

Dear Pa -

I'm O.K. I need \$25 soon
for board and room, and \$5
for 'running expenses'.

I do not think that we
should take Bertha with us
on our long tramp next
summer. It would be unfair
to all. It is all right, of course,
to take her out for a single
day's walk, but it would be
as hard on us to tie us
down to ten miles a day as
to hurry her up to thirty. ~~It~~
I think that the care of her would

be too great a responsibility for
us to enjoy our tramp. Besides,
supposing that we have Bertha
with us, and we get lost, as we
did on Boot Spur, how are we
ever going to get her down?

All of us, even Constance, can
take care of ourselves, but Bertha
will be a dray and a hindrance.

When she is two or three years
older, it will be a different
matter, but, as it is, both for
her sake and for our sake, I
think she should not go.

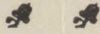
I want some one of my boy friends
along, - Fern or Hyllop.

Why don't you have me make
a combination ~~knapsack~~ and
sleeping bag, so that the

bag is doubled up in the
middle for a sack, and
the pack is carried between
the folds?

goodbye
Norbert

Oaklea-on-the-Discataqua
Eliot, York County, Maine
TELEPHONE CONNECTION



Dear Mother:—

I have arrived safely
and I find Oaklea is very pleasant
although Saturday it rained, the
weather has been very pleasant.

Professor and Mrs Putnam are
here now, and they seem to
like me. "Dad" does not overwork
himself here, but takes it easy.
On the whole, we have had a
very good time.

Wishing for your good health,

I am—

your loving son,

Robert Wiener.

Dear Bertha:

I have already written you a
journal this morning. As you
see, Robert is enjoying him-
self, and that is the main point.
This is all the work I have
been able to procure him
to write. Be sure you let
me know when I can find
you in Boston about noon.
With love to you and to all.
Lovingly
Geo.

July 31.

Dear Dad:

I'm very sorry I
forgot to wire you on
your birthday. However,
consider this as your
 $56\frac{1}{178}$ th birthday, and let
there be many more
with integral indices!

Your loving son,

Robert.

THIS SIDE OF CARD IS FOR ADDRESS



Professor Leo Wiener,
Dunbarton Road,
Concord, N. H.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
CAMBRIDGE, MASS.

April 22

DEPARTMENT OF MATHEMATICS

Lieber Stanschen!

Nur ein Geburtstagsgeschenk, um was
du willst zu kaufen.

Mit herzlichster Liebe
Norbert

Wie der P. macht

XXXXXXXXXXXXXXXXXXXXXXXXXXXX

This paper interests me very much, just because of the long time that I have devoted to working ^{in my own way} over the Kempe triadic "between", and the "opposite", or "obverse". I am very glad to get this ^{your} vindication of Kempe's generalizations, that is of their fundamental value. In general, Kempe's view of an "algebra", in his "Philos' Trans'n of Royal Society" paper, is in substance, that you first ^(for each algebra) define your basic relns in his way [see his "Theory of Math'l Form"] and then are in possession of an indefinite (in general infinite) set of algebras, all of which possess operations, transformations, etc, which, being equally modes of vocalizing (so to speak), or depicting, the same set of defining relns (eg's in case of the algebra of logic the relns of the $\bar{0}$ -pair and the $\bar{1}$ -triad) are simply and mutually equivalent for the algebra in question. So Kempe sketches a general theory of algebras on this basis. He indicated some of its relations to the theory of finite groups, as graphically depicted. See his paper on the Theory of Math'l Form.

I suppose that the Transactions of the Amer. ~~Math.~~ Math. Society would be the best place. Huntington & Mordey (Chicago), the best men for your purpose.

We left Fred on an Island and tried to drive the ducks toward him. In this way he shot one which we later learned was called a "dipper", very good for food but difficult to shoot. 2

In Monticello the mill is located near the shore of a small lake at the foot of Red Hill. My camp relative to the mill, is in about the same position as it was last ~~month~~ summer. As weather grew colder I banked it with leaves covered with dirt and sand and have since papered the outside with a cheap tar paper. Today I have finished papering the interior with a heavy red sheathing paper which surely ought to make the camp still warmer.

Once this fall the outside paper caught fire and it came near being the last of the camp. Luckily I saw it at the start and dashed on a pail of water which almost instantly checked the fire.

This time I have a very good cellar five feet long, four wide and deep. It has not frozen yet although I understand it was 16° below zero yesterday morning.

One Sunday I got restless and tried a little fishing on the lake by the mill. After being out about an

hour something almost pulled the pole from between my feet. The reel spun around and I stopped reeling. Gradually I reeled in Mr. Pickerel until I had him alongside the boat. I reached for him with my left hand. Just as I almost had my hand on him he gave one more plunge and broke away. He was some fish for he was strong enough to draw the boat. Soon after I hooked another which I finally landed. This fellow was between twenty five and six inches long. He estimated that he would weigh five pounds. His head alone was seven inches long. It took a quart bowl full of dressing to stuff him and he made me four meals of as much fish as I could comfortably eat.

We have just tried ice fishing. One day last week we caught nine pickerel five of which would average two pounds each and nine very good perch. Soon we hope to try fishing on Lake Minnesaukee which is less than two miles away. Then I suppose there will be some fun.

This ice fishing is more expensive. Bait is over a cent each and last week Starkey put a hundred in a wash tub. Next morning all but one had died on account of soap.



