

290

CORRESPONDENCE

Jan. 1961

N. WIENER · MC 22

# AMERICAN MATHEMATICAL SOCIETY

190 HOPE STREET, PROVIDENCE 6, RHODE ISLAND

We have made up your bill for your 1961 Membership and subscriptions in accordance with our present records. However, it may be that you will wish to make some changes. If so, please use the panels in the lower half of this sheet. The enclosed order form lists some of the newer AMS books in which you might be interested. Please remember that subscriptions, including those covered by dues, are payable in advance and normally are not serviced until paid. Please make checks payable to American Mathematical Society.

No 4175

TERMS: Net Cash.

NOTICES	BULLETIN	PRO- CEEDINGS	TRANS- ACTIONS	MATH REVIEWS	DOKLADY
free	free	free	\$16.00	\$16.00	
			1961 DUES	<b>\$25.00</b>	
			TOTAL	<b>\$57.00</b>	

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

N1  
 B1  
 P1  
 T2  
 MR2

If the above address is incorrect, please give the correct one on the enclosed pink form.

\*See Notes 1 and 2 on reverse side of this bill.

\*\*See Notes 3 and 4 on reverse side of this bill.

### Changes in Journal Privileges

Subscriptions to the NOTICES and the BULLETIN are included in the dues of all ordinary and contributing members. In connection with the PROCEEDINGS (P), the TRANSACTIONS (T), and MATHEMATICAL REVIEWS, (MR), the various options listed below are now available. Four volumes of the TRANSACTIONS will be published in 1961. The members' price per volume is \$4.00. (See also Notes 3 and 4 on the reverse side.)

Please check the box which applies to you.

1.  The above bill is correct; I desire no change. (If you check this box, please do not check any of the boxes below.)
2.  P alone. No charge beyond dues.
3.  T alone. Dues plus \$10.00.
4.  MR alone. Dues plus \$10.00.
5.  P + T. Dues plus \$16.00.
6.  P + MR. Dues plus \$16.00.
7.  T + MR. Dues plus \$26.00.
8.  P + T + MR. Dues plus \$32.00.
- 9.a  Doklady Dues plus \$17.50. U. S. and Canada.
- 9.b  Doklady Dues plus \$20.00 Foreign

A request for a change in your present journal privileges must be received in the Headquarters Offices before January 1, 1961.

The above schedule of charges is not applicable to retired members whose dues have been remitted. (Note 5 on the reverse side.)

Please check here if you have made some changes in subscriptions or included new orders affecting the balance.....[  ]  
 Please check here if your remittance includes a contribution.....[  ]  
 Please fill in amount of remittance.....\$.....  
 Deposit Date.....  
 Date Received.....

### Contributions

The publication activities of the Society are conducted at a heavy net loss. In the face of sharply increasing publication costs, the dues of the Society have remained constant for a number of years, and it is hoped that they can be held at present levels for some years more. Also the members' subscription prices to the research journals have been held constant in recent years. (In the case of the TRANSACTIONS, the members' price per volume was actually reduced four years ago.) Under the circumstances, the generosity of individual members in paying more than the minimum dues is an important factor in meeting the publication deficit.

A member becomes designated as a Contributing Member if he volunteers to pay dues of at least \$20 per year. A Contributing Member is designated as a Sustainer of the Society if his dues are at least \$100, and as a Patron of the Society if his dues are at least \$500. You are respectfully urged to pay more than the minimum dues for ordinary membership if you can afford to do so. Contributions to the Society are of course tax-deductible.

### Membership Emblems

The AMS emblem in blue enamel and gold, 1/2 inch in diameter, displays the seal of the Society. It is available in the form of a lapel button, a pin with a safety catch, or a tie clasp. To order please check the desired item below.

- Lapel button.....\$2.00 postpaid.  
 Pin.....\$2.00 postpaid.  
 Tie Clasp.....\$3.00 postpaid.

### Resignation

Must be received in writing. Non-payment is not taken as a resignation.

- I wish to resign effective January 1st.

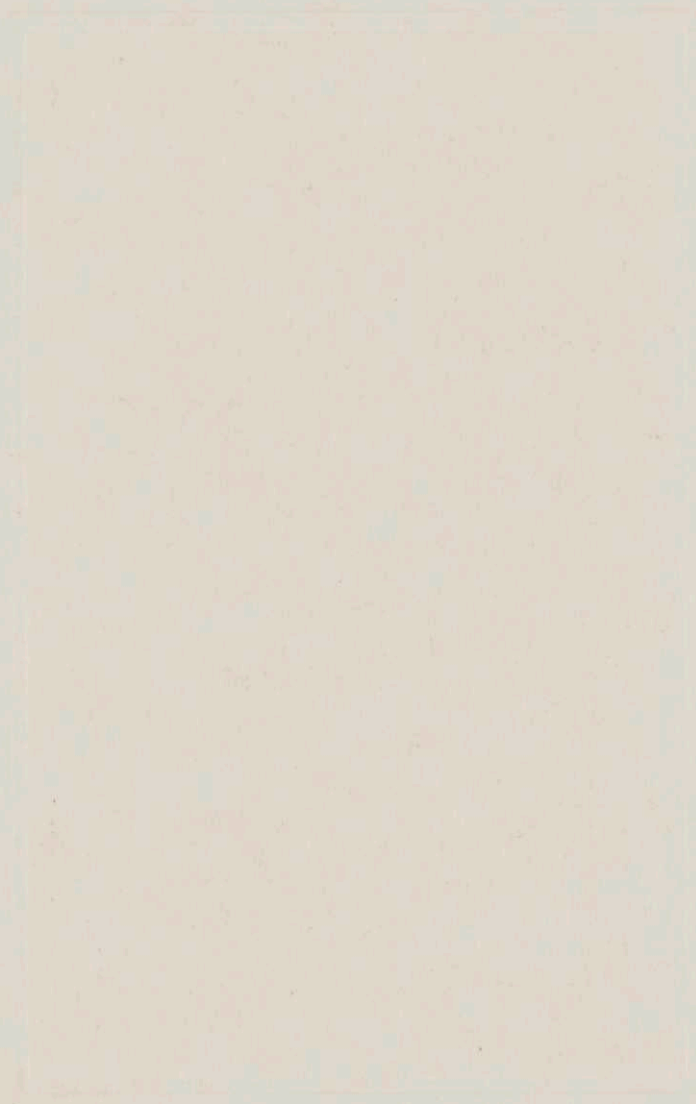
Signature.....Date.....

(Based upon Articles VIII and IX of the By-laws, and on related actions of the Board of Trustees.)

NOTES

- NOTE 1. The annual dues of an ordinary member are at present \$14. Special rates are offered to members of organizations with which the Society has reciprocity agreements. The dues of a nominee of an institutional member are remitted, as are those of a life member, and of a retired member whose paid membership extended over at least twenty years (see NOTE 5 below).
- NOTE 2. An applicant is admitted to ordinary membership immediately upon election by the Council and upon the discharge within 60 days thereafter of his first annual dues. The first annual dues ordinarily apply to the year of election, except that if any applicant is elected after August 15th of any year he may elect to have his first annual dues applied to the following year.
- NOTE 3. Subscriptions to the NOTICES, the BULLETIN and the PROCEEDINGS are included in the dues of an ordinary or contributing member. A member may substitute either MATHEMATICAL
- REVIEWS or the TRANSACTIONS for the PROCEEDINGS by paying a premium to dues of \$10.00.
- NOTE 4. Members' subscription rates are at present as follows: NOTICES, \$2.25; BULLETIN, \$5.25; PROCEEDINGS, \$6.00; MATHEMATICAL REVIEWS, \$16.00; TRANSACTIONS (4 vols.), \$16.00. The schedule of members' subscription prices and premiums to dues for journal privileges has been worked out so that if a member wishes to subscribe to two or more journals in addition to the NOTICES and BULLETIN, it will make no difference to him financially which one he accepts as a privilege of membership.
- NOTE 5. Retired members whose dues have been remitted (see NOTE 1) will receive the NOTICES but not any of the other journals unless they subscribe to those journals.
- NOTE 6. Nominees of institutional members whose dues have been remitted will ordinarily receive the BULLETIN and the PROCEEDINGS as well as the NOTICES as privileges of membership. However, a member may substitute either MATHEMATICAL
- REVIEWS or the TRANSACTIONS for the PROCEEDINGS or MATHEMATICAL REVIEWS for the PROCEEDINGS, provided notification is received in the Headquarters Offices of the Society before the beginning of the calendar year in which the substitution is desired. He must then pay the usual premium of \$10.00.
- NOTE 7. The annual dues of ordinary and contributing members are payable after October 1 of the preceding year and due by January 1 of the year to which they apply. If the minimum annual dues of any member remain undischarged beyond what the Board of Trustees deems to be a reasonable time, his name shall, after due notice, be removed from the list of members. If a member wishes to discontinue his membership at any time, he is expected to submit his resignation in writing to the Society.
- NOTE 8. A membership card and/or emblem will be issued only to a member not in arrears in his account with the Society.





With my best  
wishes for the new  
year.

Ali Gülüm

[ca. Jan, 1967]





INTERNATIONAL  
DESIGN  
CONFERENCE  
IN ASPEN

179 N. Michigan Ave.  
Chicago 1, Illinois  
ANdover 3-1270

January 3, 1961

Dr. Norbert Wiener  
163 Via Manzoni  
Naples, Italy

Dear Doctor Wiener:

Attached you will find copies of correspondence with your office, pertaining to our invitation to you to be a speaker at the 1961 International Design Conference.

Upon phoning your office to determine whether any information had been received regarding your availability, I was told that you would be returning to the States in February, and Miss Sargent, your secretary, was kind enough to give me your Naples address.

Because my committee and I are most anxious to firm the program and to prepare for our first mailing about the conference, these copies together with some other conference material are being forwarded to you in Italy, in the hope that I may receive an early reply.

The conference will be held in Aspen, Colorado from June 18 - 24, 1961.

Looking forward to an affirmative reply, and with best wishes for the new year, I am

Sincerely yours,

*Herbert Pinzke*  
Herbert Pinzke,  
1961 Program Chairman

*answered:  
no*

HP/f  
encls.



