sent my Manuscript
to the Journal I was then
Residing in Savannah
S. C.
America



AMERICAN ASSOCIATION
FOR THE ADVANCEMENT
PHYSICAL EDUCATION

Seaver
YALE UNIVERSITY,

New Haven, Conn.,



f.1c

Jan. 31 - 1890.

Francis Galton, F.R.S.

Dear Sir,

As Secretary
of the 'American Association for
The Advancement of Physical
Education' I invite you
to prepare a paper, on
some subject - agreeable to
yourself but bearing more
or less directly on the
physical side of heredity -
to be read at the next
Annual Meeting of the Assocn.
to be held in Boston, Mass.
Apr. 3rd and 4th 1890.

A discussion of such material

as you may have seen similar
 of that compiled in Tables
 I, XI, XII, etc. in your book on
 Natural Inheritance would
 be very acceptable.

I take the liberty to send
 you a copy of the last
 Report. and also to enclose
 a table showing the results
 of work in Anthropometry
 here at Yale for five years
 ending June 1st 1888.

This subject of Anthropometry
 and physical Examination
 is receiving much attention
 in all our higher institutions
 of learning and during the

1945
f21

Current year the results of
15000 individual measurements
of students in Colleges will
be published by E. Hitchcock,
M.D. of Cornell University.

These will probably be followed
by the publication of figures
collected and compiled by
D.A. Sargent, M.D. of Harvard
Univ. who has more ma-
terial of this kind at hand
than any other man in
this country.

The object of our Association is
to encourage a scientific study
of problems connected with
Physical Education.

Be assured that we shall
esteem it a high favor and
honor to receive a paper
from your hand; therefore
hoping for a favourable reply
to adu.

Very sincerely yours,
Jas. W. Deane.



f. 1 r

Deutschland. — Allemagne.
Bayern. — Bavière.

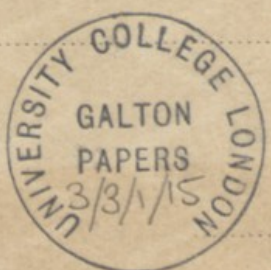


Postkarte. — Carte postale.

Weltpostverein. — Union postale universelle.

Mr. Francis Galton, R. A. F.

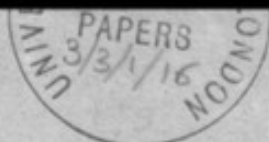
London, England.
Rutland Gate.



otto Ammon

Nur für die Adressat.
Côté réservé à l'adresse.

Dear Sir! I received your Paper: ^{F. 1 v}
"Average Contribution etc" yesterday
evening at Munich (München), return-
ing with my family from the
Bavarian Mountains. As I have seen,
the paper is a very scientific work on
the way of your fructuous ideas. I
shall read it with the greatest interest,
and write you my impressions after
my arrival at home, in the beginning
of September. I thank you very much
for your amiable attention. Yours truly
Otto Ammon.



I have not got the fine Portuguese maps that you allude but would be glad to possess them.

I have made a very fair map of the whole of Western Damara-land up to the outposts of the Ovampo and Iuvato, probably have sent it to the R. G. Society had they seemed to care about it or myself. I heard that my letter sent via Benguela was ^{lost} but the Society vouchsafed me no answer. The result is that my map will probably not see daylight during my lifetime. Before publishing it I would, if time & circumstances admitted of it, work it over once more as at present - it is just as I brought it from the journey. It is full of details - almost every hill & watercourse, however small,

is laid down. But it is 2 to 3 months hard work.

I congratulate you upon your appointments; they are certainly very honourable but beware here not absorbing all your time and make you neglect your own homestead

L. S. A.





Cape Town, Oct. 8th 1852.

Dear Galton,

I have just this moment returned to the Cape, and finding the Mail for England is about leaving, I embrace the opportunity to write to you a few lines -

I anticipate your surprise to find me so soon in the Cape. Of course it is from sheer necessity. I was unable to procure articles of exchange, & of any description whatsoever at Walvisch Bay, & have in consequence been obliged to come here, & that too over land, which has been a journey of the most tedious & tiresome description -

I was rather sorry not to find a few lines from you, but perhaps you thought I was still far in the interior. I cannot say how much I regret my not being able to go this year, for I shall in all probability never again get so favourable an opportunity. The rains fell in such abundance that I have been assured by the Natives, that there has not been a year equal to it for the last quarter of a century. Even the barren plain between Schepensnansdorp & the Swakause was covered partly

with grass - And the Snowkangas they when I left - and it was then still running very strong - had run for three successive months! One day in crossing the Whimelins Hope river we had our tucagon nearly carried away - The Kuisige has also risen to an enormous height - Mr. Bam's houses, Church &c. was completely carried away. Mr. Bam succeeded however in saving all his things -

I am now very busy making all the necessary arrangements for my expedition, and intend in the course of another month or two to embark for Walfish bay - I have secured Timbo who seems delighted with the idea of again going. Poor fellow, coming here he found his wife with another man - He has of course withdrawn her support & also taken his child away. - Timbo is really a fine man, & he well deserves the handsome testimonials you have given him - He said you forgot your saddle. I have taken it off his hands & shall be very glad to buy - Will you have the goodness to tell me the price?

I have been to look after your boats, as far as I could see they were well taken care of but I intend to have them out in a day or two

I think if you do not return, you had better
 sell ^{them} I shall of course be happy to dispose of them
 if you think proper - I shall in the mean while
 pay the man for the two years they have
 been there -

You may perhaps recollect one of your
 servants of the name John Waggona? He has
 turned out a horrid scoundrel. From the time
 he left Phebotok, to his arrival here, he has
 been imposing upon everyone. His usual
 story was that he had been sent by you to the
 Government at the Cape with important letters,
 & with a request of getting some two or three hundred
 soldiers, &c. The most extraordinary thing is that
 everyone believed him, & that he might lose
 no time, some sent him away in their best
 waggon, others gave him pack & ride &c. &c. -
 He is said to have come quicker to the Cape than
 any other man!

Col. Ingelby is still here & quite well. I
 am sure that if he knew that I am writing he
 would send you his kind regards. The Scorpions
 you will be surprised to hear, have been swindling
 everyone to a considerable extent. - They are now

off to England I believe -

I hope you will excuse this short epistle - I shall write you further before I leave - Pray remember me kindly to any one you think likely to take any interest in the lonely wanderer in the African wilds - Am^d wishing you every blessing

I remain, Dear Galtou,

Yours very truly & sincerely

Charles J. Anderson

P.S.

Of course, if you publish anything, you will not forget me with a copy. I am rather surprised that the Geographical Society has not written to me a few lines.



Anderson
Oct^r 1852
Cape Town



170 New Bond St F8r

September 7th 1854



Dear Galton, -

I have just received your very kind letter of the 4th inst. and it was with the same intense feeling of delight (that I always experience) that I heard of wellbeing and happiness. -

My movements are at present very uncertain, but as soon as I have heard from Mr. Lloyd I will probably proceed without delay to Sweden, but if there is the least chance of seeing you in England in the course of another month I shall certainly stay,
for

next to seeing him, I have no more
cherished object in the world than
you - But I beg you clearly to
understand that I do not wish
you for one moment to alter
your plans on my account:

Indeed I shall be sorry if you do
As regards the Map, bearings
&c. that I requested you to send me,
there will be time by & by, for
I think I have enough data
to go upon for the construction
of a rough map - and the time
is too short for doing any
very accurate work. My
intention is, however, to furnish

a more complete & correct one
by the earliest opportunity. I
think that between us we
might manage to fill up
what is at present a blank
in Great Namagua & Somare
Land. Dr. Thew proceeds to
Liverpool in a few days to
attend a meeting of the British
Association, and he is anxious
to have my map & Memoir
for the occasion. —

Return my sincere
thanks to Mrs. Galton for her
very kind remembrances of
me

~~1847~~

Believe me, though I have not
the pleasure of her acquaintance
I feel as if I already loved
and esteemed her. -

As regards my prospects
in life they are but indifferent
but it would be unfair to
trouble you with any details
on that head. Indeed it would
be wrong of me to grumble, for I
have much to be thankful for
and at present I feel rather cheerful
and contented, and consequently
comparatively happy. People
are everywhere kind and
considerate to me, and that
goes a long way with me.

I heard from your sister

lately, and your mother kindly
 invited me to spend a few days
 at Leamington which I will
 make a point of doing.

Excuse the shortness
 of this note, but my time is
 at present so occupied with the
 Map. &c. that I can afford to
 write no more. Next letter I
 trust will be more circumstantial.

What a dreadful thing
 that about poor Capt. W. Parker.
 I was not aware of it. How
 did it take place. Was he
 accidentally shot or was he
 murdered? —



Remember

The most kindly to your wife
Trusting that this note will
reach you quick, and in
good health,

I remain,

Dear Gallon

Your much attached

Ch. J. Anderson



170 New Bond Street

September 18th 1856

My Dear Galton,-

Your very kind letter, with
your delightful proposal of visiting
you in France, I have just
received, and assure you that
I shall have very great pleasure
in complying with your wishes.
I have been making inquiries
to day as to the best means of
getting across the Channel, and
find that Steamers run from
Southampton to Jersey, and
thence on to St. Malo, and as
this place appears not to be very
far from where you are at present.

residing, I have decided on taking
that course, but as the Steamers
from Jersey to St. Malo only
go every Tuesday, and as I could
not possibly be ready to start to-
morrow I have no alternative
but to wait till next Monday
(Sept. 26th). My intention is to
leave London ^{on that day (Monday)} at the 8 h. 30'
p.m. mail train which will save
me $\frac{1}{4}$ to 12 o'clock at night
steamer to Jersey from Southampton
-ton - at 11 h. a.m. on Tuesday
we leave Jersey, & I suppose
we will reach St. Malo that,
or early the following day.
Consequently you may expect
to see me at Dinan on Wednesday
next

a week, or the 27th of September,
 and I trust you will not have
 left that place by that time.
 If you are obliged to do so, may
 have a note for me where to
 find you. In the mean I
 intend to run down to
 Leamington to see your family
 and will of course bring any
 letters or parcels that they
 may have. —

Tomorrow morning I am
 going to your residence in
 Victoria St. Westminster, and will
 have a good search for the
 documents you have kindly
 offered me the loan of. —

