

283

CORRESPONDENCE

June 14-30, 1960

N. WIENER MC 22

UNIVERSITY OF CINCINNATI

CINCINNATI 21, OHIO

DEPARTMENT OF MATHEMATICS

June 14, 1960

Professor Norbert Wiener
Massachusetts Institute of Technology
Cambridge, Mass.

Dear Norbert:

I hope you will pardon my calling you by your first name. You know I am a little older than you are.

I am writing to you to ask you if you would be willing to come to Cincinnati to give us a lecture. This is not to be on mathematics although I think we could combine this with a lecture before the Graduate Mathematics Club.

What I have in mind is a lecture on something like automation, or in fact, any topic suitable for a general audience. The group you will be addressing is known as the Jewish Center Forum. This group has been in existence for over twenty five years and is the cream of the intellectual life of Cincinnati. This forum has been addressed by very eminent speakers such as Hutchins, Pauling and others.

The topic and dates are very elastic, say the last two weeks in November, the first two weeks in December or, during January. I could guarantee you an audience of at least 500 and perhaps more. We are always looking for stimulating speakers.

Recently, I met some graduate students and instructors from Ohio State University, who had heard you speak. They were very enthusiastic and promised to come down here from Columbus in a body to hear you again, no matter what the topic.

If you do come Fannie and I would be very happy to have you stay with us. Of course, we should also like to have your wife if she would care to make the trip. Naturally we shall arrange for transportation and an honorarium which we hope will be satisfactory.

Let me hear from you as soon as possible so that I can make the necessary arrangements.

Most cordially,

Albert

I. A. Barnett

[ans 6/29/60]

THE INSTITUTE FOR RELIGIOUS AND SOCIAL STUDIES
3080 BROADWAY
NEW YORK 27, N. Y.

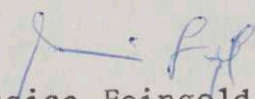
RIVERSIDE 9-8000

June 14, 1960

Dear Mrs. Ritter:

We much appreciate your letter of the 13th, although we are sorry to learn that Professor Wiener will not be able to speak in Professor MacIver's series next winter. That is a loss to the whole program. At the same time, it is easy to understand the reasons.

Sincerely yours,



Jessica Feingold

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

ns



THE INSTITUTE OF RADIO ENGINEERS

INCORPORATED

SECTION CORRESPONDENCE

June 14, 1960

PLEASE ADDRESS
REPLY TO

William D. Houghton
RCA Laboratories
Princeton, New Jersey

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

Dear Dr. Wiener:

The Princeton Section of the Institute of Radio Engineers is now concluding its 1959-1960 year of activities. I wish to take this opportunity to express our appreciation to you for helping us to have a most successful year.

Your talk on "Random Functions and Nonlinear Processes in Engineering" was one of the highlights of the year. I have received many favorable comments from our members regarding the excellence of your presentation and the considerable time you spent answering their questions.

Again, thanks for your contribution. If we can ever be of assistance to you in any way please let us know.

Sincerely,

William D. Houghton

William D. Houghton
Chairman, Princeton Section
Institute of Radio Engineers



ROYAL SOCIETY OF ARTS

JOHN ADAM STREET, ADELPHI, LONDON, W.C.2

Telephone: TRAFALGAR 2366 Telegrams: PRAXITELES, RAND, LONDON

16th June, 1960.

Dear Sir,

I have pleasure in informing you that at the last meeting of the Council you were duly elected a Benjamin Franklin Fellow of the Royal Society of Arts. A form of declaration for your signature is enclosed.

The subscriptions of Fellows date from the quarter-day preceding election, and I shall therefore be obliged if you will kindly remit the sum of £6.6.0, to cover the Registration Fee of £2.2.0 and your first subscription of £4.4.0, if you wish to become an annual subscriber, or of £44.2.0 (to include the Registration Fee) should you prefer to compound as a Life Fellow.

On receipt of your remittance a Diploma of Fellowship will be issued to you and your name officially entered in the List of Fellows, in accordance with the Bye-Laws.

Yours faithfully,

A handwritten signature in blue ink, appearing to read "H. W. Lubbock".

Secretary.

Professor Norbert Wiener, A.M., Ph.D.,
53, Cedar Road,
Belmont,
Mass., U.S.A.

*paid
and
answered*

DOUBLEDAY & COMPANY, INC., Publishers



575 MADISON AVENUE, NEW YORK 22 ~ MURRAY HILL 8-5300

June 16, 1960

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

Dear Dr. Wiener:

As you may know, Doubleday is going to publish Henry Brandon's interviews with certain leading Americans in book form. The publication date will probably be January next year.

We wanted you to know this, and I also would like to tell you how much I enjoyed your ideas in this dialogue. As soon as a finished book is ready, it will be on the way to you.

Sincerely,

Samuel S. Vaughan
Senior Editor

SSV/amh

den 16 Juni 1960

Herrn Dr. Ferdinand Enke
Ferdinand Enke Verlag
Stuttgart
Hasenbergsteige 3
Germany

Sehr geehrter Herr Dr. Enke:

Wie ich Ihnen bereits in einer früheren Note mitgeteilt hatte, sende ich Ihnen hiermit den von Herrn Dr. Wiener entworfenen Artikel für das neue Wörterbuch der Soziologie über "Kybernetik".

Ich hoffe sehr, dass er mit dem Referat das Richtige getroffen hat. Sollten Sie jedoch Fragen haben oder eine etwaige Verbesserung wünschen, möchte ich Sie sehr bitten, sich mit mir so bald wie möglich in Verbindung zu setzen.

Da Professor Wiener die nächsten 8-9 Monate in Europa verbringen wird, und ich selbst im August nach Deutschland fahren werden, müssten mich eventuelle Anfragen vor dem 10. August erreichen.

Mit den besten Empfehlungen,

Ihre sehr ergebene

E. R.

Anlage

KYBERNETIK

The recent development of automatization techniques in engineering has indicated certain resemblances between the control and communication problems of mechanical devices and those of the nervous system or of other systems in living beings. The great diversity of the biological and technical fields involved made it desirable that these two phenomena should possess a single descriptive name not already weighted down with specific engineering or biological contexts. For this reason, N. Wiener, in a book published in 1947 and devoted to the inter-relation of these two fields, employed the term "cybernetics", constructed on the basis of the Greek kybernetes or steersman. He was then unaware of the earlier historical use of this term by Arago and others with a narrower sociological context but with a similar meaning.

