

THE INSTITUTE FOR ADVANCED STUDY

C O P Y

HARRY WOOLF
Director

May 5, 1983

Mr. J. Thompson Hiller
Vice President
Vansant Dugdale
World Trade Center
Baltimore, Maryland 21202

Dear Mr. Hiller:

In reply to your request of 29 April 1983, for information on Dr. Amale Noether I can only inform you that she was a visitor to the Institute for Advanced Study in the School of Mathematics between 1933 and 1935. Unfortunately, it was not our custom in those days to maintain extensive files on our people and I fear that is all that we have on her.

Your calendar idea sounds intriguing, and I hope you will be kind enough to send us a copy for 1984.

Sincerely yours,

Harry Woolf

VAN SANT DUGDALE

April 29, 1983

Institute for Advanced Study
South Olden Lane
Princeton, New Jersey 08540

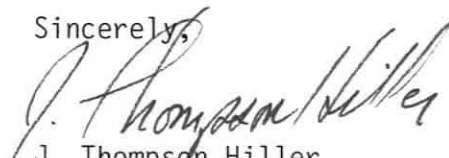
Gentlemen:

In planning for its 1984 appointment calendar, our client, the Westinghouse Electric Corporation, would like to include Amale Noether.

We would appreciate your sending copies of any illustrative and biographical material you may have on Noether. We will, of course, repay you for any reasonable expenses incurred.

A copy of a page from our 1983 calendar is attached. Format for the new calendar is very similar. The calendar, issued annually for over 20 years, is well received by our client's customers.

Sincerely,

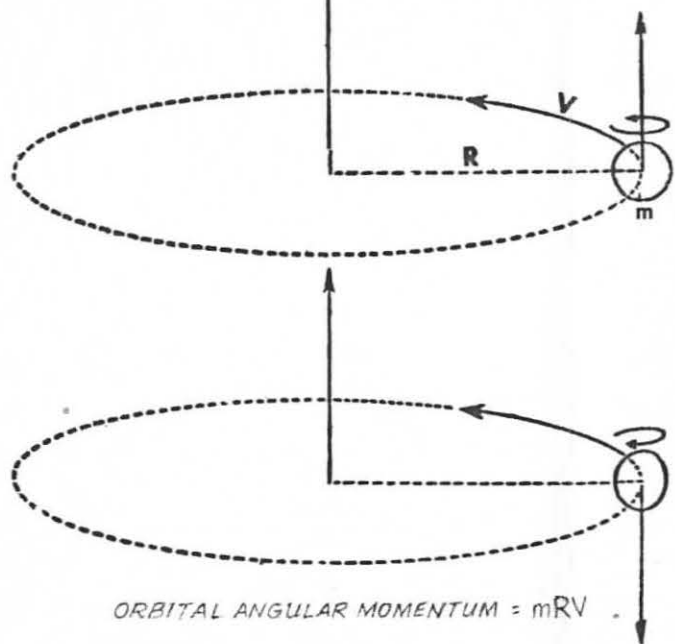


J. Thompson Hiller
Vice President

JTH:ec

enc.

visitor Math



MARIA GOEPPERT MAYER 1906-1972 It took her ten minutes to create what some physicists regard as the greatest single contribution to theoretical physics since World War II. And, as a result, Maria Goeppert Mayer joined Marie Curie in Nobel Prize history. She received the Physics award for her work in the "shell model" of the atomic nucleus.

Maria Goeppert was born the scion of six generations of German scholars. Her father was professor of pediatrics at the University of Göttingen, where she received her Ph.D. in 1930. That same year she married Joseph Mayer and moved to the United States.

During the war years, she lectured at Columbia University and Sarah Lawrence, and was involved with isotopic research for the atomic bomb project.

In 1946, when her husband joined the faculty at the University of Chicago, Maria Mayer became professor of physics at both the University of Chicago, and the Enrico Fermi Institute for Nuclear Studies, and was named senior physicist at the Argonne National Laboratory.

