

313

CORRESPONDENCE

May 20-31, 1962

N. WIENER - MC 22

May 20

Dear Dr. Wiener -

I have now left the Spring School in Naples far enough behind to begin to see it as a whole. And on the whole, I count it as one of my more valuable professional and personal experiences.

On both these counts, I must regard your presence and participation as essential. You are, whether you like it or not, one of the charismatic personalities of the field. No matter what you might do, the halo is firmly screwed on. It was my particular joy to find that halo attached to a real person, responsive to the course and content of the Protean field you had spawned more than a decade ago.

I am currently bending my efforts toward an extended return to Naples.

If I am lucky, I shall arrive before you leave. If not, I count on seeing you again in Cambridge. As you know, I am most interested in the work on prostheses, and I hope to check on your progress.

Please convey my regards to Mrs. Wiener - and thanks again for a golden flow which, if not actually directed to me, did splash me to my profit.

Sincerely,

George W. Zopf, Jr.

707 S. McCullough St.  
Urbana, Illinois.

May 20, 1962

Mr. Morton Bromfield  
Formulast Corporation  
175 Huntington Avenue  
Boston 15, Mass.  
U. S. A.

Dear Mr. Bromfield:

I am afraid I must stick to my decision not to act as a director of Formulast. I repeat that as a director I must have first hand knowledge of the affairs on which the very existence of the company depends, and I have not been granted that except on the basis of active pressure on my part. I shall notify the other directors of the Company of my decision. I hope you will understand that this decision does not constitute a charge against you but a recognition of the impossible and incompatible demands which a directorship would impose upon me if I am to live up to my legal and moral duties.

Hoping that your health is improved and wishing you well in your affairs, I remain,

Sincerely yours,

Norbert Wiener

[orig 5/25/62]

May 20, 1962

Mrs. Harrison Cosgrove  
American Mathematical Society  
190 Hope Street  
Providence 6, R. I.  
U. S. A.

Dear Mrs. Cosgrove:

In response to your letter of April 30, I want to say that I should like to continue with the American Mathematical Society as an emeritus member, and also that I wish to continue my yearly contribution of \$ 25.00 for the time being. I am enclosing a check for this amount with this letter.

Thanking you very much, I remain,

sincerely yours,

Norbert Wiener

May 20, 1962

The Board of Directors  
The Formulast Corporation  
175 Huntington Avenue  
Boston 15, Mass.  
U. S. A.

Gentlemen:

This is a letter to the Board of Directors announcing my resignation as a director. I do not find it possible to secure sufficient information as to the ~~state~~ of the affairs of the company to enable me to assume my legal and moral responsibilities as a director nor am I able to pay for the legal expenses necessary to understand my own position. Moreover, I have not received ~~any~~ notice that I have the qualifying shares to establish my right to act as a director. I therefore assume that I am not yet a director. If I am not, please do not transfer any shares to me. If I am, please transfer these shares back to the treasury of the ~~company~~. My resignation is irrevocable and is made without any imputation of the conduct of the company or of Mr. Bromfield, or of anybody connected with the company.

Sincerely yours,

Norbert Wiener

May 20, 1962

Mr. C. E. Israel  
Chairman, Forum Series  
Jewish Community Center  
1580 Summit Road  
Cincinnati 37, Ohio  
U. S. A.

Dear Mr. Israel:

I have just received your letter of April 30, in which you ask if I could accept a lecture engagement for your annual forum series. My situation in regard to your program is the following: I am in Italy for this entire year. When I return to M. I. T. in February 1963, I shall be so busy catching up with the backlog of work awaiting me as well as new research that I shall be unable for some time to accept any outside lecture trips, however much I should like to do so.

I thank you for the honor of asking me, and I hope you will understand my reasons. Please give my regards to Professor Barnett. and tell him that I received his letter.

Sincerely yours,

Norbert Wiener

May. 20, 1962

Professor Paul G. Kuntz  
Noble Professor of Philosophy and Religion  
Grinnell College  
Grinnell, Iowa  
U. S. A.

Dear Professor Kuntz:

I am very much interested in your letter of May 1, discussing your plans for a seminar for advanced students and the possibility of my participation in it. As a matter of fact, I am at present actively engaged on research in statistical mechanics in which the order - disorder problem is central. On the one hand, work of this sort is essential for the study of the difference between linear and nonlinear systems, for quantum theory, and for attempting to disentangle the complexities of the nervous system along lines introduced by Professor Caianiello here in Naples at the Institute named above. I am working at present with graduate students on both sides of the ocean and with Dutch, English and Italian colleagues on these problems.

Of course, my results have not yet arrived at book form and may well not be published in that form at the time of my proposed lectures, in which case I should have to ask your indulgence not to under pressure to publish them. Frankly, I find the publication requirement so adds to the formidableness of many invitations as very often to dispose me to turn it down. This does not mean that if I have results that satisfy me I shall not publish them, but it does mean that date lines implicit or explicit throw me off my stride.

Thus I agree in principle with your invitation. As to the honorarium, it is difficult to say what I want without either being churlish or demanding, or putting myself under a disadvantage.



2.

However, as an approximate mark at which to shoot, I should say one thousand dollars for a lecture program not to exceed one week. This letter is written ~~XXXXXXXXXX~~ as an expression of interest in your project: it is not written as an acceptance, and I reserve the right to change my mind later in case my future obligations or the state of my health make it inadvisable for me to accept.

In the meanwhile, let me thank you for the honor of asking me. I remain with best wishes,

sincerely yours,

Norbert Wiener

May 21, 1962

Dear Professor Wiener,

I leave this morning for Sydney, via Chicago, San Francisco, Hawaii & Fiji; arriving home next Monday, the 28th.

I was very pleased to hear from my friends Jack Cowan & Nello Onesto that you were in fire foun both at Amsterdam & at Naples.

Jack tells me that you said that you would soon be sending me a long letter which will be a great help for my thesis — this is just a note to ask you if you would be kind enough, when you send it, to airmail it in Australia.

Looking forward to ~~hearing~~ hearing from you,

With all best wishes,

Michael Atkin

P.S. Nello said your Italian was very good.

Michael Arbib

7 Yaveluse Rd

Yaveluse, N.S.W.

AUSTRALIA



*Postally*

Prof. Norbert Wiener  
of Prof. E.R. Caianiello,  
Istituto di Fisica Teorica

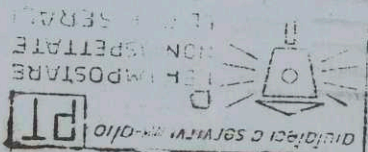
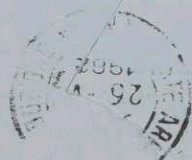
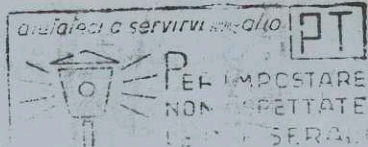
Universita di Napoli,  
Mostra d'Oltremare, Pad. 19.  
Napoli.



AÉROGRAMME • PAR AVION

FIRST FOLD

SECOND FOLD





UNIVERSITÀ DI NAPOLI

ISTITUTO DI FISICA TEORICA

Mostra d'Oltremare, Pad. 19 · Tel. 303514

NAPOLI

Napoli, li ..... 196.....

May 22, 1962

Dear Mrs. Ritter:

Many thanks for your letter of May and enclosures. All is well with us, and the pressure of the last month is over; two meetings right on top of each other were rather exhausting. The last one here was the Spring School at the Institute on cybernetics. Just two more lectures this week and we are free? Or are we? At any rate we can start making plans for the summer which so far are as follows:

1. We leave here by car for Rome for a lecture on June 18. So please see that one mail reaches us by the 15. of June.
2. We continue from there to Vienna for a visit and then on to Salzburg where Norbert will give a lecture at the Seminar of American Studies at Schloss Leopoldskron, probably during the last week in June. Several M.I.T. professors are giving seminars at that time.
3. Then on to Paris, with a brief stop on the way to see my relatives at Aalen near Stuttgart. We might also stop in Basel for a day if time permits.
4. July 6-11, Colloques Philosophiques Internationaux de Royaumont Secrétariat, 173 Bd. Saint-Germain, Paris 6. France. This would be the next best place to send the accumulated mail, unless you hear from us otherwise.
5. After July 12 we shall be on the way to Stockholm with a possible stay of a week or two in Denmark. You will be hearing from us off and on.
6. August 15 - Sept. 1. Stockholm. Our address there Aug. 15-22 International Congress of Mathematicians, Royal Institute of Technology Valhallavägen 79, Stockholm, Sweden. From Aug. 23-Sept. 1. Royal Institute of Technology, Speech Transmission Laboratory, Stockholm 70, Sweden.
7. After this we shall make our way back to Italy with visits and/or possible lectures, including a meeting on protheses in Zagreb, Jugoslavia, ( the latter not certain yet ). We should back in Naples by the 1. of Oct. All mail during that time to go to the Institute in Naples, unless we send you another address.