There is a group of related ideas which can be most properly described under the name "cybernetics". One of them pertains to the phenomenon of back-coupling which is known as negative feedback in engineering and as homeostasis in the case of living beings. At the beginning, this notion was chiefly studied in the case of linear feedbacks where the new message fed back into a control system is proportionate to the degree to which the task for which this system is designed has not been fulfilled. The fact that systems with negative linear feedback are prone to go into oscillations when the feedback is too strong, led a group of engineers and physiologists (Arturo Rosenblueth, Julian Bigelow and Norbert Wiener) to ask the

question whether similar oscillatory phenomena were to be found in voluntary action. The answer was in the affirmative and the corresponding oscillatory phenomena is known as purpose tremor.

These questions came up in connection with a series of researches made during the war on the theory of prediction, particularly as applied to the prediction of the path of airplanes and the design of automatic control apparatus for anti-aircraft fire. This is essentially a feedback process in which both a machine and a man take part so that a theory neither devoted exclusively to the machine nor to the human element was necessary. In the course of this work it was found that the design of such a system, and, in fact, the design of many varied sorts of communication systems, was essentially a statistical problem to be carried out in an optimum way on the basis of past observations. This was the source of modern information theory which has developed very widely in the last two decades and which constitutes an intrinsic part of cybernetics.

Now that the problems of linear feedback and information theory are well understood and are in large measure disposed of, an increasing interest is shown in problems of nonlinear feedback. All biological feedback, and most technical feedback, contains a strong nonlinear element. In the revision of his book "Cybernetics", which was originally devoted largely to linear feedback and to information theory, N. Wiener has found it necessary to devote much attention to nonlinear problems, especially in the case of self-organizing systems. Here, some of his work has been motivated by the particular example

of the electroencephalogram in which the brain organizes itself into resonant systems of a high degree of concentration of power into narrow bands. In the technique of this work much use has been made of the generalized harmonic analysis developed by Wiener in the 1920's¹ and of the theory of integration in function space, also developed by Wiener at approximately the same time.²

Another outgrowth of cybernetics has been in the technique of automata. Here, some of the principal work being done is due to Claude Shannon³ who is also one of the founders of modern information theory. An important source of research in these fields is the laboratories of the International Business Machines Corporation where Drs. Samuels and Watanabe have applied these ideas to the construction of game-playing machines for chess and, in particular, for checkers and to the theory of inductive logic. (See automatization.)

While the most successful applications of cybernetics have been in the engineering and in the biological field, the fundamental notions are applicable to other systems as well in social and economic fields. Professor Karl Deutsch, among others, has been following this line of investigation. The great difficulty in this sort of work, as well as in the whole field of the social sciences, is that the use of precise mathematical techniques on their data can only be as good as the definition of their data and as our ability to interpret our categories unambiguously over a considerable

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1. Wiener, N., "Generalized Harmonic Analysis", Acta Mathematica, V.55, pp.117-258, (Sept. 1930).
 2. Wiener, N., Nonlinear Problems in Random Theory, Technology Press of M.I.T., Cambridge, and Wiley & Sons, New York, (1958).
 3. Shannon, Claude, Professor of Electrical Engineering and Mathematics, Massachusetts Institute of Technology, Cambridge, Mass.

range of cases. There is nothing intrinsic in social data which makes them essentially different from other data, but there is always a temptation in these fields to allow the urgent need for mathematical methods precipitate us into the use of refinements which do not correspond to anything clearly measurable or even definable in the observations. Perhaps the safest attitude to take is that cybernetic ideas may be, and are, very provocative in social fields, but that the detailed carrying out of precise techniques is likely to subject us to many disappointments.

Only a beginning has been made in the application of all these fields, but the problems to which this work has led seems to be likely to receive much more attention in the near future.

--Norbert Wiener
Institute Professor of the
Department of Mathematics
Massachusetts Institute of Technology

Draft for Enke Verlag
(Wörterbuch)

KYBERNETIK

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Deutsch

den 16 Juni 1960

Herrn V. Wehrenalp
Econ Verlag
Düsseldorf
Pressehaus
Germany

Sehr geehrter Herr von Wehrenalp:

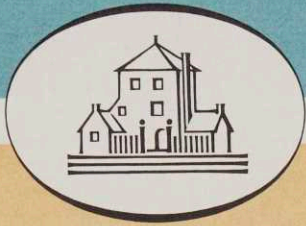
Beiliegend sende ich Ihnen den von Herrn Professor Wiener verbesserten Artikel über die Entstehungsgeschichte seines Buches "The Tempter".

In Ihrem Schreiben vom 14. 3. sagten Sie ganz recht, dass ein solches "Bekenntnis" die Leser eher vom Lesen abhalten würde. Nun, ich hoffe, dass das neue Referat Ihren Ansprüchen gerecht wird. Sollten Sie dennoch einige Fragen haben, möchte ich Sie bitten, sich jederzeit an mich zu wenden; d.h., vor dem 10. August, da ich später nicht mehr hier, sondern in Deutschland zu erreichen bin, wo ich dann auch mit Herrn Professor Wiener, der die nächsten 9 Monate auf dem Kontinent verbringen wird, in Verbindung treten werde.

Mit vorzüglicher Hochachtung,

Secretary to Prof. Wiener

Anlage



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Jason Epstein, EDITOR

June 17, 1960

*answered
Aug. 21*

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

Dear Norbert,

I had lunch today with Isaac Azimov whom I find delightful. We began by talking about the outline of your novel and Isaac tells me that, while he was perfectly happy to agree in principle to the collaboration, there were two problems: one, time; two, his competence to undertake such a collaboration. We agreed to let the matter stand right there until all three of us meet again after your trip.

But then in the midst of lunch another subject arose closer to my heart than even the novel. I mean the possibility of your someday writing a substantial book, broader and deeper than The Human Use of Human Beings, in which you would relate your scientific work to the world view which it has always presupposed for me. I remember once in conversation when you told me that you thought civilization depends on inventions it may be impossible to make, and I assumed from this that you had in mind the possibility of a future in which technology would become the chief, perhaps absolute, determinant of moral or even biological behavior. I know you discussed much of this in The Human Use of Human Beings, but I know that the problem since you last considered it has grown more complex. I know that your own scientific work has progressed, and I am powerfully interested to know the moral implications you see in your brain wave work.

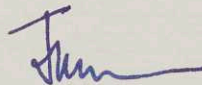
In any case, as I discussed these and other possibilities with Isaac, it suddenly became clear to both of us that we were describing what could perhaps become your major nontechnological opus, and it seemed to me a project more worth your immediate attention than the novel.

R A N D O M H O U S E I N C.