August 9, 1960

THIS IS A TRUE COPY

Mrs. E. M. Ritter  
Office of Dr. Norbert Wiener  
Massachusetts Institute of Technology  
Cambridge 39, Mass.

Dear Mrs. Ritter:

Please forgive my tardiness in answering your letter of July 20th. In the near future, I will have the tentative program outlined and some other material ready on the 1961 Design Conference.

In the meantime, I will briefly answer some of the questions raised in your letter. You mentioned that Doctor Wiener will be abroad until February or March. I do not believe that this would create any hardships. One of the things that our speakers prepare is a paper of moderate length (about 2,000 words) which is printed beforehand and distributed to the conferees upon registration. The conferees are expected to read these papers; also, copies of the speakers' papers are distributed well in advance to other speakers so that they can be aware of their viewpoints beforehand.

The structure of the conference is usually a panel discussion with three or four speakers in the large tent amphitheatre, which is attended by all the Conference. This is followed by short seminar meetings where conferees and speakers have opportunity to discuss questions intimately. The speaker's active participation thus consists of about one day during the full week's conference; however, we are anxious to have them feel inclined to actively participate during the full week's conference in all the sessions.

It is the practice of the Conference to pay to its speakers a sum which is equivalent to first class transportation, and housing and living expenses during the conference.

I hope that these notes answer the questions that you had. I can only say that I and my committee are most anxious for Doctor Wiener to be one of our distinguished speakers. We will do all that we can to make his stay in Aspen a pleasant one as well as stimulating for himself and the Conference.

I look forward to hearing from you. If there are any questions, please do not hesitate to write.

Sincerely,

(signed)

Herbert Pinzke,  
1961 IDC Program Chairman

HP/f

C  
O  
P  
Y

175 N. Michigan Ave.  
-----

----- ANdover 3-1270

June 13, 1960

Dr. Herbert Wiener  
Department of Mathematics  
Massachusetts Institute of  
Technology  
77 Massachusetts Avenue  
Cambridge 39, Mass.

Dear Doctor Wiener:

Gyergy Kepes may have already told you about the International Design Conference that is held in Aspen, Colorado every year in June. I am writing you with regard to the one I am planning for 1961. I hope that you will accept my invitation to speak to our Conference.

The subject of the Conference will be "Education and the Designer/Citizen"; this is a working title and not final. The discussion will attempt to deal with Education and Learning in the broadest possible sense. Gyergy has indicated that he will be happy to discuss this matter with you. I sincerely hope that you will be a speaker at our 1961 International Design Conference.

Enclosed is a set of papers from the 1959 Conference and some other material. I will appreciate the opportunity to discuss this further with you and look forward to hearing from you.

Sincerely,

HP/fs      HERBERT PINZER  
1961 Program Chairman

Enclosures

cc: Gyergy Kepes

MASSACHUSETTS INSTITUTE OF TECHNOLOGY  
CAMBRIDGE 39, MASS.

DEPARTMENT OF MATHEMATICS

20 July 1960

Mr. Herbert Pinzka  
1961 Program Chairman  
International Design Conference in Aspen  
175 N. Michigan Avenue  
Chicago 1, Ill.

Dear Mr. Pinzka:

In Professor Wiener's absence, I should like to thank you for your invitation -- and apologize at the same time for our very much delayed reply -- to Professor Wiener to participate actively in the Conference.

He is now abroad and will not be back at the Institute until February or March 1961. Would it be impossible to contact Professor Wiener again in the Spring? If you think it is too late then, I suggest that you give me more detailed information regarding travel and other arrangements that might be arranged by you so that he will have a better idea of the general procedure. I should very much appreciate your help.

Sincerely yours,

*Eva Maria Ritter*

E.M. Ritter (Mrs.)  
Secretary to Prof. Wiener



INTERNATIONAL  
DESIGN  
CONFERENCE  
IN ASPEN

Send list of books  
applicable to topic  
on agenda, prof. Dr. Dierks

OK

man/problem solver

the dynamics of man's development  
as a problem solver and an inquiry into  
the problem solving processes

international design conference June 18 - 24, 1961

program memorandum January 1961

Program Committee

Herbert Pinzke, Chairman  
Jack Roberts, Asst. Chairman  
Hy Hoffman

Albert Parr,  
Moderator, Cycle 1

Elizabeth Paepcke,  
Moderator, Cycle 2

C. B. Sitterson,  
Moderator, Cycle 3

Planning for the 11th International Design Conference to be held in Aspen, Colo., beginning Sunday, June 18, through Saturday, June 24, 1961 has now progressed to the point where this delineation of the conference content and speakers is possible. This is early enough for constructive criticism to be considered and utilized in the final organization of the program. I am grateful for the many suggestions that I have already received and they have all been carefully considered.

As in the past, the conference will be comprised of three cycles, a keynote address on the opening Sunday (June 18) and a summary session on Friday or Saturday. In view of the many comments about the seminars being too large, we are planning to have four seminar groups rather than three. The schedule of the sessions will be as in the past, with ample opportunity for enjoying the leisure activities available around Aspen.

Evening programs are being planned to include visual presentations, film, etc. and one or two special presentations or activities.

The members will receive a bibliography of books, films, and other material so that they will have an opportunity to study beforehand pertinent material related to the conference.

Cycle 1: Man becomes a problem solver.

The factors — ecological and inherited — that have made man the problem solver he is today.

How has he achieved this status? What factors have contributed to this development? On what different levels does man function as a problem solver — emotional, biological, intellectual?

The historical **mirror**—how have contemporary societies achieved their problem solving abilities? Do the learning patterns of children reflect the historical development of problem solving? Do primitive cultures also show this?

Speakers: Dr. Herbert S. Zim,  
Educational Director of Golden Press  
Editor in Chief of Our Wonderful World.

Professor Reuel Denny  
Educator, Social Sciences, University  
of Chicago; Writer - Poet

Dr. Bernard Rudofsky,  
Architect - Engineer - Writer

Dr. Norbert Wiener,  
Scientist

Dr. R. A. Jefferson,  
Psychiatrist

Moderator: Dr. Albert E. Parr,  
Director, American Museum of Natural  
History, New York

Seminar Leaders:

George McVicker  
Saul Bass  
Joyce Morrow  
Jack Roberts  
William Friedman

Cycle 2: All creative people are problem solvers.

How people in other artistic endeavors and scientific disciplines see their world of problems. How they go about solving them.

How environment and experience circumscribe a person's growth as a problem solver and influence his insights and affect his outlook.

Does the criteria for defining problem areas in your art or profession differ from those used by industry or government?

Speakers: Dr. Tomas Maldonado,  
Educator, Head, Inst. for Ind. Des.  
Hochschule für Gestaltung, Ulm, Germany -  
Industrial Designer.

Harry Belafonte  
Entertainer (singer and actor)

Dr. Peter Kronfeld,  
Prof. and Head of Dept. of Ophthalmology,  
University of Illinois

Choreographer or  
writer or stage director

Moderator: Mrs. Elizabeth Paepcke

Seminar Leaders: Edith Heath  
Jim Cross  
Cipe Pineles  
Bernard Benson  
Millie Goldsholl

Cycle 3: The business of problem solving today and tomorrow.

How and for what ends shall the problem solving abilities of man be utilized?

What criteria does industry or government use to define problem areas and thus assess its problem solving needs?

A look at the opportunities for designers to work with corporations and government in fulfilling the needs of the community of man, now and in the future.

How designers in other countries approach problems and work out the solutions.

Speakers:

Edward C. Bursk  
Editor, Harvard Business Review

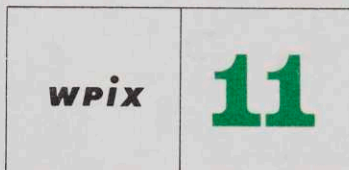
Milner Grey,  
Designer - Educator - Writer (England)

Junzo Sakakura  
Architect - Chman, World Design Conf. '60  
(Japan)

Yu Soloviev,  
Designer - (Soviet Union)  
Chief Expert on Ind. Design, State  
Scientific & Tech. Comm.  
Council of Ministers, USSR

Moderator: C. B. Sitterson, Director, Research & Development, Appleton Woolen Mills, Appleton, Wisconsin

Seminar Leaders: Bruce MacKenzie  
Bruce Beck  
Jim Real  
William Capitman  
Arnold Rockman



WPIX INC. THE NEWS TELEVISION STATION 220 EAST 42ND STREET NEW YORK CITY 17 MURRAY HILL 2-6500

January 4, 1961

VIA AIR MAIL

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

Dear Dr. Wiener:

We are working on a 13-week series of television half-hour programs under the umbrella title THE WAR WE'RE IN.

We are seeking film footage on any activities of the communist world, Red China and the Soviet Union, which might be pertinent to our documentation of the communist threat.

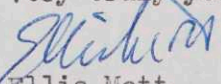
Films taken behind the Iron and Bamboo Curtain, films of communism in action, films of subversion and terror, and the stories of those who have lived under communism would be especially useful. If they cannot be made available to us directly, we are prepared to seek them in most any part of the world if we can be supplied details as to where they might be.

And, too, the names of those who have a personal story to tell about communist activities would be helpful. In that case we would like to interview such persons by filming their story wherever they are.

WPIX is planning to syndicate this series to television stations around the country. WPIX, an adjunct of the DAILY NEWS, the newspaper with twice the circulation of any other in this country, has a reputation in the documentary field unmatched. Our SECRET LIFE OF ADOLF HITLER attained the largest audience of any documentary in the history of television.

THE WAR WE'RE IN can expect the widest circulation among television stations across the country.

Very truly yours,

  
Ellis Mott  
News & Public Affairs

*answered:  
ror MO-*



THE UNIVERSITY OF WESTERN ONTARIO  
LONDON, CANADA



January 5, 1961

Eva Marie Ritter,  
Secretary to Norbert Weiner  
Dep't. of Math.,  
Mass. Institute of Technology,  
Cambridge 29, Mass.

Dear Miss Ritter:

Thank you for your letter of December 20<sup>th</sup>, in connection with the possibility of Professor Weiner's giving a lecture at the University of Western Ontario.

Concerning a date for the lectures, I could tentatively suggest Monday, Feb. 20<sup>th</sup>, but it would not be difficult for us to arrange a date at the end of February or early March. I would however, require two weeks notice so we could arrange for facilities.