Air mail is coming thru now in about 3 days, but it is best not count on it. If there any changes in our schedule or other possible addresses we shall let you know. Don't get worried if a bill comes with overdue on it. It generally means that the check, due to the delay in sending over here and then back again, is on the way, but was not in when the second bill was due to be sent out.. By the way I never received the telephone bill for New Hampshire for March, hence the accumulation.

(over)

Would you please send at once a copy of the new edition of cybernetics to the following address, if this can be done without undue delay, such as a long delayed permission from Washington. If not please send us the book by air mail. Have the book charged to our account at the Coop. The Georgia Academy of Sciences wants to translate it and can't get hold of an English copy.

Prof. Shalva Adeishvili  
29 Pushkin Street, Tbilisi  
Georgian S.S.R. Soviet Union

*ordered*

We shall attend to the recommendation for Kotelly. We assume he wants to enroll as a student for the course. I am writing to Mrs. Breed. We expect to get back to our house in Belmont by end of January, in case any other inquiries should come in. In other words the house is available all thru January. By the way, I haven't had a bill from you for a while. Perhaps we had better get our finances straightened out before we leave in June I am glad you are taking some time off. You need a chance to catch your breath, it will pay dividends in the long run. Best wishes all around.

Cordially,

*Margaret Wiener*

*Find out from Mrs. Breed the name of the mathematician from Oxford, also size and age of his family. Thanks you.*

HEADQUARTERS  
3245TH AIR BASE WING  
ELECTRONIC SYSTEMS DIVISION (AFSC)  
UNITED STATES AIR FORCE  
LAURENCE G. HANSCOM FIELD      BEDFORD, MASSACHUSETTS

REPLY TO  
ATTN OF:      CWPCU

22 May 1962

SUBJECT:      Request for Evaluation

TO:      Prof. Norbert Wiener  
          Math. Dept.  
          M.I.T.  
          Cambridge, Mass.

Mathematician, GS-9

Position Title & Grade

Bedford, Mass.

Location

1. Mr. John C. Kotelly has applied for the position mentioned above. It would be appreciated if you would fill out the attached form which would assist us in evaluating the potentialities of this prospective employee.
2. The information you furnish will be treated as confidential. A self-addressed franked envelope is attached for your convenience in replying.

Sincerely



R. M. FITZPATRICK  
Civilian Personnel Officer

3 Atch  
Explanation Sheet  
Rating Form  
Return Envelope

## EXPLANATION SHEET

The research conducted by the AF Command and Control Development Division requires personnel who by training, ability, interest and personal temperament are good research workers. In evaluating the research potentialities of prospective employees, we would like to get the considered opinion of former teachers, instructors, or associates who are acquainted with the applicant, and who know the quality of his work. Your help in selecting such personnel is desired on the basis of your knowledge of the applicant. We will have a transcript of his college work for determining the quality of his training.

We feel that there are certain qualities or traits which an individual must have in some acceptable combination if he is to perform either independent research or to participate in organized research. Both types of research exist at the Air Force Command and Development Division.

To assist you in your evaluation of these traits, we are inclosing a questionnaire form for your convenience in answering if you care to use it. Otherwise we would appreciate, and might prefer, a letter covering essentially the same traits as are listed on the inclosed form plus any other information which seems pertinent. We are particularly interested in any research work he may have done and his ability to handle the experimental and analytical portions of the problem.

We realize that some of these qualities are difficult to judge objectively, even for those applicants having graduate experience or training. They are even more difficult to determine for recent college graduates. Nevertheless, your considered appraisal is desired with respect to all the qualities of which you have personal knowledge. Since your judgement should be based on his past performance, any items you have had no opportunity to observe or do not know from good sources should be omitted.

If you feel that someone else knows more about the applicant than yourself, feel free to ask him for information. If someone besides yourself fills out the form, that person should sign it.

Mr. John C. Kotelly

has applied for the position of Mathematician, GS-9 @ \$ 5435.00 a yr.

1. Present mastery of the fundamentals of his science as compared with others of similar background:
  - Somewhat weak or spotty
  - Adequate for research work
  - Unusually well grounded
  - Exceptional mastery
2. Interest in and drive toward extending own technical background and doing research work:
  - Weak and casual
  - Moderate
  - Strong
  - Intense interest in exploring
3. Ability to understand and assimilate scientific material:
  - Rather poor
  - Good
  - Quick and thorough
  - Exceptional capacity to grasp and assimilate
4. Analytical or reasoning ability:
  - Weak  Goes off on fruitless tangents
  - Moderate ability
  - More competent than most
  - Brilliant and penetrating
5. Technical ability and skill in experimental work:
  - Weak
  - Satisfactory
  - Skillful
  - Highly expert
6. Resourcefulness, imagination, originality, non-habitual thinking:
  - Tends to lack the practical touch
  - Does a good job
  - More capable than most
  - Exceptional ability to simplify or generalize
7. Application and effort on assignments:
  - Often needs prodding
  - Generally acceptable
  - Works harder than most
  - Exceptionally persistent
8. Ability to express himself in written technical reports:
  - Tends to be hard to follow or wordy
  - Writes good reports
  - Exceptionally clear and concise
9. Ability to work as a member of a research team (check one or two):
  - Hard to get along with
  - Good team worker
  - Prefers to work alone
10. Willingness to accept directions and suggestions:
  - Tends to be resentful or uncooperative
  - Easy to supervise
11. Demonstrated ability to supervise and direct others:
  - Not the supervisory type
  - Generally satisfactory
  - A very good supervisor
  - Remarkable skill and effectiveness; inspires subordinates
12. Demonstrated effectiveness in directing broad research programs:
  - Not a good research administrator
  - Generally satisfactory
  - Very good
  - Outstanding
13. Research Perspective:
  - Somewhat restricted perspective
  - Satisfactory perspective
  - Broad perspective; sound sense of relative values
  - Exceptional ability in outlining programs for new research



14. Estimated fitness for the type and level of research work for which he is applying:  
 Not the research type  
 Some doubts or reservations  
 A good man  
 One of the best

15. Does he have any undesirable qualities, such as dishonesty, immorality, drunkenness, neglect of duty, carelessness with confidential information, emotional instability, etc.?

Form sent to:

16. Do you have any reason to doubt his loyalty to the United States:

17. What has been your professional relation to the applicant:

When: \_\_\_\_\_ Institution or Company: \_\_\_\_\_

His Position: \_\_\_\_\_

18. If he has made any creative research contribution to the field or demonstrated any analytical or experimental abilities over and beyond the ordinary expectations of a good research worker in the field, please outline briefly:

19. Are you related to the applicant by blood or marriage:

REMARKS:

To be returned to:

Executive Secretary  
Board of U. S. Civil Service Examiners  
Electronic Systems Division  
L. G. Hanson Field  
Bedford, Massachusetts

( Signature ) \_\_\_\_\_  
( Title ) \_\_\_\_\_  
( Date ) \_\_\_\_\_

Professor N. Wiener  
Massachusetts Institute  
of Technology

41 HOLMWOOD Rd, CHRISTCHURCH,  
New Zealand N.W.1

22 May 1962

Dear Professor Wiener,

Do you ever talk with your colleague, György  
Kepes? If so, would you be kind enough to read what I am  
about to send at his request. This is a copy of a feature-review  
I did of Kepes's volume The New Landscape in Art & Science.  
My article was published in a semi-technical magazine in  
Melbourne (Architecture + Arts, Sept 1957) & earned me £A5,  
plus, on the strength of this review, a free copy of that wonderful  
M.I.T. volume (price £A5, which was beyond my means). Even  
chapters in that volume was barely mentioned because in a brief  
review it was impossible to evaluate every chapter. But ever  
since your books came out I have been a keen, if erratic,  
student of them.

The main purpose of this letter is to ask whether, (or  
if not why not) your I am a Mathematician (presumably the  
same book as Ex-Prodigy (as listed in the Anchor paperback,  
The Human Use of Human Beings)) & your Cybernetics have  
yet been paper-backed? When I asked a similar question of  
Prof. Kepes, his reply (lately to hand) was that, much as he wd.  
like this to be done, it was "up to the publishers". I hope that  
perhaps you won't feel so passively about your own books, in-  
cidentally, I find Anchor + other U.S. paperbacks much less  
able to stand hard ~~were~~ <sup>wear</sup> than the English Pelicans.

Answered  
this  
part

2

Perhaps I should be thankful for my Anchor A34 THUOTHB because I think it should be in mass circulation - just as I think GAW Boehme's The New World of Mathematics (Faber 1960) should be. It should be explained that I am an ex-mathematician, having majored in Pure + Applied Maths 1915-17 (then I had to be a gunner-driver NZ Field Artillery, 18-pounder, 1918-19 → Army of Occup. in Köln), & took the MA. & hon. course in higher maths + philosophy 1919-20 but did not sit the exam, for I went as Rhodes Scholar to Oxford, where I got a mere 2<sup>nd</sup> class hon. in Mod. Hist. & Pol. Sc. Having had a "nervous breakdown" in 1949 (causing my resignation from a Melb Univ. senior lectureship in Pol. Sc.) I am going back to pick up the slack in my Applied Maths by studying such fields as Mathematical Thinking in the Social Sciences, ed. B. Lazerfeld; also

[Continue on back of page]

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**BY AIR MAIL**  
**AEROGRAMME**

If anything is enclosed, this form will be surcharged at rate for Air-Mail Letters.



