

180

CORRESPONDENCE Oct. 14-31, 1953

N. WIENER MC 22

DARTMOUTH COLLEGE
∴ Department of Physics ∴
HANOVER · NEW HAMPSHIRE

WILDER LABORATORY

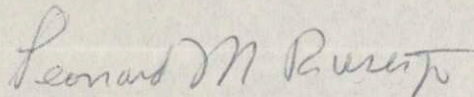
October 14, 1953

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

Dear Professor Wiener,

Thank you very much for your kind letter.
We of course understand your having to turn down
such invitations. I hope it may be possible to
make some arrangement in another year.

Very sincerely yours,



Leonard M. Rieser Jr.

LMR:t

BROWN MEMORIAL CHURCH

(METHODIST)

DAVIS AND DELAWARE ST.
SYRACUSE 4, N. Y.

ROBERT JOHN THOMAS
MINISTER

226 DAVIS ST.
PHONE 75-4333

October 17, 1953

Dr. Norbert Wiener,
Massachusetts Institute of Technology
Cambridge 39, Mass.

Dear Mr. Wiener -

Thank you for your letter of October 13.

I am sorry, but you must have misinterpreted my letter to you. I do not want any medical advice - we have the best doctors available for Craig. But he has an autograph collection - over 400 autographed photographs - and since you are one of the 6 leading world mathematicians, I thought your autograph would add a great deal to his collection, along with the autographed picture he has of Prof. Albert Einstein.

I'm sorry about the mistake, I only mentioned Craig's condition to give you a background and to tell you why we are following a hobby such as this.

Sincerely,

Mrs Robert Thomas

Columbia University
in the City of New York
HUDSON LABORATORIES
145 PALISADE STREET
DOBBS FERRY, N. Y.

P. O. BOX 239

DOBBS FERRY 3-5800

October 15, 1953

Professors Norbert Wiener and Armand Siegel
Massachusetts Institute of Technology
Cambridge 39, Massachusetts

Dear Sirs:

I would very much appreciate receiving
a reprint of your article "A new form for the
statistical postulate of quantum mechanics,"
published in the Physical Review, September 15,
1953, pp. 1551- 1560.

Very sincerely yours,

Emanuel Parzen

Dr. Emanuel Parzen

HP/HH/53

JOHN WILEY & SONS, INC.

ESTABLISHED 1807

PUBLISHERS OF BOOKS

440 FOURTH AVENUE
NEW YORK 16, N.Y.

October 16, 1953

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6

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ASSISTANT VICE-PRESIDENT
TELEPHONE
MURRAY HILL 9-7630

Dr. Norbert Wiener
Department of Mathematics
Massachusetts Institute of Technology
Cambridge 39, Massachusetts

Dear Dr. Wiener:

Some time ago we wrote you asking your opinion of a proposal from the Methuen Company for a book on THEORIES, MODELS AND BRAINS by Dr. D. A. Sholl of the University College, London. Your reply indicated a generally favorable opinion of this prospectus.

We have just recently heard from Methuen to the effect that Dr. Sholl has modified his plan rather considerably. It is now more on the order of a treatment of recent research on the cortex and the workings of the brain and nervous system. It is distinctly more physiological than was the previous plan although, as you will note from the enclosed outline, he goes into the machine-to-brain analogies in the last chapter. Also, you will note that Dr. P. G. Cragg has entered this project as a co-author with Dr. Sholl.

I should like very much to have your additional comment on this new plan. In particular, I would be interested in any preference that you might have as far as the general interest among professional groups might be concerned.

The courtesy of your reply will be very greatly appreciated and I look forward to hearing from you at your earliest convenience.

Sincerely yours,

Charles B. Stoll

Charles B. Stoll
Associate Editor
Engineering Sciences

CBS:cc
Encl.

[ans 11/9/53]

THEORIES, MODELS AND BRAINS

by

DR. D. A. SCHOLL

INTRODUCTION

This book is intended to survey the current state of knowledge of the brain obtained by each of the available techniques, and to formulate the problem of the organization of the brain in the light of recent advances. Knowledge of the anatomical structure and electrical activity of the brain is considerable, and is making rapid progress, but there is no adequate theory of brain organization which can assist experimental investigations by suggesting testable hypotheses. It will be shown that the basic problem is similar to the interaction phenomena studied in physics, and can be formulated in terms of statistical mechanics.

CHAPTER I. THE ANATOMICAL ORGANIZATION OF THE BRAIN

1. The gross structure and main divisions of the brain and its afferent and efferent systems.
2. The cerebral cortex, its main divisions, and the validity of mapping cortex into discrete areas by various methods. (Cytoarchitectonics, thalamic projections, "strychnine neoronography").
3. The general histology of neo-cortex. The results of the modern quantitative study of its microscopical structure. Factors determining the sizes and shapes of neurones, and the branching of their processes.

Modern evidence shows that the neo-cortex may best be regarded as being composed of overlapping radial groups of neurones, which are fundamentally similar, but modified by their relationship to the afferent supply.

CHAPTER II. THE ELECTRICAL ACTIVITY OF THE BRAIN

1. The biophysics of single neurones and their processes. The generalizability of the results to all neurones.
2. The gross response of cortex to the stimulation of an afferent tract, and the relation of the electrical waveform to the histological structure.
3. The results of local stimulation of cortex: the experiments of Burns, the muscular movements elicitable, the controversy on the degree of localization in cortex.
4. Spontaneous activity, the EEG, the relation to functional activity, the relation to the spike patterns of single neurones.
5. Other cortical properties of uncertain interpretation: suppression, spreading depression, steady voltage gradients, strychnine neoronography.

The evidence indicates that the functional organization of the brain is best considered in terms of the interactions of the membrane potentials of the constituent neurones. The rival theories of electrical fields (Kohler et al), biochemical organization, and Pavlov's theory are unsatisfactory.

CHAPTER III. THE EVOLUTION OF THE BRAIN

1. Brain weight, size, and metabolic rate in the mammalian series.
2. The relative increase in area and volume of the telencephalon compared with the rest of the brain.
3. The sizes and shapes of the cells and their processes.
4. The specificity of localization.

The provision for the interaction of neurones is found to increase markedly with the ascent of the mammalian series.

CHAPTER IV. LEARNING AND MEMORY

1. Learning is a quantifiable psychological attribute.
2. The basic conditioned reflex phenomena are described.
3. The localization of the learning process. (Lashley)
4. Categorical and content learning. (Hebb.)
5. Memory and shock.

The modern evidence indicates that learning and memory must be regarded as a dynamic property of an assembly of interacting neurones. No structural alterations during learning are compatible with the experimental results, and the hysteresis phenomena found in ferromagnetism, for example, provide better analogies.