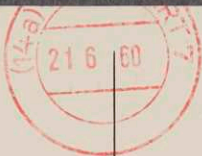
One of the difficulties of The Human Use of Human Beings is that, for all its vitality, it still failed on occasion to clarify sufficiently its scientific descriptions. And so it strikes me that if you are at all interested in undertaking the kind of work I have described--and I really have in mind a major work on a large scale--perhaps it would make sense for Isaac to work with you on this before you and he tackle the novel. I should add that our discussion was tentative in all respects, and perhaps premature, since we were clearly carried away by an enthusiasm which you may not share.

I hope your trip goes well. Best regards from Barbara and me to you and Margaret.

Yours,



Jason Epstein



FERDINAND ENKE
VERLAG

Postkarte

Frau

Eva-Marie R i t t e r

Massachusetts Inst. of Technol.
Department of Mathematics

FERDINAND ENKE
Verlagsbuchhandlung

①⁴⁰ STUTT GART
Hasenbergsteige 3



Cambridge 39 ,Mass.

USA

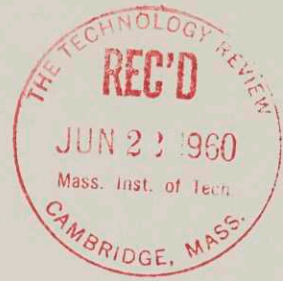
STUTTGART, den

Sehr geehrter ~~Herr Professor!~~ Frau Ritter!

Ich gestatte mir die Mitteilung, daß das Manuskript (~~nebst Abbildungen~~)
Prof. Wiener : "Kybernetik"

soeben bei mir eingetroffen ist. Nach Durchsicht des Manuskriptes lasse ich
weitere Mitteilungen folgen. Ich darf vorraussetzen, daß es sich in völlig
druckfertigem Zustand befindet.

In vorzüglicher Hochachtung
ergebenst



NEWSWEEK
444 Madison Avenue
New York, New York

FOR IMMEDIATE RELEASE

For further information, please call:
Thelma Hepburn, Plaza 2-1500 (ext. 423 or 425)

The attached tearsheets on retiring "Mr. Chips" in the Education section of Newsweek's June 27 issue may be of interest to you. You are welcome to quote from or comment the story provided credit is given to Newsweek.

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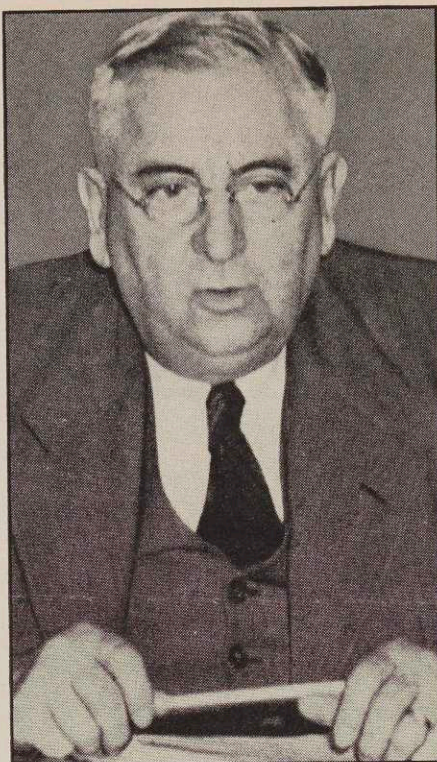
'Just Simply Great'

A professor of flinty principle, Dr. Herbert Wing Jr., 70, sports no national reputation; and he has published little in the way of scholarly treatises. But he has taught Latin, Greek, archeology, and history—and taught them superbly—to 80 per cent of the living alumni of Dickinson College, a small liberal-arts school in Carlisle, Pa. "He didn't win many cheers from the undergraduates," says an old pupil. "He made us work." After 45 years on the secluded Cumberland Valley campus, graying, rotund "Herbie" Wing retired last week, honored by hard-worked alumni and faculty alike.

Like many another retiring teacher across the nation (see box), Dr. Wing is an educator of the old school. "A teacher shouldn't be one of the boys," he says vigorously. Yet he spent hours advising individual students in his office on Denny Hall's third floor; he also, for example, tutored seniors in Greek, free of charge, to help them enter graduate school. "The academic diet has become broader and broader," he explains. "It's garnished with all sorts of frills and salads. We must keep pushing the student back to the main course, to the roast beef."

Steady Stream: As part of his meaty classroom fare, the Harvard-educated professor, who held Dickinson's Robert Coleman Chair of History for 23 years, insisted on weaving Greek and Roman authorities into contemporary political science. He also made youngsters take pinpoint notes, with heavy references to outside reading, on 3- by 5-inch cards. Thus his nickname: Mr. 3 by 5. And to make sure his lessons stuck, he sprayed classes with a steady stream of quizzes and hour tests.

"There has to be in each generation a process of informing men and women of the heritage of the past," Dr. Wing says



Dr. Wing: Dickinson's Mr. 3 by 5

in his flat New England twang. (Reared in New Bedford, Mass., he comes from a robust line of whaling captains.) "This can't be done with books only. You must inspire—and your inspiration must be factually rooted and firmly hooked to the mind of the class." Equally important, the professor says, is the "ethic" tightly twined in the liberal-arts life. "In debating, which I coach, I have always scorned tricks. You must argue from a position of absolute intellectual honesty. I repeat this again and again to the students."

In this sociological age, when many educators analytically declaim about the sad state of the current generation, Dr.

Wing has held firm to a no-nonsense philosophy. "Young Americans exist," he points out. "They must be educated. Whether or not we're pleased with them is irrelevant." Such hard-headed dedication has earned him the vast admiration, and sometimes envy, of his colleagues. "He's tremendously strong, energetic, capable," said a Dickinson official. President Gilbert Malcolm added: "He is just simply a great teacher."

What of the future? A widower with one son at the U.S. Embassy in New Delhi, Dr. Wing will still live in his two-story brick house near the campus, and probably take on some advisory chores at the college. "Naturally, the prospect of being idle doesn't please me a bit," he said last week. "I'm an interested man, and when I feel like biting into something, well, I'll just bite." When he does, Dickinson College will undoubtedly feel the effect.

Citizen Bayne

Gathered one humid night in the Westbury (New York) High School auditorium, some 1,000 students and guests listened to the final crescendo of the National Anthem, then settled down for the familiar routine of the annual senior awards assembly. As in most such ceremonies, a few bright youngsters would win most of the awards, and none seemed a more obvious choice for honors than Stephen Bayne. A slight, genial boy of 17, Stephen was president of the student council, had won a scholarship to Harvard, and ranked scholastically among the top ten in his class.

