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MANOEGE CHARK PTEM

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MICHARA Subproject

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Grant of \$22,716.62 plus \$2456.00 fron

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Category of expenditure	, and the second	Amount
-Principal investigator's fees		\$ 2933,23
Research assistants, programmers, FICA and Employment Tax	including	6175,85
Secretarial salaries and faces		572.65
Experimental subjects		301,47
Consultants	• `4	万 501 . 54
Consultation with the		600,00
Design, engineering, and construct two teaching machines used in the including auxiliary equipment, puspare parts, engineering consulta and maintenance costs	project, rchase of nt's travel,	11,199,53
Stationery and books	*****	89.39
Printing and reproduction		804.17
Photographic supplies and processi	ng ,,,,,,,,,	122,63
Telephone, telegraph, postage, shi	pping	103,85
Tape recording equipment and suppl	ies	685.16
Statistical analysis and computing		41,50
Travel		1015,85
Space rental and overhead		24,60
Accounting error (properly to be one of the above categories)	counted with	1.00
: Grand tal	tal	\$ 25,172.62
Received in two grants		25,172,62
	nnce	\$ 0.00

I certify that construct or exterists have been satisfactorily received and the Expenditures were incurred an efficient numbers.

D::to: 3/23/64

September 19, 1960

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Memorandum to

Subject:

Teaching Machine Project

A final accounting and report will be forthcoming on this project when it is completed. In the meantime, Dr. informs us when he is need of a payment and that is forwarded to him.

The status on this project is as follows:

Total received:

\$22,716.62

Amounts forwarded:

June, 1959 5.679.62 February 1960 5.000.00

February 1960 5,000.00 August 1960 5,000.00

15,679.62

Balance in the account to date

\$ 7,037.00

I certify that this is a true statement of the status of this project.

Fobruary 11, 1910



Thank you for your letter of february 6th. We are all gled to hear that your work is progressing.

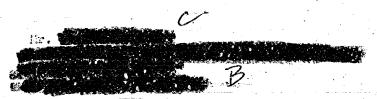
Heelbeed please find the eleck in the elecut of 35,000.05 as you reposted. We will not send any further fends until you again request them.

Sincerety.

Consistant Treasurer

Dic.

April 9, 1959



Dear Mr. C

6

We have reviewed Dr. proposal for a study of a teaching machine. In this proposal, he stated that willing to develop the teaching machine at an estimated cost of \$10,000. Or. On order as correctly. We would be pleased to collaborate in this study and essiet in Cosigning and engineering the machine which would be required. I do not think, however, we could justify participating in this contract in our role were limited solely to the design and Tebrication of the first machine.

Our interest in teaching machines stems from our professional concern in the area of applied psychology and education. We believe that the development of teaching machines is of long-range importance to the field of psychology, and as an organization active in this field, we are interested in their potentialities. Because of previous associations with professional verk in this field. But unless it were clearly understood at the outset along your organization, professional, and ourselves that would be expected to have a continuing interest in the development and result or our participation, we could not justify assigning personnel and facilities to this developmental work under this contract.

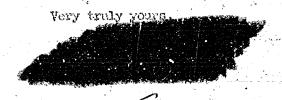
The essential fact is that this tie not in the manufacturing or engineering business. We do have a absoratory, the facilities
of which we employ for the development and improvement of equipment of
value in the field of perchapt. If we worked on the design of a teaching
machine, the week wealther done in our laboratory, and one of the criteria
we emply when selecting work to be done there is that it is likely to be of
percental value to

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In.

For this reason, we would want to be assured in advance that we would there equitably in any of the patents or copyrights which might result from such a joint project. Nost importantly, we would be interested in the factors correcting of any such device and the publication and distribution of any beaching natorials which would be used with it.

If correspondnts to achieve these goals can be worked out, and we feel confident that they can, we will be very pleased to collaborate in the project which Dr. proposes. We suggest, therefore, that your organization night arrespenses informal conversations to work out the desired arrespenses.



RECEIPT

Receipt is hereby acknowledged of the following:

Treasurer's check No. 166453 in the emount of \$22,716.62, drawn on the payable to

Date: Old May 1959

NO. more as an allowers from a commence

9-3505-45-902 MACOGA

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31 March 1959

MEMORANDUM FOR: THE COMPTROLLER

ATTENTION

: Finance Division

SUBJECT

: MKULTRA, Subproject 92

Under the authority granted in the Memorandum dated

13 April 1953 from the DCf to the DD/A, and the extension of this
authority in subsequent memoranda, Subproject 92 has been approved,
and \$22,716.63 of the over-all Project MKULTRA funds have been
oblighted to cover this subproject's expenses and should be charged
to Allotment 9-2502-75-902

A

TSS/Chemical Division

Approved for Obligation of Funds:

-

Research Lirector

Date:

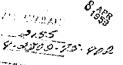
Distribution:

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1 - TSS/QC

1 - TSS/FASB

OPLICATION REFERENCE IN CHARGE TO ATEXT TO A







19 May 1959

MEMORANDUM FOR: Chief, Finance Division

VIA -

: TSS/Budget Officer

SUBJECT

: MKULTRA, Subproject 92, Invoice No. 1 Alletment 9-2502-75-902

1. Invoice No. I for the above subproject is attached. Payment should be made as follows:

Cashier's Check in the amount of \$22,716.62, drawn on a long and made payable to

- 2. Please forward the check to Acting Chief/TS5/Chemical Division through TS5/Bedget Officer by Thursday, 21 May 1959.
- 3. This is a final invoice. However, since it is anticipated that additional funds will be obligated for this project, the files should not be closed.