Professor Norbert WIENER

c/o Massachusetts Inst. of Technology

77 Massachusetts Avenue

CAMBRIDGE 39, MASSACHUSETTS

U.S.A.

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SENDER'S NAME AND ADDRESS

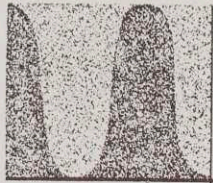
Norman M. RICHMOND

41 HOLMWOOD RD

CHRISTCHURCH NW1 New Zealand

alone discuss with me. Norman Richmond  
The concepts of Strategy, Information, Communication (as in Colin Cherry's work) → that rarely read item G-Ziff; Human Behaviour + the principle of Least Effort; plus Bertalanffy's "Outline of Gen. System Theory" (in Br. J. for Philos. of Sc.) It is impossible to find mathematicians or anyone else in Aust. or NZ. who recognise the importance of these sources - even enough to read them! Let alone discuss with me. Sincerely, N.M. RICHMOND

To open cut here →



MATHEMATICS RESEARCH CENTER UNITED STATES ARMY

THE UNIVERSITY OF WISCONSIN  
MADISON 6, WISCONSIN

May 22, 1962

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

Dear Professor Wiener:

The Mathematics Research Center is planning to hold a symposium on the subject: "Stochastic processes and mathematical models in the medical and biological sciences." Professor Langer, Director of the Research Center, has asked me to explore the feasibility of such a symposium in the matter of obtaining the participation of outstanding scholars in this general subject area and in the matter of arranging a suitable time.

The main objectives we have in mind are the following:

1. Presentation and discussion of developments which have taken place in this field over recent years
2. Broad coverage of the various facets of the subject
3. Expository papers which survey the state of knowledge up to the very frontiers
4. Publication of the collection of all the presented papers in a volume to be circulated by the University of Wisconsin Press

With the growth of the theory of stochastic processes and of mathematical biological models has come an increased recognition of the relevance to much theoretical work in medicine, biology, and other fields. While the extent of this relevance obviously depends on the field of application and the particular problems encountered, the much wider scope and outlook which it has provided will be emphasized.

Definite plans for the Conference on the Theory and applications of analysis in function space have been made. Invitations and detailed information are now being sent both to those whom we wrote last year and to additional participants.

To make this symposium successful in accomplishing its objectives will require the participation of the leading scholars who have made contributions in this general area or closely related areas. In this preliminary stage of planning we are inviting the participation of the following as key persons in this program:

Dr. M. S. Bartlett, University College, London

Dr. Harald Cramer, University of Stockholm

Dr. William Feller, Princeton University

Dr. T. E. Harris, Rand Corporation

Dr. M. Kac, Rockefeller Institute

Dr. N. Rashevsky, University of Chicago

Dr. N. Wiener, M. I. T.

The final form and details of the meeting remain to be worked out but we have the following ideas in mind. This would be an open meeting of about 200 people, including interested personnel (about 50) from army installations. Although the audience will contain a few highly sophisticated statisticians and mathematicians, the bulk of the audience will consist of persons with a moderate background in mathematics, probability, and statistics, and who will be coming to listen and learn.

Each of the key speakers will participate in a morning or afternoon session as follows:

- |                       |                                      |
|-----------------------|--------------------------------------|
| 1. Introduction       | 5 minutes                            |
| 2. Main speaker       | 50 minutes ( first half of lecture)  |
| 3. Invited discussant | 15 minutes                           |
| 4. Open discussion    | 15 minutes                           |
| 5. Coffee break       | 20 minutes                           |
| 6. Main speaker       | 50 minutes ( second half of lecture) |
| 7. Invited discussant | 15 minutes                           |
| 8. Open discussion    | 15 minutes                           |
| 9. End of session     |                                      |

Under the assumption of the participation of seven main speakers there will be seven sessions, and the symposium should take about three and a half or four days, allowing for some planned recreation and entertainment. As each main speaker has 100 minutes at his disposal this should allow adequate time for an expository survey of the subject and also for some of the speaker's own research. In fact, if there is some overlap in the areas of interest of some of the main speakers careful planning well in advance should minimize the amount of overlap and allow some time for the speaker to present new results if he wishes to do so. Through judicious planning the invited discussants might also be called upon to fill in some of the details for which the main speakers lack time.

This symposium provides a wonderful opportunity for this whole subject area to be brought forward with emphasis and to have an impact on research in the medical and biological sciences. The symposium and the resulting publication of collected papers could well be a landmark in the development of this area.

It is hoped that your response will be enthusiastic and that you will be able to participate. You would, of course, be a guest of the Mathematics Research Center during your visit, reimbursed for travel expenses, and receive an honorarium. Madison is in a beautiful location situated on a chain of lakes, and during the summer it is especially attractive. We are tentatively aiming at a target date of early June, 1963, and the symposium will probably take about four days.

In order to utilize the time for planning most advantageously I would appreciate hearing from you at your early convenience.

Sincerely yours,

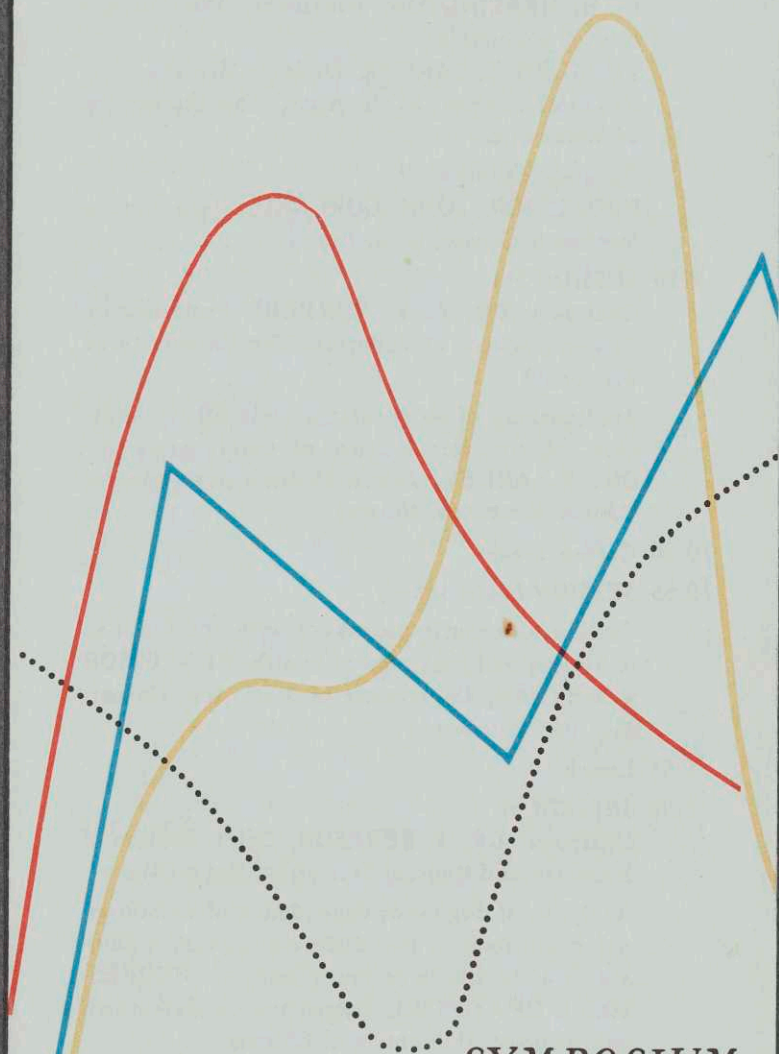
*John Gurland*

John Gurland  
Professor

JG/sc

*David have sent from letter -  
said that you will let him  
know*

# PROGRAM



*SYMPOSIUM*

*On Stochastic Models  
in Medicine and Biology*

*June 12-14, 1963*

*Mathematics Research Center,  
U. S. Army at  
The University of Wisconsin*



# PROGRAM

WEDNESDAY, June 12

8:45 **WELCOME**

**F. H. HARRINGTON**, President, The University of Wisconsin

**RUDOLPH E. LANGER**, Director, Mathematics Research Center, U. S. Army, The University of Wisconsin

**Opening Remarks**

**PROFESSOR JOHN GURLAND**, Mathematics Research Center, U. S. Army

9:30 **SESSION I**

Chairman: **DR. A. R. CURRERI**, Professor of Surgery, School of Medicine, The University of Wisconsin

Applications of stochastic models for the analysis of the mechanisms of carcinogenesis—**DR. N. ARLEY**, Norsk Hydro's Institute for Cancer Research, Norway

10:30 **Coffee break**

10:55 **SESSION I** (continued)

Certain stochastic processes with applications to biology and problems of health—**PROFESSOR J. NEYMAN**, Department of Statistics, University of California