It was no surprise, therefore, when Rocco Pasquarelli, Americanism chairman of the local William Longuet American Legion Post, named Bayne winner of the post's citizenship award. But suddenly Stephen leaped to his feet. "Wait!" he shouted. "I refuse to accept an award

Seven Who Bid Farewell This Week to the Groves . . .

On university campuses this week, many a dedicated teacher and scholar retired from the academic life. Among them:

► **Hugh Hodgson, Georgia:** Head of the music and fine-arts divisions, "Mr. Hugh" is a zealot who built a top arts center and barnstormed Mozart and Chopin through Georgia's backwoods. He used to resign annually as a protest against red tape, now says: "I think it's time that I stop being so impudent."

► **Norbert Wiener, MIT:** A Harvard Ph.D. at 18, this cigar-puffing mathematician is the leading theorist on cybernetics (similarities between man

and machine), speaks thirteen languages, including Chinese (Mandarin), and is now writing his second novel ("Under the Stone"). "Everything written without a new idea is negative," he said recently, flicking at his white Vandyke beard. "Keep the monkeys away from the typewriters."

► **Walter Piston, Harvard:** His counterpoint lectures are as fastidious as his modern music (Pulitzer Prize, 1948). A white-haired pipe smoker, he's fond of saying "music is 80 per cent intellect, 20 per cent talent." An outstanding pupil: Conductor Leonard Bernstein.

► **Austin H. MacCormick, California**

(Berkeley): Rumped and relaxed, he is the nation's top criminologist. As a prison trouble shooter, he has settled riots everywhere from New York to scattered Army stockades, and still manages to set a class chuckling with his gentle sense of humor.

► **E. Blythe Stason, Michigan:** He knows more than any man about atomic-energy law. Studious-looking with close-cropped gray hair, he has been dean of Michigan Law School for 21 years, and claims he's "one of those odd fellows who spends his whole life at work."

► **Samuel Flagg Bemis, Yale:** This stiff-collared scholar (two Pulitzer Prizes

AMA CONVENTION:

The Body Politic

In most years, when doctors gather from far and wide for the annual convention of the American Medical Association, their stethoscopes are at the ready to pick up the latest findings in medical research. But 1960 is different; this is an election year. And when AMA convened in Miami Beach last week, it was the body politic, not the body *Homo sapiens*, that got the most thorough going over. AMA, for the first time, invited the national chairmen of both major political parties to address one of its key sessions.

In a crowded room in the neo-Aztec Americana Hotel, white-haired Democratic chairman Paul Butler bluntly accused AMA doctors of "dragging their feet in health reforms" by opposing the controversial Forand bill, now before Congress, which ties old-age health insurance to the social-security system.* The Democratic Party, Butler predicted, would endorse the Forand bill at its convention in Los Angeles next month. Butler went so far as to say that an official of Los Angeles Suicide Prevention Center had told a Senate subcommittee that "the high cost of medical care is the most important reason for suicide among the aged." This remark brought a mild "boo" from the sunburned doctors.

Next it was the Republican chairman, Thruston Morton, who said, matter of factly, that his party probably would endorse some form of "voluntary program" to be worked out in conjunction with the states.

Butler called the current Administration's proposed voluntary insurance plan for the aged "a feeble thing" that would require the individual to pay the first \$250 of annual medical bills and 20 per cent of the costs above that.

No Handouts: To no one's surprise, AMA's stand on health plans for the nation's 16 million men and women over 65 followed the Republican theory that health-insurance programs, and not government aid, should help aged people pay health bills.

But later in the week, AMA's House of Delegates passed a resolution approving Federal money, "locally administered, to pay for health care of the aged, when and if all other sources fail."

The AMA also voted to undertake a one-year study (not an "investigation," it emphasized) of the American drug industry. Many

*The importance of the issue was demonstrated earlier this month in Saskatchewan where Socialist T.C. Douglas was re-elected Premier primarily because he promised voters a compulsory prepaid medical-care plan.

Periscoping Medicine®

The average cost of U.S. medical education (tuition only) now adds up to \$11,642 for the four-year course. The typical student and his family foot 82 per cent of the bill; the other 18 per cent comes from medical-school funds, and Federal and state grants . . . A clue to the mystery of multiple sclerosis—the presence of benzoic acid in the urine of one-third of the MS patients—has been discovered by California researchers. The next step: Development of a drug that will stem the excretion of benzoic acid . . . Constant clenching and grinding of the teeth under stress is a contributory cause of tooth decay and gum inflammation, according to New York orthodontists.

doctors complained that the Congressional hearings by Sen. Estes Kefauver's subcommittee were unfair. "Since the Senate inquiry has raised doubts in people's minds about the development, testing, approving, pricing, and marketing of prescription drugs, the AMA's effort will be to find out facts," the resolution read. The council on drugs, a thirteen-man physician committee, headed by Dr. Isaac Starr of the University Hospital, Philadelphia, will conduct the official study, reporting to the AMA at its meeting in New York next June.

Among AMA's most significant medical reports:

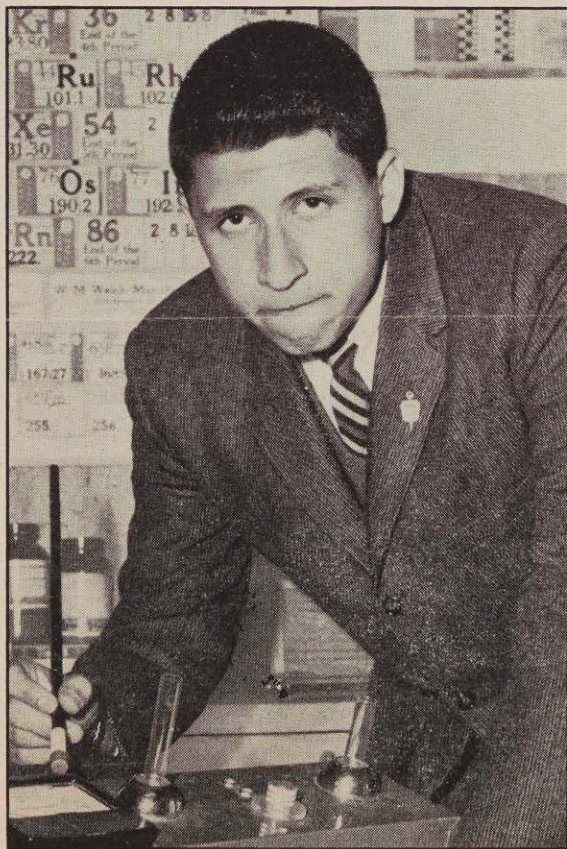
►From the National Heart Institute, Bethesda, Md., came an important clue to the aging process in the human body. Institute scientists described a built-in "calendar," in the form of brownish-yellow fluorescent pigment, which ac-

cumulates in the heart muscles of older people, is never seen in younger folk, and has nothing to do with disease. After studying some 160 autopsy hearts, government scientists found the "old-age" pigment was composed of large particles of proteins and fats which took on a yellow-orange fluorescence under ultraviolet light. "Our findings will not halt the aging process," said one of the scientists, "but they will help our study of the mechanism of aging."