The Eagle Mountain House

WHITE MOUNTAINS . . . JACKSON, NEW HAMPSHIRE

He was just dear. Mr. Gale says there are packs of porcupines or hedge hogs here. He told us just how to kill them with a club. Some people here said that they saw one yesterday eve, down the road. My Gale also showed us a Wildcat which was caught on Wildcat Mountain and a small black bear caught somewhere in these regions.

Oh, oh, oh I am so hot I can't write any more. I hope you can read what I have already scribbled.

Packs of love,

Edith



The Eagle Mountain House

WHITE MOUNTAINS - - - JACKSON, NEW HAMPSHIRE

"white horse" that is so often spoken of, and saw it, I guess, but couldn't quite distinguish the "hind quarters." On that trip we passed also, Pine Knoll Camp of which I have a booklet and that is a mile camp. It is on Lake Chicoupi.

Yesterday we drove to Berlin, but didn't see Kaiser Bill. There we went through a paper mill. First the guide took us to the furnace rooms and got us all heated up for the rest of the journey. You bet we were some grease spots. On the way home we stopped at the Mt. Madison House and found it a hum place with Chinese bell-boys. Further on we stopped to see the geyser Elia Falls, of which I snaked a picture. The walk was about equal to $\frac{1}{4}$ of a mile from the road, but before mother could say "no" I had beat it down the path with

Margaret and Stephen, (two petits enfants) of 8 and 10) On the way home we had a most wonderful scene of the mountains including Mt. Wash. The time I went up Wash. it did not seem half so large as it did yesterday. About the "Great Gulf" on Mt. Wash. there was 15 feet of snow. That is, it was 15 feet deep for there were 40 acres of snow in all. Also we saw snow on Mt. Jefferson. I was so sweaty when I saw it that I just wished I could set my foot on some snow. I never realized that the New Hampshire mts. had snow in summer. Did you? A little further on a fox ran across the road and stood watching us in the gutter. The chauffeur stopped and said he was going to catch him, but how I don't know. However the fox ran into the woods before he had gotten out of the auto. It is the first one I ever saw except at the circus. He was a little one about as big as a Boston terrier.

die

$$b_{n-1} + b_{n+1}, \quad b_{n-2} + b_{n+2},$$

Für $k=0$ erhalten wir:

$$\beta_0 = \frac{1}{\pi} \int_0^{\pi} 2 \sin n\theta f(\theta) d\theta = \frac{2}{\pi} \int_0^{\pi} \sin n\theta \cdot f(\theta) d\theta = \beta_n.]$$

Es ist also $|f(\theta)| \leq 1$ für $0 \leq \theta \leq \pi$, so liefert meine bekannte Ungleichung für die arith. Mittel, auf die Reihe (2) an der Stelle $\theta = 0$ angewendet,

$$(3) \quad n b_n + (n-1)(b_{n-1} + b_{n+1}) + \dots + 1 \cdot (b_1 + b_{2n-1}) \leq 2n,$$

also, wenn die Paley'sche Bedingung

Leopold Fejer.

Budapest I
Krisztina-körút 165
(Ungarn)

will be convenient to have
a standard work on Fossil
genus to refer to.

We shall no doubt meet
again in time to discuss
the plan in more detail.

Yours sincerely,

L. C. Hitchcock

If philosophy belongs to the lean years
mathematics belongs to the fat years
Take the average between the two!

$$-\sqrt{\frac{ax}{by}}^n - abxy + \sqrt{\frac{ax}{by}}^{1/n} - 1$$



Mathematiker.

Sci

S. J. Bing
120
Graduate College
Princeton

JHC Bing

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International Standard Electric Corporation

Telephone :
HOLBORN 8765.

EUROPEAN GENERAL OFFICES,
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63, ALDWYCH,
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LONDON, W.C. 2.

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INSTANELCO, LONDON.

IN REPLY REFER TO

REPLYING TO

E. B. ROBINSON

European General Patent attorney

f. 2

'contradictory properties' are some?
+ 'a pair'
appropriate & similar or later?

f. 4

Note very - self-contradictory: if
quality = 'being able to be counted' this is
not merely known by description.

f. 5 4th pair statement

Also quite certain that how we have 2
is different from 100 or 1000000.

f. 6 'stimulus' = 'a clearly marked
pair of objects'

'power of counting' is mirroring of
property 'being a collection which we count or
can count'.

f. 7 stimulus merely said not to a thing which
never occurs without reaction.

stimulus not our way of pair objects

1.8 our experience of digits counted in
determinant: = our way of 2 apples.
(digits of our country are universal; but
not these 'digits counted'?)

'consider the matter' AB.

1.9 number or property of defining property
country in part that we have a certain
relation to ourselves of property

This differs from 6.

Look at this. This are 2³ =

2 our last number I came to in
country then (country all)

This says. These apples are 2³

'The property of being one of
the apples has property that I actually
have by country 2, and certain amount
has to the ~~number~~ number of
the collection who has the property'

Page Two

Thank you again for your help. May I express my own personal admiration for your historic contributions in mathematics and related fields. I only wish I knew enough to understand the chapter on stationary time series in your book on cybernetics.

Cordially yours,

A handwritten signature in blue ink that reads "Harry Schwartz". The signature is written in a cursive style with a large, looping initial "H".

Harry Schwartz
Specialist on Soviet Affairs

Professor Norbert Wiener
Department of Mathematics
Massachusetts Institute of Technology
Cambridge 39, Massachusetts

HS/ad