Yours truly,

Dr. J. F. Hart  
Head, Computing and Tabulating Centre

JFH/em

[ans 1/10/61]



PRATT INSTITUTE      B R O O K L Y N   5   ·   N E W   Y O R K

LIBRARY SCHOOL  
OFFICE OF THE DEAN

January 5, 1961

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

Dear Dr. Wiener:

The Pratt Institute Library School is preparing a program for the professional librarians of the New York area to be presented on May 13 or May 20, 1961.

Our program calls for a morning lecture in which some of the new and exciting developments in science are described. There will be a luncheon at noon followed by an afternoon session featuring book displays and discussion groups.

The faculty of the Library School would like to inquire whether you would be willing to deliver the morning lecture and, if so, what fee you might charge.

If the dates listed above do not suit your convenience, another Saturday in the spring could be selected. Our afternoon program could be arranged to fit any lecture that you wish to give.

We sincerely hope that some arrangement can be made for you to talk to the librarians in New York.

Cordially yours,

Louis D. Sass  
Dean

*answered:  
no*

LDS:jhv

UNIVERSITY OF CALIFORNIA

DEPARTMENT OF STATISTICS  
STATISTICAL LABORATORY  
BERKELEY 4, CALIFORNIA

January 6<sup>th</sup>, 1961

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

Dear Wiener:

Please forgive me for taking so long to write you this note regarding my application for the year off here in the Miller Research Institute. The news is unfavorable: I did not get it — "at this time", as the responding letter put it. There seems to be no question but that I was unwittingly stepping out of pecking order. Well, the society of men is as it is, and we must accept it up to a point.

My enthusiasm for the complex of fundamental ideas that I am driving to substantiate has, I assure you, not flagged one bit. Currently (in addition to many other productive lines of research) I am attempting to see if there is a wholesale generalization, of a natural kind (— an intuitively reasonable kind —), of the mathematical elements of probability theory

wherein the probability itself is not a numerical-valued measure but some other kind — perhaps a spectral measure. Going to spectral measures in Hilbert space is a necessary first step, I am sure.

One of these years, when my present investigations start to fall somewhat into place, I shall want to pass some time at Cambridge talking with you.

My best regards to Mrs. Wiener — and may you have a very good New Year.

Sincerely,  
Edward W. Brown

163 Via Manzoni, Naples, Italy  
January 7, 1961

Professor Jack Douglas  
Department of Speech  
The University of Oklahoma  
Norman, Oklahoma  
U.S.A.

Dear Professor Douglas:

Your letter of December 16, was forwarded to me here in Italy where I am at present. You are right in presuming that your letter of last <sup>summer/</sup> did not reach me; in travelling about as much as I did it is not surprising.

Your plan for "An Interdisciplinary Symposium in Communication Theory sounds very interesting, and I wish it were possible for me to participate . As it is, I have been away from M.I.T. for eight months and shall have quite a backlog of work awaiting on my return in February. I already have all the outside engagements that I can do justice to in my spare time.

I must therefore regretfully decline to participate. Thanking for the honor of thinking of me and wishing you every success in your project, I remain,

sincerely,

163 Via Manzoni, Naples, Italy  
January 7, 1961

Professor J. M. Keller  
Chairman of the John Franklin Carlson Lecture Fund  
Department of Physics  
Iowa State University of Science and Technology  
Ames, Iowa  
U.S.A.

Dear Professor Keller:

Your letter of December 16, was forwarded to me here in Italy where I am at present. I feel very much honored by your asking me to give the fifth Carlson Lecture this year. and I wish it were possible for me to accept this honor. When I get back to M.I.T. in February, there will be quite a backlog of work awaiting me, as well as the prospect of a number of outside lectures I have already accepted. Under the circumstances it would be quite impossible for me to do justice to the lecture you speak of.

I regret very much this decision and hope that you will understand. With best wishes I remain,

sincerely,

163 Via Manzoni, Naples, Italy  
January 7, 1961

Mr. H. S. Wilson  
Educational Chairman  
Moore Products Company  
H and Lycoming Streets  
Philadelphia 24, Pa.

Dear Mr. Wilson:

I am very much flattered by your letter of December 15, in which you ask if I could address the Chicago Section of the Instrument Society of America at some time during this year. The letter was forwarded to me here in Italy where I am at present. I shall be back at M.I.T. early in February where quite a backlog of work is waiting for me. In addition to that I have already accepted all the outside engagements I shall have time for this year.

I am very sorry to have to say "no" to some of the interesting requests which come my way, but I feel certain that you will understand my reasons. Thanking you again for thinking of me, I remain,

sincerely,

le 9 janvier 1961

M. S. Dockx  
Academie Internationale  
de Philosophie des Sciences  
221, Avenue de Tervueren  
Bruxelles 15, Belgique

Cher Monsieur Dockx:

J'ai recu votre note du 30 decembre 1960 dans laquelle vous faites penser Monsieur le Professeur du bulletin de vote concernant la candidature des trois mathematiciens.

Comme Monsieur Wiener est en Italie jusqu'a Fevrier, il a ete necessaire d'envoyer les documents a Naples. Je suis sure que vous aurez le bulletin dans vos mains bientot.

Veillez agreer, cher Monsieur Dockx, l'assurance de mes sentiments les meilleurs.

Eva-Maria Ritter (Mme),  
Secretaire



163 Via Manzoni, Naples, Italy  
January 9, 1961

Mr. L. J. Good  
58A Warren Road  
Ashford, Middlesex  
England

Dear Mr. Good:

This is rather late to answer your letter of September 30, of last year. I have been travelling in Europe for the past eight months and my mail has been following me all over with some delay, in addition to my falling behind in the answering of it.

Your plan of publishing an anthology of half-baked ideas sounds interesting. I am sorry, but I have nothing to contribute at this time. Best of luck, however.

Sincerely,

163 Via Manzoni, Napoli, Italia  
January 9, 1961

Mr. Z. Jeremic  
Le Journal Technique  
26, Rue du 7 Juillet  
Belgrade, Jugoslavia

Dear Mr. Jeremic:

I am much complimented by your turning to me for an evaluation of cybernetic work. This evaluation, however, I do not wish to make. Where there are so many able people at work in this field the picking out of one name or another in comparison with others is in my opinion invidious. Furthermore, many results are still in the stage of development, and it is unjust to give a written evaluation of them until the work has had a chance to mature.

I am interested in the intellectual developments leading to work in cybernetics, but I do not wish to make a personal judgment of the efforts of others in this field. As to own efforts, I do not wish to rehearse them in the journals in advance of a definitive outcome.

I hope you will understand my point of view. It has nothing to do with your periodical specifically, but represents a general skepticism at which I have arrived concerning the function of scientific journalism in scientific work.

With best wishes, I remain,

sincerely,

163 Via Manzoni, Napoli, Italia  
January 9, 1961

Professor T. Szemeredy  
Dep. Head of the International Relations Section  
Hungarian Academy of Sciences  
V., Roosevelt Ter 9  
Budapest, Hungary

Dear Professor Szemeredy:

Last summer my wife and I had the good fortune to be the guests of the Hungarian Academy of Sciences during the early part of September. I wish to take this opportunity to tell how much we enjoyed our stay in Budapest, our contacts with your scientists, as well as your splendid hospitality.

My reason for sending this belated "Thank You" letter is that I was unable to recall the name of the professor who invited us to Hungary when we met at the automation congress in Moscow in July, so I could write to him personally to thank him and his secretary, Mrs. Schmidt ( Miss Susy) for making our visit such an interesting and rewarding one. His name was of German origin and ended in "man". He had gone to a Black Sea resort during August and had broken his toe there. I hope this will help to identify him. Will you please convey our apologies to him for being so late in thanking him for all his kindness as well as that of Mrs Schmidt.

With best wishes, I remain,

sincerely,

## ВОПРОСЫ ФИЛОСОФИИ

Орган Института философии Академии наук СССР

Издательство „ПРАВДА“

Москва, Волхонка, 14. Телефон Б 8-76-32

[590]

Зак. 3031

10 / 1

196 / 2.

Dear Mr. Wiener,

I was very glad to get your letter and a copy of the article you have enclosed with it. I have already translated the article and it would be published before late (I think in the March number of our journal or earlier). I am sure it will be of the greatest interest to our readers.

Of course we have no objection to your also publishing it elsewhere. But I think would be good if it be provided with a note that the article is originally written for Russian philosophical journal "Voprosy Filosofii" and is to be published there in russian.

I hope most heartily to see you and your wife again in Moscow. Please give my best regards to your wife and my fullest respect.

With very best wishes for the succes of your work in I96I,

Sincercely

*merab Mamardashvili*

Merab Mamardashvili

[ans 1/24/61]

January 10, 1961

Prof. George Backus  
Dept. of Mathematics  
University of California  
La Jolla, Cal.

Dear Prof. Backus:

In Prof. Wiener's absence, I shall take the liberty to answer your inquiry concerning the much talked-about and sought-after "Generalized Harmonic Analysis".

We do not have any reprints of this paper, and the only place I know where to find it is, as you have already discovered, in the Acta Mathematica. I hope you will be able to make photostats, because I can think of no other way to obtain the material.

Sincerely yours,

Eva-Maria Ritter (Mrs.)  
Secretary to Prof. Wiener

January 10, 1961

Dr. J.F. Hart  
Head, Computing and Tabulating Centre  
The University of Western Ontario  
London, Canada

Dear Dr. Hart:

Thank you very much for supplying me with the information I requested, i.e., the date of the lecture Professor Wiener was asked to give, provided he finds it possible to accept your invitation. I shall forward this information to Prof. Wiener so that he may check his calendar, and in the meantime, thanking you for your prompt reply, remain

Sincerely yours,

Eva-Maria Ritter (Mrs.)  
Secretary to Prof. Wiener

January 10, 1961

Mr. Joseph L. Ranft  
Program Manager  
Radio Free Europe  
2 Park Avenue  
New York 16, N.Y.

Dear Mr. Ranft:

Thank you for your letter to Prof. Wiener in which you invite him to state his views on the U.S. science of today, with emphasis on his own field and activities.

Unfortunately, Prof. Wiener is still in Italy where he will be until the beginning of next month, and due to those circumstances, I think you will realize that it is impossible for you to see him at this time.