11:55 **Lunch**

1:30 **SESSION II**

Chairman: **DR. J. BERKSON**, Chief, Section of Biometry and Medical Statistics, Mayo Clinic

Analysis of degree of dependence of pathological conditions in two different organs: sclerosis in aorta and in coronary arteries—**PROFESSOR I. OPATOWSKI**, Committee on Mathematical Biology, University of Chicago

2:30 **Coffee break**

2:55 **SESSION II** (continued)

Catalytic Phenomena—**PROFESSOR A. F. BARTHOLOMAY**, Division of Mathematical Biology, Harvard University and Peter Bent Brigham Hospital

Late afternoon: **Picnic at Lake Mendota (Picnic Point)**

## THURSDAY, June 13

### 9:00 SESSION III

Chairman:

The contributions of **A. G. McKENDRICK** and **G. U. YULE** to stochastic process methods—**PROFESSOR J. O. IRWIN**, Department of Medical Statistics, London School of Hygiene and Tropical Medicine

### 10:00 Coffee break

### 10:25 SESSION III (continued)

On some stochastic techniques in the study of dynamical problems—**PROFESSOR NORBERT WIENER**, Massachusetts Institute of Technology

### 11:25 Lunch

### 1:30 SESSION IV

Chairman: **DR. J. F. CROW**, Acting Dean, School of Medicine, The University of Wisconsin

Stochastic models; their use in the genetic study of primitive man—**PROFESSOR J. W. SCHULL**, Department of Human Genetics, University of Michigan

2:30 Stochastic processes in evolution—**PROFESSOR S. WRIGHT**, Department of Genetics, The University of Wisconsin

### 3:30 Coffee break

### 3:55 SESSION IV (continued)

On a multi-allelic stochastic genetics model of Moran—**PROFESSOR S. KARLIN**, Applied Mathematics and Statistics Laboratories, Stanford University and **PROFESSOR J. R. McGREGOR**, Mathematics Department, University of Alberta

## FRIDAY, June 14

9:00 **SESSION V** (Joint with Central Regional Meeting of Institute of Mathematical Statistics)

Chairman: **PROFESSOR W. J. DIXON**, Professor of Biostatistics, Department of Preventive Medicine, University of California  
Stochastic approximation to the median effective dose in bioassay—**PROFESSOR W. G. COCHRAN**, Department of Statistics, Harvard University

10:00 **Coffee break**

10:25 **SESSION V** (continued)

Some stochastic models of repeated plays of the prisoner's dilemma game—**PROFESSOR A. RAPOPORT**, Mental Health Research Institute, University of Michigan

11:25 **Lunch**

1:30 **SESSION VI** (Joint with Central Regional Meeting of Institute of Mathematical Statistics)

Chairman: **PROFESSOR D. B. DeLURY**, Chairman, Department of Mathematics, University of Toronto

A stochastic model of competing risks of illness and competing risks of death—**PROFESSOR C. L. CHIANG**, School of Public Health, University of California

2:30 Stochastic elements in biological models; their source and significance—**PROFESSOR H. L. LUCAS**, Institute of Statistics, North Carolina State College

Additional information can be obtained from the Program Chairman, Professor John Gurland, Mathematics Research Center, U. S. Army.

# GENERAL INFORMATION

## Registration

Registration by mail *on or before May 4* is recommended to avoid congestion at the time of the Symposium and to assure the possibility of attendance and of accommodations at Elizabeth Waters Hall. A registration form is enclosed for your convenience. The registration fee is \$5.00, and we suggest a check for that amount be mailed with your registration form. (Please make payable to *R. E. Langer*.) The secretary of the Mathematics Research Center is Miss Ruth Dickert; the telephone number, ALpine 5-3311, Ext. 2041—Area Code 608.

## Accommodations

Elizabeth Waters Hall, a very attractive dormitory on The University of Wisconsin campus, on the shore of Lake Mendota, with swimming and sunning facilities, has been reserved for Symposium attendees and their families. Special "package" arrangements are offered by the University.

### PACKAGE A

\$21.50 per person (2 per room)  
\$26.00 " " (1 per room)

comprising

Lodging 3 nights (June 11, 12, 13)

All meals Wednesday and Thursday (June 12 and 13)

Breakfast and lunch Friday (June 14)

### PACKAGE B (for those staying for the Institute of Mathematical Statistics meeting)

\$29.00 per person (2 per room)  
\$35.00 " " (1 per room)

comprising

Lodging 4 nights (June 11, 12, 13, and 14)

All meals Wednesday, Thursday, and Friday  
(June 12, 13, and 14)

Breakfast and lunch Saturday (June 15)

Children eleven years of age and under will be accommodated at half the stated rates. Anyone electing to lodge at Elizabeth Waters Hall must take Package A or B. The University can offer these modest rates only through these arrangements. The "package" charge is payable on arrival at the Hall. Linens, blankets, towels, soap, and daily maid service are furnished by the Hall. Bath rooms are conveniently located on all floors.

Conference attendees who prefer other accommodations should make their own reservations with the hotels of their choice. The following are the most conveniently located:

Town/Campus Motel—441 N. Frances Street, ALpine 7-4881, Single \$8.50, Double \$13.00.

Madison Inn—601 Langdon Street, ALpine 7-4391, Single \$9.00, Double \$14.00.

Ivy Inn—2355 University Avenue, CEdar 3-9717, Single \$9.00, Double \$13.00.

### **Recreation**

Swimming and sunning facilities exist at Elizabeth Waters Hall. Boat trips may be taken on Lake Mendota. A lakeside picnic is planned for the late afternoon of Wednesday, June 12.

### **Map**

The map of The University of Wisconsin Campus (enclosed) shows clearly the location of Elizabeth Waters Hall and other University units.

### **Parking**

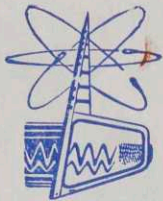
For lodgers at Elizabeth Waters Hall there is parking space available in University Lot No. 34, which lies near the lake shore directly west of the Hall. Parking permits for this area will be available at the Elizabeth Waters desk for \$1.00 for the entire period of the Symposium. Other participants coming in automobiles are advised to park their cars in University Lot No. 60, located west of the campus and connected by bus with the area of symposium activity.

### **Proceedings**

The Proceedings of the Conference will be published within about nine months by the University of Wisconsin Press. These will include the invited lectures in full.

### **Transportation into Madison, Wisconsin**

Madison is served by the following: Northwest, Ozark, and North Central Airlines; Greyhound and Badger Bus Lines; Chicago and Northwestern Railway, and the Milwaukee Road. Direct service as well as many connections via Chicago and/or Milwaukee can be made daily. Specific schedules should be verified in the traveler's own locality.



SALON INTERNATIONAL DE L'ELECTRONIQUE, DE L'ENERGIE ATOMIQUE ET DE LA TELE-RADIO-CINEMATOGRAPHIE  
INTERNATIONAL CONGRESSES AND EXHIBITIONS OF ELECTRONICS AND ATOMIC ENERGY  
INTERNATIONALE KONGRESSE UND AUSSTELLUNGEN FÜR ELEKTRONIK UND KERNKRAFT



## RASSEGNA INTERNAZIONALE ELETTRONICA, NUCLEARE E TELERADIOCINEMATOGRAFICA

ESPOSIZIONI E CONGRESSI

VIA DELLA SCROFA, 14 - ROMA - TEL. 656.343-4-5

COPIA

*Emery*

ESPRESSO

Prof. Norbert WIENER  
Istituto di Fisica Teorica  
Mostra d'Oltremare - Pad. 19  
N A P O L I

Rome, May 23rd 1962  
prot. 9/2536/EMR/ca

Re.: IXth International Scientific Congress on Electronics.

Dear Professor,

the 9th. International Congress on Electronics will be held this year from June 18th to 23rd in the course of our 9th "International Exhibition of Electronics and Nuclear Energy" (Rome EUR, June 11th to 24th 1962.

The careful selection of the themes and the confirmed active participation of scientists and experts of worldy renown already clearly indicate the importance that the present edition of the Congress will assume and the interest with which it shall be followed in competent circles.

Professor Caianello has kindly informed us that it might be possible for you to intervene and, therefore, in expressing our desire to list you among the participants we take leave to add that the Presidency of the Rassegna would feel deeply honoured if Mrs. Wiener and yourself could also accept to be their most welcome guests for the length of your stay in Rome.

We sincerely hope that it will be possible for you to accept this invitation and should you care to present a paper in one of the sections of more interest to your studies we would deeply appreciate your contribution.