One day in 1948, while discussing isotope stability with Fermi, Mayer picked up a significant clue. Within ten minutes, she had integrated the concept of "spin-orbit coupling" to the structural forces which bind atomic particles of the nucleus.

Mayer was the recipient of many honors, and later taught at the University of California in San Diego.



MARIA GOEPPERT MAYER



obituary article
Hermann Weyl,
Emmy Noether, Scripta
Mathematica, 3 (1935) 201-220

June 18, 1980

Professor Clark Kimberling
Department of Mathematics
University of Evansville
P.O. Box 329
Evansville, Indiana 47702

Dear Professor Kimberling:

In response to your request, I am sending you Xerox copies of the correspondence in our files involving Dr. Emmy Noether.

The cost is \$1.10. We would appreciate a check made out to the Institute for Advanced Study at your convenience.

Sincerely yours,

Harry Woolf

March 14, 1980

Professor Clark Kimberling
Department of Mathematics
University of Evansville
P.O. Box 329
Evansville, Indiana 47702

Dear Professor Kimberling:

Thank you for your letter of 11 March 1980, concerning the correspondence of Professor Hermann Weyl. I can only tell you that his son, Joachim Weyl, died in 1977. The obituary appeared in the New York Times on July 23, 1977. As far as Professor Weyl's personal papers are concerned, these were not left at the Institute for Advanced Study. Our file is limited to correspondence between Professor Weyl and the Director's office.

I am sorry that we cannot be more helpful to you in this matter.

Sincerely yours,

Aida L. La Brutte
Secretary to the Director

University of Evansville

Post Office Box 329
Evansville, Indiana 47702



March 11, 1980

Ms. Aida L. La Brutte,
Secretary to the Director
The Institute for Advanced Study
Princeton, NJ 08540

Dear Ms. La Brutte:

Thank you for your letter of March 7, 1980. I am now inquiring about the correspondence of Hermann Weyl and the address of his son Joachim Weyl, assuming that the latter is still living.

In case H. Weyl's correspondence is preserved at the Institute, and if it is organized so that a search for specific items can be made without great difficulty, then I am asking that letters to and from Mr. Jacob Billikopf after January 6, 1941 be examined for information about the fate of Fritz Noether.

Thank you once again for your assistance.

Sincerely,

Clark Kimberling

Clark Kimberling,
Associate Professor of Mathematics

*Did
1977
reported
NYT
July 23, 1977*

March 7, 1980

Professor Clark Kimberling
Department of Mathematics
University of Evansville
P.O. Box 329
Evansville, Indiana 47702

Dear Professor Kimberling:

Thank you for your letter of 5 March, concerning Dr. Emmy Noether. Permission to copy correspondence in Dr. Noether's file would have to be given by the Director, Dr. Harry Woolf, who is abroad at the present time. I will, of course, bring your request to his attention when he returns to Princeton later this month.

In the meantime, I have read again in Dr. Noether's file to see if there is a clue as to material that might be stored in the State of New Jersey, other than the Institute for Advanced Study. I have been unsuccessful.

I regret that we cannot be more helpful, but you should hear from Dr. Woolf in due course concerning the photocopies.

Sincerely yours,

Aida L. La Brutte
Secretary to the Director

University of Evansville

Post Office Box 329
Evansville, Indiana 47702



March 5, 1980

Ms. Aida La Brutte
Secretary to the Director
The Institute for Advanced Study
Princeton, NJ 08540

Dear Ms. La Brutte:

Professor Dyson has sent me your note concerning my inquiry about materials relating to Emmy Noether at the Institute. I very much appreciate your having checked and ascertaining that such materials are almost completely limited to correspondence by Dr. Flexner.

Would it be possible for me to obtain photocopies of all such correspondence? I have a grant that will cover all costs.

There is a second reason I am writing. I have received a letter from Professor Konrad Jacobs of the Mathematisches Institut at the University of Erlangen. (Emmy Noether was born in Erlangen, where her father was a professor of mathematics; she received her Ph.D. there in 1908 under P. Gordan.)

As you may see on the enclosed copy of the letter, there may be "Further material in some Government vault in New Jersey." If you have any way to find out what vault and what material - any suggestions at all - I shall be very grateful.