Sincerely yours,

Eva-Maria Ritter (Mrs.)  
Secretary to Prof. Wiener

January 10, 1961

Dear Prof. and Mrs. Wiener,

Thank you so much for your Christmas card and long letter. I am glad to hear that you are enjoying life, sorry only that it rains so much, but your letter definitely has a cheerful note so I assume that you are not too much bothered by it.

I have just recovered from a second attack of tonsillitis (or a relapse) and regret very much that they were not taken out when I was a child. But -- they must have a reason for growing there, and all I can do at this point, I guess, is to nurse them along. Other than that, I feel fine and shall not bore you any longer with more tales of sickness.

Getting home on the 9th or 10th of February does not leave you much time to get ready for the dinner date on the 11th, as Miss Goodwin reminded me today, and I thought it a good idea to pass the reminder on to you.

Students are already coming in asking questions as to what Prof. Wiener will present in class, etc., but they understand that I do not have an answer.

As to answering and handling your mail, I know that my enthusiasm tends to run away with me at times, but in most cases I do use the form letter I prepared for that purpose and forward all mail to you that I think is vital. However, I do accept the blame for being a little too forward in the case of Dr. Hart of the University of W. Ontario. Just the same, I did it in a manner that could not make him think the invitation was accepted.

As I wrote in my last letter, I plan, as I told you in Hannover, to resume work as Prof. Wiener's secretary when you return, and as it gives me much pleasure, I do it gladly. I doubt that this is the proper place to talk about it, but I want to tell you that since I worked for Prof. Lerner last spring, my rating at M.I.T. has gone up to \$2.25 per hour. I shall leave up to you the decision of whether you wish to increase my hourly wage accordingly or not.

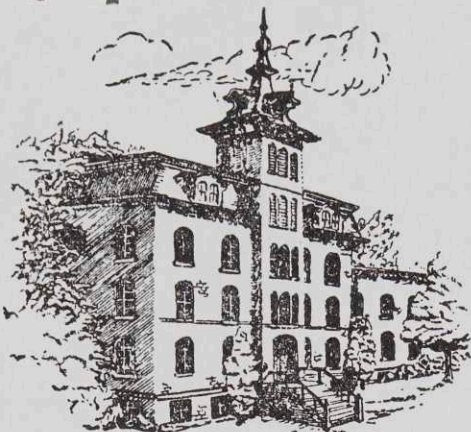
The income tax forms have arrived, but since you decided not to tax Betty Anne's wages, I guess you'll have nothing to declare for the last quarter. I forward it to you along with a few other things in this letter.

Once again my best wishes to both of you! I shall send no mail after Jan. 20 and remain

Sincerely yours,

P.S. Betty Anne's wages amount to \$35.00.  
I thought you should know. E.H.C.





# North Central College

Naperville, Illinois

January 11, 1961

DEPARTMENT OF MATHEMATICS

MARY ANICE SEYBOLD, Ph.D.

CATHERINE S. KAY, M.A.

BEVERLY FERNER SIEG, M.A.

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

Dear Professor Wiener:

I am sure you do not remember me, but I remember meeting you at the International Congress of Mathematics in 1950. I enjoyed your books on Cybernetics and The Human Use of Human Beings and am ordering others for our library. I have volunteered to write to you for the Committee on our Centennial Symposium on Mathematics and Science. We should like to know if you are ever available for very special speeches.

Let me explain our plans. We mean to make this symposium the outstanding event in the intellectual life of our community for the year. On the day of April 27, 1961, we have planned a variety of activities from our own resources. These include a convocation speech for our own students, departmental programs to appeal to alumni and neighboring high schools and colleges, and trips to Argonne National Laboratory. We plan to publicize these activities by a variety of means, long in advance. We wish to give special publicity to the main speech in the evening. We do not yet have a speaker for this speech. We need someone like you, who can, we believe, appeal to a large audience containing both the man in the street and Ph. D.'s from Argonne, and whose background gives us material for our publicity. We should like for this speaker to tie together, to some extent, the four fields of mathematics, physics, biology, and chemistry; although we realize, of course, that they would not all be given the same importance in any one speech.

If you would consider making this speech for us, would you please tell us what fee you would require? This is one of a limited number of similar inquiries, but I assure you that I, personally, should be delighted if this inquiry should lead to an arrangement between you and the committee for this speech which I feel sure you could do so well.

Sincerely yours,

*Anice Seybold*  
(Miss) Anice Seybold

[ans 1/18/61]

Signed petition

AVA HELEN PAULING and LINUS PAULING  
3500 Fairpoint St., Pasadena, California

15 January 1961

Dear Prof. Weiner,

During recent months the international situation has changed in such a way as to increase the danger of war. France has carried out nuclear explosions and other nations too may soon have stockpiles of nuclear weapons. There is discussion of the plan of turning nuclear weapons over to NATO and there exists the possibility that the Warsaw Pact nations would also be given these weapons.

We feel that it is necessary that a vigorous effort be made to prevent these actions, and we have written the Appeal to Stop the Spread of Nuclear Weapons that is reproduced below.

Will you join us in signing this Appeal? We are asking some men and women in every country in the world to sign. We plan to present the Appeal to the United Nations and the various national governments, with the list of names of signers, early in February.

Sincerely yours,

Linus Pauling Ava Helen Pauling

#### AN APPEAL TO STOP THE SPREAD OF NUCLEAR WEAPONS

To the United Nations and to all nations in the world:

We, the men and women whose names are signed below, believe that stockpiles of nuclear weapons should not be allowed to spread to any more nations or groups of nations.

The world is now in great danger. A cataclysmic nuclear war might break out as the result of some terrible accident or of an explosive deterioration in international relations such that even the wisest national leaders would be unable to avert the catastrophe. Universal disarmament has now become the essential basis for life and liberty for all people.

The difficult problem of achieving universal disarmament would become far more difficult if more nations or groups of nations were to come into possession of nuclear weapons. We accordingly urge that the present nuclear powers not transfer nuclear weapons to other nations or groups of nations such as the North Atlantic Treaty Organization or the Warsaw Pact group, that all nations not now possessing these weapons voluntarily refrain from obtaining or developing them, and that the United Nations and all nations increase their efforts to achieve total and universal disarmament with a system of international controls and inspection such as to insure to the greatest possible extent the safety of all nations and all people.

16 January 1961

Dr. Norbert Wiener  
Massachusetts Institute of Technology  
Boston, Massachusetts

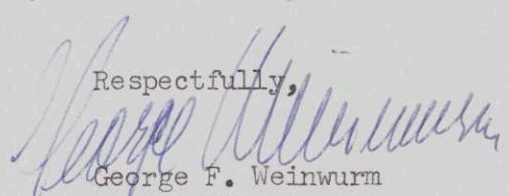
Dear Dr. Wiener,

For some months I have been hearing rather impressive rumors regarding certain of the papers presented at the 1st International Congress for Automatic Control, held in Moscow this past July. Unfortunately, I have been altogether unsuccessful in determining whether the Proceedings of this meeting were ever published, and where to locate them, or even the possibility of obtaining a list of speakers and papers so that I may inquire individually from the authors.

Your talk on that occasion was described to me, so that you are the only attendee who I know by name. In that context I would certainly appreciate any leads you could supply.

Please excuse my troubling you with this minor matter, particularly when we have never met. Thank you in advance for your cooperation,

Respectfully,

  
George F. Weinwurm  
10,250 Wilshire Blvd.  
Los Angeles 24, California

*Since we don't know him,  
should we give out names etc?*

*[and 2/10/61]*

THE FIRST NATIONAL BANK OF BOSTON  
BOSTON 6, MASSACHUSETTS

14273

1/17/61.

Mr. Norbert Wiener, Professor  
Department Of Mathematics Massachusetts  
Of Technology,  
Cambridge 39, Massachusetts.

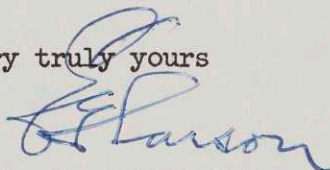
Dear Sir:

We have received instructions from one of our correspondents to pay you a certain sum of money.

At your early convenience will you kindly call at our Milk Street Office, Payments Department, with proper means of identification.

If it is not convenient for you to call at this office, we shall be pleased to complete payment at any one of our other offices.

Very truly yours



Authorized Official

D 1107

[ans 1/18/61]

# The CENTENNIAL REVIEW of Arts & Science

112 MORRILL HALL · MICHIGAN STATE UNIVERSITY · EAST LANSING, MICHIGAN

January 17, 1961

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

Dear Professor Wiener:

A gentle reminder that your paper for the nuclear issue, which you so kindly consented to write, is due March 1.

I do hope that you will be able to get your manuscript done in time, and I look forward to receiving it with the greatest eagerness.

Sincerely yours,

*Herbert Weisinger, no*

Herbert Weisinger  
Editor

HW:uf

[ans 2/17/61]

MEDICAL COLLEGE OF VIRGINIA

MEDICINE DENTISTRY PHARMACY NURSING

RICHMOND, VIRGINIA

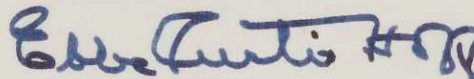
January 18, 1961

Dr. Norbert Wiener  
163 Via Manzoni  
Naples, Italy

Dear Dr. Wiener:

I am sorry that you cannot join us at this time but hope that we may call on you later. Our institution would consider it a great privilege to have you here as a visiting lecturer and we hope that you will indicate to us a time in the following year when you might come.

Cordially yours,



Ebbe Curtis Hoff, Ph.D., M.D.  
Dean  
School of Graduate Studies

ECH/mdk

*sent from Le Mans*

**SIDNEY MARGOLIUS**

74 DAVIS ROAD  
PORT WASHINGTON, N. Y.

January 18, 1961

Dr. Norbert Wiener  
Massachusetts Institute of Technology  
Cambridge, Massachusetts

Dear Dr. Wiener:

The Ladies Home Journal is publishing a new series of articles on American families called HOW AMERICA SPENDS ITS MONEY.

In connection with this series, the editors have asked me to secure statements from a number of prominent citizens who are experienced in the area, on vital questions that affect family finances today.