I had



intended to have gone down ~~last~~
 week to Liverpool to attend
 the meeting of the Baptist
 Association, but I have now
 given up the idea -

I am exceedingly grieved
 to find that Mrs Gallon has
 suffered so severely from an
 attack of intermittent fever
 but I trust sincerely that by
 time these lines reach you
 she will be quite recovered.
 I hope you yourself is quite well?
 I am pretty well myself, though
 I cannot say but European
 climate agrees with me very
 well. -

Every body is out of London
 & consequently I see nobody.
 I was very much touched by
 poor Hyde Parkers premature

GAISON/3/3/16

France, F.13r

195

Hôtel de Londres

Normandie,

La Manche,

October 26th, 1854

Dear Galton,

I hope by the time that this letter reaches you that you will be comfortably settled in Westminster, and that you arrived without accident or delay in England; and I trust, moreover, that Mrs Galton escaped further fever attacks. —

Shortly after you left this place, my old complaint increased in severity, besides which I have been attacked by a quite different disease, and, though perhaps not actually so painful as the other, is, if possible, more annoying and distressing. The pain is at times (often for 12 to 24 consecutive hours) so acute as to make me shrink together like a boy. And the only

that gives me a momentary relief is
the bath. Of late I have also had
recourse to Chloroform. Only once
or twice since you left have I
attempted to take an airing, but
each time it was accompanied
with such pain as to compel me
to give it up altogether, and I am
now a constant inmate of my
Chamber. But enough of this, I
suppose in the course of another
month I shall be on my legs
again. I have taken an amazing
quantity of medicine in this
short time, and expect the Doctor's
bill will considerably lighten my
pocket. —

When at all free from pain,
I am busy with my maps for
the two Geographicals. To do it
satisfactorily, at all, it requires
both time & patience, but when

Completed I hope it will repay my
 labours. I am sadly afraid I shall
 not be able to fill up your part,
 that is from Schmelens Hope
 northward, as I am not sure of
 your way of working. Nevertheless
 I will do something. Should you
 favour me with a few lines, would
 you kindly sketch, on one side of
 your note, your notions of the
 course of the lower part of the Nourse
 R., its embouchure (Latitude of)
 and position of the junction of the
 Atchitanda and the Ceuine,
 together with the names and
 positions of the respective tribes
 between Nourse R. & the swambo.

I shall also be glad if the approximate
 latitude & Longitude of Sibilu'
 according to Dr. Livingston. -

When time I can spare from

John

and the more, I thought to be studying
 the French language. My tutor is a
 Frenchman who does not under-
 stand or speak the least of English,
 but this I consider all the better, as
 it necessarily compels me to address
 him in French. Indeed I have
 managed though of course very
 tortuously, to explain to him
 about our travels with which he
 seems delighted. I
 have been restored to health &
 shall in all probability return to
 England via Paris and for double
 reason in the first instance the
 steamer from Granville to Jersey
 ceases to run tomorrow (this winter)
 to run, and secondly I am in
 hopes by the time that my health
 is somewhat recovered, to be able
 to be sufficiently advanced in the
 French language to make him
 understand my wants & wishes
 I enclose my card to Mr. Bishop



Yours very sincerely & obliged
 Chas. J. Anderson.



Hotel de Londres F.15r

Avranche

November 2^d 54.

My Dear Galton, -

I received yesterday your kind note, dated Boulogne, and was glad to find you and Mrs Galton were well; and I hope, moreover, that your journey to London proved prosperous. I wrote to you sometime ago, on which occasion I addressed my letter to your residence in Westminster and I trust you have perused it by this time.

My health, I am sorry to say, is exceedingly indifferent, and the Doctor tells me, that, under

the most favourable circum-
stances, weeks will elapse
before I can be restored to
health. I have therefore no
alternative but to remain
where I am. Of course it will
be both expensive and
inconvenient, but it is
useless to grieve. -

would you kindly do
me a favour, viz. to go to
Bishop in Bond Street and
deliver the enclosed note to
him, which contains a
request that he will hand
over to you my cash box.
It is no great amount but it
would perhaps be as well to

Count

it in his presence. The Key will
 be found, together with other Keys,
 in my bed room. - When
 you have received the money,
 pray take out £ 15, and
 send it to Miss Elizabeth
 Lloyd, together with the
 enclosed letter. The remainder
 of the Cash I should be
 obliged to you to remit
 to me in the safest way
 possible. Would it be
 inconvenient to your Banker
 to give me a Cheque on
 Avranche for whatever
 the amount might be? I
 should think it could be
 cashed

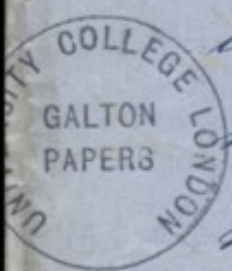


here without any difficulty
 However you will know best.
 Again, should my things be
 in the way, or troublesome,
 to Mr. Bishop, you would
 much oblige me by removing
 them to your residence.
 As they will go in a few
 Carpet bags, &c. I don't think
 they would occupy much
 space -



Should Mr. Bishop express
 a wish to have his account
 settled, I should be glad if you
 would pay him. I had been
 with him exactly three (3)
weeks when I left him, and
 I had agreed to pay him two
Guineas (£2.2.0) per week for
my two rooms and breakfast

this I have also had a little wine
 and beer, and an occasional
meal. As regard paying for
 the rooms during my absence,
 you will hear what he says.
 I wrote to him, soon after my
 arrival in France, to say that
 I should be glad if he would
 let the rooms, as I did not
 think of returning for some
 time. However, if he insists
 on my paying for the whole
 time there is no remedy but
 to pay, but of course he will
 then take into consideration
 my not having fed with him.
 I hope you will excuse me all
 this trouble, but I have no
 person in London to whom I
 could



address myself in this matter.

Mr. Bishop has also paid odd's and
ends for my account. Request
him to include everything
in the bill. —

I hope you arrived in
England in time for your
contribution to the periodical
you spoke of? —

If I have unfortunately
to stay here any length of time,
is there any chance of getting
one's things sent over here? —

If you settle Mr. Bishop's
account, pray give the
Chambermaid, and the
man servant, half a
sovereign each. They were
very kind and attentive
to me in London. —

Yours
Dorothy

The last week the weather
has been magnificent. The
sun has been as warm
almost as in the summer.

I had come thus far
when I received your letter
dated Westminster, and was
delighted to find you safe
in London and that
you have had such fine
weather in England. -

With kind regards to
Mrs Galton, and every
sincere wish for your
health and happiness,

I remain,
My Dear Galton,
Yours ever much
attached & obl.
Chas. J. Anderson -



170 New Bond St
April 4th 1855

F.19r

My Dear Galton, -



Will it be convenient to
you to advance me £40 or 50
towards the end of this month?

I am anxious to go over to
Sweden as soon as possible.

In case you can assist me
with the sum mentioned, I
would give Mr. Bishop orders
to hand you over the amount
as soon as my remittance

arrives,

which I expect to take place
early in June. -

I hope you are quite
well? Pray remember me
kindly to Mrs. Galton &
the rest of your family.

Ever yours every
sincerely
Chas. J. Anderson

My dear Anselm

It is with real regret that I feel I must refuse what you request. I will not rest my refusal ~~on~~ on the ground of ~~the~~ ^{that lending the sum would be} ~~loan~~ being inconvenient to me which is the case, but because I have of late years made an invariable rule of refusing - My reason is much what Polonius, in "Hamlet," says "that loan oft loseth both itself & friend"

Believe me ever sincerely yours
Francis Galton



F21r
170 New Bond Street,

April 5th 1855

My Dear Galton,



I have received your
letter of yesterday. -

I shall not comment
on your refusal with regard
to the money matter, but
you might have spared me
the pain caused by your
Polonic expression "That been
off loseth both itself & friend" -

You have judged me badly.
My sincere wish and hope
is that you may never
yourself know the meaning
of the word want -

If any parcel arrives
for Mrs Gallon (it has not
yet) you may rest assured
that I will see it safely
delivered in Victoria St.

Over sincerely Yours
Chas. J. Anderson

f22v

Anderston

March 1855



170 New Bond Street
Monday Evening

My Dear Galton, -

I send you my
Instruments. I dine out to
day, but notwithstanding
I hope to be able to benefit
by your invitation and your
assistance. Should I, however,
not be with you at the
appointed time (8-9),
and

the sky should be clear,
pray make a trial of the
Instruments by yourself.

Your experience is worth
twenty of mine -

Very sincerely Yours

Chas. J. Anderson.



f24r

7 Bloomsbury Place
Bloomsbury Square
Saturday Morning

My Dear Galton,

It was with very great
satisfaction I learnt that
you at last had arrived at the
goal of your sanguine wishes.
I am sure that your talents,
and good motives, are a
sufficient guarantee for the
success of the arduous, but
immensely useful, work
you

F24v
UNIVERSITY OF
GA
PA
are about to embark in.

With regard to your
kind offer to make me a
fellow labourer in this
good cause, believe me
I feel very grateful. In a
pecuniary point of view, a
fortnight ago, when without
a roof over my head, and
when struggling for bare
existence, the proposal
would have been invaluable.
I have now engaged my
rooms

for several months to come,
and whether I occupy them
or not, I must pay alike.
I am but too sensibly
aware of the beneficency
of change of air, but I have
not yet given up all hopes
of visiting Sweden.

Again. I do not know
how far I may be competent to
fill the post you wish to
place at my disposal. My
conscience would never allow
me



to accept of an appointment,
however lucrative or indifferent
without the certain knowledge
that I could hold it with
honour.

Yet from the kindly
feeling I have always enter-
tained towards my fellow
creatures, and
by the same wish as yourself
to be "of use in the world,"
and from personal friendship
to yourself, I would gladly
try

my hand in assisting you
to the best of my ability. My
small store of practical experience
might possibly be of some use
to you in putting into train
and arranging the elementary
processes of your method,
which, if I mistake not,
will be the most difficult
part of the business. But
since my own time is so
much occupied, and ~~they~~
plans for the future so
uncertain,



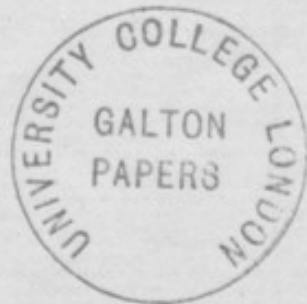
I would not undertake to
stay with you any length
of time or any prescribed
period: I might be called
away any day. Allow
me simply to come as
your friend - at least for
the present - All I shall
require, is a "shake down",
and perhaps it would not
be too much to ask to
have my travelling
expenses

paid?