►When a patient feels sure he is going to die during surgery, he may very well do so, said Dr. Eugene S. Turrell, Milwaukee psychiatrist. His advice to surgeons: "If it does not endanger life, postpone the operation until you can discuss his emotions and expose his fears as irrational and unrealistic."

►A contraceptive vaccine, temporarily sterilizing men and women, was predicted by researchers headed by Dr. Edward T. Tyler of UCLA's School of Medicine. Based on findings from a study of 3,000 people, the blood of some men and women contains a natural chemical that can prevent sperm from fertilizing an egg, Dr. Tyler said. In an infertile man this chemical may prevent him from producing sperm; in a woman, the substance may inactivate the male sperm. A contraceptive vaccine composed of this chemical "does not seem too remote," Dr. Tyler said.

Newsweek



BUILT with \$50 worth of spare parts, the device shown here with its maker is called a differential densitometer, and it measures the effect of radiation on cell division. The machine won first prize at Chicago's science fair for its inventor—17-year-old Barry Drowkin, a junior at Amundsen High School, who has been invited to do research with the densitometer at the University of Chicago this summer. Dr. Milton Goldstein described the instrument as "a real contribution to science—not only to biology but to physics."

INVESTOR'S FUTURE

America's Influential Business and Financial Magazine

MEMBER OF THE AUDIT BUREAU OF CIRCULATIONS

90 PINE STREET, NEW YORK 5, N. Y.

Telephone: Whitehall 3-5643

June 22, 1960

Professor Norbert Wiener
Massachusetts Institute of Technology
Boston, Mass.

Dear Professor Wiener:

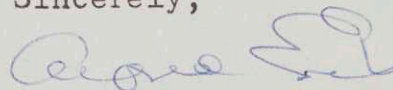
I am in the process of assembling a management consultant company in the Small Business Investment field.

Essentially, the duties of this company or group would be to approve the investment of specific sums of money (from several millions available) in young electronics firms. As you are no doubt aware, there are a few such organizations in the United States, all devoted to a long-range program of investment in firms working in advanced electronics areas with substantial commercial potential.

The matter of compensation has yet to be worked out, but I am sure it will be eminently fair to all members of the consultant group.

I would appreciate hearing from you as to whether you would be interested in joining this group. The potentials in electronics are undoubtedly better known to you than to most people. I do hope we can interest you in devoting a small amount of time each month to this company.

Sincerely,



Alfred Eris
Editor

*Answered:
Aug. 26.*

June 22, 1960

Prof. and Mrs. N. Wiener
c/o American Express Co.
Birger Jarlsgaten 15
Stockholm, Sweden

Dear Prof. and Mrs. Wiener:

Today -- so the schedule reads -- you should be on your way to Russia, and I imagine you will both be excited and be looking forward to people and places which even you in your many years of travel have not seen. My best wishes go to you in the hope (and trust) that all will go well at the Congress and that you will enjoy the country and its people and, as you usually do, make many friends.

Here, things go along their "merry" way. The weather at present is beautiful and once again I come to the conclusion that June is a wonderful month; the main reason being, I suppose, that temperatures are "continental".

My plans to go to Europe, although a few days ago very much endangered, have not completely collapsed yet, and I am still hoping to see you in Hannover.-- My old '53 Ford cracked its engine block last week, and it looked for a while as if we would have to buy a better car, but my husband's mother gave up her own so we were not compelled to touch our delicate resources, and so the trip is still "on". Das nennt man Glück im Unglück.

CYBERNETICS has landed safely in the hands of Miss Boyd. I tried to find all the necessary references and footnotes and did fairly well, but ~~some~~ Miss Boyd and John Kotelly (who, incidentally, is pleased with his job) ironed out a few more between them. And I am sure Dr. Raisbeck will give it the finishing touches.-- When I retyped the acknowledgement page, it occurred to me that among all the other people listed, perhaps Dr. Barlow should be mentioned, too. What do you think? And Rosenblith? I realize, of course, that there will have to be a limit somewhere. Dr. Barlow will get in touch with me on one of the next few days and we shall try to get a clear view of the state of affairs in the computing of correlograms which one of the boys is supposed to be doing. So far, neither one of us has had time. He has been away at conferences and I have almost turned into a typewriter. Prof. Lerner is faced with the same problem that you had: He is leaving for France in August, and there are loads of things to be taken care of. Now, it's my turn to feel panicked, for I, too, have things to organize before leaving.

As far as the other projects are concerned, I am happy to tell you that your resume of why you wrote the Tempter has been sent off as well as your article on KYBERNETIK for the Wörterbuch der Soziologie. The article for the Encyclopaedia Britannica has been draughted, and as soon as I fit the pieces together in a reasonable order, I shall send you a copy to correct or peruse.

Mail comes as usual, although in lesser quantities, and among other things included a check from Simon & Schuster for royalties in the amount of \$4.50, which I think I shall forward, with a pertaining statement, to your bank.

In the last few days, there have arrived re IFAC Congress:

- 1.. Detailed Programme
2. List of US Delegates
3. Preprints of Papers
4. A List of Technical Excursions, distributed by the Secretary in N.Y.

I am sending nos. 1 and 4 along in this envelope, also a letter by Prof. Sokolov and a statement from your bank. The list of delegates is too heavy to send air mail, and I think it is too late now anyhow. The Congress will be over before you receive it.

I shall forward the important things as they arrive. I take a look at the mail just about every day.

The amount of time I have put in at this office comes to 26 hours. And for keeping the records straight, I shall give you the figures to be put on the stub.

	\$52.00
	9.50 w.t.
	<u>1.56</u> s.s.
Total	40.96

As duty in the Center for International Studies is calling me, I shall close with the best of wishes for an enriching and relaxing stay in the Soviet Union and beyond that for fine months of travel ahead.