CHAPTER V. THEORIES OF BRAIN ORGANIZATION

1. A resume of the structure and properties of the brain.
2. The machine-to-brain analogies. Electronic circuitry. The ideas of Lorente de No, McCulloch, Wiener, Ashby, Walter.
3. Statistical thermodynamics. The formulation of brain organization as an interaction problem. Cooperative phenomena. The difficulties in physics. The phenomenological theories, the thermodynamics of irreversible processes, the Ising models.
4. The experimental approach suggested by this review: the necessity for simple experiments to examine the basic phenomena which can be interpreted, before more complex issues can be profitably investigated.

340 E. 63 St.
New York, N.Y. 18. 53.

5
17 letter

My dear Dr. Wiener,

I take the liberty of writing this note to you to tell you how much I enjoyed reading your book "E. Prodigy, My Childhood & Youth" recently published.

My interest in your book was enhanced by the fact that I had heard my father frequently speak about your family. My father, Dr. Isaac A. Hourwich, economist & lawyer by profession, happened to be a good friend of your father for many years having attended the same Gymnasium in Minsk.

Also, at the invitation of your father, I visited your home once, while in Boston working as a Special Agent for the U. S. Children's Bureau, and met your entire family (I think, it was in the year of 1915) - when you lived somewhere in Cambridge, near Harvard University.

The searching sincerity displayed in your book elicits in the reader an all-consuming response to the educational problem posed by you.

Thanking you for the intellectual enjoyment derived from your book, I am,

Sincerely yours,

Marie Hourwich-Kravitz

[ms 11/10/53]

[ca Oct 19, 1953]

Hotel Shattuck Dr.

SHATTUCK AVENUE AND ALLSTON WAY

BERKELEY 4, CALIFORNIA

Thursday evening.

Dear Professor Wiener -

Thank you for your kind invitation to discuss further this evening's lecture. We do not wish to keep you up longer this evening, nor does it appear possible for any of us from I. B. M. to get up here tomorrow.

I anticipate being on the M.I.T. campus sometime in December. If it is possible to arrange, through your Industrial Associates program, an opportunity to discuss this matter further, I shall seize on the chance.

Very truly yours,

R. W. Hermes.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
CAMBRIDGE MASSACHUSETTS

DIRECTOR OF LIBRARIES

October 19, 1953

Professor Norbert Wiener
University of California
Mathematics Department
Los Angeles, California

Dear Professor Wiener:

I received this morning the attached letter from Storer Lunt which is self-explanatory. I appreciate, as I know you will, the frank appraisal that Storer has given the manuscript, and while the results are disappointing to those of us who want to see it in print, the reaction is valuable and I think falls in the category of informed and expert criticism. I know that you have others who wish to see the manuscript so the next steps are clear. As soon as the copy mentioned returns I shall hope to have time to go over it carefully. If I were to single out one observation for comment it might be that "the manuscript calls for greater familiarity with the scientific developments of the past 30 years and with the personalities behind these developments than the reader has." This might serve as the key note for your further attention to the manuscript, that is to say would it be practicable and useful to sketch in more of the background then and setting than presently appears.

With best wishes for a pleasant journey,

Sincerely yours,

V.D. Tate

Vernon D. Tate
Director of Libraries

vdt/jl

** It has returned &
is before me now*



W · W · NORTON & COMPANY · INC · *Publishers* · NEW YORK · 3

October 14, 1953

101 FIFTH AVENUE
CABLES · SEAGULL · NEW YORK

Mr. Vernon D. Tate
Director of Libraries
Massachusetts Institute of Technology
Cambridge 39, Massachusetts

Dear Vernon:

Thanks very much for your October 8th letter and your earlier loan of carbon #4 of Dr. Weiner's manuscript. This goes back to you today by prepaid express.

I had not caught up with *Ex Prodigy* but did so in anticipation of my reading of the manuscript. One of my colleagues here, however, had already read *Ex Prodigy* and also Dr. Weiner's other books and was thoroughly familiar with his writing.

We are of a mind about the new manuscript and I see no point in resorting to vague generalities. We could not help rising to the lively exuberance of the script and there are many delicious excursions of interest in it, but, Vernon, it is diffuse and rather a catch-all. Further, a reading of it really calls for greater familiarity with the scientific developments of the past thirty years, and with the personalities behind these developments than the general reader has.

There would be a certain market among Dr. Weiner's followers and those who have a special interest, but we feel that the book would be a very real publishing risk beyond this market. Being virtually a continuation of an earlier book, it runs the risk of being an also-ran in the reviewing world, and we don't feel that there is sufficient compelling strength as an entity to get it across to the wider market that we simply have to count on today.

What to do then? Try elsewhere surely for we can be as right or as wrong as the next fellow. I'm only sorry that we are not in a position to supply a recommendation, and I am eternally grateful to you and Dr. Weiner for letting us consider the project. Please share this letter with him and with it my thanks and very real respects.

Sincerely yours,

Storer B. Lunt

SBL:mr

[ans 10/19/53]

COPY

October 19, 1953

Mr. Storer B. Lunt
W. W. Norton & Company Inc.
101 Fifth Avenue
New York 3, New York

Dear Storer:

Thanks for your good letter of October 14 and for your frank appraisal of Norbert Wiener's manuscript. I am indeed grateful that you have given it considerate and thoughtful treatment. It is what I know Professor Wiener would wish. He is presently in California for a series of lectures, and I shall send your letter with a copy of this reply on to him. The job of a publisher is always a hard one, and from your viewpoint there is no doubt but that this is the right decision. I know that Professor Wiener will find your comments helpful, for he has indicated to me that he is not altogether satisfied with the manuscript as it stands and is prepared to do considerable additional work on it. He felt I think that he should like to know where it is going before undertaking any revision in order to avoid wasted labor.

Do let us get together soon.

Cordially,

Vernon D. Tate
Director of Libraries

vdt/jl

AMERICAN SOCIETY FOR ENGINEERING EDUCATION
Office of Chairman, Mathematics Division
1834 N. Hartford Street
Arlington 1, Va.

20 Oct 1953

TO THE MEMBERS OF THE MATHEMATICAL, STATISTICAL,
AND RELATED SOCIETIES.

Dear Fellow Members:

I am sending this letter to you at this time for a number of reasons:

I. Annual meeting in June. The Mathematics Division of the American Society for Engineering Education is planning a most instructive and interesting program for the meetings to be held at the University of Illinois, Urbana, Illinois, June 14-18, 1954. At the present time plans call for at least four sessions including a luncheon session. At least two of these sessions will be devoted to well organized Panel discussions on technical and educational topics of immediate concern to professional workers in both pure and applied mathematics fields, to teachers in our engineering colleges and universities, and to professional workers in industry. These panel discussions will also be of wide interest to teachers of engineering subjects, and of especial concern to Deans and Administrators who are concerned with curricula problems and with various evaluation studies now in progress in many universities and engineering schools. The members of these Panels will be representative of the best known authorities in the fields discussed. Membership on the Panels will be by invitation of the Program Committee. At the close of the formal Panel discussions, informal discussions based on questions and remarks from the floor will take place. It is hoped that all those who attend will feel free to participate in these discussions.