I have written to Mr. Galton
to inquire whether you will
be at home to-morrow &
whether it will be convenient
to you to see me —

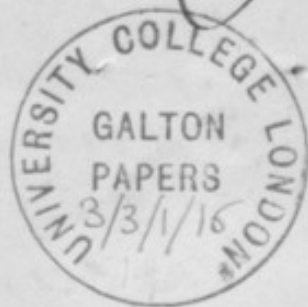
What of my instruments?

Very sincerely Yours
Chas. S. Anderson



Tuesday Evening, F28r

My Dear Galton, —



I am truly glad to find that at last everything has been satisfactorily arranged with regard to Aldershot. But on the other hand, I sadly fear I must disappoint you. I need scarcely assure you it is no fault of mine, but as I told you in a former letter

letter

I am entirely guided by
circumstances. —

As yet I have had
no encouragement about
my Book, and since there
is not a person in
England who would come
to my assistance with a
sixpence in case of any
difficulties, it would be
dangerous for me to ~~be~~
live entirely upon hopes,

and perhaps finally
 would find that no
 Publisher would undertake
 the work.

My plan is, therefore,
~~unless I rule~~ in a few
 days to leave England
 for Sweden, in order to
 see my family - that
 is provided I can scrape
 together the means, &
^{notice} return forthwith to the
 Cape.

I have not yet, however,
 given up all hopes of
 getting ~~some~~ ^a Publisher,
 in which case I may
 remain in England
 until such time ^{that} the
 work is through the
 Press. You shall know
 further before Saturday

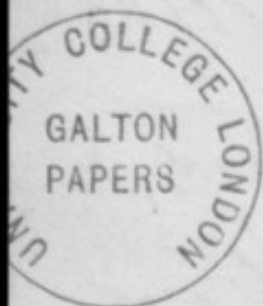
In haste

Yours very truly

Ch. J. Andersson

7 Bloomsbury Place

Bloomsbury Square





7 Bloomsbury Place ^{f.30r}
Bloomsbury Square
July 13th 1853

My Dear Galtou, —

I have received your
last communication, and
feel obliged to you for your
offer to edit my Book
should I find a Publisher.
However, having already
secured most able assistance
for that purpose, I beg to
decline your offer. —

With regard to the
remainder

of the Contents of your
letter, the less said the
better. From the perfect
Confidence I have
that you meant
sincerely, I will
endeavour to take it
in the same spirit. -

I am off to night
for Sweden -

Sincerely hoping
that your exertions

at

Aldershot will be
crowned with the success
the undertaking
deserves, and that I
may find you in the
full enjoyment of
health on my return,

I remain,

Very sincerely yours,

Chas. I. Anderson



132c
Camara Land, Mumbingué -

Sept: 21st 1854

My Dear Galton, -



I have long been meditating on penning you a few lines, and now an event has occurred which hastens this my resolution.

In May last Mr. Friedrich Green left three parts on an hunting and exploring expedition for the interior. His principal object was to penetrate, if possible, to the Comoué river. A letter just received from my friend is now lying before me from which I learn with regret that not alone has he failed in accomplishing this much desired object, but that he has had a most miraculous escape from the Ouanlo nation, who, it seems, have turned traitors. I have sent an account of the transaction to one of the principal papers at the Cape and have requested Mr. Hall to forward you a copy by the earliest opportunity. Messrs. Hahn and Patti, who accompanied Mr. Green, have returned in safety to their homes, but they feel sadly out of spirit - or, to use Mr. Hahn's own expression, they "feel humbled in the dust" - at

the disastrous result of a journey which a few ~~months~~ months back they had looked forward to with pleasure and success. The Ovambo, however, have paid dearly for their treachery, and it is to be hoped they have learnt a lesson which they will not easily forget. Several of their principal men, Dangoos chief son (no doubt you will remember the youngster) amongst the rest, were slain. I am totally at a loss how to account for their behaviour but am greatly inclined to think that it did not altogether originate with themselves. Be this as it may, I fear much that those seroundels, the Namagwas, will use it as a pretext for attacking them; and if they do, the fate of the Ovambo is sealed, for though they cannot be broken up quite so fast as the Camaras have been, nothing but the interference of Europeans can save them from ultimate ruin.

But notwithstanding Mr. Green's many misfortunes, his journey will not prove altogether

abortive, for it has accidentally led to the discovery
 of a fresh water Lake. If I judge rightly, I think
 you will feel more pleased than surprised at this
 announcement, for though we found the dried
 up pond of Omantondi, I think we both agreed
 that the Lake was still to be discovered. The only
 thing that annoys me is the circumstance of the
 Lake (which, by the bye, is called Onondora)
 being actually situated within one single days'
 march of the Ojihakondua Tomutenya
 (Ojihakondua Tomutenya of the Map) — that is to the
eastward of the point of the flat where crossed by
 us in 1857. Indeed, I am not sure that both this
 plain and the Elosha Salt pan do not stand in
 connection with Onondora. But Mr. Green and his
 companions would no more have found the Lake than
 ourselves had they not accidentally stumbled upon it;
 indeed, they actually saw the water before they had
the slightest intimation of its presence or existence.

At noon as I shall have seen Mr. Hahn
 or Mr. Green — the latter I expect back in December



I shall be able to furnish you with a more detailed
 and accurate account of the interesting discovery. I
 shall also be able to furnish you with something
 in the shape of a map of the traveller's route. In
 the mean time you must not suppose that
 I can further glean from the newspapers. I
 have also a good many observations relating to
 the position of Samara land, which may possibly
 help to fill up a few gaps in the map. I only
 want time to work them out.

I need scarcely say that the friends of the
 north intend upon me, but in compliance with their
 wishes. However, it is to be hoped my friend will be able
 to make up for it by a ship to be captured which he
 contemplated undertaking in the early part of the
 next year.

At the expiration of my present agreement, and
 if I am spared in health, it is not unlikely that
 I will undertake an expedition in search of the remains.
 I don't think I could stay here in my grave until
 the position and character of the remains of Strom

As to your regard to the other shore, Dr. Rae & others
 will have no business to go to the bottom
 of the bay
 My dear friend
 I am
 Yours
 J. Ross

Leape Town

F.34r

July 19th. 1860.

My Dear Galton, -



On my return to this place a few days ago I found two letters from you dated 1st Feb'y and 1st of March, and was truly happy to find that when you wrote you were well and happy. But it appears you have had a very narrow escape. I believe the kind of diphtheria you speak of is not altogether new - at least from your description I should imagine it to be identical with a throat-disease very prevalent in Sweden during my school-days. Great number of young people died of it.

Pray what results do you expect from a survey of the Lunai? I presume you speak of the Lunai

of the Scriptures?

I learnt, for the first time, from one of your letters that my letter from the banks of the Okavango ^{via} Benguela, had safely reached its destination. What a pity I myself had not the same luck as my epistle! I am gratified to find that my discovery of the Okavango has cleared up one of the mysteries of an important point in the Portuguese Geography of the West Coast. I am by no means certain that the Omiramba "K' Omanbonde" runs into the Okavango, for some days journey to the eastward of your route (I mean of your furthest easterly point) there are two distinct

Omurambas, one evidently going
 direct towards the middle course
 of the Toughe, whilst the other
 either joins it (the Omuramba
 R'omanboudé, i.e. Omuramba
 sea' matakko) or separates from
 it flowing very northerly in the
 direction of the Okavango.
 — Nor can I tell whether the
 Omuramba sea' Owanbo flows
 east or west, though the latter
 seems the most natural. But if
 this be the case, how where does
 it take its rise? This point puzzles
 me amazingly. The boiling water
 observations that I made in
 these regions do not enable me
 to settle this question. Nor does the
 native information assist me!

This may seem almost incredible to you; yet I only tell you a fact.

I deeply regret to hear of the unfitness of the lower course of the Zambezi for navigation. This must be an immense disappointment to people in Europe. But perhaps the superiority of the newly discovered regions about Lake Manja may in some measure ~~compensate~~ compensate for this failure. Capt. Speke has lately been here. The Governour got the Parliament to subscribe a sum of £300. to his undertaking chiefly with a view of enabling him to get a supply of Mules. We have had a long chat together and I advised him to try Donkeys. It appears he had some of these animals on his last journey

but they unfortunately all perished.
I suggested that the cause of their
destruction was probably to be attrib-
uted to their being overburdened.

Capt. Speke thought it was the
real cause of their death, but said
he would make another attempt.

He seems a nice man, and expresses
much confidence as to the final
success of his journey and its object.

So the skeleton of an elephant
or a rhinoceros is only worth £50!
Surely, Prof. Owen does not imagine
that a man would take the trouble
of procuring and preparing it for
such a paltry sum? Why the tusks
^{alone} of a decent Bull elephant is
worth nearly this sum.

I am truly sorry to learn of
the elopement of Mrs J. H. Gurney.

though, to tell you the truth, I
 always thought her more fit for
 a footmans wife than the
 partner of such a good and nice
 man as her late husband. Has
 he succeeded in getting a divorce,
 and what about her own large
 independent fortune? I suppose
 that's her own during life, and at
 her death it goes to her children.
 I mean to the issue of her
 first marriage bed? I pity poor
 Mr Gurney from the very bottom
 of my heart.

Pray remember me kindly
 to Aunt when you see him. Tell
 him he might as well find time
 to drop me a line. Remember
 me also very kindly to our
 friend Vardon if you can see

him. - I am glad to hear that Dr. Shaw is doing so well. I don't think I shall ever trouble myself about again addressing either him or the R. G. Society. Both seem perfectly indifferent to poor Andersson. -

Your account of the Gorilla monkey is very amusing. I am very sorry I did not meet with the monster. If ever I do, depend upon it I will become a second warburton both in dexterity and boldness.

I cannot conscientiously state that I have yet thoroughly regained my health. My recovery is excessively slow & tedious, but I must be bracing winter air of the Cape will soon bring me

round.

With every kind wish for
your prosperity, health & happiness
and kind regards to Mrs Galtow,
your mother and others of your
relatives to whom I am known.
Also kind remembrances to
all other friends & acquaintances.