We are looking forward with interest to your early reply and, thanking you in advance, we are, dear Professor,

Sincerely yours

Il Segretario Generale  
Dr. Evandro Benvenuti

[ans 10/5/62]

# Massachusetts General Hospital

Boston 14

CABLE ADDRESS "MASSGENRAL"  
IN BOSTON  
GENERAL HOSPITAL  
BAKER MEMORIAL  
PHILLIPS HOUSE

BURNHAM MEMORIAL FOR CHILDREN  
HALL-MERCER HOSPITAL  
HUNTINGTON MEMORIAL HOSPITAL  
VINCENT MEMORIAL HOSPITAL

ELLSWORTH T. NEUMANN, M.D.  
ADMINISTRATOR

IN BELMONT  
MCLEAN HOSPITAL  
ALFRED H. STANTON, M.D.  
PSYCHIATRIST-IN-CHIEF

IN LINCOLN  
STORROW HOUSE  
(CONVALESCENTS)

May 23, 1962

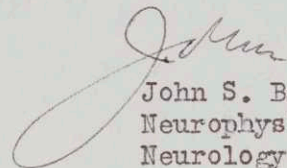
Professor Norbert Wiener  
281 via Posillipo  
Naples, Italy

Dear Professor Wiener:

I am enclosing tear sheets from the last Quarterly Progress Report from the Research Laboratory of Electronics at M.I.T., concerning some of the work on recordings of eye movements and on simulation of correlograms of EEG's. Although much of this material you have seen previously, I think it was perhaps not in as organized a form as it is at present.

With best wishes to Mrs. Wiener and everyone else there,

Sincerely yours,



John S. Barlow, M.D.  
Neurophysiologist,  
Neurology Service

JSB/eb

Enc.

American Society for



# TECHNION-

ISRAEL INSTITUTE OF TECHNOLOGY, Inc.

NATIONAL OFFICE: 1000 FIFTH AVENUE • NEW YORK 28, NEW YORK

Telephone: TRafalgar 9-8400

May 23, 1962

Dear Professor Wiener:

For many years the spotlight of world attention has been focused on the turbulent Middle East. Every thinking person is anxious that permanent solutions be found to the existing problems.

The Boston Chapter of the American Technion Society -- a group of 500 of New England's foremost businessmen, scientists and educators -- plans an opinion-forming seminar this fall featuring four of the nation's leaders who have concerned themselves with the need for peace in the Middle East.

The Chapter hopes to be able to have participants of the calibre of Ralph Bunche of the United Nations, Ogden Reid, publisher of the New York Herald-Tribune, Robert Nathan, noted economist and Dr. James Killian, chairman of the board of the Massachusetts Institute of Technology.

We cordially extend to you, as a community leader, an invitation to participate in our Planning and Conference Committee to give us the benefit of your excellent advice and guidance.

The American Technion Society is the foster alumni in the United States of the Technion -- a noted school which is the counterpart of M.I.T. in the Middle East.

Our first planning luncheon is scheduled for June 7th at the M.I.T. Faculty Club, 50 Memorial Drive, Cambridge.

Won't you please return the enclosed card indicating you will be our guest and join us at the 12:30 p.m. planning meeting on June 7th. Our schedule calls for the meeting to be over by 2:00 p.m., sharp.

With best wishes.

*Norman L. Cahners*

Norman L. Cahners  
Chairman

NLC:jlc







ECON-VERLAG GMBH  
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 POSTFACH 1102

Mr.  
 Prof. Norbert Wiener  
 c/o Massachusetts Institute  
 of Technology

Cambridge 39, Mass./USA

May 23rd, 1962 og/kö

RE.: "The Tempter" and "Cybernetics"

Dear Sir,

*have  
sent  
this*

please find enclosed a questionnaire. Would you be so kind as to fill it in and send it back to us by July 15th.

Furthermore we should like to have a short contribution from you on the subject "Why I wrote my book, or How it came into being" (about 1 1/2 typewritten pages) and a photograph of you in postcard size for our files and for this year's Econ-Almanac.

*Would you send this?  
E.H.R.*

Sincerely Yours  
 ECON VERLAG GMBH

*[Signature]*  
 (Olig)



Mitglied des Börsenvereins  
 des Deutschen Buchhandels  
 Frankfurt am Main

Bankverbindung:

Bankhaus Trinkaus, Düsseldorf - Postscheckkonto Essen 247 47

BAG 1090

May 23,

62

Dr. John S. Barlow  
Neurophysiologist  
Massachusetts General Hospital  
Boston 14, Mass.  
U. S. A.

Dear Dr. Barlow:

It was good to hear from you, and I should have answered you long ago. However, I have just gone thru four gruelling weeks of congresses at both of which I was chairman. The first was the Congress on Cybernetic Medicine at Amsterdam in which much of the work was devoted to the cybernetics of the nervous system. Bottomley from England presented an interesting paper on the electrogram and I asked him to send all the reports of the English group working on artificial limbs to Dr. Barr. (A. S. Bottomley, St. Thomas Hospital Medical School, London, England) In Holland they are doing interesting work at the Institute for Research on Perception, (\*Prof. J. F. Schouten) on artificial speech, and they are also doing work or are interested in the hearing glove. They are also sending papers. \* at Eindhoven

~~The~~ Naples The Spring School of two and a half weeks of concentrated work on the cybernetics of neural processes followed almost immediately, and was devoted to the cybernetics of the nervous system and the necessary neur-anatomical and neuro-physiological and behavioristic data.

The work of both congresses will be published in book form. Dr. J. F. Schade of the Netherlands Central Institute for Brain Research at Amsterdam will be editing the Amsterdam proceedings, and Dr. Braitenberg and Prof. Caianiello of our Institute the Naples proceedings. The Naples congress was something between an international scientific congress and the Spring School of the Institute of physics and was devoted entirely to cybernetics. - - Tell Michael Arbib if he is still around Tech (Mrs. Ritte will know) that we have two important physicists working over my material with me. One is Temperley of the Atomic Weapons Research Establishment at Aldermaston, Berkshire, England, and Masur of Leiden, Holland, is the other. They are both tops statistical mechanics people and seem impressed with my ideas and methods. As a matter of fact my work in function space seems to be along the main line of progress both in quantum theory and in the branches of statistical mechanics.

Another man who is working with me is here at the Institute is Della-  
ariccia, who has received an invitation to Columbia, but who will continue working with me until I return to the States. He is a very bright, young physicist, Paris trained, who is working up the notes of the series of lectures on the ~~methodics~~ ~~deded~~ for cybernetics which I am giving in Italy and of which I have already given ten.

Up to the present I have not been working on the manuscript of my Yale lectures, but now that the heat is off I shall take them up. I have also talks to prepare for the Royaumont Philosophical Meeting in Paris in July, and later in August for the Intern. Math. Congress and the following Speech Communication Seminar, both in Stockholm, the latter under the direction of Gunnar Fant. There may also be a visit to Zagreb, Jugoslavia, to

2.

a congress on protheses, although I have not yet received an invitation. After that I shall be back in Naples for the fall, teaching regular classes and shall return to M. I. T. at the end of January. I have an invitation to spend a week at the Rockefeller Institute on my way back. They have definitely gone in for mathematical physics and even philosophy.

I like your report and papers very much. I have also written to support Robinson's application to be admitted to the Technion for graduate work, and I am glad to hear that he is making such good progress on his job. This is a sort of Round Robin letter, and I should be glad to see it get into the hands of Dr. Barr, Walter Rosenblith, Robinson, Arbib and such other people as you and Mrs. Ritter may see fit. In the meantime we are well and happy and are having a wonderful time, even though, as you see by this letter, it is scarcely a junket. Don't let anybody tell you that Naples is the home of dolce far niente. My present state is dolce far tro

With best regards from house to house and to all my friends.

Sincerely,

May 23,

2

Professor Walter A. Rosenblith  
Department of Electrical Engineering  
Massachusetts Institute of Technology  
Cambridge , Mass.  
U. S. A.

Dear Rosenblith:

I have just written Barlow a round robin letter about my activities here which will ultimately come to your attention. Meanwhile let me thank you for the extremely nice things you say about me in the Commentary reprinted from Computer Techniques in EEG Analysis. I am also gratified to hear that Robinson is making good progress on his problem.

Meanwhile, best wishes from house to house.

Sincerely,

May 24,

2

Professor John van Heijenoort  
Department of Mathematics  
New York University  
Washington Square College of Art and Science  
Washington Square, New York, N.Y.  
U. S. A.

Dear Professor van Heijenoort:

I shall be very glad to give you my approval to include  
in your source book in mathematical logic my 1914 paper on  
a simplification of the logic of relations. With best  
wishes, I remain,

sincerely,

Norbert Wiener

May 24,

2

Professor Shalva Adeishvili  
29 Pushkin Street  
Tbilisi  
Georgian S. S. R.  
Soviet Union

Dear Professor Adeishvili:

I have received your letter asking me to send you the latest edition of my book "Cybernetics or Control and Communication in the Animal and the Machine." I am in Italy at present and have been unable to find a copy in English. I have sent for a copy, and as soon as it arrives I shall forward it to you. Wishing you good luck with your translation of the book, I remain,

sincerely yours,

Norbert Wiener

Dr. Ernst Battenberg  
Ernst Battenberg Verlag  
Marbach / Neckar  
Deutschland

Sehr geehrter Herr Dr. Battenberg:

Ihr Brief vom 25.4 dieses Jahres ist erst kürzlich in meine Hände gelangt, da er mir hier nachgeschickt wurde. Deshalb die verspätete Antwort. Natürlich gebe ich gern meine Zustimmung zu der Einschliessung meiner gemeinsamen Arbeit mit Professor Born. Wenn Herr Dipl.-Phys. Arnim Herrmann mir über weitere Quellen-Publicationen schreiben wolle, bin ich gern bereit, soweit ich es kann, solche zu beantworten.