Sincerely,

Clark Kimberling

Clark Kimberling,
Associate Professor of Mathematics

MATHEMATISCHES INSTITUT
UNIVERSITÄT ERLANGEN-NÜRNBERG
Prof. Dr. Konrad Jacobs

Bismarckstr. 1^{1/2}
D-8520 Erlangen, den Febr. 29, 1980
Tel. (09131) 85 (Durchwahl)

Prof. Clark Kimberlin
University of Evansville
Department of Mathematics
Post Office Box 329
Evansville, Indiana 47702
U.S.A.

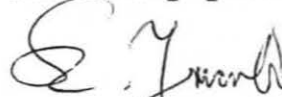
Dear Professor Kimberlin,

Thank you very much for your letter of Febr. 12, 1980.
It reaches me just before my departure for a 2-months-trip. Thus
I cannot do anything for you right now. But I will try to find
somebody in the department, who handles the matter meanwhile.

You are certainly aware of the fact that a nephew of Emmy
Noether: Gottfried Noether is Professor of Statistics at Boston
University. He would certainly be the best source for reminiscences
but independantly of this, we will dig in our files here (not
for the first time). Further material is in some Government vault
in New Jersey. Bryn Mawr certainly knows about this. The ashes
of E. Noether have been found a few years ago and are now buried
in the cloister of Bryn Mawr.

I hope to send you more information in May.

Sincerely yours,


Konrad Jacobs

November 17, 1967

Mr. Clark H. Kimberling
Department of Mathematics
Northwest Missouri State College
Maryville, Missouri

Dear Mr. Kimberling:

Your letter of November 14th has been referred to this office for reply. We are unable to supply much information, but the following paragraphs, written for publication by Professor Hermann Weyl at the time of Miss Noether's death, might be helpful:

"Miss Noether was born on March 23, 1882, at Erlangen, Germany, daughter of the noted mathematician, Max Noether. She obtained her doctor's degree at Erlangen in 1903, and taught at Göttingen University from 1919 until 1933, one of the very first women to obtain an academic position in Germany. After being displaced in 1933 because of her Jewish origin, she became visiting professor of mathematics at Bryn Mawr College. She also lectured at the Institute for Advanced Study at Princeton.

"The modern development in algebra is closely tied up with Miss Noether's work. She published a great many original papers and besides had as her students nearly all the prominent younger algebraists in Germany. The great recent progress in algebra is due largely to her work and her influence".

I hope that the foregoing will be of some help to you.

Sincerely yours,

Janet Smith
Office of the Director

NORTHWEST MISSOURI STATE COLLEGE

**MARYVILLE, MISSOURI
ROBERT P. FOSTER, PRESIDENT**

DEPARTMENT OF MATHEMATICS

November 14, 1967

Institute of Advanced Study
Princeton University
Princeton, New Jersey

Dear Sirs:

In preparing for publication an article on the life of Emmy Noether, it has come to my attention that she lectured in 1934-35 at the Institute of Advanced Study in Princeton.

I should like to obtain as much about her and her lectures as is available in your files.

Thank you.

Sincerely,

Clark H. Kimberling

Clark H. Kimberling

CHK:sjh

14 November 1961

Dear Miss Geistenfeld:

Your letter, addressed to Princeton University, has been sent to us for it was the Institute for Advanced Study rather than the University in which Miss Noether lectured for a while after she came to the United States. The following paragraphs were written by Professor Hermann Weyl at the time of her death for release to the daily press and scientific journals. You may already have come across it, but just in case it is of use to you, it follows:

"Miss Noether was born on March 23, 1882, at Erlangen, Germany, daughter of the noted mathematician, Max Noether. She obtained her doctor's degree at Erlangen in 1903, and taught at Göttingen University from 1919 until 1933, one of the very first women to obtain an academic position in Germany. After being displaced in 1933 because of her Jewish origin, she became visiting professor of mathematics at Bryn Mawr College. She also lectured at the Institute for Advanced Study at Princeton.