As ever,



THE UNIVERSITY OF OKLAHOMA
NORMAN · OKLAHOMA

June 23, 1960

Secretary
Department of Mathematics
Massachusetts Institute of Technology
Cambridge 39, Massachusetts

Dear Madam:

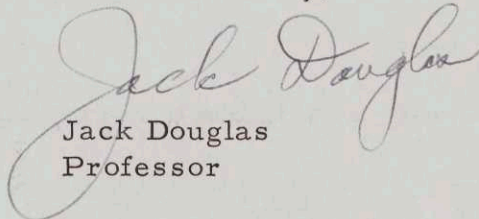
I wrote to Professor Norbert Wiener, addressed to your office, on May 24, and have received no reply. Professor Huff, Chairman of our Department of Mathematics, wrote to Professor Morton of your department, also, in regard to the same matter about which I wrote to Professor Wiener. Professor Morton has replied to Professor Huff, indicating that Professor Wiener is in Europe.

Since I have not heard from Professor Wiener, I am wondering whether the letter I wrote was forwarded to him in Europe, especially since it would have required additional postage.

All of this is by way of prologue to a request for Professor Wiener's European address. Unless you recall that my previous letter was forwarded to him, I think I had better write to him in Europe -- if you can provide me with the address.

Thank you very much.

Yours sincerely,


Jack Douglas
Professor

JD:mh

[ans 6/28/60]

UNIVERSITY OF OREGON
COLLEGE OF LIBERAL ARTS
EUGENE, OREGON

DEPARTMENT OF BIOLOGY

June 23, 1960

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

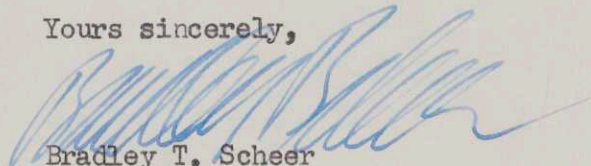
Dear Professor Wiener:

The University of Oregon is initiating with the next academic year an Honors College, to provide superior educational opportunities for a small number of talented students. As a part of the program of this College, we plan on offering colloquia for junior and senior level students. Each colloquium will be introduced by two or three lectures, open to all students in the College, on a subject to be chosen by the lecturer in consultation with the members of our regular staff who will act as instructors for the colloquium. We hope that the subjects chosen will be such as to stimulate thought and discussion, preferably in areas which involve more than one of the classical academic disciplines, and of a non-technical nature suitable for generally educated superior students without background in the field of the subject. Following the opening lectures, the instructors will meet with those students enrolled in the colloquium for discussions arising out of the lectures and suggested readings. The direction which the discussions may take will, of course, be determined in part by the specific interests of individual instructors, but the starting point will be the lectures.

I am writing to you now to ask if you would be willing to consider giving the introductory lectures for one of the colloquia next year. We would ask you to spend one week on the campus, either the first week of the fall term (September 24-30, 1960) or the first week of the winter term (January 7-13, 1961). During this week, you would give two or three lectures, and meet with the colloquium instructors to discuss possible directions the subsequent discussion might take, suggested readings, and the like. We would provide your travel and maintenance expenses, and an honorarium of \$300.

If you would be willing to do this, would you let me know at your early convenience, and give me some indication of subjects you might wish to discuss. I am writing to two or three others, and so cannot make a firm commitment at this time, but we are anxious to come to a decision as soon as possible. If you have any questions I shall of course be glad to answer them.

Yours sincerely,



Bradley T. Scheer
Professor of Biology
Chairman, Subcommittee on Colloquia

[ans 6/30/60]

DOCTEUR Y. CHESNI

ANCIEN DIRECTEUR DU SERVICE D'OBSERVATION
DES ÉCOLES

NEUROLOGIE PSYCHIATRIE F. M. H

TÉL. 24 91 32
sur rendez-vous

GENÈVE, LE 25 juin 1960
3, ROUTE DE FLORISSANT

Mr. le Professeur Norbert WIENER
to the care of
BELL TELEPHONE LABORATORIES
500, Washington Av. - NUTLEY (N.J.)

Monsieur et très Honoré Professeur,

Permettez à un chercheur débutant de vous dire sa très profonde admiration pour vos magnifiques travaux sur la cybernétique - dont je n'ai malheureusement pas pu prendre connaissance de façon aussi approfondie que je l'aurais désiré, faute des connaissances mathématiques nécessaires.

J'ai eu l'impression que, peut-être, dans la mesure où elle est concomitante d'une activité phonatoire et articulatoire ébauchée, la formulation verbale intérieure comporte, comme paraît le faire la parole à voix haute, une auto-régulation par feed-back, et je me permets de venir vous soumettre ce problème.

D'après vous, quelles conséquences pourrait-on déduire, en ce qui concerne la structure de la parole à voix haute, du fait que celle-ci comporte un contrôle acoustique et proprioceptif ? Ces conséquences pourraient-elles être étendues à la formulation verbale intérieure, s'il était prouvé que celle-ci comporte des mouvements phonatoires et articulatoires ébauchés ?

Je me permets de vous adresser par courrier séparé les tirés-à-part de travaux que j'ai pu effectuer sur ce sujet, ainsi que, prochainement, les épreuves d'une communication récente à la Société Française de Neurologie (aspects glottiques observés au laryngoscope indirect pendant l'évocation intérieure d'une note tenue, de la série des voyelles, d'une série de chiffres et d'une phrase-test).

Pardonnez-moi, Monsieur le Professeur, la liberté que je prends de vous écrire ainsi : je n'ai pas d'autre excuse que la profonde admiration que j'éprouve pour vos travaux et le désir que j'ai de connaître votre opinion sur un sujet qui me préoccupe beaucoup..

Je vous prie d'agréer, Monsieur le Professeur, l'expression de mes sentiments très respectueusement dévoués.

[ans 3/20/60] Y. Chesni

AMERICAN MATHEMATICAL SOCIETY

190 HOPE STREET, PROVIDENCE 6, R. I.

GORDON L. WALKER
EXECUTIVE DIRECTOR

June 28, 1960

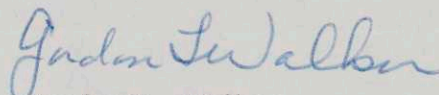
Professor Norbert Wiener
Department of Mathematics
Massachusetts Institute of Technology
Cambridge 39, Massachusetts

Dear Professor Wiener:

It has been recently called to my attention that COLLOQUIUM Volume 19 has been out of print for some time. In your letter of April 15, 1958, you mentioned that you would look over the minor corrections to be made to the volume and send them to us in the not too distant future. We have not as yet received them in this office.

As only minor corrections are contemplated, perhaps you would prefer to defer making the changes until a revised version of your COLLOQUIUM book is prepared at some later date. So, unless we hear from you to the contrary, we will proceed to the reprinting of COLLOQUIUM Volume 19.