As an expert on this subject, whose guidance has meant so much to this country, we are most anxious to secure your comment or opinion on this question:

"Will automation release a significant labor force within the next few years? How can this manpower best be used to supply other needs, especially the need for increased construction of schools, hospitals, homes, other community facilities?"

We hope you will consent to giving us a comment on this question. Your comment can be as brief or in any form as you wish. But it would be extremely valuable to the country as a whole if you would give your views on this important question of our time. The magazine is making a rather searching inquiry into spending by American families; your comment will be read with wide interest, and the editors are especially eager to have your statement.

I hope I may hear from you soon, and if you want, can make available any assistance you might like in the preparation of the statement.

With best wishes,

*Sidney Margolius*  
Sidney Margolius

SM/g

January 18, 1961

Cambridge Trust Company  
1336 Mass. Ave  
Cambridge, Mass.

Gentlemen:

In Prof. and Mrs. Wiener's absence, I should like to ask you to apply the enclosed check from Random House to Prof. Wiener's account, and, if you will, send me a note of receipt.

Thank you!

Sincerely yours,

Eva-Maria Ritter (Mrs.)  
Secretary



PLEASE DETACH BEFORE DEPOSITING CHECK

In settlement:

\$245.01

DATE

TERMS

AMOUNT

**RANDOM  
HOUSE**

INCORPORATED  
457 MADISON AVENUE  
NEW YORK, 22

*sent under  
For deposit only*

Less Discount:

%

Balance herewith:

ADVICE OF  
CREDIT

CAMBRIDGE TRUST COMPANY  
CAMBRIDGE, MASS.

Items received for deposit or collection are accepted on the following terms and conditions. This company acts only as depositor's collecting agent and assumes no responsibility beyond its exercise of due care. All items are credited subject to final payment and to receipt of proceeds of final payment in cash or solvent credits by this company at its own office. This company may forward items to correspondents and shall not be liable for default or negligence of correspondents selected with due care nor for losses in transit, and each correspondent shall not be liable except for its own negligence. Items and their proceeds may be handled by any Federal Reserve bank in accordance with applicable Federal Reserve rules, and by this company or any correspondent, in accordance with any common bank usage, with any practice or procedure that a Federal Reserve bank may use or permit another bank to use, or with any other lawful means. This company may charge back, at any time prior to midnight on its business day next following the day of receipt, any item drawn on this company which is ascertained to be drawn against insufficient funds or otherwise not good or payable. An item received after this company's regular afternoon closing hour shall be deemed received the next business day.

DEPOSIT REC'D 1/19/61 \$ 245.01

1-108 Norbert Weiner

Mrs. Eva-Maria Ritter  
Secretary, Dept. of Mathematics  
MIT  
Cambridge 39, Mass.

cjh

January 18, 1961

Mr. E. Larson  
The First National Bank of Boston  
Boston 6, Mass.

Dear Sir:

I have here your notification to Prof. Wiener of a certain sum of money waiting for him at your Milk Street Office.

Prof. Wiener is out of the country at this time, but will be back during the week of February 13. Would it be possible for you to hold the sum until Prof. Wiener's return, or would it be possible to forward it to Prof. and Mrs. Wiener's bank -- the Cambridge Trust Company.

Sincerely yours,

Eva-Maria Ritter (Mrs.)  
Secretary

January 18, 1961

Dr. Mary Anice Seybold  
Department of Mathematics  
North Central College  
Naperville, Ill.

Dear Dr. Seybold:

In Professor Wiener's absence, I should like to thank you for your kind invitation to Professor Wiener to be one of your speakers at your Centennial Symposium on Mathematics and Science.

Unfortunately, Professor Wiener's schedule for the year 1961 is almost complete, and he will not be available throughout the Spring and Summer.

You seem to have a very interesting program! I do hope that you will find a person suitable for it.

Sincerely yours,

Eva-Maria Ritter (Mrs.)  
Secretary to Prof. Wiener

January 18, 1961

Dear Prof. and Mrs. Wiener,

This will be the last mailing of letters etc. before your return to the U.S. There is not much this time, but it is all important, and I hope it reaches you soon.

I imagine you are beginning to pack now, and in the process of "pulling up stakes" (as one says) once again. Taking leave of people and a country you have learned to love and respect is never easy, but if anyone is expert in it, it will be you, for you have done it many times.

Here things go along as usual. MIT is a busy place and so are its people. For me, it is a welcome change to come in and work at least a few hours each week. Well, very soon I won't have to complain about not having enough to do. There will be more than enough.

I am forwarding today the galley proofs of your talk in Hannover. As it seems to be urgent, it should be sent along soon. There are also two letters and a withholding tax statement.-- Today we received also your royalties statement from Random House plus their check for \$245.01 which I forwarded to the Cambridge Trust Company with the notation "for deposit only" so it won't get lost. There was also a message from the First National Bank of Boston reading that a sum of money was waiting for you there pending proper identification. I have asked them to either hold it until you return or to forward it to your bank if that is possible. I hope I did the right thing.

Nothing else is new, and as I still have more books to clear off your desk, I think I'll go back to work--but not before wishing you the very best for the remaining weeks and, most of all, a pleasant and safe journey home!

7012 Waterman Avenue  
University City 30, Missouri  
January 19, 1961

Dr. Norbert Wiener  
c/o Massachusetts Institute of Technology  
Boston, Massachusetts

Dear Dr. Wiener:

I cannot begin to say how much I have gotten out of your writings, "Human Use of Human Beings," "Ex-Prodigy," "I Am a Mathematician," and "The Tempter." After first simply knowing you were the inventor of the first lightning calculator it was wonderful to find your clear understanding of social factors too. Years ago, in Chicago right almost under the shadow of the atomic experiments there, I looked around and decided that we were headed toward chaos if we did not change our ways, and wrote and for a few years sent out for publishing from time to time two things: my own science fiction of destruction from an atomic weapon that disintegrated everybody out of their shoes, leaving the physical world fairly intact for the few survivors to live in as naturally as they could once they were over the shock, and the further shocks of their chance-coming-upon empty shoes in unexpected places. I pictured my survivors as trying to live as examples to those to come after them. And my second writing was an outline of how we could now actually get along well, mainly involving techniques for adults to be educated and to keep educated and up on what was going on so that each could keep a certain self-dominion in the face of definite need for cooperation and coordination that would be regimentation without good-will. That was in 1938. I visited Dr. Bertrand Russell's classroom one day.

Really getting the idea from my studies, a simple course, "Invitation to Philosophy," by correspondence at the University of Chicago, that mechanics could be perfected to do human work, I have since developed my own social equation. If you could tell me that it is or that it is not basically correct? It is completely simple.

A stands for Automation. W stands for Work. Out of any group of people, traditionally industrialized or newly industrialized, of every 100 people with perfected automation industry there would be employment for only 5 at employment as we have traditionally visualized it.

$$\text{Equation: } AW = 100 - 95 = 5.$$

To make life meaningful something new must be added, and that I simply call "Teaching" including all the possible manners of education -- by public relations, advertising, window decoration, teaching according to the proven effective methods now too expensive for general use, by, simply, all the possible manners of education -- The something new, Teaching, to enter the equation as "T"

Equation:  $TAW = 100$ . ---- employment with automation plus "teaching" meaning employment for all.

Today's column, or rather, Monday, January 16th, column regarding

*Christian Science Monitor*

Boston, and the general interest of the people in the improvement of the city, "A City Stirs" By Michael Liuzzi, on the Editorial page sparked this letter to you because in about the center of the article it says:

"...With its impressive concentration of universities, technological centers, and research companies, perhaps Boston will come up with the economic techniques needed to carry through on such a program."

Interested in your "The Tempter," in the search for a way Immediately to find a way to make an invention profitable I gave my own thoughts more fruitful direction for that immediacy. And happy to find your advertising man, (was not his name Peterson?) liking cheer leading approaches to build up good desires, happy because I think the cheer leader approach can build up the good motives we need today, and I didn't think you would have your character day that if you did not think so too.

So, the economic techniques that we can begin to use right now, seem to me to be: the volunteering on company time to vital work and accomplishment in the education, social service, and even business fields, of things that there is not enough of the traditional medium of exchange to do.

There was a snow this morning, and my husband and I left home especially early, and I had the office to myself for 45 minutes, but my time for the 8-hour concentration to duty has begun, these few added moments being sort of "contributed time from my office to Boston!"

I have learned that there is really good precedent for volunteering by companies and employees on company time to doing good works that without the volunteering are impossible.

I am going to repeat my equations, and see how they work out with R. Buckminster Fuller's substitute mark for the equal sign -- sort of inferring the interrelations of one to another, as I gathered it from my vacation reading of his "Nine Chains to the Moon." Maybe you know Dr. Fuller.

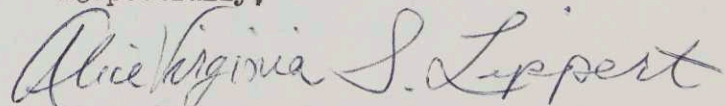
Don't you think that volunteered time with a cheer-leader approach build-up could meet not only Boston's problems but those of the entire world?

AW  $\times$  100-95  $\times$  5 employment for only 5 in a 100.

TAW  $\times$  100 Full employment

If you feel that the implications of that series of equations" has proper elements of effectiveness to them, could you possibly write to me and let me know. I am employed as "Control Clerk," in Region 6, Federal Mediation and Conciliation Service.

Respectfully,



Alice Virginia S. Lippert

(Mrs. R. J. G. Lippert)



**SPRINGER-VERLAG**  
BERLIN · GÖTTINGEN · HEIDELBERG

*Geschäftsinhaber:* FERDINAND SPRINGER, *Dr. med. h. c. Dr. phil. h. c.*  
JULIUS SPRINGER, *Dr. Ing. e. h.* · TONJES LANGE, *Dr. med. h. c.* · HEINZ GÖTZE, *Dr. phil.*

(17a) HEIDELBERG, den 20. 1. 61  
Neuenheimer Landstraße 23-30 K/gra  
Telefon 279 01

Herrn  
Professor Dr. Norbert Wiener

Cambridge 39/Mass.

Mass. Inst. of Technology  
Department of Mathematics

Sehr geehrter Herr Professor!