At least one session of the Meetings will be devoted to papers of interest and concern to those whose interests lie largely in mathematics per se and related educational topics. There will be room for a limited number of short ten minute contributed papers open to volunteers who are members of the A.S.E.E., Mathematics Division, subject of course to the inevitable restrictions attendant to such a meeting. If you wish to suggest someone as a speaker, or wish to volunteer to present a paper, please send the following information to Dr. Richard S. Burington, Chairman, Mathematics Division, A.S.E.E., 1834 N. Hartford Street, Arlington 1, Virginia: Speaker, Title of Paper, length of time required to present, and a brief abstract describing the general nature of the paper. The Program Committee must naturally re-

serve the right to decide which papers shall be included in the program.

II. Plan to attend the meetings. It is expected that this important meeting will be widely attended. Do plan early to attend and enjoy these meetings which the Mathematics Division is now organizing. You are welcome to attend these meetings even though you may not be a member of the Mathematics Division.

III. Many of you are members of the A.S.E.E., Mathematics Division. If you are not, may I, on behalf of the Society, and the Mathematics Division, extend to you a cordial invitation to join this most friendly organization. Those of you who are primarily mathematicians and statisticians will profit by this association because of the contacts and exchange of ideas which you will make with your engineering colleagues. Those of you who are primarily concerned with engineering or scientific matters, but who have a real interest in mathematical topics and applications, likewise will profit by this association.

IV. If you have any suggestions which you would like to make concerning the affairs of the Mathematics Division of A.S.E.E., or with respect to the coming convention in June, please feel free to write to me at once.

V. Officers. The elected officers of the Mathematics Division for 1953-54 are: Richard S. Burington, Chairman; J. H. Zant, Secretary; C. V. Newsom, H. M. Gehman, W. C. Krathwohl, Directors; H. K. Justice, Member of Council. Officers appointed as Assistants to Chairman are: D. C. May and W. E. Restemeyer.

VI. The officers of the Mathematics Division of A.S.E.E. join me in extending to you our cordial invitation to meet with us in June at Illinois.

Sincerely,

Richard S. Burington

Richard S. Burington
Chairman, Mathematics Division,
A.S.E.E.

6520th AC+W Squadron
Hanscom Field
Bedford, Mass
Oct 20, 1953

Dear Dr. Wiener:

I have just read your "The Human Use of Human Beings" and enjoyed it very much.

as you may note in the attached papers, I have also been interested in the interplay of science (and especially communications) and human beings. my approach has been rather backwards from yours in that I tried to create what I thought was desirable in a machine and then seek the means.

Your paper, in many ways, comes very close to mine. I would certainly appreciate any analysis or comments on my efforts that you may care to make.

Sincerely

[ans 11/12/53]

Paul H. Baldwin
Major USAF

return envelope
enclosed

THE NEW YORK ACADEMY OF MEDICINE

2 EAST 103 STREET, NEW YORK 29, N. Y.

TELEPHONE TRAFALGAR 6-8200

October 20, 1953

Robert
Dear Professor Wiener:

It gives me much pleasure to send you herewith a copy of the completed, printed programme of the Lectures to the Laity, in which you are one of the contributors.

If you would like some additional copies of the programme, I will be happy to send them to you.

Sincerely yours,

Rago

Rago Galdston, M.D.

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

/am
encl.

*D - hand some
programme -
what!*

[ans 10/27/53]

THE NEW YORK ACADEMY OF MEDICINE

2 EAST 103 STREET, NEW YORK 29, N. Y.

TELEPHONE TRAFALGAR 6-8200

October 20, 1953

Dear Dr. Wiener:

Dr. Galdston has asked me to inform you that we have made a reservation for you at the Hotel Chatham, Vanderbilt Avenue at 48th Street, for the night of November 4th.

Will you please pay the charges and put them on your expense account, for which you will be reimbursed.

Sincerely yours,

Alice Frank Merriam

Alice Frank Merriam

Dr. Norbert Wiener
Department of Mathematics
Massachusetts Institute of Technology
Cambridge, Massachusetts

Fantasy and Science Fiction

ANTHONY BOUCHER AND J. FRANCIS MCCOMAS, *Editors*
2643 DANA STREET, BERKELEY 4, CALIF.

Oct 21 53

Dr Norbert Wiener
c/o Prof Charles Morrey
Dept of Mathematics
5317 Dwinelle
University of California
Berkeley 4 Calif

Dear Dr Wiener:

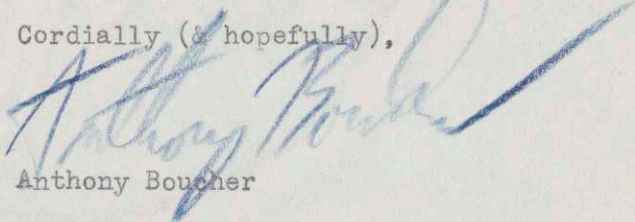
I was pleased to notice, in the small print of the Berkeley GAZETTE, that you're in town---& surprised that the paper considered the fact no more newsworthy!

I haven't any idea of your plans or engagements aside from the lecture Thu night; but if you can fit it in anywhere, I'd very much like to proffer you a drink or two to toast the current & future writings of W Norbert.

Just finished rereading MIRACLE OF THE BROOM CLOSET & preparing it for the printer (it'll be in our Feb issue, out in early Jan) & was even more delighted than on first reading, both by the concept & by the writing. My hopes are strong that Mr Norbert will produce more fiction soon---& that we may have a chance to publish his work as originals rather than reprints.

I live only 10 or 15 minutes' walk from the campus, so it should be possible, I hope, to arrange a meeting in some gap of your time. The office address above is also my home---phone is ASHberry 3-4699.

Cordially (& hopefully),



Anthony Boucher

AB:hjh

RBH

RICHARDSON, BELLOWS, HENRY & COMPANY, INC.

1 WEST 57TH STREET
NEW YORK 19, N. Y.
PHONE: PLAZA 1-3330

October 21, 1953

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

Dear Professor Wiener:

I have read your answer to my recent letter with considerable interest and, naturally, some degree of concern. It is, of course, known to me that many people have disagreed with Korzybski's viewpoint, but this is the first time that my attention has been drawn to the possibility of his "playing the charlatan for money."

I would very much appreciate your sending me further details about this, since, as a reputable scientist myself from the University of Michigan and now with one of the foremost personnel and research consulting firms, I also wish to be very careful of where and how my name is used.

The stories that I have heard about Korzybski have always been to the effect that he was not interested in practical and financial affairs and that for these reasons both he and the Institute he founded were usually in financial straits. I know a number of trustees of the Institute at the present time and, to the best of my knowledge, there is certainly no question about the financial difficulties they are presently having.