Ihr ergebener,

Norbert Wiener



May 24,

2

Prof. Edmondo Cione  
Dell' Università  
Via Cimaraosa, 37  
Napoli

Dear Professor Cione:

As to the article on Leibnitz and Modern Science which you requested of me, I must ask you to forgive me that I find myself unable to write it for you. The 20th of June is not far away, and I have a considerable amount of writing to do on a book which I still owe to a publisher. After that period I shall be travelling most of the summer to one congress and another, in addition to which I am desperately tired and need time to rest up.

It was very pleasant meeting you. With best wishes I remain,

Sincerely,

Norbert Wiener

May 24,

2

Dean George P. Springer  
Director of Admissions  
Graduate School  
Yale University  
New Haven, Conn.  
U. S. A.

Dear Dean Springer:

I have just heard from my secretary at M. I. T., Mrs, Ritter, that Mr. John Kotelly is applying for admission to the Philosophy Department at Yale University, and that he would like me to support his application.

I have known Mr. Kotelly for several years. My estimate of him is not based on his official record to which I do not have access here in Naples where I am at the Istituto Di Fisica Teorica for this year. I consider him a young man of drive and enthusiasm capable of hard work and a good degree of understanding. I think him good material for a scientist, and with a little more ripening I am very hopeful of his future once he settles down.

He is a likeable and pleasant person. I should be willing to take a chance on him. This letter is meant literally as it stands. When I say I would take a chance on him I mean exactly that with no more reservation than I would concerning a young man who has not fully established himself by a body of independent work.

Sincerely,

Norbert Wiener

Brief note on work done and planned by J. C. Kotelly

1. Have a technical memo coming out on a possible mathematical model of visual perception where I have made correlations with the work of Prof. Kolars at Harvard. It seems, from the model, that some of the recognizer devices of the visual patterns might be "objects" whose output is similar to what Prof. Wiener once said.
2. I am working on a logical model of the brain and hope to have a paper out on it. It is my belief that the work on Homotopy theory of topology will be used in the problems of the brain and memory.
3. I need the philosophy for some of the ideas of people like Plato and Kant to give insight into the workings of the brain.
4. Because of this research, though it sounds grandiose, I believe I can develop a new theory of sets and give a basis to a science of value.

(J. C. Kotelly)

HEADQUARTERS  
3245TH AIR BASE WING  
ELECTRONIC SYSTEMS DIVISION (AFSC)  
UNITED STATES AIR FORCE  
LAURENCE G. HANSCOM FIELD      BEDFORD, MASSACHUSETTS

REPLY TO  
ATTN OF:      CWPCU

22 May 1962

SUBJECT:      Request for Evaluation

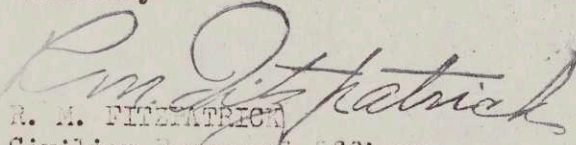
TO:      Prof. Norbert Wiener  
         M. I. T.  
         Cambridge, Mass.

Mathematician, GS-9  
-----  
Position Title & Grade

Bedford, Mass.  
-----  
Location

1. Mr. John C. Kotelly has applied for the position mentioned above. It would be appreciated if you would fill out the attached form which would assist us in evaluating the potentialities of this prospective employee.
2. The information you furnish will be treated as confidential. A self-addressed franked envelope is attached for your convenience in replying.

Sincerely

  
R. M. FITZPATRICK  
Civilian Personnel Officer

3 Atch  
Explanation Sheet  
Rating Form  
Return Envelope

*answered and sent.*

## EXPLANATION SHEET

The research conducted by the AF Command and Control Development Division requires personnel who by training, ability, interest and personal temperament are good research workers. In evaluating the research potentialities of prospective employees, we would like to get the considered opinion of former teachers, instructors, or associates who are acquainted with the applicant, and who know the quality of his work. Your help in selecting such personnel is desired on the basis of your knowledge of the applicant. We will have a transcript of his college work for determining the quality of his training.

We feel that there are certain qualities or traits which an individual must have in some acceptable combination if he is to perform either independent research or to participate in organized research. Both types of research exist at the Air Force Command and Development Division.

To assist you in your evaluation of these traits, we are inclosing a questionnaire form for your convenience in answering if you care to use it. Otherwise we would appreciate, and might prefer, a letter covering essentially the same traits as are listed on the inclosed form plus any other information which seems pertinent. We are particularly interested in any research work he may have done and his ability to handle the experimental and analytical portions of the problem.

We realize that some of these qualities are difficult to judge objectively, even for those applicants having graduate experience or training. They are even more difficult to determine for recent college graduates. Nevertheless, your considered appraisal is desired with respect to all the qualities of which you have personal knowledge. Since your judgement should be based on his past performance, any items you have had no opportunity to observe or do not know from good sources should be omitted.

If you feel that someone else knows more about the applicant than yourself, feel free to ask him for information. If someone besides yourself fills out the form, that person should sign it.

## FORMULAST CORPORATION

May 25, 1962

Dr. Norbert Wiener  
Universita di Napoli  
Istituto di Fisica Teorica  
Mostra d'Oltremare, Pad. 19  
Napoli, Italy

Dear Dr. Wiener,

I'm afraid that if you write William Coolidge and Gregg Bemis that they are likely to resign because I have not lived up to my legal or moral obligations. Since my return I have seen neither of them, have spoken briefly to Coolidge once and have spoken briefly once and at length once to Gregg.

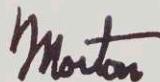
But worst of all, I have given no financial information to either, accounting for the \$125,000. paid to me last December; And the basis of our venture capital agreement is that another 15% of stock will be sold "at the first favorable opportunity".

So it is I who must live up to obligations so that all of you can assist.

I spoke to Gregg the night before last and voluntarily promised to have financial projections available next week. But as of today I find I must go to the English Midlands for a week next week. So now this Sunday will be spent indoors with accounting papers.

I'm glad to see you write that your letter does "not constitute a charge against me". If this be so, you will not consider me unwelcome in Naples. I'll look forward to seeing you and Mrs. Wiener in two weeks.

Sincerely,



Morton Bromfield

MB/es

CENTRO DE INVESTIGACION Y DE ESTUDIOS AVANZADOS  
DEL  
INSTITUTO POLITECNICO NACIONAL

MEXICO 14. D. F.

DIRECCION CABLEGRAFICA: POLINVEST

May 25, 1962

Dr. Norbert Wiener  
Universita di Napoli  
Scuola di Perfesionamento in  
Fisica Teorica e Nucleare  
Napoli, Mostra d'Oltremare, Pad. 19

Dear Norbert:

It was a great pleasure to receive your letter of March 16 and to learn that both Margaret and you are having a profitable time and enjoying yourselves.

I am enclosing the very nice letter which you received from Dr. Samson. It objective evidence of the dictum that good seed develops and fructifies.

Everything is coming along find here. The Center is progressing quite satisfactory, although not as fast as I wish it would. In any event, we wish to inaugurate some of the Departments and buildings by September this year, and are making plans for 1963. Let me know what your schedule is to see whether, as I hope, we can include you in these plans.

Virginia is in New York trying to arrange something for her mother. The problem is not easy but seems to be coming along all right.

Con mis mejores saludos para Margaret y con un afectuoso abrazo para ti, quedo como siempre

Cordialmente,



Arturo Rosenblueth.

le 25 mai

2

Mlle, C. de Chambost, Secrétaire  
Colloques Internationaux de Royaumont  
173 Blvd. Saint-Germain  
France

Chère Mlle. de Chambost:

Je partirai d'ici avec ma femme pour le nord de l'Europe  
le 16 juin, et j'espère arriver à Paris environ le 5 juillet,  
pour participer aux Colloques de Royaumont. Voulez-vous bien  
m'indiquer où nous devons loger pendant les Colloques?

Le thème de ma communication est déjà convenu: La Cybernetique  
et L'Homme.

Veuillez agréer, chère Mademoiselle, l'expression de  
sentiments distingués.



May 25,

2

Mr. Day  
Schloss Leopoldskron  
Salzburg Seminar in American Studies  
Salzburg, Austria

Dear Mr. ~~Day~~ Day:

In his letter to me of May 1, Mr. Adams has extended an invitation to me and my wife to be the guests of the Seminar for a two day period during which I am to deliver an evening lecture. Thank you for the invitation which I am happy to accept.

I waited with writing to you until now when my plans for this summer's work are more complete, and I know more definitely the time when I shall be in the vicinity of Salzburg. I am giving a lecture in Rome on the 18. of June. We are coming by car and should be able to reach Salzburg before or certainly by the end of that week, say June 22-23. I should leave not later than June 26. Please let me know if you can fit a lecture into that time. We would telegraph on the way the approximate time of our arrival.