In Ihrer Eigenschaft als Mitherausgeber wird Ihnen in den nächsten Tagen unmittelbar von der Universitäts-Druckerei H. Stürtz, Würzburg, das erste Heft der Zeitschrift "Kybernetik" zugehen, für freundliche Entgegennahme wären wir Ihnen dankbar.

Dürfen wir bei dieser Gelegenheit um Unterstützung durch Überlassung geeigneter Arbeiten aus Ihrem Institut bzw. aus Ihrem Arbeitskreis bitten?

Mit verbindlichem Dank im voraus und

besten Empfehlungen  
Ihr sehr ergebener

SPRINGER-VERLAG

ppa.



# KYBERNETIK

*Zeitschrift für Nachrichtenübertragung, Nachrichtenverarbeitung  
Steuerung und Regelung im Organismus und in Automaten*

*A Journal Dealing with the Transmission and Processing of Information  
as well as with Control Processes in Both Organisms and Automata*

HERAUSGEGEBEN VON · EDITED BY

H. B. BARLOW, CAMBRIDGE/ENGLAND · M. HALLE, CAMBRIDGE/MASS.  
B. HASSENSTEIN, FREIBURG i. Br. · W. D. KEIDEL, ERLANGEN  
I. KOHLER, INNSBRUCK · K. KUPFMÜLLER, DARMSTADT  
H. MITTELSTAEDT, SEEWIESEN/OBB. · W. REICHARDT, TÜBINGEN  
W. A. ROSENBLITH, CAMBRIDGE/MASS. · J. F. SCHOUTEN, EINDHOVEN  
M. SCHUTZENBERGER, POITIERS · K. STEINBUCH, KARLSRUHE  
N. WIENER, CAMBRIDGE/MASS.



SPRINGER-VERLAG · BERLIN · GÖTTINGEN · HEIDELBERG

Die Begriffe Nachrichtenübertragung, Nachrichtenverarbeitung, Steuerung und Regelung sind im Bereich der Technik und Physik entstanden. Sie werden aber heute nicht nur in der Nachrichtentechnik und Automatisierungstechnik angewendet, sondern auch im biologischen Bereich. Denkverfahren, wissenschaftliche Erkenntnisse und mathematische Methoden aus diesen physikalisch-technischen Gebieten lassen sich vielfach auf Vorgänge im Organismus übertragen. Ihre Anwendung auf Probleme der Rezeptor- und Nervenphysiologie hat zu neuen Erkenntnissen über die im Organismus verwirklichten nachrichtentechnischen Prinzipien geführt. Umgekehrt zeigt sich ein wachsendes Interesse der Technik, Physik und Ingenieurwissenschaften an den Vorgängen der Nachrichtenübertragung, -verarbeitung, Steuerung und Regelung im lebenden Organismus. Die bessere Erkenntnis solcher Vorgänge kann wichtige Hinweise auch über technische Möglichkeiten geben, wie z. B. bei der Frage nach dem Wesen des Lernens.

Die Zeitschrift für Kybernetik soll diesen Erfahrungsaustausch fördern, indem sie besonders folgende Gebiete pflegen will: Informations- und Systemtheorie, Steuerungs- und Regelungstheorie, wissenschaftliche Grundlagen und grundsätzliche Verfahren der Nachrichtenverarbeitung, experimentelle Ergebnisse der Rezeptorphysiologie und der Nervenphysiologie im Hinblick auf die Nachrichtenverarbeitung und -übertragung; Steuerung und Regelung im Organismus; Verhalten von Organismen und Gruppen von Organismen bei Aufgaben der Nachrichtenübertragung und -verarbeitung; Nachrichtenverarbeitung durch den Menschen; Modelle für die Nachrichtenübertragung und -verarbeitung im Organismus.

The concepts of transmission of information, processing of information and automatic control engineering originated within technology and physics. Today, however, these concepts have also found application in the biological sciences. The logical procedures, the methods of experimental and theoretical approaches and the mathematical techniques that are applicable to the physical sciences can often be successfully transferred to the realm of the life sciences. By applying those techniques to sensory and neurophysiological problems new insight has been gained into the principles by means of which organisms handle information. Conversely, physicists and engineers have shown increasing concern for the mechanisms that organisms have evolved in the areas of communication and control. The understanding of these mechanisms may have significant technological consequences as, for instance, in relation to the nature of learning process.

»Kybernetik« would like to cultivate experimental and theoretical findings in the following fields: Information theory; theory of automata; theory of control systems; mathematical foundations of communication theory; sensory processes and micro- and macrophysiology of the central-nervous-system in relation to information handling; information handling by organisms (incl. man) and taskoriented groups; mathematical models for communication and control processes in organisms.

# KYBERNETIK *Erscheint seit Januar 1961 · Published since January 1961*

**BAND I · HEFT 1** 72 Abbildungen. 56 Seiten (davon 9 Seiten in englischer Sprache)  
DIN A 4. 1961. DM 12,80  
72 figures. 56 pages (including 9 pages in English) 21 × 29,7 cm. 1961.  
DM 12,80

## *Inhalt · Contents*

Über die Nachrichtenverarbeitung in der Nervenzelle.  
Von K. KÜPFMÜLLER und F. JENIK, Darmstadt.

Die Lichtreaktionen von *Phycomyces*.  
Von W. REICHARDT, Tübingen.

Schwingungsanalyse der vestibulär, optokinetisch und durch elektrische Reizung ausgelösten Augenbewegungen beim Menschen; 1. Mitt.: Stetige Augenbewegungen: Frequenzgänge und Ortskurven.  
Von D. TRINCKER, J. SIEBER, Erlangen und J. BARTUAL, Valencia z. Zt. Erlangen.

Der sogenannte „innere“ Regelkreis der Willkürbewegung.  
Von G. VOSSIUS, Frankfurt/Main.

Über die Erkennungszeit beim Lesen.  
Von Dr. F. WENZEL, Darmstadt.

Die Lernmatrix.  
Von K. STEINBUCH, Karlsruhe.

Letter constraints within words in printed English.  
By D. H. CARSON, Baltimore/Md.

Postkarte

An die Buchhandlung \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Reflex“.

ing nach Maßgabe  
e in deutscher und  
ür 1961: DM 80,—  
ually priced num-  
man and English.  
or 1961: DM 80,—

Die Begriffe Nachrichtenübertragung, Nachrichtenverarbeitung, Steuerung und Regelung sind im Bereich der Technik und Physik entstanden. Sie werden aber heute nicht nur in der Nachrichtentechnik und Automatisierungstechnik angewendet, sondern auch im biologischen Bereich. Denkverfahren, wissenschaftliche Erkenntnisse und mathematische Methoden aus diesen physikalisch-technischen Gebieten lassen sich vielfach auf Vorgänge im Organismus übertragen. Ihre Anwendung auf Probleme der Rezeptor- und Nervenphysiologie hat zu neuen Erkenntnissen über die im Organismus verwirklichten nachrichtentechnischen Prinzipien geführt. Umgekehrt zeigt sich ein wachsendes Interesse der Technik, Physik und Ingenieurwissenschaften an den Vorgängen der Nachrichtenübertragung, -verarbeitung, Steuerung und Regelung im lebenden Organismus. Die bessere Erkenntnis solcher Vorgänge kann wichtige Hinweise auch über technische Möglichkeiten geben, wie z. B. bei der Frage nach dem Wesen des Lernens.

Die Zeitschrift für Kybernetik soll diesen Erfahrungsaustausch fördern, indem sie besonders folgende Gebiete pflegen will: Informations- und Systemtheorie, Steuerungs- und Regelungstheorie, wissenschaftliche Grundlagen und grundsätzliche Verfahren der Nachrichtenverarbeitung, experimentelle Ergebnisse der Rezeptorphysiologie und der Nervenphysiologie im Hinblick auf die Nachrichtenverarbeitung und -übertragung; Steuerung und Regelung im Organismus; Verhalten von Organismen und Gruppen von Organismen bei Aufgaben der Nachrichtenübertragung und -verarbeitung; Nachrichtenverarbeitung durch den Menschen; Modelle für die Nachrichtenübertragung und -verarbeitung im Organismus.

The concepts of transmission of information, processing of information and automatic control engineering originated within technology and physics. Today, however, these concepts have also found application in the biological sciences. The logical procedures, the methods of experimental and theoretical approaches and the mathematical techniques that are applicable to the physical sciences can often be successfully transferred to the realm of the life sciences. By applying those techniques to sensory and neurophysiological problems new insight has been gained into the principles of those processes which organisms have in common. Conversely, physicists are interested in the biological mechanisms of those processes which have a relation to the natural sciences. The term »Kybernetik« would be used in the following fields: Information theory, foundations of communication theory, the central-nervous system of organisms (incl. man) and control processes.

*Ich bestelle hiermit | Please send:*

**KYBERNETIK**

\_\_\_\_\_ *Expl. Band 1, Heft 1 (DM 12,80) und Fortsetzung*

\_\_\_\_\_ *Copy | Copies Volume 1, Number 1 (DM 12,80) and Continuation*

(SPRINGER-VERLAG · BERLIN · GÖTTINGEN · HEIDELBERG)

*Name*

*Genauere Adresse  
Full Address*

*Datum  
Date*

*Unterschrift  
Signature*

# KYBERNETIK *Erscheint seit Januar 1961 · Published since January 1961*

**BAND I · HEFT 1** 72 Abbildungen. 56 Seiten (davon 9 Seiten in englischer Sprache)  
DIN A 4. 1961. DM 12,80  
72 figures. 56 pages (including 9 pages in English) 21 × 29,7 cm. 1961.  
DM 12,80

## *Inhalt · Contents*

Über die Nachrichtenverarbeitung in der Nervenzelle.

Von K. KÜPFMÜLLER und F. JENIK, Darmstadt.

Die Lichtreaktionen von *Phycomyces*.

Von W. REICHARDT, Tübingen.

Schwingungsanalyse der vestibulär, optokinetisch und durch elektrische Reizung ausgelösten Augenbewegungen beim Menschen; 1. Mitt.: Stetige Augenbewegungen: Frequenzgänge und Ortskurven.  
Von D. TRINCKER, J. SIEBER, Erlangen und J. BARTUAL, Valencia  
z. Zt. Erlangen.

Der sogenannte „innere“ Regelkreis der Willkürbewegung.

Von G. VOSSIUS, Frankfurt/Main.