Most of us who are now interested in General Semantics do not regard Korzybski as a "patron saint" although we acknowledge a debt to the basic structure of General Semantics as he developed it through Science and Sanity. The breadth of our interest is in part illustrated by the latest issue of ETC., the journal of the International Society for General Semantics, which is entirely devoted to information theory. I suspect that readers of this issue would feel that you yourself, Shannon, Weaver, etc., are as much entitled to the "patron saint" classification as Korzybski.

I fully agree with you that no scientific organization should canonize any single person, and I agree also that the future healthy growth of General Semantics will require its being dynamically related to the ongoing work in other scientific areas. It was in this spirit that the New York Society has always made a policy of welcoming critical evaluation of any aspects of General Semantics, and in seeking outstanding scientific leaders in related fields to address us.

①

Professor Norbert Wiener

- 2 -

October 21, 1953

If you should care to reconsider your decision about talking to our group, I am sure that the mere fact of making a speech to the New York Society for General Semantics would not in any serious or meaningful way "link" your name with that of Korzybski's.

Sincerely yours,

Robert P. Holston

Robert P. Holston, Ph.D.
President,
New York Society for
General Semantics

RPH:cmw

[ans 10/26/53]

⑦
"LAKSHMI NIWAS"
George Town, Allahabad-2. (INDIA)
D/- October 21, 1953.

My dear Professor Wiener,

I thank you very much for your letter dated the 5th October, 1953, which I have just received after my short absence from station.

I hope there will be absolutely no difficulty regarding the passport and visa preparations and you will be able to leave for India on your scheduled date.

As regards clothing, you will need woollen clothing in India during January and the first fortnight of February. At Delhi and Allahabad, or generally in Northern India, it is rather cold from the middle of December to the middle of February, the minimum temperature ranging from 40° to 50° . It is not so cold at Bombay, Hyderabad, Calcutta and Madras where only light clothing may be necessary.

Regarding the itinerary of your programme in India, I propose to write to you a little later.

May I invite your attention to the portion of my letter dated the 13th August, 1953, reproduced below:

"I shall be grateful if you could kindly let me know the topics on which you may like to lecture. Apart from the technical lectures, I may be allowed to suggest that you may kindly deliver a Popular Lecture during the Session of the Science Congress, which may be of general interest to a wider class of audience."

I shall be grateful if you could kindly send to me a reply to the above at your earliest convenience, so that I may be able to include the titles of your Technical and Popular lectures in the programme which is in course of preparation.

With best regards,

Yours sincerely,

B. N. Prasad

(B.N. PRASAD)

General Secretary (Out-station)
Indian Science Congress Association

Professor Norbert Wiener, F.R.S.,
Department of Mathematics,
Massachusetts Institute of Technology,
Cambridge 39,
MASSACHUSETTS.
(U.S.A.)

[ans 11/9/53]

Dr. B. N. Prasad, D.Sc., Ph.D., F.N.I.,
George Town, Allahabad-2, INDIA.

I am very glad to hear from you dated the 15th of August. I have just received your letter and am glad to hear from you. I am sure you will be absolutely satisfied regarding the arrangements and you will be able to leave for the States on the 20th of August.

As regards clothing, you will need warm clothing in India this January and a light frock for February. At Allahabad, the weather in northern India, it is rather cold. The temperature is about 40° to 50°. It is not so cold at Bombay, Madras and areas where only light clothing is necessary.

Regarding the itinerary of your programme in India, I propose to make to you a little later.

I invite your attention to the portion of my letter dated the 15th August, 1951, reproduced below:

"I shall be grateful if you could kindly let me know the type of clothing you like to bring."

← First fold here →

Sender's name and address:—

Dr. B. N. Prasad, D.Sc., Ph.D., F.N.I.,
Lakshmi Niwas,
George Town,
Allahabad-2. (INDIA)

COIN - 66

← Third fold here →

Professor Norbert Wiener, F.R.S.,
Department of Mathematics,
Massachusetts Institute of Technology,
CAMBRIDGE 39,
MASSACHUSETTS.
(U.S.A.)

← Second fold here →

BY AIR MAIL

AIR LETTER

IF ANYTHING IS ENCLOSED
THIS LETTER WILL BE SENT
BY ORDINARY MAIL.



121-

CALIFORNIA INSTITUTE OF TECHNOLOGY
PASADENA

MATHEMATICS

October 22, 1953.

Professor Norbert Weiner,
Massachusetts Institute of Technology,
Cambridge, Massachusetts.

Dear Professor Weiner:

I was sorry that you could not make it to Pasadena on your way to Corono. The new book is quite different from its predecessor. In particular it is addressed to a different audience. For example it would take a mathematician to understand the significance of your own work. It should appeal strongly to the mathematicians of this generation and of the one which is just passing. The part on the war work and the atomic bomb was particularly interesting. I already knew about your part in the controversy over publicity or secrecy, but was glad to see this authoratively set down.

It was a great pleasure to meet you and your wife.

Yours sincerely,

E. T. Bell
per J.L.S.

ETB:jls

E. T. Bell

P.S.

I am returning the manuscript by express.



CRANES @ CREST

October 22, 1953

Dear Professor Wiener:

I am very happy that you have decided to take up the whole problem of jamming in your last chapter, and I am sure that if you simply mark out a big enough area of discourse you are sure to be able to bring the Society of Jesus as well as the Communist Party into a cogent focus.

Sincerely yours,

Jason Epstein

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

JE:nr

P.S. I'm going to be in Boston on Thursday and Friday, Oct 29-30. ~~Who~~ hope that I can see you then - if you haven't left for Calif. In any case I'll call you when I get in. jle

(2)

[ans 10-26-53]

SOUTHERN NEVADA MEMORIAL HOSPITAL
WEST CHARLESTON BOULEVARD
LAS VEGAS, NEVADA

A NON-PROFIT
GENERAL HOSPITAL

October 22, 1953

OPERATED BY
CLARK COUNTY, NEVADA

(B)

Dr. Norbert Wiener
Massachusetts Institute of Technology
Cambridge, Massachusetts

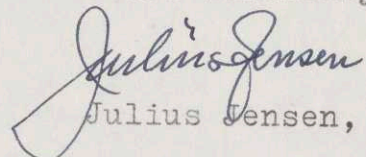
Dear Dr. Wiener:

I have been much impressed with what I could understand of your book on Cybernetics which came out in 1948. I have appreciated the biological significance of the principles which you have described therein and I have used them in the planning of a book on Modern Concepts in Medicine, which the C. V. Mosby Company brought out in June, of this year.

My difficulty with your book was that it contained so much mathematics which was beyond me. I now wish to learn more about the subject in order to improve and amplify the application which I have already made of the principles of cybernetics to the organization of the animal body.