I remain

Ever very sincerely yours

Chas. J. Andersson

Francis Galtow, Esqre

My address is to the care
of Messrs Van der Byl & Co. St
Georges St. Cape Town.

to send me your part of the visit in
that of Mrs F. Galton, as also Samara Land
and other of your family willing
I would value them much

838r
Kimbouque - Sept. 8th 1854

Francis Galton Esq
London



My Dear Galton, -

About six weeks ago I received your
letter of the 27th of March. The reason of my not
replying to it before is that I was at the time so to
say in a dying state. My right hand leg being
completely shattered by a gunshot wound received
in a terrible engagement with the natives. It was
a regular pitched battle and lasted from 10 o'clock
a.m. to between 3 & 4 p.m. We were about
3 & 4000 men engaged - Samaras led by myself
& 2 or 3 other Europeans against Hottentots.
But I am unequal to enter into details being
still very weak & suffering at times excruciating
pain - For 3 months I have laid flat on my back
and indite these lines in that painful position.

I had severely expected to hear from you after so
long a silence. Moreover I believe it was my turn
to write but to tell you the honest truth. Your last

letter contained so many admonitions and so much
 advice of a nature utterly incompatible with the
 position of a poor man like myself that I thought
 a correspondence carried on in that strain might
 only lead to estrangement between us. Moreover
 you so utterly misconstrued my character.
 Lastly came your refusal for a slight pecuniary
 loan. I would never have asked had I not been
 perfectly sure of being able to refund you the money.
 But, at the same time, I have never forgotten
 "old lang syne" - in short what we did & suffered
 together. Indeed I have often wished to have
 written to and still more I have yearned to hear
 from you. I would now write you a long letter
~~saying~~ that you seem to take an interest in my
 welfare but must postpone it to a future date.
 Suffice it to say that at no distant day I had a
 very flourishing business but in an unlucky
 moment I befriended the Danians who suddenly
 threw off their yoke of slavery. I pitied them and
 determined to stand by them. The upshot has been,
 notwithstanding we have beaten the Hollenders
 (chiefly the Afrikaners) in three distinct

engagements, that my prospects in life have been utterly blighted. Loss upon loss has followed in such rapid succession that I have got almost bewildered. Upward of Twelve thousand pounds sterling is the amount of my loss up to date and Heaven only knows what may still be in store for me and I owe our friend V. D. Bppl'g large - and to crown my misfortunes I have become a cripple for life. But God is merciful and I am not altogether without hope of being able to right myself should I be restored to health.

But to return to your letter. I very much fear that I shall be unable to assist you with any data for your interesting researches. As regards the natives of South Africa keeping pet animals I never knew or heard of an authenticated instance of such a phenomenon. It is said that the chief found by the Matsoldo (conquered by them) on the Lesheke was in the habit of doing something of the kind but I believe it was more in the way of feeding them than actually keeping them captive.

We have only one species of Guinea fowl



in these parts. It breeds in captivity. You are of course aware that this bird in a domesticated state get white markings on the wings but I have not observed this singular phenomenon in any of the hoods bred here but perhaps it is only in the 2 or 3rd generation that the white appears -

I am surprised to find that you were not aware until lately that the African Elephant was tamed at a remote period. Why you will find something on the subject in "Lake Arganic".

I am very glad to find that your aged mother is so well. I had no idea that she was so old. Pray convey love and the rest of your family my best regards. Likewise remember me kindly to all enquiring friends, Oswald in particular. I am very glad, though a little surprised, to find that he is a family man.

I have two children, a boy and a girl, the latter a year old a sweet, lovable thing. The boy is a naughty self-willed fellow very ugly but otherwise as fine a fellow as you would wish to see. Both, as well as their

man's name a mail to Cape Town. And I am very much obliged to you for the information as to the name of the bird which you are talking of.

kindly fwd. by J. Hallatt Esqre

F40

Francis Galton, Esqre
Care of Royal Geographical Society
15 White Hall Place
London

P.S.A.



South Africa - Cape Town

F. 41r

March 15th 1866

My dear Galton,

Some time ago you asked me whether I had not a map of my last travels to which I believe I replied that I did possess materials for a very good one, but that I somewhat dreaded taking the work in hand in consequence partly of my physical sufferings & partly because of the great labour it would entail on me. However I have lately been ^{hard} at work on the map in question, & am happy to say have succeeded in completing it as far as time and circumstances would admit of. But it is with considerable hesitation that I now offer the maps (or rather maps) to the R. G. Society of London; for Mr. Baillie wrote to me to say that in a conversation he had with Mr. Baxter, your distinguished Secretary,

he

F. 410

he had told him that he "did not
think such a Country (Damaraland
&c) was worthy of a map." Secondly
I cannot but think that ~~the~~
~~a Country~~ Society has treated me
shabbily & neglectfully, but of
course as nearly every member
of Society feels himself more
or less an aggrieved & suffering
party, I must not complain.

~~But~~ it would be but a poor
way of getting satisfaction for
a supposed grievance by with-
-holding a document that may
to some small extent supply
a deficiency, & fill up a gap in
the map of these parts of Africa.
Will you therefore kindly under-
-take to present the accompanying
maps to the Society, with my
humble respects, hoping it will
find it of sufficient interest to
have it published in their Journal.
But if, on the other hand, Mr.
Bates' opinion should really
prove to be the veto of the

body of the R. G. Society, perhaps
you would do me the favour
of redirecting the maps, &c.
It forwarded them with the
first safe opportunity to the
following address:-

To
The Kongliga Veterushaps
Academien
Stockholm
Sverden

P.S. The parcel might be given to
the Swedish Minister or
Chargé d'Affairs in London.

The maps have cost me very
great labour, but indeed they
afford but a poor criterion of the
extent of my troubles & hard work.
But you will perhaps better
realise them when I inform you
that the documents in question
have been deduced from upwards
of three thousand prismatic-
compass bearings, besides numerous
other

observations. And in order to obtain
 these I find I have ascended
 between forty & fifty mountain
 mountain peaks, & hills, besides
 very many less conspicuous
 objects. I have truly spared no
 pains nor labour in arriving
 at the embodied result. It is
 true I could have added a
 good many more details to
 the maps, but for many reasons
 this is at present impracticable.
 In the first instance one of my
 note books, containing numerous
 data, has been mislaid or lost;
 secondly my health is very poor,
 thirdly I have no time, con-
 templating, as I do another
 journey shortly to the Interior
 with a view of improving my
 health & means, the latter
 are wretched in the extreme.
 Under the circumstances I have
 thought best to forward ~~to you~~
 the maps in their present state,
 as I must never be able to complete
 them more thoroughly.

your health & prospects. Mrs. Easton & best wishes for
 the King regards to Mrs. Easton & best wishes for
 Mrs. Easton & best wishes for

UNIVERSITY OF LONDON
GALTON PAPERS
3/3/1866

Cape Town. 38 Ruitenkant
April 17th 1866

F.43r

My Dear Galton,

I hope you will ere this
have received my letter & the map
for the Geographical & that the latter
may be found worthy of their
acceptance?

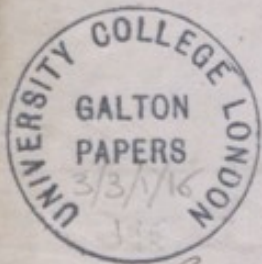
Can you afford to favour me
with your name as a subscriber to
my contemplated work on the birds
of Southern Africa, to which I will
direct a few copies ^{of the prospectus} to be forwarded
to you? Advise me to distribute them
in such quarters ~~as~~ ^{where} you think I
may obtain supporters. The prospectus
will give you a pretty good idea of
the character & extent of the Book in
question. Of course there is no chance
of my publishing for some time to
come as I lack the means to maintain
myself in England. Moreover, I must
wait to see the result of my applications
you will see by the Prop. that Day &
son the publishers demand the large
number of 500 subscribers as a gua-
rantee for their very large pecuniary
outlay. I can do with 400 at a pinch
but then they will not execute the
plates in the style I deem requisite.
Pray give me the benefit of your support.
With your large circle of friends and
correspondents you can be of greater

since time in this matter than
 any other of the few friends that I
 can boast of. I expect no pecuniary
 benefit from this work, as 700 copies,
 at the very least, must be disposed of
 before I can get a sixpence. My
 object therefore in publishing I
 venture to affirm is tolerably
 disinterested. Whilst waiting for the
 subscriptions lists to be filled up,
 & with a view of bettering myself
 physically & "pecuniarily", I purpose
 undertaking another journey to the
 Interior - I am hardly fit yet for the
 undertaking but I have little or
 no alternative unless I choose to
 starve.

My wounded leg is progressing
 tolerably favourably & I can now
 walk a little with the help of a stick
 but it seems somewhat doubtful
 whether I shall have much real use
 of the offending member. It is much
 deformed & about 3 1/2 in. shorter at the
 heel than the sound leg. The latter
 difficulty I have got over to some
 extent by having recourse to a false
 foot. There are still two open wounds
 & I expect more pieces of bone to come
 away yet. Lately I have been a terrible
 victim to gout (!) & rheumatism -
 With very kind regards to Mrs Gallton
 & other known members of your family

I! What will you have those of the visitors will! the names are!

I have very sincerely, & with a view to the welfare of the cause,



Cape Town -

Green Point. May 31st
1855

My dear Galton,

I received your letter only a month ago whilst on my way to this place, and though I am much too early for the mail I have thought it best to begin my answer at once. Like yourself I shall be delighted to foster a correspondence between us, but you must not think hardly of me if now & then I should prove a little remiss. Troubles have come upon me rather overwhelming - in short I am utterly crippled in means & body. I was doing an excellent business when suddenly I had to encounter war, epidemics amongst my cattle and horses, bad seasons of the elephant hunters, insolvencies, deaths of customers, and many other

F. 44v

equally distressing causes. I do
set ^{down} my losses during the last two
years from such causes at say
Ten thousand pounds & I am
probably below the mark!

As regards my bodily health I
cannot complain, but my leg is
making anything but satisfactory
progress. I have only been a few
days in town & the Doctors have
not yet favoured me with their
ultimatum, but so far as I understand
if they had their own way, they
would cut ~~it~~ off my leg. However
I hope not. It is about 4 inches
shorter than the sound limb,
and we have extracted upwards
of Sixty (60) splinters of pieces of
bone. But enough of this. I hope
not to trouble you again with
this too painful subject.