Über die Erkennungszeit beim Lesen.

Von Dr. F. WENZEL, Darmstadt.

Die Lernmatrix.

Von K. STEINBUCH, Karlsruhe.

Letter constraints within words in printed English.

By D. H. CARSON, Baltimore/Md.

Pawlow und sein Hund —

Ein Demonstrationsmodell für den „bedingten Reflex“.

Von I. KOHLER, Innsbruck.

Die Zeitschrift erscheint zur Ermöglichung raschster Veröffentlichung nach Maßgabe des eingehenden Materials in einzeln berechneten Heften. Beiträge in deutscher und englischer Sprache. Maximal-Preis für 1961: DM 80,—

The journal appears for the quickest possible publication in individually priced numbers struck off as the material reaches the press. Contributions in German and English. Maximum price for 1961: DM 80,—

# DIE NATURWISSENSCHAFTEN

Organ der Max Planck-Gesellschaft zur Förderung der Wissenschaften  
Organ der Gesellschaft Deutscher Naturforscher und Ärzte  
Begründet 1913 von A. Berliner und C. Thesing

Unter besonderer Mitwirkung von Erich v. Holst  
herausgegeben von Ernst Laml

In den nächsten Heften der „Naturwissenschaften“ werden u. a. folgende auf der Tagung der Gesellschaft Deutscher Naturforscher und Ärzte im Herbst 1960 in Hannover gehaltenen Vorträge veröffentlicht, die sich mit Problemen der Informationstheorie, Nachrichtenübertragung und Regelung befassen:

N. Wiener

*Informationstheorie*

K. Küpfmüller

*Nachrichtenübertragung und Nachrichtenverarbeitung*

W. Oppelt

*Technik der Steuerung und Regelung*

B. van der Waerden

*Pollenkörner, Punktverteilungen auf der Kugel und Informationstheorie*

B. Hassenstein

*Wie sehen Insekten Bewegungen?*

R. Wagner

*Rückkoppelung und Regelung: Ein Urprinzip des Lebenden*

H. Mittelstaedt

*Die Regelungstheorie als methodisches Werkzeug der Verhaltensanalyse*

J. Stegemann

*Die Regelung der retinalen Beleuchtungsstärke*

I. Kohler

*Zentralnervöse Korrekturen an der Wahrnehmung*

W. D. Keidel

*Grenzen der Übertragbarkeit der Regelungslehre auf biologische Probleme*

DIE NATURWISSENSCHAFTEN erscheinen zweimal monatlich; Jahresbezugspreis DM 60,—.  
(Für Studierende der Naturwissenschaften ermäßigt sich der Bezugspreis auf jährlich DM 48,—)

DIE NATURWISSENSCHAFTEN appear twice a month; DM 60,— per annum.

---

SPRINGER-VERLAG · BERLIN · GOTTINGEN · HEIDELBERG

Zu beziehen durch / Obtainable by

THE FIRST NATIONAL BANK OF BOSTON  
BOSTON 6, MASSACHUSETTS

INTERNATIONAL DIVISION

January 23, 1961

Mrs. Eva-Maria Ritter  
Secretary to Professor Norbert Wiener  
Massachusetts Institute of Technology  
Department of Mathematics  
Cambridge 39, Massachusetts

Dear Mrs. Ritter:

We thank you for yours of January 18, 1961, in reply to ours of January 17, 1961, with reference to funds we had received for Professor Wiener. In accordance with your suggestion, we have been pleased to forward the funds to the Cambridge Trust Company for credit to Professor and Mrs. Wiener's account.

Very truly yours



G. E. Barker  
Authorized Official

2009 S. Bryant  
Minneapolis 5, Minnesota

Jan. 23, 1960

[1961]

Professor Norbert Wiener  
Massachusetts Institute of Technology  
Cambridge, Mass.

Dear Sir:

I've been reading your splendid book "The Human Use of Human Beings" in connection with a series of articles that I am preparing on the subject of automation in the Soviet Union -- including corollary subjects like econometrics, linear programming, and so on. Being a poor student of mathematics, like too many of my colleagues, I found your book very helpful in grasping basic concepts.

I had not thought to write you in connection with my series, but today I felt the urge to ask you about something else.

Your description of the increasing entropy of the world around us and the tendency for information, that is messages, to undergo increasing entropy, was most intriguing to me.

I could not help but think of myself, a newspaperman, and all my colleagues, as particular victims of this tendency. Despite the blandishments of editors to make stories readable and interesting, most reporters I know are quite skeptical as to whether the information (message) they are trying to convey ever gets through. Having written for the past two years on such "heavy" topics as Soviet policy and eastern European affairs, I am even more skeptical about the amount of information I actually get across -- no matter how good or bad my writing is. We are well aware that the comics, sports pages and advice to the lovelorn columns are the only ones widely followed.

I am wondering now whether editors and publishers in this country have considered newspapering from the point of view of cybernetics and information theory. Aside from reader surveys I think not.

It seems to me that we in newspapers who generate all this daily information (that is to say gather it) and then transmit it as 32-page messages are only doing part of the job. Except for the occasional letter to the editor there is little knowledge of whether the message was received.

Because I have a strong personal commitment to newspapers, and because I feel that we Americans are in a grave period of our national life I am concerned that our press do the best possible job of transmitting information.

I am writing now to ask if you had thought of newspapers in terms of cybernetics and to ask if you had some ideas on more effective means of communication in them -- especially of the two-way variety. The only thing that occurs to me is some action in the education system.

Perhaps these are naive thoughts. If so, please ignore them. I do not have a scientific mind, but I would be interested in your comments if you have the time and desire to make them.

Sincerely, David Binder

(David Binder) [and 2/10/61]





**SPRINGER-VERLAG**  
BERLIN · GÜTTINGEN · HEIDELBERG

*Geschäftsinhaber: FERDINAND SPRINGER, Dr. med. h. c. Dr. phil. h. c.  
JULIUS SPRINGER, Dr. Ing. e. h. · TONJES LANGE, Dr. med. h. c. · HEINZ GÜTZE, Dr. phil.*

Herrn  
Prof. Dr. N. Wiener  
Mass. Inst. of Technology  
Dept. of Mathematics  
C a m b r i d g e 3 9  
Mass. / U S A

(17a) HEIDELBERG, den 24.1.61 ig  
Neuenheimer Landstraße 28-30  
Telefon 27901

Betr.: Prospekt "Kybernetik"

Sehr geehrter Herr Professor!

Der Prospekt für die Zeitschrift "Kybernetik" ist jetzt fertiggestellt worden. Er wurde in einer Auflage von 89 900 Stück gedruckt.

Wir erlauben uns, Ihnen mit gleicher Post einige Exemplare zu übersenden. Weitere stehen Ihnen auf Wunsch gern zur Verfügung.

Mit den besten Empfehlungen  
Ihr sehr ergebener

**SPRINGER-VERLAG**

I. Vollm.



**SPRINGER-VERLAG**  
BERLIN · GÜTTINGEN · HEIDELBERG

*Geschäftsinhaber: FERDINAND SPRINGER, Dr. med. h. c. Dr. phil. h. c.*  
*JULIUS SPRINGER, Dr. Ing. e. h. · TONJES LANGE, Dr. med. h. c. · HEINZ GÜTZE, Dr. phil.*

Dr. Heinz Götze

Herrn

(17a) HEIDELBERG, den 24. Januar 1961  
Neuenheimer Landstraße 28-30  
Telefon 27901

Gtz/Jr.

Professor Dr. N. Wiener

Massachusetts Institute of Technology  
Department of Mathematics

Cambridge 39/Mass.

USA

Sehr geehrter Herr Professor Wiener,

Sie werden inzwischen das erste Heft "Kybernetik" erhalten haben. Wir hoffen, dass Inhalt und Ausstattung Ihren Beifall finden.

Wir rechnen fest mit Ihrer aktiven Mithilfe bei der Gestaltung der Zeitschrift und verbleiben

mit verbindlichen Empfehlungen

Ihr sehr ergebener

DB

[ ans 3/3/61 ]

January 24

1

Dear Prof. Mamardashvili,

Many thanks for your letter of the 10th. I am delighted at your cordial acceptance of my article and I shall follow your instructions as to the credit to be given to your Journal in any republication of this article elsewhere. I have already handed a copy to Professor Caianiello for translation into Italian together with a copy of your letter. I am leaving it to Professor Caianiello to determine the place of publication in Italy.

With cordial recollection of our stay in Moscow and in the hope of seeing you again either in Moscow or in the United States,

I remain,

Sincerely yours,

Prof. N. Wiener

NB:amh

24/1/1961

Redaktion der Naturwissenschaftler  
(20b) Gottingen, Jennerstr. 21  
GERMANY

Gentlemen,

I have just received the proof sheets of my article from my secretary in the States and I have made the final corrections. As the corrections are at the end of the paragraph you will have no difficulty in the composition.

Many thanks for printing my article.

Sincerely yours,

Prof. N. Wiener

NB: amh

January 24, 1961

Dr. Harley C. Shands  
Dept. of Psychiatry  
Faculty of Medicine  
University of North Carolina  
Chapel Hill, N.C.

Dear Dr. Shands:

In Professor Wiener's absence, I should like to thank you for having a copy of "Thinking and Psychotherapy" sent to him. I am certain he will appreciate it.

Sincerely yours,

Eva-Maria Ritter  
Secretary to Prof. Wiener

" SCIENTIA "

Asso, 25 Janvier 1961

Via Roncaglia, 4 - ASSO (Como)

Cher Monsieur,

je vous prie vivement de m'excuser si je viens à nouveaux vous déranger, mais j'espère que vous disposerez maintenant, ou prochainement, de quelque moment de loisir pour rédiger l'article pour "Scientia" que vos occupations vous ont empêché d'écrire il y a quelque mois. Vous savez combien nous tenons à votre éminente collaboration et combien nous vous serons reconnaissants si vous voudrez satisfaire notre très vif désir d'avoir au plus tôt votre manuscrit. Puis-je y compter? Je vous serais très obligé si vous pouviez me tranquilliser à ce sujet.