I am, therefore, writing to ask if you have any other publications available which you could recommend for my purpose.

Yours sincerely,


Julius Jensen, M.D.

JJ:c

[ans 11/9/53]

UNIVERSITY OF CALIFORNIA

UNIVERSITY EXTENSION
LOS ANGELES 24, CALIFORNIA

October 22, 1953

*Sent
10/28/53*

Mr. Norbert Wiener
Massachusetts Institute
of Technology
Cambridge, Massachusetts

Dear Mr. Wiener:

In order that a check may be issued for your travelling expense, please fill out the Certification of Services Rendered and dates on the enclosed form and return the form to this office at your earliest convenience. Thank you.

Sincerely yours,

Margaret Wotton dk

Margaret Wotton,
Head, Class Department

dk



No. 14(6)-53-SRII/

GOVERNMENT OF INDIA,
Ministry of Natural Resources & Scientific Research.

New Delhi, the 23rd October 1953 .

(7)

Dear Prof. Wiener,

Thanks for your letter of 5th October 1953 enclosing a copy of your letter to Dr. B.N. Prasad. I enclose a provisional programme for your visits to various places in India. This is subject to such modifications as you may like to suggest. The programme can be finalised when we meet at the Indian Science Congress session at Hyderabad in January next.

With best regards,

Yours sincerely,


(S.S. BHATNAGAR)

[ans 11/9/53]

Prof. Norbert Wiener,
Department of Mathematics,
Massachusetts Institute of Technology,
Cambridge 39, Mass. (USA)

(1)

PROGRAMME IN INDIA OF

Prof. Norbert Wiener

JANUARY 1954

2nd to 9th

Hyderabad (Attend Indian Science Congress)
Visits to Ellora and Ajanta caves to be arranged during this period.
Visits to the following institutions will also be arranged during this period:

- i. Osmania University
- ii. Central Laboratories for Scientific & Industrial Research.

10th to 12th

Bangalore & Mysore. Visit the following:

- i. Indian Institute of Science, Bangalore
- ii. Indian Academy of Sciences, Bangalore
- iii. Central Food Technological Research Institute, Mysore.

13th to 15th

Madras. Visit the following:

- i. Central Leather Research Institute
- ii. King's Institute, Guindy
- iii. Presidency College
- iv. Loyala College

One day visit to the Ramanujan Institute at Karaikudi to be arranged.

16th to 18th

Calcutta. Visit the following:

- i. University College of Science
- ii. Institute of Nuclear Physics
- iii. Statistical Institute
- iv. Central Glass & Ceramic Research Institute
- v. Indian Association for the Cultivation of Science
- vi. Bose Institute

19th & 20th

Benares. Visit Benares Hindu University.

21st & 22nd

Allahabad. Visit Allahabad University.

23rd to 27th

Delhi. Visit the following:

- i. National Physical Laboratory
- ii. Delhi University

Visit to Agra to see Taj to be arranged.

28th to date of departure for USA

Bombay. Visit the following:

- i. Tata Institute of Fundamental Research,
- ii. Institute of Science
- iii. Bombay University Department of Chemical Technology

iv. St. Xavier's College

Visit to Poona to ~~xxx~~ (the National Chemical Laboratory, the Deonan University etc.) to be arranged.

JOURNAL OF APPLIED PHYSICS

PUBLISHED BY THE
AMERICAN INSTITUTE OF PHYSICS

EDITOR
ELMER HUTCHISSON

OFFICE OF THE EDITOR
CASE INSTITUTE OF TECHNOLOGY
CLEVELAND 6, OHIO

ASSISTANT EDITOR
EARLE C. GREGG

October 23, 1953

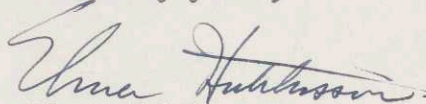
Professor Norbert Wiener
Massachusetts Institute of Technology
Cambridge, Mass.

Dear Professor Wiener:

The enclosed paper on "Information Theory and Knowledge" by D.K.C. MacDonald has been submitted for publication in the JOURNAL OF APPLIED PHYSICS. I will greatly appreciate receiving your judgment as to whether this article is worthy of publication.

With kindest regards,

Sincerely yours,


Elmer Hutchisson
Editor

enc.

REPORT OF REFEREE – JOURNAL OF APPLIED PHYSICS

(Recommendations and comments should be sent within two weeks to Elmer Hutchisson, Editor, Case Institute of Technology, Cleveland 6, Ohio. If typed, both original and carbon copy of this form should be returned to the Editor. The carbon copy is for transmittal anonymously to the author(s). Nothing should appear on it which will identify the referee or his laboratory, etc.)

Author D.K.C. MacDonald Date 10/23/53 195

Title Information Theory and Knowledge.

Please answer the following questions:

As to Content:

1. Does the article contain sufficient new results or theoretical developments of interest to physicists to warrant its publication in the Contributed Original Research section of the *Journal of Applied Physics*?
2. Is the *Journal of Applied Physics* the most appropriate journal? If not, can you suggest a more suitable one?
3. Have you discovered any errors in mathematics or logic? If so, what?
4. Does it contain material which is not new or not important and which might well be omitted? If so, what?

As to Form:

5. Is the order of presentation satisfactory? If not, how may it be improved?
6. Are there any parts which are relatively too long and should be condensed? If so, which?
7. Is the English satisfactory? Please indicate suggested changes in pencil in the margins of the manuscript.
8. Is the abstract adequate for verbatim reproduction in abstract journals?

Other Remarks:

Recommendation:

If this paper is recommended for publication, your assistance in listing possible items or topics under which it should be indexed in the *Journal* will be greatly appreciated.

- | | | |
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| 1. | 3. | 5. |
| 2. | 4. | 6. |

If more space is needed under any heading, please use additional sheets in duplicate.

Referred to: Professor Norbert Wiener

REPORT OF REFEREE – JOURNAL OF APPLIED PHYSICS

(Recommendations and comments should be sent within two weeks to Elmer Hutchisson, Editor, Case Institute of Technology, Cleveland 6, Ohio. If typed, both original and carbon copy of this form should be returned to the Editor. The carbon copy is for transmittal anonymously to the author(s). Nothing should appear on it which will identify the referee or his laboratory, etc.)

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Other Remarks:

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- | | | |
|----|----|----|
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| 2. | 4. | 6. |

If more space is needed under any heading, please use additional sheets in duplicate.