Looking forward to our visit to the Seminar, I remain,

sincerely yours,

Norbert Wiener

[ans 6/5/62]

May 25,

Prof. Dr. Knoll  
Institut für Technische Elektronik  
Technische Hochschule München  
Arcisstrasse 21  
München  
Deutschland

Dear Professor Knoll:

This is rather late to answer your kind letter of March 16, in which you ask if I could give a lecture at the Munich Technische Hochschule on Science and Religion during this summer. I have just now been able to complete the plans for this summer's work. With engagements previously agreed to in Paris and Stockholm it does not seem possible for me to get to Munich, if at all, before sometime in September. It depends to some extent on how tired I shall be by that time. I have recovered pretty well from my accident, but find it more fatiguing to get around with the cane on which I still depend.

Thanking you for your kind invitation and with best wishes,  
I remain,

Sincerely yours,

May 25,

2

Dr. A. P. Speiser  
International Business Machines Corporation  
Research Laboratory Zürich  
Zürichstrasse 108  
Adliswil-Zürich  
Switzerland

Dear Dr. Speiser:

This is in answer to your kind letter of April 17 in which  
you invite <sup>me/</sup> to visit your laboratory during my trip in Europe  
and possibly give a brief talk on a subject of mutual interest.  
After completing the plans for this summer's work, I find that I  
shall in Stuttgart or vicinity during the last week in June.  
Would that be a possible time for a visit to your laboratories?  
I shall be leaving Naples for Rome and other places by the 16.  
of June and would appreciate an answer before then.

Sincerely,

Norbert Wiener

Dr. Aldo Masturzo  
548 Via Roma  
Napoli, Italia

Dear Dr. Masturzo:

I find now that I am to have a very severe summer of lectures and meetings ending up with a symposium on automatic protheses in Jugoslavia. The result is that if I am to do justice to my courses in Naples in the fall, I need a period of complete rest. In view of this I should like to be excused from participating in the October meeting on Cybernetic Medicine . I realize that this decision will be putting you to some inconvenience, and I would not do so if I were not so greatly in need of a rest.

I wish you all success for the meeting, and I am sure that that much of importance will come of it. With best regards to Mrs. Masturzo and yourself, I remain,

very sincerely yours,

Norbert Wiener

# QUEENS COLLEGE

of THE CITY UNIVERSITY OF NEW YORK

FLUSHING • 67 • NEW YORK

DEPARTMENT OF MATHEMATICS

May 27, 1962

Professor Norbert Wiener  
Universita Di Napoli  
Istituto Di Fisica Teorica  
Napoli  
Italy.

Dear Professor Wiener:

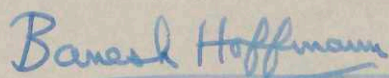
Many thanks for your letter of May 16. It is most encouraging to know that you share my disapproval of multiple-choice tests.

Naturally I was not asking you to endorse a book before you had had a chance to see it. The articles I sent you were merely meant to indicate the nature of my book, and, encouraged by your letter, I have asked Dr. Ozer, the Crowell-Collier editor, to send you a copy of the manuscript so that you will be able to decide whether you wish to write a brief endorsement of it.

I have been trying to influence the professional multiple-choice testers for many years now, and it is only since I devised the new "challenge" strategy, described in my articles and in the book, that there has been a significant effect. As Provost Jacques Barzun writes in his Foreword to the book, referring specifically to my efforts of the past few years: "Now the tide has turned. As the present book shows, it is the testers who are on the defensive, fighting a rearguard action against the irresistible force of the argument which says that their questions are in practice often bad and in theory very dangerous."

The testers are resourceful and enormously powerful, and they will not be easily checked. But now at last, if the attack is vigorously pressed, there does seem to be a chance of retrieving some of the power they have taken. An endorsement by a man of your stature would have a powerful effect on the academic community, and I do hope you will decide to write one, however brief it may be.

Sincerely yours,



Banesh Hoffmann



Osservatorio di Monte Cimone  
Festola (Modena)

Setola 28-5-62

Chierissimo Professore,

Le scrivo per ringraziarla  
della cortesia e della simpatia  
con le quali mi ha accolto.

Le sono molto grato  
dell'incoraggiamento da Lei  
dato alle mie ricerche e  
al Gruppo da me organizzato.

E' stato molto bello, ed  
e' importante per me così  
giovane, avere avuto la

Sua parola di stima.

Saremo tutti felici di  
vederla a Roma, in autunno,  
sempre se Lei potrà.

Le auguro il miglior  
soggiorno nelle belle Majoli.

e nelle Sue belle cose -  
Voglia salutarmi la  
Sua gentile consorte -

Sinceramente Suo

Salvatore Lucertone

# TOKYO INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MATHEMATICS  
OH-OKAYAMA, MEGURO-KU  
TOKYO, JAPAN

May 28, 1962

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

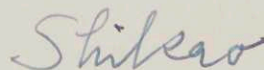
Dear Norbert:

We are reaching a final stage of the translation of the additional parts in the second edition of your CYBERNETICS. The Publisher, IWANAMI SHOTEN and I would like to receive your Preface to the Japanese edition. I shall be very grateful to you if you would give us the final touch to the translation of the landmark volume.

The members of my family are well, and the children are anticipating a pleasant summer away from Tokyo even if a few days. The city of Tokyo is exploding with its population of 10,000,000, and is getting conscious of the water shortage. A monthly typhoon seems necessary to cope with its demand.

Asako and the children join me in extending the best wish to you and Margaret.

Sincerely yours,



Shikao Ikehara



431 Riverside Dr., Apt. 5I  
New York 25, New York  
May 28, 1962

Dear Professor Wiener,

I would appreciate it very much if you could send me reprints of the following of your papers if you have enough left. I am working on the subjects of these papers, and, while I am familiar with the more recent expositions of harmonic analysis, I feel that there is a great deal to be gained by working also from some of the not so recent papers in the subject.

Tauberian Theorems

Annals of Math., 33, 1932, p. 1-100

Generalized Harmonic Analysis

Acta Math., 55, 1930, p. 117-285

The Ergodic Theorem

Duke Math. J., 5, 1939, p. 1-18

with H. R. Pitt

On Absolutely Convergent Fourier-Stieltjes Transforms

Duke Math. J., 4, 1938, p. 420-436

with A. Wintner

Harmonic Analysis and Ergodic Theory

Amer. J. Math., 63, 1941, p. 415-426

If you have extra reprints of any other papers which you have written in this area I would very much appreciate having copies of them also.

I would like to say here that I am enjoying your book "The Fourier and Certain of Its Applications" very much.

Thank you very much for your time and attention.

Sincerely yours,

*Marc A. Rieffel*

Marc A. Rieffel

## FORMULAST CORPORATION

May 29, 1962

Dr. Norbert Wiener  
Universita di Napoli  
Istituto di Fisica Teorica  
Mostra d'Oltremare, Pad, 19  
Napoli, Italy

Dear Dr. Wiener,

Your letter of resignation was received here yesterday morning. I met with Gregg Bemis for lunch to discuss my weekend of information distillation.

The resulting report being printed today is the first piece of information prepared for FORMULAST's directors. I trust it isn't too late.

The report indicates a mild profit for '62; but the crux of everything is German developments which I could discuss with you.

I'll contact you as planned.

Sincerely,

  
Morton Bromfield

MB/es

Enc.

**BROWN BROTHERS HARRIMAN & Co.**

BOSTON NEW YORK PHILADELPHIA

10 POST OFFICE SQUARE  
BOSTON 9

MAY 1, 1962

M. S. BROMFIELD  
8 HUBBARD STREET  
CANTON, MASSACHUSETTS

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I N C O M E 1962

I. ROYALTY INCOME

A. Present Licensees:

	pairs per month	paying months	Initial Survey	royalties commence	prepaid roy- alties end	Royalty Income '62
1. Somervell Bros. Ltd.						
a. Womens						
1. Netherfield 1	16,000	x 12		Jan. '62		\$2650.
2. Netherfield 2	16,000	x 12		Jan. '62		2650.
3. Askam 1	16,000	x 10				2200.
4. Askam 2	16,000	x 6		June '62		1300.
b. Mens						
Low Mills	15,000	x 0	\$6800.	Apr. 16 '62	Jan. '65	0000.
2. W. H. H. Clarke	18,000	x 0	3000.	June '62	June '63	0000.
3. Libelle	40,000	x 4	4500.	Jan. '62	Sept. '62	<u>2200.</u>
						\$11,000.

B. New Licensees

1. William Timpson Ltd.	36,000	x 0	5000.	Sept. '62	July '63	0000.
2. John White (not yet sign)	38,000	x 0	5000.	Sept. '62	July '63	0000.
3. Hoffmann-Kleve "	40,000	x 0	4500.	Jan. '63	Sept. '63	0000.