I am very glad to find that
the Geographical Society is in
such a flourishing state. I am

likewise delighted to hear that Mr Bates is their Secretary. I know him well from his works which I possess and which I read more than 18 months ago. I was particularly pleased with the simplicity of the style of the narrative. At the same time I saw he was well up in his subject. As a fellow traveller & naturalist I presume I may venture to beg you to convey to him my sincere Congratulation upon his appointment & my respects.

Your remark on Baume's Book is very just and you might even have gone a little farther. He writes very well but makes horrid blunders; his materials moreover are too trifling. He has left this for England and you will of course have an opportunity of seeing him before this reaches you. He is apparently very modest

but awfully ambitious. I never met
 a man who would do so much for
~~with~~ a little buttering. You cannot
 flatter or butter too much. I was able
 to put a feather in his cap the other
 day, for the King of Sweden was
 graciously pleased to accept one
 of his pictures of the Falls that
 I sent him.

I have distributed a few sheets of
 your Ethnological queries amongst
 friends & hope they will be able to
 furnish you with some information
 in the course of time. I have also
 told some friends & acquaintances
 of Professor Huxley's wants. Give
 the learned Professor my best
 respects still him I hope to be
 successful in procuring a
 Damara. Skull or two. I believe
 I have now some by me but
 should be afraid to produce
 them as authentic specimens they
 having been mixed with other kind



of native Skells.

I am scarcely prepared to give you the information required about the wild Guinea fowl. But I do know of at least half a dozen instances where the bird has been bred in Captivity but in all these cases it has been accomplished by getting the eggs & then setting them under a tame hen. I also know of a few instances where the young chick has been captured & successfully reared. But I have no authenticated proof of such bird having produced young.

I cannot call to mind how I got to know about Setheki having kept pet-wild animals but I am certain I have some authority for my saying. The Caffers I believe keep pet fowls but it is just possible that they have

UNIVERSITY OF TORONTO
GALTON PAPERS

acquired this habit from coming in contact with civilized people.

Your account of the capture of the African Elephant is very curious & interesting and I certainly never heard anything of that kind.

"Have you observed any difference in the moral character of gregarious & of solitary animals?" you ask. Yes, I think I have, still it is a subject for consideration. You have of course heard of the "rogue" Elephant and we have many other kind of rogues such as Rhinoceros, Buffalo, Lions, &c. &c. Society I fancy has very much the same effects upon brutes as it has on bipeds; it makes them gentler, less shy, less morose less bloodthirsty and so forth. In short the brute who lives either singly or in pairs is either of a wilder or more cruel disposition than those who herd together. The wild dog is perhaps an exception

W. G. & Co. Stationery
PAPER

to this there may be other. As a
rule a solitary lion, or Tiger or
panther, or Hyena, is more to be
dreaded than a company of either.
— at least this is my experience.

Many thanks for your Cart de
visite. Would it be asking too
much if I were to ask you for
your mother—also those of your
brothers to whom I am known?

If I have read your letter
aright you would be glad to
send ^{me} if it could be done without
any inconvenience. Well I think
you can. It is this. I have
probably done with Demaraland
for ever, and if ever I should
be restored to health I would
endeavour to select an entirely
new field for my future labours
— somewhere north of the equator.
Could you manage to obtain
for me from the Portuguese
Government at Lisbon permission

to travel in any of their African
Settlements, as also to erect a
factory for trade south of
Benguela - (that is if I found
such a course desirable).

I like your pamphlet on the
domestication of animals very much.
You have completely proved your theory,
I think. The origin of most domestication
I conceive to have been almost accidental
- there certainly was no great amount
of civilization required on the part of man.
It is just this if your bird or animal takes
kindly to you the thing is accomplished.
I remember an interesting instance of this
in my own experience. A certain person
who wished to show some proof of his
gratitude ~~to~~ for some slight service done
him brought me a young Quiver (you
know the antelope, I think?). The
fawn took a fancy to me almost
immediately & we became firm friends.
It had the run of the house and knew
meal times as well as ourselves. It would
station itself at my elbow at such times
petioning for crumbs - it was very
partial to bread. It would sometimes

remind me of its presence by putting both feet on my knees or even on the table precisely as we see dogs do. It grew & gambled amazingly for a time but at last fell grievously sick. It slept at one end of the house & myself at the other - but the doors intervening were usually left open on account of the heat. One night I was suddenly awoken by a pitious whining - at first I was unable to think of what caused the noise but all at once it struck me that it must be faint - and I exclaimed aloud - "poor little thing I am afraid you have come to die!" The next instant I felt its little head laid against my own. In five minutes ^{more} the poor brute was a corpse. It had to pass through 3 rooms before coming to my own.

Bye the bye, in all probability Baines will have gone home with a view of obtaining an appointment to some exploring expedition. He is in many respects admirably suited to form one of such a party, but there are two kinds of posts for

which he is unsuited - viz. either
 the Commesariat or at the head
 of an expedition. I would especially
 guard against his becoming anything
 of the latter. No men would obey him.
 I have thought it my duty to
 mention this my own experience
 of the man. I can have no possible
 wish to injure him as all my conduct
 towards him has been uniformly kind
 & courteous. Indeed I wish him success
 from the very bottom of my heart.

Sincerely hoping that you are
 enjoying health, with very kind regards
 to Mrs Galton, your mother and other
 near members of your family, and
 every kind wish for your happiness

Believe me, to remain
 ever sincerely yours

Chas J. Andersson



Alparting 250
 28
 224
 129
 Mad 2.50
 Breakfast 3.-
 Dinner 2
 Tea 2
25.50

Get up 7 Youcker
 water 7 1/2

4 glasses 3 oz
 1/2 hour between each glass

Coffee not yet 1/2 hour
 after last glass viz at 9:30
 take strong food tablet
 at dinner 4 1/2 - 1 a/c food
 3 hours after take

Bath 1. 25.26 1/2 hour
 2 glasses of water with 1/2 glass
 between bath & dinner - take
 2 glasses - any hour - take
 Dinner 4 1/2

Establishment of Communal
 Take good water fruit
 and some wine

And 7-8 water,
 8 1/2 bath 4-9
 breakfast

2 glasses before dinner
 1/2 hour before dinner

Tuesday at 11.
 of Legacy with call.



167

Cape Town - Green Point

Decr 8th 1865

P50r

My Dear Galton, -



I am much obliged to you for your exertions on my behalf with our friend Duprat, who, as you truly say, "is one of the kindest hearted & most gentlemanly minded men." Mr Duprat's & your kind letter arrived here by the last mail, & I lost no time in calling upon him. I regret to say however, that little or nothing is to be done in that quarter, for however anxious the Chevalier may be to benefit himself & do a kind turn for a friend, I shrewdly suspect he has not the means, & if he has is not inclined to risk them in "prospects" & he may be right. As for his mines they must exist in imagination, for all I can gather from him is that he has "been told by the Portuguese that there is abundance of Copper in their settlements" & so there may be in the moon for ought we know to the contrary. Mr Duprat, as you are

perhaps aware, has got a large grant of land from his Government at St-Fish Bay. But beyond the name, he might as well be possessed of land on Terra del Fuego, for the whole neighbourhood round that Port ^(S. F. B.) is one tremendous howling wilderness. And you will hardly believe it - but he was not aware of the character of his grant, until I pointed it ^{out} to him! And what do you think our friend said when I explained matters to him - why, he coolly remarked "oh, I can exchange for some other locality", but, I rejoined, "suppose the country is already occupied" "that's of no consequence" he immediately remarked! "Oh, Chevalier, if that's really the case, have a bit out of cash Colonnardo" & so ended our first interview. Since then Mr Desprat has got a notion that St-Fish Bay might be turned to account - as a Fishing Station, & perhaps it may, though I never yet knew an establishment of that kind prove remunerative; it is only when worked in conjunction with the Guano islands that any profit is at all realised. At all events a Fishery would not suit me

But, my dear Galton, when I asked you to speak a word in my favour with the Portuguese Government, it was ~~merely~~ mentioned as the nearest contingency a visit to their settlements for I am utterly destitute of means besides being a complete cripple, probably for life.

I am at present busy writing a Fauna of the birds of S. W. Africa, but am very doubtful whether the work will ever see daylight. My Publishers have not absolutely refused the publication but speak of the enormous expense of such a production. However, I do not mean to give it up very lightly as I have now nearly completed four fifths of the Book & have gone to great expense about illustrations. My friend Baines alone upwards of £100. & I cannot afford to throw all this money & labour away. Besides the work is not a compilation but the notes are carefully & laboriously made, in a great measure at least from personal observation. I wish I could get you to interest yourself in the undertaking, as your great interest in the literary world would go far to ensure success. However, don't think that I am about to tax your friendship to any great extent, but I do hope & think that you will lend me your countenance in a quiet way. I honestly

believe that my contemplated work will be useful, & I am striving hard at insuring accuracy & facts.

I will not forget your wants as regards your future work should anything come to my knowledge that is the least likely to bear upon the subject. I have asked several friends to co-operate with me, but as you reminded me lately, "out of sight - out of mind" is likely to be verified.

I did know Wesley Richards & am sorry to hear of his death.

I am very much interested in Baker's successful journey. I may presume that he is returned by this time, & that we shall soon have a full account of his labours. I possess all his works on feylon &c.

You will be sorry to hear that my leg continues to give me much trouble & anxiety. The opinion of the faculty here are divided - some are for amputation, others for holding out a little longer. In the mean time I am wearing away. God help me, poor fellow!

I sincerely hope that this will find you & Mrs Hallon quite well. With united kind regards from myself & wife & best wishes for your health & prosperity
Believe me
very sincerely yours
Chas. S. Anderson

78

F52

Charles J. Anderson

letters on his return
to a visit to England 1860
1852-66



Anthropological Institute,
3, Hanover Square, W.

f.10
December 13th 1887.

Sir,

I am requested by the Council to forward to you the accompanying Resolution which was unanimously passed at their meeting this afternoon, Mr. Hyde Clarke, Vice-President, in the Chair:

Francis Galton, Esq., M.A., F.R.S.,
President Anthropol. Inst.

Resolved

" That Mr. Galton be requested to complete his Term as President of the Anthropological Institute by retaining the Chair for another year; more especially as at this period, in the opinion of the Council, he has conferred great benefit on the science of anthropology and on the Institute by

his course of lectures at
the South Kensington Museum
which have attracted great interest
not only among men of science
but by the public generally."