Dans l'attente de votre réponse, je vous renouvelle, cher Monsieur, l'expression de mes sentiments les plus distingués et les plus cordiaux.

p. "SCIENTIA",



Eter

[ans 3/13/61]

(Dott. Paolo Bonetti)

# " SCIENTIA "

Rivista internazionale di sintesi scientifica  
Revue internationale de synthèse scientifique  
International Review of scientific synthesis  
Internat. Zeitschrift für wissenschaftliche Synthese  
Revista internacional de síntesis científica

Via Roncaglia, 4 - ASSO  
(Como)

NICOLA ZANICHELLI, Bologna

HERMANN & C.ie, Paris

ATLAS PUBL. & DISTR. Co. Ltd, London

STECHELT-HAFNER Inc., New York

H. BOUVIER u. Co., Bonn a/Rh.

VERLAG GEROLD & Co., Wien

LIBRAIRIE PAYOT, S. A., Lausanne

J. VILLEGAS, Madrid

FERNANDO MACHADO & C.ia, Porto

THE MARUZEN Co., Tokyo

En cas d'insuffisance d'adresse prière de renvoyer a  
"SCIENTIA,, Via Roncaglia, 4 - Asso  
(Como Italie)

CARTOLINA POSTALE

PROF. R. WIENER

Massachusetts Institute  
of Technology

Department of Mathematics

CAMBRIDGE-39

(Mass., U.S.A.)

25/1/1961

Redaktion der Naturwissenschaftler  
(20b) Gottingen, Jennerstr. 21  
GERMANY

Gentlemen,

I regret to find that I forgotten to send you with  
the proof the cut included here. I think this completes every-  
thing I have to do.

Sincerely yours,

Prof. N. Wiener



January 26, 1961

Sir Charles Percy Snow  
Department of English  
University of California  
Berkeley 4, California

Dear Sir Charles:

It gives me pleasure to inform you that Dean Howard W. Johnson will preside at your session of the MIT Centennial Lecture Series on May 5, and that Profs. Elting E. Morison and Norbert Wiener will be discussants. For the benefit of these people and myself, I would appreciate receiving four copies of your paper by April 10. This need not be the final version for the later volume, but should be a reasonably accurate account of your talk. If it is inconvenient for you to make four copies, please send me as many as you can and I shall see that the rest are reproduced quickly and distributed.

We are planning a dinner for participants and friends at the MIT Faculty Club the evening of your talk, cocktails to begin at 5:30 p.m. Please let me know if there is anyone in this area whom you would particularly like me to invite.

Sincerely,

Martin Greenberger  
Lecture Series Chairman

cc:H.W. Johnson, MIT  
E.E. Morison, MIT  
✓ Norbert Wiener, ~~Naples, Italy~~ MIT

MG:cb

IN CASE COPY SENT  
TO ITALY MISSED YOU

-MG

You are  
invited, of  
course, RSN

-MG

1700 Main Street  
Santa Monica, Calif.  
January 27, 1961

Dear Dr. Weiner

I am taking the liberty of asking you  
for a formal recommendation to M.I.T. next fall.  
I am very anxious to attend and to work  
with you. I will definitely come if M.I.T.  
accepts me. Thank you for your help and  
frequent correspondence in my behalf.

Yours truly  
Michael Marcus

Scat letter of recommendation  
to Grad. School through Ted Martin's  
office.

**SPRINGER-VERLAG**  
BERLIN · GÖTTINGEN · HEIDELBERG

(20b) GÖTTINGEN, den  
Weender Straße 60  
Telefon 57153

27.1.1961

Herrn  
Prof. Dr. Wiener  
Department of Mathematics  
Massachusetts Inst. of Technology

Cambridge 39, Mass., USA  
=====

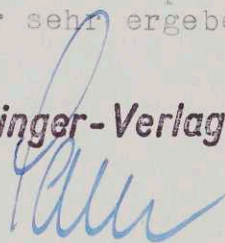
Sehr geehrter Herr Professor Wiener !

Am 30.12. übersandten wir Ihnen die Photokopie der Abbildung 1 zu Ihrer Arbeit "Über Informationstheorie" in den "Naturwissenschaften". Wir wären für Prüfung und umgehende Rückgabe sehr dankbar.

Mit besten Empfehlungen  
Ihr sehr ergebener

**Springer-Verlag OHG.**

ppa.



PURDUE UNIVERSITY  
SCHOOL OF ELECTRICAL ENGINEERING  
LAFAYETTE, INDIANA

Jan. 30, 1961

Prof. Norbert Wiener  
Dept. of Mathematics  
Mass. Inst. of Tech.  
Cambridge 39, Mass.

Dear Prof. Wiener,

I assume that you have now returned from Europe, and trust that you have had a pleasant and profitable stay.

I enclose ten copies of the brochure for our forthcoming symposium, at which you will be one of the speakers. You may wish to distribute these to interested people. I would be pleased to send you more of them if you wish.

I also enclose a form requesting information as to aids you will need in your talk, and information as to housing accommodations. I hope you will be able to bring Mrs. Wiener with you. I have outlined to Miss Sargent, your secretary, in a letter dated Nov. 23, the transportation situation, and would appreciate knowing your decision as soon as it is convenient. Meanwhile, if you could fill out the form and return it to me, this would permit us to make some of the necessary arrangements.

Very truly yours,

*Robert E. Machol*  
Robert E. Machol

Teleph. Lafayette 92-4058  
GI 92-2607

[ans 3/29/61]



Norman Vincent Timewell  
Lecturer in English Studies

Germersheim/Rhein  
(Germany)  
Hertlingstrasse 9  
Tel. No. 454

30th January, 1961

Professor N. Wiener,  
Harvard University,  
CAMBRIDGE, Mass.,  
U.S.A.

Dear Professor Wiener,

I recently came across a reference to the fact that you gave one of the main addresses at the meeting of the Gesellschaft Deutscher Naturforscher und Ärzte last September. I understand the topic of this meeting was cybernetics.

I myself am very interested in this particular subject and am preparing a lecture on it for some of my students at this University (Mainz). If you should have the English manuscript of your talk, I should be most grateful to you if you could let me have it for a week or two, because I am certain I could obtain valuable information from it. The same applies to any technical literature you might happen to have available - if you could give me a hint on sources, I would try to make my own arrangements to save you the trouble. I know this is rather a lot to ask but I hope you will understand my difficulty in laying hands on literature in English on so specialized a subject over here.

I assure you that anything you may care to send will be returned to you promptly. Should there be anything I can ever do for you over here, please do not hesitate to let me know - I should be delighted to be of service to you.

Yours faithfully,



[ans 2/17/61]

ROBERT L. MARCUS, M. D.  
50 WEST 96TH STREET  
NEW YORK 25, N. Y.  
MONUMENT 3-5858

January 31, 1961

Dr. Norbert Wiener  
Professor of Mathematics  
Massachusetts Institute of Technology  
Boston, Massachusetts

Dear Dr. Wiener:

I would be interested to know whether you might be interested in the application of cybernetic principles to Freud's psychoanalytic theories. While such application may sound farfetched because of the commonly held belief that Freud's theories are purely psychological, I feel that there is good reason to believe otherwise.

To begin with it was Freud's conviction that analytic concepts were the manifestation of the basically physiological instinctual processes. According to my understanding these instinctual processes are the manifestation of the neural network functioning as a complex control system. Being in full agreement with your statement that the brain's output is information and not energy in the physicist's meaning of the word, the question arises as to the meaning and significance of the concept of "psychic energy" or of Freud's libido. Agreeing that it can have no direct relation to physical energy, and at the same time being fully convinced of the meaningfulness and importance of the concepts of psychic energy and libido, I feel that only one conclusion is possible. Namely that "psychic energy" or libido is a property of communication machines when they reach the order of complexity of the human brain. I do not feel that I could be any more successful than Freud and others have been in removing the skepticism about libido theory by the means of accumulating further psychiatric data. However, it is clear to me that the concept betrays a physical property and a communication property of complex neural networks that cybernetics could further elucidate.

My point of view may be further clarified by my saying that to me psychoanalytic theory and concepts represent the properties of a "black box". Psychoanalysis gives us an enormously detailed understanding of the functioning of this black box. As a result once we are able to understand that these analytic concepts are manifestations of control principles, we will have a powerful tool at our disposal in order to understand the control system represented by the brain, and complex control systems in general.

ROBERT L. MARCUS, M. D.  
50 WEST 96TH STREET  
NEW YORK 25, N. Y.  
MONUMENT 3-5858

I have prepared two introductory papers for publication dealing with some aspects of these matters entitled "The Nature of Instinct and The Physical Bases of Libido". Although a good deal more preparatory work is necessary in terms of developing an initial understanding of the cybernetic significance of psychoanalytic concepts, collaboration with mathematics would be essential in order to delineate more concretely the contribution that psychoanalytic theory can make to an understanding of the complex control system inherent in the brain.

I understand that you may not have the time or inclination to interest yourself in this area of investigation, or may not share my enthusiasm or conviction that psychoanalytic concepts harbor important clues as to the nature of extraordinarily complex control systems. However, I did feel that it would be worthwhile to share these thoughts with you in the hope that your interest may be aroused, and I do wish to express my appreciation for your attentions.

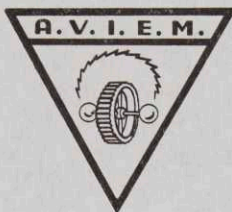
Sincerely yours,

*Robert L. Marcus*

Robert L. Marcus, M. D.

[ans 2/15/67]





ASOCIACION VENEZOLANA DE INGENIEROS ELECTRICOS Y MECANICOS

APARTADO 6255  
CARACAS - VENEZUELA

TELEFS. 55 69 92 }  
54 56 94 } EXTENSION 93

Caracas, 31st of January 1961

No. 892 \_\_\_\_\_

Dr. Robert Wiener  
Dept. of Mathematics  
Massachusetts Institute of Technology  
Cambridge Massachusetts

Dear Dr. Wiener,

We very much thank you for your letter of November 24th regarding our invitation to come to our Colegio de Ingenieros 100th anniversary commemoration.

We sincerely regret that due to your previous engagements you are not in a position to accept our invitation. Nevertheless, if by any chance perhaps by the cancellation of other engagements, you find a few days available, please do not hesitate to advise us with due anticipation.

Thanking you again for the attention with which you have honored us, we are pleased to remain

Yours very truly,

Rodolfo Tellería V., I.E.  
President

af.