"The modern development in algebra is closely tied up with Miss Noether's work. She published a great many original papers and besides had as her students nearly all the prominent younger algebraists in Germany. The great recent progress in algebra is due largely to her work and her influence."

Sincerely yours,

(Mrs.) Bonnie Jeffers
Office of the Director

Miss Esther Geistenfeld
1856 Manor Drive
Union, New Jersey

1856 Manor Drive
Union, New Jersey
November 19, 1961

Princeton University
Princeton, New Jersey

Dear Sirs:

Please send any information you have on Professor Emmy Noether, who lectured in your Institute of Advanced Study in the field of mathematics in 1934-1935.

My name and address are:

Arthur Gerstenfeld
1856 Manor Drive
Union, New Jersey

Please send promptly.

Thank you.

Sincerely,
Arthur Gerstenfeld

Emmy Noether.

Das Streben der meisten menschlichen Geschöpfe erschöpft sich im Kampfe ums tägliche Brot. Die Schar derjenigen aber, die durch äusseres Schicksal oder Begabung diesem Kampfe enthoben sind, ist grösstenteils völlig absorbiert durch das Streben nach Reichtum; steht doch hinter der Jagd nach dem Gelde die Illusion, dass für dieses alles "gehehrens-werte einzutauschen sei. Daneben aber gibt es auch das Häufleinderer, die frühzeitig erkennen, dass die schönsten Dinge, die ein Mensch erleben kann, nicht von aussen kommen, sondern an die Entwicklung der Fähigkeiten des eigenen Fühlens ~~xxx~~, Denkens und Gestaltens geknüpft sind. Alle wirklichen Künstler, Forscher und Denker waren von dieser Art. So unscheinbar das Leben dieser Art Menschen zunächst verläuft, so sind doch die Früchte ihres Strebens das Wertvollste, was eine Generation den späteren Generationen zu geben hat.

Dieser Tage starb im Alter von 53 Jahren die Mathematikerin Emmy N o e t h e r, früher an der Universität Göttingen, seit zwei Jahren an der Frauen-Universität Bryn Mawr. Nach dem Urteile der kompetentesten Fachleute war es das bedeutendste schöpferische, mathematische Talent, das bisher bei einer Frau zur Entwicklung gelangt ist. Auf dem Gebiete der Algebra, in dem die stärksten mathematischen Köpfe sich seit Jahrhunderten betätigten, hat sie Methoden gefunden, die für den Entwicklungsgang vieler jüngerer Mathematiker von erheblicher Bedeutung geworden sind. Die reine Mathematik ist eine Art Dichtung in logischen Begriffen. Man sucht nach möglichst allgemeinen Begriffen und Operationen, die einen möglichst weiten Kreis formaler Beziehungen in einfacher und logisch einheitlicher Weise umspannen. Bei solchem

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Streben nach logischer Schönheit werden die geistigen Instrumente erfunden, deren wir für das tiefere Eindringen in die Gesetzlichkeit der Natur bedürfen.

Einer jüdischen Gelehrtenfamilie entstammend hat Emmy Noether, die trotz Förderung durch den grossen Mathematiker Hilbert es in Deutschland nicht zu einer regulären Lehrstelle hat bringen können, einen Mittelpunkt der Forschung und Lehre an der Göttinger Universität gebildet. Ihr vieljähriges, selbstloses und fruchtbares Wirken wurde ihr von den neuen Herrschern in Deutschland durch Entziehung des bescheidenen Brotes und der Lehrberechtigung gelohnt. Einsichtige Freunde der Wissenschaft sorgten in diesem Lande dafür, dass sie in einem Kreise freundlicher ~~Gelehrter~~ Kollegen und dankbarer Schüler bis zu ihrem Tode wirken konnte, der sie mitten in froher und fruchtbarer Arbeit ereilte.

Albert Einstein

E. Noether

PRESIDENT'S OFFICE

BRYN MAWR COLLEGE
BRYN MAWR
PENNA.