I am, Sir,

Your obedient servant,

F. W. Rudler,
Secretary.





f.3v

ANTHROPOLOGICAL INSTITUTE,
3, HANOVER SQUARE. W.

10.1.02.

Dear W. Galton,

Very many thanks for your card. I have recommended the enquirer to make use of the schedule of measurements contained in Notes & Queries.

We had hoped to print your Huxley lecture in the Journal which is due now, and will be ready in a week, or two from now: but when on the point of sending to press, we found it printed, diagrams & all, in Nature; and now we find it printed also in Appleton's Popular Science Monthly. As the Institute does not feel itself justified in reprinting articles, from other publications, in its Journal, and is in fact not always able to print in full even what is offered for it for sole publication, we were obliged to resign the hope of publishing your lecture, to our great disappointment. The

ANTHROPOLOGICAL INSTITUTE
2, MANOR SQUARE, W.

same thing happened with Lord Avebury's address last year: and I am afraid that W. Thomas, who was ~~then~~ our Art. Sec. in October, & took charge of the Huxley lecture correspondence, did not make it clear that we hoped you would allow your paper to be regarded as coming under the Institute's rule in regard to papers read before the Institute. I am very sorry that things have fallen as they have; and as I say, we were all much disappointed that we had not the privilege of including your lecture in the Journal.

Yours very sincerely,
John. L. Myers.

D. APPLETON & COMPANY,
PUBLISHERS,
436 FIFTH AVENUE,
NEW YORK.



f.1

February 11, 1904.

Francis Galton, Esq.,
42 Rutland Gate,
London, W.2.

Dear Sir :

We have the pleasure of enclosing a statement of your royalty account for the period mentioned therein, and our check for the amount due, which we trust you will find satisfactory.

With the best wishes, we beg to remain,

Faithfully yours,

B. APPLETON & COMPANY,

W. Appleton
President.

ROYAL SOCIETY OF LONDON,
INTERNATIONAL CATALOGUE COMMITTEE.



55. GRANVILLE PARK,

LEWISHAM. LONDON. S. E.

Feb. 23. 1897.

Dear Mr Galton,

I enclose an Agenda
Paper for Thursday
Committee - if you have
any suggestions to offer,
I shall be glad to
discuss them. Dr

Mill has not yet
been able to complete

his review of Gen. Huxley's
geographical localities
scheme.

Your new draft of
Anthropology looks
very promising - in
such a subject, I
imagine, it will
not be so desirable
as in some others
to go into detail in

subdividing - I have
no doubt the Committee
will order it to be
printed & circulated
as you desire.

I wish I could be sure
whether a purely empiri-
cal system of regis-
tration such as Sharpe
& Forsyth advocate
is or is not sufficient for
our purposes in the future.

Yours very truly

J. E. Armstrong



ROYAL SOCIETY OF LONDON,

INTERNATIONAL CATALOGUE COMMITTEE.

Feb. 25th -- 2.30 p.m.

To arrange for the appointment of a paid secretary to the Committee.

To define the exact nature of the work to be undertaken in preparing the materials for the Catalogue 1) by authors; 2) by Scientific Societies &c. acting as editors; 3) by the Central Office.

To consider the character of slip to be issued from the Central Office to subscribers.

To consider the extent to which primary divisions shall be constituted - whether, for example, crystallography and meteorology shall rank with or apart from physics; petrology (including mineralogy) with or apart from geology; entomology with or apart from zoology.

To consider how far the schemes of classification already provided meet requirements.

To discuss the method of registration to be adopted

- a with reference to main subjects.
- b " " " primary subdivisions
- c " " " minor subdivisions
- d " " " the use of common symbols (Geographical indices, &c.).

To fix the date of the next meeting.

R. Soc Monday Jan 11 4 pm

55. GRANVILLE PARK,

LEWISHAM, LONDON, S. E.

January 6. 1897

ROYAL SOCIETY OF LONDON,
INTERNATIONAL CATALOGUE COMMITTEE.



Dear Mr Galton,

We are anxious
to have your assistance in
drafting the scheme
of classification for
indexing Geography.
Will you, if possible
meet General Shackley

Admiral Wharton, Dr
Wills & myself at
the Royal Society
at 4 p.m. on Monday
next, Jan. 11th?

Should you in any way
favour the suggestion
made in the enclosed
memo. to have a
set of Geographical
symbols corresponding



f.5c

to the chemical
symbols & I'm prejudiced
from them, let us
say, by writing or
printing them within
a circle? It is
necessary in so many
branches of science
to indicate geographical
localities, that the
use of such symbols

might be a very
wide one.

Yours very truly,

Henry E. Armstrong.



Prof Armstrong

F.6

CITY & GUILDS OF LONDON INSTITUTE FOR THE ADVANCEMENT OF
TECHNICAL EDUCATION. *John Watney, Honorary Secretary.*



CENTRAL TECHNICAL COLLEGE,

Exhibition Road,

London, Feb. 13th, 1896
S.W.

Dear Mr Galton,

Your scheme
seems to be full
of promise, but it
will be necessary
to reduce the number
of primary divisions to
10 as this is done in

all other subjects.

Yours truly,

W. S. Armstrong

I shall hope to see
you at the Royal
Society to-day.





THE ROYAL SOCIETY,

BURLINGTON HOUSE, LONDON, W.

25. 3. 96.

ROYAL SOCIETY OF LONDON,

INTERNATIONAL CATALOGUE COMMITTEE.

Dear Mr Galton,

The enclosed is intended as an introduction to our schemes - it is set up in wrong form, but that can easily be

altered. I shall
be obliged if you
will make any
alterations, or
suggest any other
points to which it
is desirable to call
attention.

Yours truly,

A. S. Cunningham





Under this arrangement each symbol printed on a slip will consist of two letters and two digits, such as A a 97. An unskilled person can sort the slips, first according to capital letter, then according to small letter, then according to digits. If an Institution have but a small number of works or slips, it will arrange according to capital letter only. In short, three degrees of complexity of arrangement are optional.

Specialists may easily, if they wish, carry out further analyses for arrangement of particular divisions of a primary branch of a science by adopting a second set of numbers, which (it is suggested) could be used so as to make the symbol of a subdivision like

A a $\frac{97}{55}$.

But in the first instance it is recommended that such subdivision be not adopted for the catalogue; the matter is mentioned solely in order to indicate an easy development of the method of registration.

SLIP CATALOGUE.

5. All titles shall be issued, each one separately, and each shall commence with author's name, followed by the actual title and sufficiently detailed reference. The slip so formed shall bear the symbols to indicate (1) the sciences, (2) the branches thereof, (3) the divisions of the branch. As the analysis symbolised will not be carried farther than (3), if the paper be limited to details smaller in analytical value than those scheduled under (3), this degree of speciality will not be shown by the symbol. Example: If a paper be published on the habits of the cuckoo, cuckoo might be symbolised by the sign for birds, and the total signature of the slip would then indicate, zoology, birds, ethology.

Specimen slip.

F b 27 **Smith, Thomas.** On the Habits of the Surviving
 F b 21 Apes of Central Africa. Pr. Sci. Soc. Cairo, xxv
 D h 04 (1950), 27-34.

[Year] 1950.

It is to be understood that this slip is entirely imaginary. F = Zoology; b = Mammalia; 27 = Primates (*i.e.*, Apes); 21 = Ethology; D = Geography; h = branch of Geography; 04 = Central Africa.

6. All slips must be of one size. The size should be sufficiently large to allow of registration marks being added subsequently, as

well as to permit a clear distinction to be made between the title itself, and the subsidiary adjuncts to it. These will be, (1) such variety of symbol-marks as the Committee may decide, (2) the year to which the slip belongs; this last mark is necessary in order that an accumulation of slips may be chronologically treated, and its digits should be quite separate from the symbol, and should also be distinguished by a different type.

[If it be thought desirable that an attempt be made to construct a Slip Catalogue that shall serve as a subject index (as distinguished from a slip catalogue of titles arranged according to subject), it will be necessary to issue concomitantly with the title-slip a certain amount of subject analysis limited as provided in Chapter 5; this, in no case, should extend beyond [four] entries for each science mentioned in a title.

Each of these subject slips should be a separate object, and each should be appropriately symbolised. If, however, each title-slip be permitted to bear manifold symbols, an arrangement could be made by which an increase in the number of title slips printed would serve the purpose of a Slip Catalogue Subject Index.]

- 7. Each science shall have its slips printed on paper of a distinctive colour.
- 8. If a title refer to more than one science it shall be issued in duplicate or triplicate, one slip being signed for one science, a second slip for another science and so on. But when a work refers to science in general (as distinct from a combination of two or more sciences), then only one slip shall be issued which shall bear a synthetic mark [such as X] instead of the ordinary symbol system.

VOLUME CATALOGUE.

- 9. The form of the Catalogue for permanent reference shall be volumes issued annually of the following kind, viz.: (a) An Author's Index Volume, being a complete list of all titles for the year, alphabetically arranged under author's names, there being appended to each title the name and symbol of the science to which it relates; (b) a Subject Index Volume, or Volumes, arranged according to the several sciences, their branches, and the divisions of their branches as adopted in the Slip Catalogue. The headings of each division shall bear the actual name of the division as well as the symbol thereof used in the Slip Catalogue.

In this Subject Index the title of the paper referred to will not be repeated, the author's name and a volume and page reference shall suffice.

10. It will be necessary to prepare—

- (1) A list of Societies, Academies, &c., with the abbreviated forms of reference to their publications as used in the Catalogue;
- (2) An explanation of the system used, occupying not more than two pages, and printed in such languages as shall be decided on;
- (3) The analysis of each science under branches and divisions.

It would probably be convenient for libraries that these should be included in a single volume, and for individuals, that each of them should be obtainable separately.

D. S.
A. R. F.

November 18, 1896.

ROYAL SOCIETY.

INTERNATIONAL CATALOGUE COMMITTEE.

The resolutions arrived at by the recent International Conference contemplate the compilation and publication of a complete catalogue of scientific literature arranged according both to subject matter and to author's names; and it was decided that in preparing such a catalogue, in the first instance, regard shall be had to the requirements of scientific investigators, to the end that these may find out most easily what has been published concerning any particular subject of inquiry.

The catalogue is to comprise all published original contributions, whether appearing in periodicals or in the publications of societies or as independent pamphlets, memoirs, or books.