Referred to:

Secretary you used by
you P.S.G. to Dr. Wienen

Richard = Dick Schwentz
specialist BAND
brother - in-law is

Dr. M. Lee Pezance
8750 El Town Place
Los Angeles ~~46~~ 46

Crestview 5-7115 ?
Lundiology at Veterans
Hospital -



AIR MAIL-POSTAL CARD

Prof. Norbert Wiener
Massachusetts Institute of Technology
CAMBRIDGE 39
MASSACHUSETTS

FORTUNE

TIME & LIFE BUILDING
ROCKEFELLER CENTER
NEW YORK 20

EDITORIAL DEPARTMENT

October 26, 1953

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

Dear Professor Wiener:

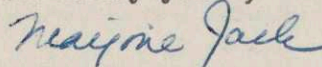
A revised version of our article on information theory went to press last week. We would like to express again our regret for our original misunderstanding of your work in this field. We are grateful to you and to Professors Wiesner and Fano for immediately pointing out the error of our ways. Although there was not sufficient time to forward the revisions to M.I.T., Dr. Shannon saw the second draft and felt it was considerably more accurate than the first in regard to both your work and his. I also managed to read parts of it to Professor Wiesner (I could not reach you at the time, it being over a weekend) who felt we had presented a truer picture.

Frank Bello and I would like to thank you for sparing us so much of your time. Not only was it of great help to us but we enjoyed every minute of it tremendously.

The article will appear in the December issue of FORTUNE. You will receive a complimentary copy around December 1st. There was a great deal more that we wanted to say, but even though we were given extra space it was not sufficient to cover everything that we'd hoped to. We hope that you will enjoy it.

Again, many thanks. Mr. Bello and I both hope to have the pleasure of meeting you again on some future FORTUNE story.

Sincerely yours,



Marjorie Jack
Research Associate

THE INSTITUTE FOR CANCER RESEARCH
and
THE LANKENAU HOSPITAL RESEARCH INSTITUTE

7701 Burholme Avenue
Fox Chase
Philadelphia 11, Pa.

October 26, 1953

11

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

Dear Professor Wiener:

You will see by the enclosed that Professor Peter Bergmann and I are now second and third people to rediscover the results which you obtained in 1927. I have written the enclosed memo to ask whether one can possibly obtain an alternative solution to the problem which might well be more physical.

You will see that as ever x-ray diffraction still leads to interesting mathematical problems.

With best personal regards,

Yours very sincerely,

A. L. Patterson

A. L. Patterson

ALP:d
enclosure

Memorandum on Fourier Transforms of Fractional Order.

Without knowledge of previous work (Wiener 1929, Condon 1937) Dr. Peter Bergmann and the writer have rediscovered the continuous group of integral transforms which contains the Fourier transform as a special case. We have both been led, by different approaches, to the same closed form for the kernel.

Bergmann, working from the quantum mechanical point of view, used an argument essentially the same as that of Condon.

The writer, working from the wave optical point of view and in terms of the eigen functions of the Fourier integral equation, was led to a double series of Hermite functions as an expression for the kernel. In a special case, this double series is diagonal with the coefficient of the n th term $(w/i)^n$ in Wiener's notation, where w is a root of unity of the same order as that of the generalized transform. If w is chosen to have its principal value, or even the same value for every coefficient, then the formal sum of the series is the kernel which we have all obtained.

From the series point of view it seems possible to choose the w for each coefficient from among the available roots of unity, independently of the choices made for the other coefficients. In this manner there can arise an infinity of solutions to the problem. In addition, it does not seem entirely necessary for the double series to be diagonal.

In the geometrical problem discussed in the attached paper which is also, of course, a special case of a continuous group, there are of course q^n solutions for a power p/q in n dimensions. From these solutions one is chosen by the criterion of positive definiteness which is important both from the analytical point of view and the geometrical (homogeneous strain).

The questions the writer wishes to raise are therefore:

1. Is there any reason to ascribe "uniqueness" to the kernel which we have all obtained, other than that of technical expedience? Clearly the Fourier kernel is not positive definite so that the criterion used in the geometrical case cannot be applied here. Is there a criterion of comparable weight which selects the particular kernel which we have obtained?
2. Is there any method by which one or more different closed form solutions can be obtained?
3. Is there any good reason why there should not be a kernel of this type which would preserve an even real function as even and real, and which would preserve oddness and progressively change the complex phase ^{of} an odd real function as does the Fourier transform?

My interest in these questions comes from a feeling of the physical unreality of the kernel which we have obtained. The delta-function of the Fourier transform has a close analogy to a spectral line. The singularly unprepossessing delta function of the more general kernel certainly does not. Since the possible physical applications of the fractional transforms are in question, a "more physical" kernel would be of interest.

The Institute for Cancer Research and
Lankenau Hospital Research Institute
7701 Burholme Avenue, Fox Chase
Philadelphia 1, Pa.

A. L. Patterson

References

- Wiener, N. (1929) J. Math. Phys. M. I. T. 8, 70.
Condon, E. U. (1937) Proc. Nat. Acad. Sci. 23, 158.

COPY

October 26, 1953

Dr. Francis A. Cartier, Editor
Journal of Communication
Florida State University
Tallahassee, Florida

My dear Dr. Cartier:

I should like to correct a misconception on the part of someone in reference to the article in the Training Analysis and Development Informational Bulletin which you sent me.

I am not a consultant on any such project as you mention with the Bell Telephone Company Laboratory, and, to the best of my knowledge, they have no such project at the present time.

I should like to keep the records straight on this matter.

Sincerely yours,

Norbert Wiener

NW:bbo

COPY

October 26, 1953

Mr. Jason Epstein
Doubleday and Company, Inc.
575 Madison Avenue
New York 22, New York

Dear Mr. Epstein:

I am just back from ten days hard work lecturing in California during which time another rejection on my book came in, this time from Norton. I am sending the manuscript on to you more in hope and prayer than in confidence, and I honestly believe that although it needs a great deal more working up, it is not only a sincere job but also a good one.

I am forwarding it to you for your consideration, and I shall get busy at once on the revision of The Human Use. I believe I can organize the last chapter so that it will be more germane to the purpose of the book, and I shall try to do this rather than cut it out altogether.

I shall be glad to see you whenever you come.

With all best wishes,

Sincerely yours,

Norbert Wiener

NW:bbe

COPY

October 26, 1953

Dr. Robert P. Holston
Richardson, Bellows, Henry and Company, Inc.
1 West 57th Street
New York 19, New York

My dear Dr. Holston:

I have at least heard it said that the late Mr. Korzybski, alias Count Korzybski, received personally quite fabulous sums from individual patients whom he treated for so-called "Semantic Block." I do not know in which state this occurred and, a fortiori, I do not know what the laws of this state were, but it comes very close to holding oneself forth to being a practitioner of medicine without qualifications, and perilously near to the level of fraud and crime.

Probably Korzybski with his transpontine personality did not consider it either, but that is all the more reason why I do not wish to be tarred with his brush. Any organization which has any historical connection with Korzybski and his work is an anathema to me, and therefore I believe no further explanation is necessary.

Sincerely yours,

Robert Wiener

NW:bbc

COPY

October 27, 1953

Dr. M. S. Sundaram
Embassy of India
2107 Massachusetts Avenue, NW
Washington, D. C.