Sincerely yours,


Gordon L. Walker

GLW:jib

[ans 6/30/60]

Student Forum Board

University of Wichita

WICHITA 14, KANSAS

June 28, 1960

Norbert Wiener
53 Cedar Road
Belmont, Massachusetts

Dear Sir:

The Student Forum Board of the University of Wichita is presently engaged in the process of selecting outstanding speakers for the coming 1960-61 Lecture Series. Thus far we have secured General John B. Medaris and Eric Sevareid.

It would be a great pleasure and honor for the Student Forum Board to present you as a speaker as a part of this series. We think it would be an enriching experience for the students, faculty, and the community to be addressed by someone of your background and experience.

We would appreciate a reply concerning your availability and honorarium. Should you agree to speak here, you would appear on the campus in the University Auditorium. We are prepared to cover your expenses.

We would appreciate any consideration you might give us concerning our Lecture Series.

Sincerely yours,

Donald C. Wiles

Donald C. Wiles
President

DCW/ms

*Answered
Aug. 21*

June 28, 1960

Professor Jack Douglas
Department of Speech
The University of Oklahoma
Norman, Oklahoma

Dear Professor Douglas:

This is in reply to your letter of June 23 asking for Professor Wiener's current address.

The secretary who handles his mail when he is in residence is not here now so I cannot give you a definite answer as to whether or not your letter of May 24 was forwarded to him.

The best address I can give you for Professor Wiener is c/o American Express, Stockholm, Sweden but I understand that his plans were to spend the month of July in Russia and he asked that no mail be forwarded to Russia but that it all be held in Stockholm until he returned to Stockholm.

We expect that Professor Wiener will return to M.I.T. late in January but his plans for the second semester are not completely definite.

Very sincerely yours,

Ruth S. Goodwin
Administrative Assistant

RSG:erb

UNIVERSITY OF MARYLAND

SCHOOL OF MEDICINE
BALTIMORE 1, MARYLAND

Redwood to Green Streets

DEPARTMENT OF PEDIATRICS

June 29, 1960

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

Dear Dr. Wiener:

Your participation in our course entitled "Man and His Environment" in 1957 was highly appreciated by the students and faculty, and we have looked forward to the time when you return. We hope that it will be possible for you to give a lecture on some phase on control mechanisms in its relation to the living organism on November 5, 1960.

As before we will take care of your travel and living expenses and there will be an honorarium. I hope that you will be able to be with us.

With highest regards.

Yours sincerely,



Samuel P. Bessman, M.D.
Associate Professor of Pediatrics
Associate Professor of Biochemistry

SPB:mbs

[ans 7/5/60]

JORDAN M. SCHER, M.D.

679 NORTH MICHIGAN AVENUE

CHICAGO II, ILLINOIS

SUPERIOR 7-4797

June 29, 1960

Dr. Norbert Weiner
Massachusetts Institute of Technology
Cambridge, Massachusetts

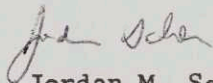
Dear Dr. Weiner:

I have recently read of the announcement of the formation of the Association of Medical Cybernetics.

I would be interested in hearing about how to join.

I am sending several papers I think you would be interested in.

Yours very cordially,



Jordan M. Scher, M.D.

JMS:ms

Enclosures

[ans] 7/29/60

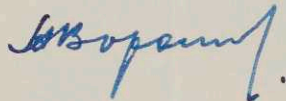
Dear Prof. N.Wiener,

I hope I'll have pleasure to meet you in Leningrad after this Congress.

I would like to ask you, if it is possible, to deliver some lecture for the Leningrad engineers and scientists.

Please, write your answer, naming the subject of your lecture and time of your arriving and departure from Leningrad and sent it to the room number 382 in the Hotel Ukraina for me.

Sincerely yours,



Professor A.A.Voronov,
The Chairman of Leningrad
branch of the National Commit-
tee of the USSR of automatic
control.

Moscow, June 29, 1960

June 29, 1960

Dr. I. A. Barnett
Department of Mathematics
University of Cincinnati
Cincinnati 21, Ohio

Dear Dr. Barnett:

In Professor Wiener's name, I should like to thank you for the invitation to Professor Wiener to attend one of the meetings of the Jewish Center Forum as a guest speaker.

Unfortunately, you sent your invitation not at the most opportune time. Professor and Mrs. Wiener are both in Europe at this time and will not return until February or early March 1961. He is travelling right now and attending conferences and will be at the University of Naples as a visiting lecturer throughout the fall term.

You will understand that he cannot accept; perhaps later in the year of 1961?

Sincerely yours,

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

June 29, 1960

Prof. S. N. Braines
Academy of Medical Science of the USSR
14 Solianka Street
Moscow, USSR

Dear Prof. Braines:

Thank you for your very kind letter and also the sending of your book. As Professor Wiener was just about to leave when your letter was received, I am not sure that he had a chance to read it. However, I hope you will have a chance to talk to him while he is attending the IFAC Congress in Moscow.

Sincerely yours,

Eva-Maria Ritter
Secretary to Prof. Wiener

June 29, 1960

Mr. Konrad K. Dannenberg
Chairman
Space Science Seminar
Army Ballistic Missile Agency
US Army Ordnance Missile Command
Redstone Arsenal, Ala.

Dear Mr. Dannenberg:

Thank you for your invitation to Prof. Wiener to address a group of scientists at the Redstone Arsenal some time during the latter part of this year.

Unfortunately, this comes at a bad time. Prof. and Mrs. Wiener are abroad and won't return to the United States until February or March 1961. I regret, therefore, that, under the circumstances, Professor Wiener will be unable to accept.

Sincerely yours,

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

June 29, 1960

Gustav Fischer Verlag
Jena
Germany

Gentlemen:

Please send at your earliest convenience a copy of
your book

"Die mitogenetische Strahlung", by A.G. & L.L. Gurvitsch,
published in 1959 by your publishing firm,

to: Professor Francis O. Schmitt, Dept. of Biology, Room 16-512,
Massachusetts Institute of Technology, Cambridge 39, Mass., USA.

Please forward the bill for this purchase to Prof. N. Wiener,
Dept. of Mathematics, 2-276, Massachusetts Inst. Of Technology,;
I would be very grateful if you could ship the book as soon as
possible, as Prof. Schmitt needs this book--and we lost the only
copy he had.

Thanking you in advance,

Very truly yours,

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

June 29, 1960

Dr. Alfred N. Goldsmith
Anniversary Editor
IRE
1 East 79 Street
New York 21, N.Y.