The catalogue is to be issued in two forms—(a) in the form of slips or cards, which are to be prepared and issued to subscribers as promptly as possible; and (b) in book form, in parts corresponding to the several branches of science.

The Committee which has been appointed by the Council of the Royal Society to carry into effect the resolutions arrived at by the Conference (Acta, Res. 26), proposes, in the first instance, to take into consideration and determine—

- (a) The manner in which, and the extent to which, the subject matter of each branch of science shall be classified.
- (b) The method of registration to be adopted in each branch of science.

The former needs no explanation; it rests with the representatives of each subject to suggest the system of classification which appears to be most useful and practicable. I would venture to point out, however, that it will be impossible to please everyone, and that the object must be, with as little delay as possible, to produce schemes which can be submitted to test and proved to be useful in practice.

As there appears to be considerable misunderstanding regarding registration, I may point out that this is, in a measure, independent of classification, although intimately connected with it; and that the

main purpose in view is to provide means of attaching to each slip or card a registration mark which will at once serve to indicate the character of the entry, and at the same time make it easy even for those who are not experts to place the slips as delivered in their appropriate places.

Mr. D. Sharp and Professor Forsyth have suggested a scheme which, with certain other suggestions made by them, is printed as an appendix to this memorandum.

Those with whom I have discussed this scheme mostly regard it as hardly less inelastic than that afforded by the Dewey decimal system on its registration side—against which a very strong feeling undoubtedly prevailed at the Conference, although no decision was arrived at which precludes it being again taken into consideration and modified.

In the first place it is remarked—why label the different sciences A, B, &c. ; why not use the familiar first letter of the names of each, with a second where necessary? If science appropriate nearly all the alphabet, other subjects must adopt a different system. There would be no difficulty in using **M** for mathematics rather than **A**, and **Me** for meteorology, **Mt** for metallurgy, **G1** for geology, **Gg** for geography.

If this were done, subjects such as crystallography and meteorology would rank independently, and not—as in the Dewey system—as branches of physics.

Cases will arise, however, in which it will have to be decided whether it be desirable to constitute the subject a distinct branch. Thus, in the case of mineralogy, a large part might be ranged under geology, another under chemistry, and a third under crystallography. I may point out that if a mineralogical index, say λ , were agreed to, it would be easy, by affixing this index, to indicate that the matter in a paper was of interest to one or other of the sciences in question: thus, **K. λ** or **K $^\lambda$** would serve to show that something about a mineral which is of interest to the crystallographer was described.

Another case is that of entomology—is this to come separately or under zoology? Here a separate treatment appears to be preferable, but if such be adopted, it may be necessary to deal with the subject somewhat more broadly than would be the case if only the requirements of the entomologist were considered, in order to meet those of zoologists.

Again, the Sharp-Forsyth scheme provides that small letters shall be used in dividing each science into branches. This appears to be an over-provision in many cases. Thus, it is probably unnecessary to divide chemistry into more than about ten main branches at most, and this would be equally true of, say physics and astronomy, I imagine.

Perhaps the principle already suggested as applicable to mineralogy might be a suitable one to apply in such cases. In chemistry, for example, it is easy to attach the symbol of the element as an index. **Ch^c**, for example—the chemistry of carbon—would apply to the whole of organic chemistry; and by adopting this plan, instead of restricting the whole of inorganic chemistry—which includes all elements other than carbon—to one letter, some seventy symbols would be available.

To go a step further, it would be easy to indicate whether a paper had reference to mineralogy, crystallography, qualitative analysis, quantitative analysis, thermo- or electro-chemistry, let us say, by assigning a special index to each of these branches, *e.g.*, λ (lithos), κ (krystallos), λu (lyo), μ (metron), θ (thermos), ϵ (elektron). Thus, **Ch^{ci}.u** would mean something to do with the quantitative analysis of a chloride; **Ch^o. θ** something to do with the thermochemistry of oxygen. As we are fast adopting a rational system of nomenclature, in which the terminal syllable has a definite meaning, it will be easy to carry such a system a stage further: thus, a paper on the quantitative estimation of the trihydric alcohol, glycerol, would be marked **Ch^c.3ol. μ** . To distinguish cases of mere quantitative analysis from those in which constants, *e.g.*, atomic weights, were determined, the symbol μ^c might be used in connexion with the latter.

I can imagine that it may not be impossible to apply a similar method to many other sciences. Thus, in entomology, if *l* stands for lepidoptera, *c* coleoptera, &c., and if *h* stand for life history, or *d* for distribution, then **En^c.h** would mean something about the life history of a coleopterous insect; a number might be added to indicate the family.

In geography, if a set of symbols applicable to the different countries were agreed to, it would be easy to use these, not only in geography, but also in other sciences, such as zoology, botany, geology, and astronomy.

No doubt the requirements are different in different subjects, and probably will be advantageously met in different ways; but after spending considerable time lately in applying the principle I have above suggested to my own subject, I feel satisfied that it should be possible to make use of it, and that it would be a very elastic one.

With reference to Art. 9 of the Sharp-Forsyth scheme, I may at once point out that some to whom I have shown it object very strongly to the suggestion that the title of a paper shall not reappear in the subject index.

With reference to Art. 10, I think it should be carefully considered also whether the plan of registering all scientific publications and attaching to each its appropriate geographical index and a number may not be a desirable one to adopt. If this were done, the regis-

tered index could be used in place of the contracted name, a course which would have the effect of greatly economising space.

HENRY E. ARMSTRONG,
Chairman.

OUTLINES OF SCHEME SUGGESTED BY MR. D. SHARP AND PROFESSOR FORSYTH.

GENERAL.

The two kinds of catalogue it is proposed to issue shall be connected by using for both one system of arrangement—symbols, which shall be such that the slips themselves, or the books and papers they refer to, may be arranged by means of the symbols, without the aid of language or of any knowledge of the subject itself.

1. The sciences treated as distinct are

[not exceeding 26].

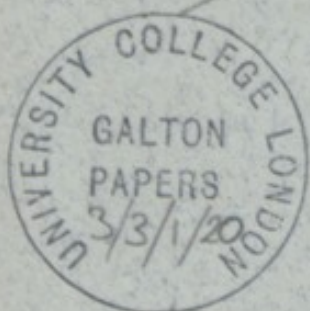
2. Each science is divided into a number, not exceeding 26, of branches.
3. Each branch of a science may be divided into a number of divisions [not exceeding 100].
4. The symbols shall be as follows, viz.:—Each science shall have a distinctive capital letter [A to]; each branch in a science shall have a distinctive small letter [a to]; each division of a branch shall be indicated by a number of two digits [00 to 99].

In order to carry out this scheme each science will decide on its primary branches: then for each select 100, or less, divisions (*i.e.*, subjects) arrange the subjects of each branch in a linear, but, as far as possible natural, sequence, and then number them. It will be advisable to leave some numbers unoccupied, in suitable intervals, so as to allow for future contingencies. It should be constantly remembered that we are not attempting to make a logical or natural classification of science, but merely a catalogue for arranging and indexing its literature in a convenient manner. *Convenience when the system is in operation is the primary consideration.*



answered

Arnold Forster F.I



9. EVELYN GARDENS.

S. W.

8 10 91

Dear Mr Galton

May I ask whether
you can refer me to
any book giving statistics
of height & chest-measure-
ment of sample
ships Companies in the
Royal Navy; selected
Regiments of Volunteers;
Miners; Bicycling Clubs,

or any other classes of
the Community.

I am anxious to see whether
the figures given from
infants, experiments are
fairly representative of the
bulk of the population.

All present they seem to me
very low.

I am, yours truly

A. O. Arnold Forster

J. Galton Esq.

Arnot

Raymond H. Arnot,
Attorney and Counsellor at Law,
Rochester, New York.



March 1, 1902.

My dear Mr. Galton:-

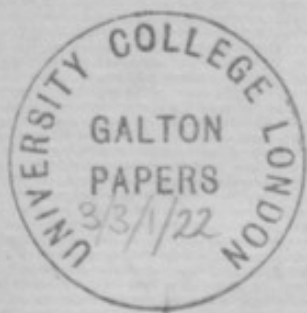
Will you kindly tell me where I can get your latest or best photograph in cabinet size or a little larger and an accurate account of your noble career for the ROCHESTER MODERN HISTORY CLUB?

Assuring you of our sincere respect for your noble and useful life,
I am, with all good wishes,

Very Cordially yours,

Raymond H. Arnot

Mr. Francis Galton.



R. F. F.

Mr Atkinson
Flr

Clare College Lodge,
Cambridge.

Oct 22. 1885.

My dear Sir,

Recent illness has prevented
my earlier reading your Aberdeen
Address & thanking you for it.

I have not sufficient knowledge
to understand it all, but what I do
has much interested me. I should
like to say that all the measurements
of stature belonging to my own gene-
-ration and those of the Williamson
(my maternal) side were taken
"scrupulously" in stocking feet, &
against a white painted board
ruled in inches. I cannot resist

mentoring to you an instance of heredity in feature connected with myself. We have in our College Combination room a portrait of our Foundress Elizabeth de Knyph, Countess of Clare, grand-daughter of Edw 1. by his daughter Joan of Acre. I am considered to bear a considerable likeness to this portrait.

Ever since I was married the Fellows have said "the best portrait of Mrs A. is in the Combination room". A servant who came to us 20 years ago "supposed it was Mistress' sister". Only last month on my sick-nurse being "shown the College" & entering the Combination room, she instantly



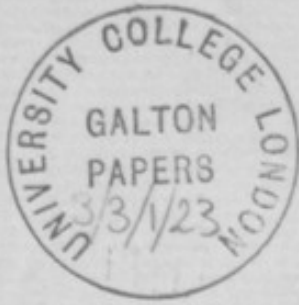
remarked "Why that is - could it be? - Mrs Atkinson!"

Only this Spring a distant Cousin sent me his pedigree from Edw. 1. & through our Foundress. His pedigree is also mine, as we spring from the same Edmund Williamson, my great Grandfather, who through Wyvilles, Danbys, and Nevilles traces up to Edw. 1. Thus a reason has appeared for the likeness which had hitherto been only curious.

Forgive me if I have wearied you with my story,

I believe me, my dear Sir
truly yours

Frances H. Atkinson.



28, ST OSWALD'S ROAD,
WEST BROMPTON, S.W.