Dear Dr. Sundaram:

Thank you for my Indian visa which I recently received. I am now planning to omit the side trip to Istanbul, and to fly directly from Paris to Bombay. I am planning to travel by Trans-World Airlines. When they approached me on the subject some time ago, I of course referred them to you, and I assume, since they have gone ahead in planning the trip, that they meet with your approval.

I believe that I have mentioned to you before my sincere hope that official visits on my trip to India will be kept at a minimum. I of course realize that a certain number of them are necessary, but I should like to reserve most of my time to meet with my mathematical colleagues.

I should like to add that I am a vegetarian, and I am looking forward to Indian food. There will be no need to go to the trouble to supply Western meals for me.

I am looking forward to my visit to your country.

Sincerely yours,

Norbert Wiener

NW:bbc

OXFORD UNIVERSITY PRESS, INC.

114 FIFTH AVENUE, NEW YORK 11, N. Y.



TELEPHONE: WATKINS 4-1200

October 28, 1954

[ca. 1953]

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

Dear Professor Wiener:

Under separate cover we take pleasure in sending you with our compliments SURVIVAL THROUGH DESIGN, by Richard Neutra, which will be published on February 18, 1954.

We hope you will find the book of interest and we would be happy to have your comments on it. May we assume you will not mind our quoting you publicly unless you request us not to?

Sincerely,

Fon W. Boardman, Jr.
Advertising and Publicity Department

FWB/mdm

[ans 11/12/55]

INSTITUTE FOR ASSOCIATED RESEARCH

Psychology Research Center

Box 587, Princeton, New Jersey

October 28, 1953

To inquirers and friends of the Institute for Associated Research:

During the past two years a number of developments have occurred that we should like to report in order to continue our communication and liaison effectively.

Those of us in the Institute have been encouraged by the spread of interest in the perception research, attested by the fact that one or more units of our demonstrations are now in use by over 125 research centers in the United States and 18 other countries. In addition to the use of the perceptual demonstrations for teaching, a number of them are being used in somewhat adapted form for experimental research purposes.

We are now in the process of assembling all of Mr. Ames' demonstrations in a special demonstration center at Princeton which should be ready for operation by January 1, 1954. The Center will contain the E. K. Hall Memorial Alcove, where all publications and memoranda concerning the work will be available, together with the most relevant literature from other fields.

We should be happy to have anyone visit this new center. The demonstration center is to be a part of the Psychology Research Center now being developed by Princeton University.

Both the research program and the management of Institute affairs has become more and more assumed by the Princeton group including, in addition to myself, Professors F. P. Kilpatrick and W. H. Ittelson and Messrs. Charles Slack and Warren Wittreich.

The Rockefeller Foundation recently granted Princeton University \$75,000 in support of a long-range research program in human behavior. Other funds have been made available to the Princeton program from the Quaker Hill Foundation, from ONR, and from the Inwood Institute.

John Pearson, former Managing Trustee of the Institute for Associated Research, retired last year and is now actively pursuing his many interests. Mr. Ames would like to free himself of all extraneous obligations and give his full attention to systematic problems, the design of new demonstrations, and experimental advice. He will act as Research Consultant to the Princeton group from Hanover.

Because of these developments, the Institute for Associated Research, Inc. is being dissolved as a legal corporation and the lease of the headquarters at Hanover is being terminated.

In view of this, may we suggest that correspondence and visits can both be expedited by addressing all communications to me or to one of my colleagues in the Department of Psychology, Eno Hall, Princeton, New Jersey, and not to write further to the Institute for Associated Research in Hanover, N. H. Letters which any of you may want to write personally to Mr. Ames should be addressed to him at Box 110, Hanover, New Hampshire.

This new centralization of the work at Princeton is regarded by all of us as a definite, positive "emergence." If there is any information concerning the research program, publications, or equipment that we can assist anyone on, do let us hear from you.

Sincerely,

Hadley Cantril

Hadley Cantril
President, Institute for Associated
Research
Chairman, Department of Psychology

THE JAPAN INTERNATIONAL CHRISTIAN UNIVERSITY FOUNDATION, Inc.

44 EAST 23rd STREET, NEW YORK 10, N. Y., ORegon 3-2990

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National Treasurer

October 28, 1953

Dear Friend:

About a year ago we had a very successful campaign to supply the Library of the new International Christian University in Japan with books in English. Over 10,000 copies were donated. We now have a special request for books in the area of audio-visual instruction, along with communication and the communication arts.

Your book The Human Use of Human Beings is on this special list.

Will you be willing to send me, at the address on this letterhead, an autographed copy of your book? Such a contribution to this new University will be greatly appreciated--particularly by those in charge of the audio-visual center which is in the process of development upon the ICU campus.

Your autographed copy will be sent directly to the Library of the International Christian University, along with scores of others donated for this purpose.

The enclosed leaflet will give you an idea of the nature of this University.

Sincerely yours,

Stanley I. Stuber
General Secretary

SIS:HPL
Enclosure

3

[ans 2/18/54]

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EDITOR
THE AMERICANA ANNUAL
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ADVISORY EDITOR FOR CANADA

THE ENCYCLOPEDIA AMERICANA THE AMERICANA ANNUAL

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OFFICE OF THE EDITOR

VANDERBILT 6-0600

October 29, 1953

Dr. Norbert Wiener
Massachusetts Institute of Technology
Boston, Massachusetts

Dear Dr. Wiener:

We are at work on a major revision of the Encyclopedia Americana which we hope to have completed late this winter.

Would you have time to write about 300 words on Cybernetics for this new edition. The deadline would be December 1st; the honorarium fifteen dollars.

We shall hope for a favorable reply.

Sincerely yours,

Lavinia P. Dudley
Lavinia P. Dudley
Executive Editor

LPD/arc

Com eny.

[ans 11/30/53]

COPY

October 29, 1953

Dr. Iago Galdston
The New York Academy of Medicine
2 East 103rd Street
New York 29, New York

Dear Dr. Galdston:

I am sending a copy of the talk to you for your criticism. I'll be glad to make any changes which you think necessary. I do want to emphasize that this is new material and tremendously important.

Thank you for making my reservations at the Chatham. I shall arrive by the noon plane next Wednesday, so that we shall have time to discuss the talk.

Sincerely yours,

Norbert Wiener

NW:hbc

COPY

October 29, 1953

Dr. Janet Rioch
17 W. 54th Street
New York, N. Y.

Dear Dr. Rioch:

I shall be in New York all day next Thursday, November 5, and, if it is convenient for you, I should like to see you then. You can reach me at the Hotel Chatham.