Dear Dr. Goldsmith:

In Professor Wiener's name I should like to thank you for inviting Professor Wiener to speak -- on behalf of the 1962 Anniversary Issue -- for the field of Information Theory and to prepare a paper for the issue mentioned above.

Unfortunately, Professor Wiener will be abroad until the spring semester of 1961 and will have little chance during that time to devote himself to the preparation of such a lengthy paper. Moreover, there is a possibility of his undertaking more travel both in 1961 and 1962, and in view of all these impeding circumstances, I should like to express his regret in not being able to participate in your anniversary program. I hope it will be a successful one!

Sincerely yours,

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

June 29, 1960

Mr. Peter H. Greene
Committee on Mathematical Biology
The University of Chicago
5741 Drexel Avenue
Chicago 37, Ill.

Dear Sir:

Your letter and paper, sent out by you on May 14, arrived just before Professor Wiener's departure for Europe, and I doubt that with all the preparations and lectures he was occupied with he had much of a chance to look at both. I hereby acknowledge and thank you for them and, as Professor Wiener will not be back here at the Institute until February 1961, I shall hold your letter and paper for him.

Sincerely yours,

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

June 29, 1960

Dr. K. P. Mangold
729 Fifth Street
Yazoo City, Mississippi

Dear Dr. Mangold:

It has been a long time since you sent in your manuscript (which I am returning to you under separate cover) to Professor Wiener in the hope that he would read it. As you can guess, he has not read it. The last few months before his departure for Europe have been so hectic that he could not afford to spend too much energy on things that were a bit "extra-curricular". He was very tired physically and had too many speaking obligations. Thus, he neglected looking through the manuscripts (of which we have many), and also yours got slightly interred on his desk.

I hope you will not hold this oversight against him, and I hope equally that you will find a place or person who will give to your article the consideration it deserves.

Very sincerely,

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

Separate Cover

June 29, 1960

Dr. Raymond Wing
Fairview Avenue and 21st Street
Easton, Pennsylvania

Dear Dr. Wing:

As Professor Wiener is abroad and will not return from Europe until early spring 1961, I take the liberty of answering your letter in which you inquired about the Intern. Society of Cybern. Medicine.

There is such a society. I cannot give you adequate information about this organization--even though Prof. Wiener will address the group in early October--but I suggest that you get in touch with Professor Aldo Masturzo (who is the president) and obtain the facts. The address is: Via Roma 348, Napoli, Italy.

The conference I mentioned above will be held on the dates October 2,3,4, 1960.

Sincerely yours,

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

AUFBAU RECONSTRUCTION

An American Weekly

Published in New York City by the New World Club, Inc.

MANFRED GEORGE, EDITOR

June 30, 1960.

BOARD OF DIRECTORS:

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

Dear Professor Wiener:

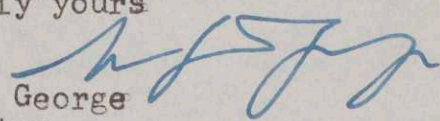
You certainly will remember that I asked you some time ago for a short article about your book on automation. In the meantime - two months ago - our anniversary issue has come out and I am sending it to you under separate cover. + to the com

However, due to reasons of space, the articles on automation by Frederik Pollock, George Friedmann (Paris) et al did not appear in this issue. We intend to publish them on a later date.

Yesterday, I read in the AP news about the Sowjet exhibition of Automation in Moskau. May I ask you whether you agree with the contents of these news or whether you consider them more or less exaggerated.

Thank you very much for letting us have your opinion.

Sincerely yours


Manfred George
Editor

mg:pe
encl.

[ans 7/5/60]

Clark University

WORCESTER 10, MASSACHUSETTS

OFFICE OF THE PRESIDENT

June 30, 1960

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

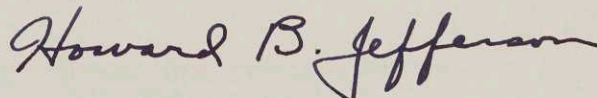
Dear Dr. Wiener:

Clark University has just established a yearly series of lectures to be known as the Clark Lectures in the Humanities.

A committee of the Humanities Division, having been asked to submit a list of distinguished persons interested in the problems of contemporary civilization, presented your name among others as one deeply concerned in such problems and one whose participation would help insure the success of the series.

We should be honored to hear from you as to the possibility of addressing our student body, faculty, and community sometime during the academic year 1960-61, preferably in the fall. Should you signify your willingness to participate, we may then discuss specific dates and the question of an appropriate honorarium.

Sincerely yours,



Howard B. Jefferson
President

[ans 7/5/60]

June 30, 1960

Mr. William M. Evan
Bell Telephone Laboratories
Murray Hill, N.J.

Dear Mr. Evan:

I have here your letter of May 23 in which you repeat your invitation to Prof. Wiener to contribute an essay that sets forth a proposal to prevent World War III.

Lest you think that your request is forgotten, I am answering you to tell you that Prof. Wiener will not be able to comply as he is away in Europe and will not be returning to the U.S. until the spring of 1961.

Although I doubt very much that Prof. Wiener will want to change the stand he took in an earlier reply to you, we all know how very important the work is that you try to do, and I hope you can continue successfully.

Sincerely yours,

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

June 30, 1960

Prof. Bradley T. Scheer
Department of Biology
University of Oregon
College of Liberal Arts
Eugene, Oregon

Dear Professor Scheer:

Thank you for your invitation to Professor Wiener to be one of the lecturers at your Honors College next year.

Prof. Wiener is away in Europe and will not be back until February 1961. Under those circumstances, you will understand that he will be unable to participate in either one of the scheduled colloquia.

With best wishes for the success of this interesting program,

Sincerely yours,

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

June 30, 1960

Mr. John H. Schwarz
8 Cross Lane
Glen Head, N.Y.

Dear Mr. Schwarz:

I should like to thank you, in Professor Wiener's name, for the kind invitation you sent him to speak to the Eliot Club next Fall -- Dec. 4 or 11 -- or to be a discussion leader.

Unfortunately, Professor Wiener will be unable to accept as he is away in Europe and will not return to the U.S. until February or March 1961.

Sincerely yours,

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

June 30, 1960

Mr. Gordon L. Walker
Executive Director
American Mathematical Society
190 Hope Street
Providence 6, R.I.

Dear Mr. Walker:

As Prof. Wiener is in Europe at this time and is not due to return to the U.S. until February or March 1961; as he is, moreover, not reachable at this time (he is in Russia), I suggest that -- as you indicated in your letter of June 28 to him -- you go ahead with your plans of reprinting the Colloquium Volume 19 without his changes and that we return to the matter of corrections some time in 1961 when he will have more time to devote to it.

Sincerely yours,

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