29.2.28

Dear Sir

With reference to your
question at the Anthropological
last night. My work in Art
Schools, and principally adjudicating
on Art Examination Exercises
where everything is prescribed,
gives little opportunity to students
to develop specialities. In the
Art Schools the most approved
examples are always before pupils,
and the wish to obtain a prize at
the examinations. makes candidates

20 St. Charles Street
West Brighton, N.Y.

* The appearance of course always
considered.

f. 2

anxious to comply with the regulations,
I never met people utterly ignorant
of art, in which such an experiment
might be tried. But I may mention
that I have often seen verified the old
Law: "like produces like." It holds
good in art, people in the same state
of culture, reproduce the same phase
of art. The early dawn, will be the
straight line ornament. When about
half educated. I have seen young
men swear by strap and interlaced
work. like the Celtic ornamentation
Afterwards to be thrown aside by them
in favour of a naturalistic treatment
then Symbolical. when the powers
of representation are better developed.
Last stage of course, the conveying
thought by the representation of
things. as you very well know.

I remain dear Sir
Yours faithfully.

George M. Atkinson.

Francis Galton Esq M.A. F.R.S.
President Anthrop Institute
& &



Love flat

Australasian Association for the Advancement of Science.

University,

~~ROYAL SOCIETY'S BUILDING~~ MELBOURNE.



April 14th 1894

Dear Sir:

A Committee of the above-named Association has been formed for the purpose of considering the best means of promoting psychophysical and psychometric investigations in the Australasian colonies — where, up to the present, nothing of the kind has been done. This Committee is of opinion that a statistical enquiry into the development of psychical faculty among the children of these colonies is at present within the

compass of possibility; we have a very elaborate system of state-aided education ranging from the primary schools to the Universities; and it is important to note that attendance in the primary schools is not confined as is practically the case in Great Britain to any one class of children, but the children of the professional & business classes work there in many cases alongside those of the artisan class.

Now we have already secured the support of the officers of the various Education Depts., the permanent head of the South Australian Dept. being

one of the ~~most~~ active members of our Committee; we hope therefore to be able to carry out the enquiry for the children of each colony. The results would, at least, be useful for comparison with those obtained in other countries; and the effects due to climatic influence - if there be any - might be expected to disclose themselves during such a comparison.

We propose to draw up a list of questions the answers to which are to be obtained by the school authorities, for each child, and to make such measurements as may be deemed advisable. Before issuing our list of

f.16

Australasian Association for the Advancement of Science.

ROYAL SOCIETY'S HALL, MELBOURNE.

18

collection might be abridged: but
suggestions of this point would be
very helpful.

I am Dear Sir
yours faithfully
E. F. Love

Hon. Sec. Psychophysics & Psychometric
Committee

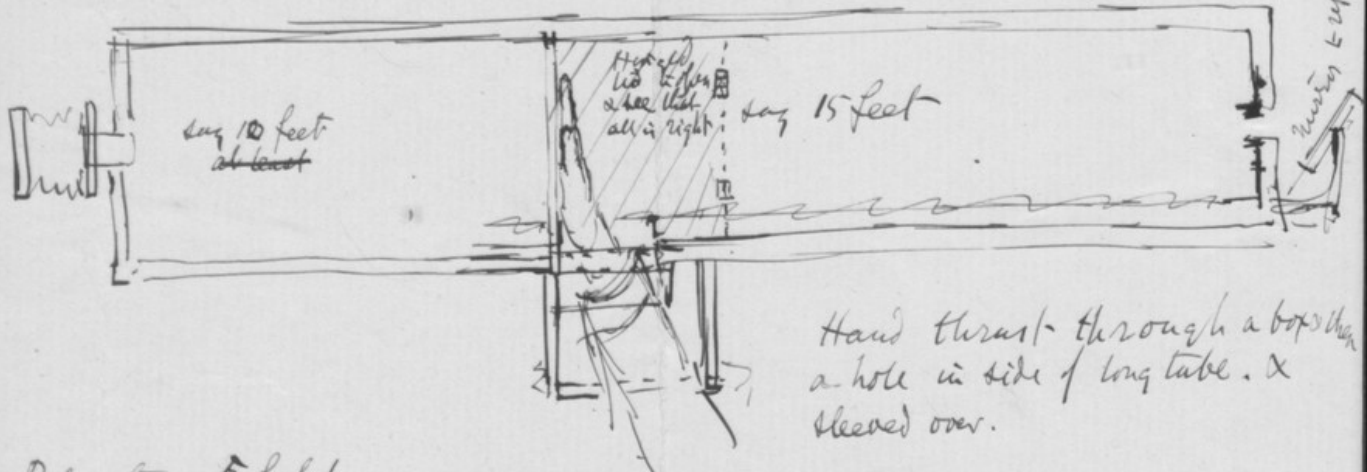
Francis Galton Esq. F.R.S.



F.1c

May 26/94

total length say 25 feet



Hand thrust through a box then a hole in side of long tube. & sleeved over.

Reductera G fold
 3 inch focus
 4 inch

of questions we decided to ask the advice of certain gentlemen in England and America whom we knew to be experts in these matters; I have therefore the honor to invite your sympathy & help in the way of suggesting (a) subjects of enquiry (b) methods (c) apparatus; in the latter case name of maker & approximate cost would be valuable details.

Professor Beaunis "Questionnaire" "abrégé", as published by the International Congress of Psychology, is well known to us; but the title is surely a misnomer; the whole collection is too long & complex for such a purpose, at any rate for use among children. In default of anything better, this



Prof. Ayrton

f.1

41, NORFOLK SQUARE,
HYDE PARK, W.



February 17th 1907

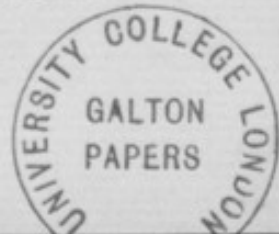
Dear Dr. Galton

Could you, without giving yourself much trouble, let me know where I could obtain one of your Whistles for testing the limit of audibility? I desire to use it for two purposes - one to test my younger daughter's hearing who thinks that she can distinguish between the cries of the male and female bat, whereas many persons cannot hear the bats' cry at all; the second is that it occurs to me that the "thought-reading" of the Zancig's at the Alhambra (which has been bewitching London for the last two months and which has made even scientific people, & at any rate people whom the world regards as scientific, think is a manifestation of genuine telepathy), but which I have assured my-

self is accomplished by the use of certain ingenious codes which I have detected, may number amongst them the sending of signals by the use of high frequency sound waves above the limit of audibility of ordinary persons but which, however, can be heard by Mrs. Jan-
-cij who is the recipient of the thoughts in the so called telepathic performance -

Could you also allow your Secretary to kindly direct my attention to any publication in which you have recorded the results of experiments on the limits of audibility in different persons?

The last time we met was in 1904 returning from the Greek play at Bradfield. Since then I have had a serious break down in health through prolonged overwork and have had to rest for many months. Hence my apparent inattention to your enquiry about the characteristics of ancestors. Your book is however I see now published. I have before me as I write the china box



which contained "Cold Cream" and which you were so good as to send me in 1898 as showing the persistence of smell after repeated washings of the pot. I have had to turn up my old work on smell which I shortly described in a Presidential Address to Section A of the British Association in that year since a certain Herr Karl ^{recently} has started the theory on the continent that the smell of metals is produced by ^{an} emanation like the emanation from radium (which discharges electrified bodies) and that the smell coming from a metal has nothing to do with the state of its surface. Whereas I showed in 1898 that it had everything to do with the chemical state of its surface and that the smell could be entirely destroyed by cleaning the metal's surface sufficiently thoroughly.

During the past 9 years I have been longing to take up again this investigation on smell,

but electrical engineering problems have been absorbing me professorially and professionally. Now the remnant of my old boyish love of conjuring performances leads me to take up the study of another of our senses viz the hearing of very high notes. I presume that this power cannot be cultivated so that a person who had the power nat-

urally to (Believe me Dear Dr. Feltton

hear high notes could be gradually taught to hear notes higher and higher

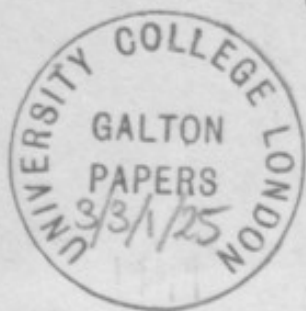
Sincerely Yours

W. L. Aynton

in the musical scale. Probably the peculiarity depends on some peculiarity in the air passages in the ear or the tightness with which the drum of the ear is naturally stretched or on the tightness of the bones in the ear and so could not be improved with practice or study.

Prof. Cuyam

f.5r



1907

41, NORFOLK SQUARE,
HYDE PARK, W.

London

Dear Dr. Galton

Feb 7 25th.

I am very much obliged to you for your most interesting letter regarding your whistle and its uses.

There is one point that I am not clear about ~~and~~ concerning the §3 of your letter

3. ^{You say:—} High notes occasionally give a curious
"dizzy feel in the head which is not a sense
of smell. I found that one of the lions
"was sensitive to this. It was curious to watch
"his annoyance, rubbing his ear anxiously with his
"paw".

How did you ascertain that what

the lion felt was a "curious dizzy feel" and
 that he did not hear the high notes itself

Dr Starbuck, the Prof. of Physiology at Univ. College
 London, writes to me: "It is imagined that the ten-
 -sor tympany contracts and puts the membrana
 -tympany on the stretch when high notes are sounded"

If so may the dizzy feeling that you refer to
 be the intimation to the tympani that a high note
 is being sounded, and that the tensor ought to be
 stretched voluntarily, or involuntarily, in order that
 the high note should be heard just as the
 annoyance caused by some object put close to the
 eye intimates, although the eye cannot see it, that

if the muscles of accommodation be caused to round the eye the object close to the eye will become visible because of ^a greater shortening of the focal length of the eye having been set up indirectly by the presence of the object close to the eye.

Prof Starling, however, admits that he does not know whether the supposed shortening of the "tensor tympani" is based on experiment or not. He mentions another theory that the destruction of the vascular fibres at the base of the cochlea of a dog produces deafness to high sounds, and at the upper end of the cochlea where the fibres are long to low sounds. But these experiments, he mentions, are not, however, accepted as fully establishing the conclusions.

drawn.

I am expecting several of your sketches to
arrive from, but they have not arrived yet

Believe me Sincerely Yours

W. L. Ayton