Sincerely yours,

Norbert Wiener

NW:bbc

COPY

October 29, 1953

Dr. Theodore Shedlovsky
Rockefeller Institute for Medical Research
York Avenue at 66th Street
New York, New York

Dear Dr. Shedlovsky:

As you probably know, I shall be in
New York next Wednesday afternoon and
Thursday, November 4th and 5th, staying
at the Hotel Chatham.

If you are free, I should like to
see you.

Sincerely yours,

Norbert Wiener

NW:bbe

COPY

October 29, 1953

Mr. Henry Simon
Simon and Schuster
630 Fifth Avenue
New York 20, N. Y.

Dear Mr. Simon:

I shall be in New York next Thursday,
November 5, at the Chatham hotel, and
should like to see you if you will be free.

Sincerely yours,

Norbert Wiener

NW:bbe

[ans 10/30/53]

COPY

October 29, 1953

Mr. Thomas Whiteside
The New Yorker
25 West 43rd Street
New York, New York

Dear ~~Mr.~~ Whiteside:

I shall be in New York Wednesday afternoon and Thursday of next week, November 4 and 5, and shall at that time pay off my debt to you, in coffee.

Sincerely yours,

Norbert Wiener

NW:bbc

HENRY A. BABCOCK
CONSULTING ENGINEER
650 SOUTH GRAND AVENUE
LOS ANGELES 17

October 30, 1953

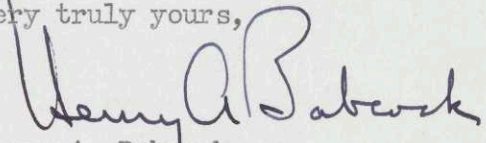
Dr. Norbert Wiener
Professor of Mathematics
Massachusetts Institute of Technology
Cambridge 39, Massachusetts

My dear Professor Wiener:

As an alumnus of the Institute (1912 - II) I am taking the liberty of writing you about your lecture, "Theory of Prediction", which you presented at the University of California at Los Angeles on October 19.

I was unable to attend the lecture but I am very much interested in your subject. If you have an extra copy I shall very much appreciate it if you will send it to me. If there are any charges in this connection, please let me know.

Very truly yours,



Henry A. Babcock.

HAB:mo

UNION BANK
PARCHMENT

[ans 12/5/53]

The Technology Press



MASSACHUSETTS INSTITUTE OF TECHNOLOGY
CAMBRIDGE 39, MASSACHUSETTS

October 30, 1953

Dear Norbert:

I have thought over the manuscript of your second autobiographical volume, on which during my readings I have made some rather blunt notes which accompany this letter. As you know from our conversation, I find the manuscript a pleasant experience; but I am disturbed by its unevenness. This unevenness I am afraid is the result of the primarily narrative technique employed. It does not appear to me that that technique is sufficiently discriminating or selective for this particular book.

As much space is occupied by narrative reports of journeys as is occupied by the impressions of people, statements of an experience--the sort of material in which the real worth of the book exists--I believe it should be possible to pull out of the present manuscript a group of say eight or ten fairly substantial chapters discussing people, places, problems of science in the modern world, and similar essay-like topics. Sandwiched among these there could be little one page summary narrative accounts, possibly set in italic type, in which you keep the chronology straightened out. If this device is employed, you would have a chronological thread running thru the book, but you could tell chronology to go to hell when you set out to discuss say your impressions and observations of China. You could lump the impressions and observations of two or three visits to England in one chapter, paying no attention to chronology. The chronological worry would be cleaned up in the brief italic bits.

With every good wish,

Very truly yours,

A handwritten signature in cursive script that reads "Fred".

F. G. Fassett, Jr.
Director

FGF:k

This MS runs to about 100,000 words, in Introduction and 15 Chapters. On a general impression, I am forced to the feeling that — intrinsic in the content justify 60,000 words. Extraneous, interesting in themselves, shd be cut; some shd be cut for taste's sake, some for diplomacy's. These latter cuts I wd urge on the author in justice to himself, not others.

The focus of Σx-Prodigy is in the nature of things sharper than the focus of this MS. The cuts may help sharpen it.

The tone (stylistic mode) of Σx-Prodigy was one of agreeable compulsion: the book had to be written, virtually written itself. The tone of this MS is more that of acquiescence into a request: someone asked that this be written.

There is a great deal of cataloguing — of minutiae of travel, itineraries, &c &c, — interesting as reminiscences to the author, but not likely to interest the general reader. p. 37, 52. Broad-and-butler letters are precious and painful, but not of general interest.

On mathematical contributions, cf. 47. Not necessary to express claim; let record show.

Time sequences get broken up quite a bit, especially in discussions of math. studies. I suppose in the nature of the material this can't be helped. 57

Consider, p.70, the itemization of food habits. Trivia are not always compelling.

P73: What was "rauhetud" in Sacco-Vanzetti case? Prejudice, yes; xenophobia, yes; roauhettud - ?

P79: Bush near "head" of EE debt.

I

P.80: Refutes to Bush and try a prejudice which I rather doubt. Are you sure of this? Sure that no other factors were involved? In any event, the statement sounds gratuitous.

P 86: Line 6-7 hints at the way the total MS could advantageously be reorganized. You are already having quite a hell of a time with the construction imposed by essentially straight chronological order, and it gets worse later in the MS. It may well be that a complete reorganization, on topical rather than time basis, will be worth the effort.

P 87: Another glancing blow at Bush. No.

89: Used these a mixup here?

93: forever? Pretty categorical.

95: Last 2 sentences, No.

99 ff: The Cambridge material is delightful.

112: On invitations to lecture: later on you poke and punch at lecturing. Too bad if overtones of that poking and punching should be taken as applying here.

118: ¶'s 2 & 3 on this page are the sort that, I fear, must be excised.

120: ¶ 3 on this page is another.

164: "The hotel was very comfortable, and we changed our clothes to go as guests of honor or" Trivial

217: What has become of Hopf? I question whether you want to be so distant on the word as in lines 9-10 here.

235-6: This crack at UB and "the other administrators" is baffling because of the "obviously." What are you sitting at?



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October 30, 1953

Dear Dr. Wiener:

I shall be delighted to see you on Thursday,
November 5.

If you will call me or my secretary any time
after 9:30AM, we can set the time.

Very sincerely,

Dr. Norbert Wiener
MIT
Cambridge, Mass.

hws:lf

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CHICAGO 14, ILLINOIS
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October 30, 1953

DEPARTMENT OF CHEMISTRY

1036 Belden Avenue
Telephone LIncoln 9-6900

Dr. Armand Siegel
Massachusetts Institute of Technology
Cambridge, Massachusetts

Dear Dr. Siegel:

I would appreciate very much if you could send me a reprint of your article entitled "A New Form for the Statistical Postulate of Quantum Mechanics", Phys. Rev. 91, 1551(1953). I remain

Sincerely yours,

Joseph S. Ziomek

Joseph S. Ziomek
Assistant Prof. of
Chemistry

11-18-53