April 2nd, 1935

My dear Dr. Flexner,

Dean Manning handed over to me your kind letter of March 12th. May I say first of all that I am exceedingly proud of the gift of the Institute toward Dr. Noether's salary. I feel that Dr. Noether's residence at Bryn Mawr gives the college more distinction than any one thing that has happened to it for many years, and the gift of the Institute which helps to make this possible fills me with the same gratification.

On March 20th I saw both Mr. Murrow and Dr. Weaver. They both talked to me frankly about the problem of Dr. Noether's salary, and I left with the hope that the Foundation and the Committee would each contribute \$1400 toward a two-year arrangement for Dr. Noether's salary with the understanding that the total salary for each year would be at least \$3000. Although I should like to offer Dr. Noether the \$4000 which she has had during these two years, Professor Wheeler believes that the \$3000 will be a sufficient salary. On March 27th Mr. Murrow wrote that the Emergency Committee had voted a \$1400 grant toward the salary for 1935-36. I believe that the Rockefeller Foundation will do the same; I have in fact delayed this letter hoping that a communication from them would arrive. If no more contributions are made, and if the individual donors and the Institute are willing that their gifts should be reserved for the second year, a salary of \$3000 for the two years could be arranged as follows:

1935-36		1936-37	
Emergency Committee	\$1400	From contributions raised	
Rockefeller Foundation	1400	by Mr. Billikopf	\$1500
From contributions		From Institute	<u>1500</u>
raised by Mr.			
Billikopf	200		

If this immediate use of the Foundation and Committee funds is necessary, would the Institute be willing to reserve its contribution for 1936-37?

I read with great interest your suggestions of other foundations which should be approached. Bryn Mawr has a request before the General Education Board for a gift for the Fiftieth Anniversary Fund, and I

PRESIDENT'S OFFICE

BRYN MAWR COLLEGE
BRYN MAWR
PENNA.

hesitate to approach the Board at the moment with a second request. I shall see Mr. Wilbur Thomas of the Carl Schurz Foundation, although Dr. Weaver was discouraging about it and thought any contribution from the Foundation would be very small.

With renewed thanks for your interest and the help you have offered us in this matter, please believe me,

Sincerely yours,

Maxim Savants Park

Dr. Abraham Flexner, Director
The Institute for Advanced Study
20 Nassau Street
Princeton, New Jersey

April 5, 1935

Dear President Park:

I have your note of April 2nd. Should you receive from other sources the sums for which you hope, we can impound the contribution from the Institute so that it will be available during the year 1936-1937.

I hope very much that you will succeed in attaching Dr. Noether to Bryn Mawr permanently. She is, as you well know, a great mathematician, and her presence at Bryn Mawr continues your fine mathematical tradition.

Sincerely yours,

ABRAHAM FLEXNER

President Marion Edwards Park
Bryn Mawr College
Bryn Mawr, Pennsylvania

AF/MCE

E. Noether

February 23, 1935

Dear Mrs. Manning:

Thank you for your kind note of
February 21, which I shall send to Professor
Veblen. I shall write you further when I have
heard from him.

With all good wishes,

Sincerely yours,

ABRAHAM FLEXNER
~~RECEIVED~~

Mrs. Helen Taft Manning
Bryn Mawr College
Bryn Mawr, Pennsylvania

AF:ESB

February 18, 1935

Dear Dr. Billikopf:

When you were in Princeton two or three weeks ago you told me that arrangements had been practically made for Miss Noether next year. I wonder if you will be kind enough to let me know what they are, for I wish to make certain that her salary of \$4000 is secured.

With all good wishes and highest regard,

Sincerely yours,

ABRAHAM FLEXNER

Dr. Jacob Billikopf
380 South Ninth Street
Philadelphia, Pennsylvania

AF/MCE

Amale

February 28, 1935

Dear Mr. Billikopf:

I have yours of the 27th enclosing a copy of the letter of Secretary Ickes. It would seem to me that a copy of the letter should be sent to every member of the Board - not only to every member of your committee.

I have heard from Mrs. Manning and turned her letter over to Professor Veblen, who will act on it in conference with his colleagues at a very early day, and I have written Mrs. Manning to this effect.