C. Expected Licensees

Four x 1600 pr/day =	130,000	x 0		Jan. '63		0000.
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D. Summary

1. Known Licensed Pairage	251,000 pr/month	or \$3450. royalties/month =	\$41,400./year
2. Expected Licensed Pairage	130,000 pr/month	or \$1790. royalties/month =	<u>\$21,500./year</u>

ANNUAL ROYALTY INCOME RATE

BY 1 JANUARY, 1963      \$63,000.

## II. INITIAL SURVEY INCOME 1962

A. Somervell Mens	\$ 240.
B. W. H. H. Clarke	3,000.
C. William Timpson	5,000.
D. John White	4,500.
E. Hoffmann-Kleve	4,500.
F. Expected Licensees	<u>18,500.</u>

1962 INITIAL SURVEY INCOME \$36,000.

## III. CONSULTING INCOME

35 Days @ \$150./day	<u>5,250.</u>
	\$40,000.

## IV. SUMMARY

All Income Except Equipment	\$50,000.
-----------------------------	-----------

## V. EQUIPMENT BUSINESS

A. Out-of-Pocket Material one standard system	\$14,500.
B. Our Assembly and Test Labor	1,500.
C. Our prorated Dies, Patterns & Machinery - 2 year life -	
$\frac{\$4500}{2 \text{ years}} = \frac{\$2200}{10 \text{ systems}} =$	200.
D. Our prorated Production overhead $\frac{\$4,000/\text{mo} \times 12 \text{ mo}}{10 \text{ units}} =$	<u>5,000.</u>

ONE STANDARD SYSTEM COST \$21,300.

E. Selling Price One System	28,800.
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INCOME PER SYSTEM 7,500.

PROJECTED EQUIPMENT INCOME \$75,000.

ALL PROJECTED INCOME TOTAL \$125,000.

OFFICE EXPENSE

I. SALARIES & FEES --- ANNUAL

A. M. Bromfield	\$20,000.
B. E. Sponsler	5,800.
C. Accountant Service	2,500.
D. Patent Attorney	8,000.
E. Attorney - Gesmer	2,000.
F. Solicitor - Lowry	<u>1,500.</u>
	\$40,000.
G. plus 2 Survey Men	<u>20,000.</u>
	\$60,000.

II. OVERHEAD --- MONTHLY

A. Office Rent	\$ 165.
B. Electricity	35.
C. Phone & Cable	200.
D. Advertising	400.
E. Reproduction	60.
F. Travel & Selling Expense	800.
G. Interest	140.
H. Insurance	80.
I. Supplies	40.
J. Equipment & Leasehold Improvements (3 year proration)	100.
K. Automobile Expense	100.
L. Photography	50.
M. Payroll Taxes	200.
N. Postage	<u>40.</u>

\$2,400./month OR \$29,000./year



# ERNST BATTENBERG VERLAG · STUTTGART

Herrn  
Professor Norbert Wiener  
Università Di Napoli  
Istituto Di Fisica Teorica  
Mostra d'Oltremare, Pad. 19  
N a p o l i (Italien)

ab 1. Januar 1962:  
**ERNST BATTENBERG VERLAG**  
Marbach/Neckar  
Tel.: (07144) 7248, Postfach  
Auslieferung: Koch, Neff & Ostfinger & Co.  
Stuttgart, Rotenbergstr. 111, Tel.: 44054

Unser Zeichen Dr.B/mi. Ihre Nachricht vom

STUTTGART-BAD CANNSTATT, DEN 29.5.1962  
KÖNIG-KARL-STRASSE 16

Sehr geehrter Herr Professor Wiener,

haben Sie verbindlichen Dank für Ihren freundlichen Brief vom 24. Mai und die Zustimmung, Ihre gemeinsame Arbeit mit Herrn Professor Born in unsere geplante Veröffentlichung einschließen zu dürfen.

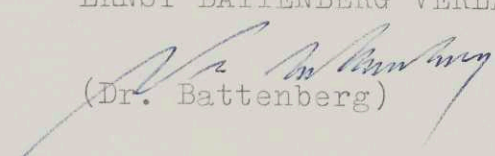
Herrn Hermann haben wir davon in Kenntnis gesetzt, daß Sie freundlicherweise bereit sind, ihm bei weiteren Quellenpublikationen mit Ihrem Rat zur Verfügung zu stehen.

Mit den besten Empfehlungen und der Versicherung aufrichtiger Hochachtung

Ihr

Ihnen sehr ergebener

ERNST BATTENBERG VERLAG

  
(Dr. Battenberg)

May 31,

2

Dr. A. H. Bottomley  
St. Thomas Medical School  
London  
England

Dear Dr. Bottomley:

You will remember that in Amsterdam we talked about a congress on protheses in Zagreb, Jugoslavia this September. Can you tell ~~me~~ anything about the date and the auspices of this congress, and what I should do to secure an invitation there?

I have been very much struck with your work and hope that you have got in touch with Dr. Barr as we agreed. His address is:

Dr. Joseph S. Barr, Chief Orthopedic Service  
Massachusetts General Hospital  
Boston 14, Mass. U. S. A.

After the congress at Amsterdam we had a three weeks Spring School at our Institute here in Naples on cybernetics. We had a very successful meeting consisting largely of the same personnel as in Amsterdam, but with quite a few new faces as well. Both meetings are going to publish books of their proceedings, and I have completed my work of dictating these. My introductory talk on protheses will appear in the proceedings of the Amsterdam meeting.

With friendly recollection of our meeting in Holland,

I am,

sincerely yours,

Norbert Wiener



May 31,

2

Mr. N. H. Cuthbert  
Principle  
Bradford Institute of Technology  
Bradford 7,  
England

Dear Mr. Cuthbert:

I am emeritus at M. I. T. now, and as far as I know we have had no formal course on cybernetics there. Very good work in this field has been done by Professors Amar Bose and Y. W. Lee of the Electrical Engineering Department. What is being done at the Communications Institute I know very imperfectly and am not aware that it offers a formal course in cybernetics. The place where a real attempt is being made to develop cybernetics as a teaching subject is here in Naples at the "Istituto Di Fisica Teorica". I suggest that you get in touch with Prof. E. Caianiello and Dr. V. Braitenberg of this institute to learn more about his course here and his plans for the future.

Sincerely yours,

Norbert Wiener

May 31,

2

Mr. Eugene Garfield, Director  
Insititute for Scientific Information  
33 South Seventeen Street  
Philadelphia 3, Pa.  
U. S. A.

Dear Mr. Garfield:

Your letter of March 2, was forwarded to me here in Italy, hence the delay in answering. I am afraid that I cannot summon much interest in projects for crossindexing and the like.

I have not made use of them depending for the most part on my personal knowledge of various fields of science and on what I find directly in the library. Every man must have his own ideas of crossindexing, and it seems to me that a general scheme of indexing will either be so sketchy that I could not use it, or so bulky that I could not thumb through it.

I hope you will excuse this negative answer on my part, but I simply do not have the time to examine the matter more closely.

Sincerely yours,

Norbert Wiener

May 31,

2

Mr. A. S. Gilman;  
225 Margaret Avenue  
Winnipeg 17, Manitoba  
Canada

Dear Mr. Gilman:

As cybernetics is a rapidly developping subject, the advice I am giving you on further study in its field is primarily applicable to the present transitional stage. I suggest that you look over the forthcoming Proceedings of the Second International <sup>\*</sup>Congress of Cybernetic Medicine held in Amsterdam in April 1962, as well as the Proceedings of the Spring School on Cybernetics held at Institute above in May 1962. I would also recommend very highly the book by Prof. Y. W. Lee of the Electrical Engineering Department, "Statistical Theory of Communication" ( J. Wiley & Sons). There are also the Proceedings of three International Congresses on Cybernetics, of the International Association For Cybernetics, Basse-Marcelle, Street 13, Namur, Belgium.. Reading these should give you a good idea of the scope of the subject and what to study. There is also the recently revised and new edition of my book "Cybernetics".

Sincerely,

Norbert Wiener

\* Write to Dr. J. P. Schade, Secretary-General  
Netherlands Central Institute for Brain Research  
Amsterdam, The Netherlands.

May 31,

2

Mr. Hugo Salinas Price  
116 Poniente No. 709  
Mexico 15, D. F.  
Mexico

Dear Mr. Salinas:

This is in answer to your letter of April 16, which was forwarded to me here in Italy. As you well know, while the Soviet scientists are first rate men and are generally open-minded, the attitude of the Soviet government to science and the individual fields of science is subject to brisk fluctuations which depend very often on matters quite remote from science. If I had been writing this letter a year ago I would have said that the official attitude to cybernetics had become quite favorable. Now I am not so sure. I think that the study of socialist production from the cybernetic point of view might be very interesting. It won't be an easy job either from the purely scientific point of view or from the point of view of securing the relevant facts.

As to the attitude to cybernetics in the free world it is also difficult to say anything definitive. Much work of high quality is being done in many western countries, but again the official attitude varies a great deal, and I cannot say that it is favorable everywhere to science as a science rather than as a tool in the design of weapons. It might be better to say that in general there is no official attitude to cybernetics.

Sincerely yours,

Norbert Wiener