As you were made Chairman of the special meeting held after I withdrew, I am sending you by express the copies of the minutes of the meeting which Dr. Jones sent to me. Inasmuch as the meeting was an executive session, I think these copies should not be put in the hands of the Secretary of the University at this time. I should in your place retain them for the present.

With all good wishes,

Sincerely yours,

ABRAHAM FLEXNER

Mr. Jacob Billikopf
316 Bankers Trust Building
Philadelphia, Pennsylvania

AF:ESB

PRESIDENT'S OFFICE

BRYN MAWR COLLEGE
BRYN MAWR
PENNA.

February 21, 1935

My dear Dr. Flexner,

Mr. Billikopf has asked me to let you know how things stand at present with regard to Dr. Emmy Noether's salary for next year.

We have actually received in checks \$700. and Mr. Littauer in New York has promised \$1000. on condition of the other money needed being raised. If therefore the Emergency Committee in Aid of Displaced German Scholarships should renew the grant of \$2000. which it has given for the last two years we should be rather near our goal for next year.

We had hoped as you probably know that the Rockefeller Foundation would also renew the grant of \$2000. and in that case that the donors to the special fund would be willing to have us hold their money and use it either as the beginning of a permanent fund or for Dr. Noether's salary in 1936-37. The letter I have received from Mr. Weaver of the Rockefeller Foundation is very discouraging, however. He asked me whether it was likely that the college could plan to make the appointment a permanent one, by which I take it he meant to ask whether we could put her salary on our regular budget. Unfortunately I had to write him that we had no plan by which this could be done in the immediate future because there was no vacancy in the Mathematics Department and because, remarkable as are her gifts, there seems every reason to suppose that Dr. Noether would not be able to handle undergraduate work in mathematics. Even the graduate students find her work hard and her standard of what may be expected from them somewhat high. Our only hope therefore would be that some day we might have research professorships at Bryn Mawr, for one of which Miss Noether would certainly be most eligible. After I had given this somewhat negative answer to the question I received another letter from Mr. Weaver saying that in view of my statement it seemed unlikely that the Rockefeller Foundation would renew the grant.

As soon as I hear from the Emergency Committee in

PRESIDENT'S OFFICE

BRYN MAWR COLLEGE
BRYN MAWR
PENNA.

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aid of Displaced German Scholars I shall let you know.

I made none! a.g. | Thanking you sincerely for your generous offer of assistance, I am

Sincerely yours,

Helen Taft Manning

Acting President of the College

Dr. Abraham Flexner
Institute for Advanced Study
Princeton, New Jersey

March 12, 1935

Dear Mrs. Manning:

I have not previously answered yours of February 21st because Professor Veblen wished an opportunity to lay the entire matter before his colleagues. After doing so he talked with President Park on the telephone this morning - so he informs me.

My suggestion would be that the question of providing for Dr. Neether be separated from that of raising the million dollar fund, and that President Park in person present the case to the Rockefeller Foundation, to Mr. Arnett of the General Education Board, to the Carl Schurz Memorial Foundation, 225 South Fifteenth Street, Philadelphia, and to the Josiah Macy Jr. Foundation, 565 Park Avenue, New York City. Through one or another or several of these sources I hope the college will be able to raise what is needed to retain the services of Dr. Neether.

Always sincerely,

ABRAHAM FLEXNER

Mrs. Helen Taft Manning
Bryn Mawr College
Bryn Mawr, Pennsylvania

AF/MCE

E. Noether

April 30, 1934

Miss E. Noether
Department of Mathematics
Bryn Mawr College
Bryn Mawr, Pennsylvania

Dear Miss Noether:

Professor Veblen has just returned to town and sent me your brief memorandum. I have great pleasure in sending you a check for your traveling expenses. The amount seems very small, in view of the value of your work.

It has been a great pleasure to renew your acquaintance under the happy auspices of the Institute and the University Faculty of Mathematics, and I hope very much that we shall see you again in the fall. Meanwhile, with best wishes for a safe crossing and a happy time, I am

Sincerely your friend,

ABRAHAM FLEXNER

AF:ESB