TSS/Chemical Division

Attachments: Invoice & Certifications

Distribution:
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Carrier that purios are available origation russice in ... 3755 Onace to augment in ... 9-2021-15-40.

AUTHORIZING OFFICER

CHECK LEWEN THE AMOUNT OF S.2916.62
RECEIVED. 22 1...

22₁₉₅₉

225Mas 59





19 May 1959

MEMORANDUM FOR: Chief, Finance Division

VIA ...

TSS/Budget Officer

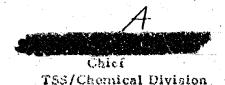
SUBJECT

: MKULTRA, Subproject 92, Invoice No. 1
Allotment 9-2502-75-902

1. Invoice No. I for the above subproject is attached. Payment should be made as follows:

E a Land made payable to

- 2. Please forward the check to Acting Chief/TSS/Chemical Division through TSS/Pedget Officer by Thursday, 21 May 1959.
- 5. This is a final invoice. However, since it is anticipated that additional funds will be obligated for this project, the files should not be closed.



Attachments:
Invoice & Cortifications

Distribution:
Orig & 2 - Addresses

1 - TSS/FASB

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TSS/CD/ (19 May 1959)





INVOICE

	For Servi	ces						\$22,7	16,62	
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-31 March 1959

MEMORANDUM FOR THE COMPTROLLER

ATTENTION

: Flazace Division

SUBJECT

: MKULTRA, Subproject 92

Under the authority granted in the Memorandum dated

13 April 1933 from the DCI to the ID/A, and the extension of this ,
authority in subsequent memoranda, Subproject 92 has been approved,
and \$23,715.62 of the over-all Project MKULTRA funds have been
obligated to cover this subproject's expenses and should be charged
to Alichment 7-2502-75-902

Chief
TSS/Chernical Division

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Approved for Obligation of Funds:

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Distribations

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1 - TSS/OC

1 - TSS/FASB

2 - TSS/CD

TSS/CD (31 March 1959)

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DRAFT/ 30 March 1959

MEMORANDUM FOR: THE RECORD

SUBJECT

MKULTRA, Subproject No. 92

- 1. The purpose of this project is to explore the usefulness of mechanization in foreign language training. It will involve the "programming" of language material for most effective learn- 'ing and will include the testing of such an approach on human subjects. This work is undertaken in response to a requirement established by the Office of Training.
- 2. Dr. a psychologist and linguist of B has submitted the attached proposal and budget to the covering the necessary research.
- 3. The Society's interest in international communication and intercultural phenomena generally, and its support of other projects involving individuals and institutions should provide cover for its participation in such a project.
- to unwitting agents. Any unused funds remaining at the conclusion of the project will be returned to the Agency. Travel funds will be



DRAFT/

accounted for in a manner consistent with the established practice

- 5. The total cost of the project will be \$22,716.62. Ch. ges should be made against Allotment 9-2502-75-902.
- 6. Dr. is approved by the Agency for access to Top Secret material.

A

Chief TSS/Chemical Division

ADPROVED FOR OBLIGATION OF FUNDS:

Research Director

Tata 8/14/3-1909

Distribution: Original only.

PROPOSAL '

Interest in the teaching of modern foreign languages has increased enormously in the last decade. Among recent indications of this surge of interest have been the provisions of the National Defense Education Act of 1958 for increased support of foreign language teaching and research, and the recommendations of the "Conant report" (The American High School Today, by James B. Conant) to the effect that talented high school students should study four years of a foreign language.

In seeking to make a contribution to the field of modern foreign planguage teaching, the writer's previous research efforts have been directed toward improving the selection of trainees and toward measuring the success of training. Even with the best possible methods of selecting trainees and measuring their achievement, however, the quality of the training given to the students is the most important factor in the ultimate success of language training programs, whether in schools and colleges or in governmental agencies.

Considerable interest has lately been evinced in the possibility of supplementing foreign language instruction by means of purely automatic "teaching machines" which would provide optimally "programmed" instruction. The central features of such machines would be: (a) arrangements for the sequential presentation of the material to be learned, broken down into relatively small units and graded in difficulty; (b) provision for appropriate responses to be made by the subject; (c) programming of the sequencing of the presentation as a function of whether the subject's responses are correct or not; and (d) a maximal degree of linkage between the machine and the learner. Because of these features, it is believed that learning might progress more rapidly and accurately with the machine than under the usual conditions of learning. It is hoped further that properly designed machines can surpass in efficiency such relatively simple devices as the tape recorder.

As suggested by Porter's review (2), the idea of automatic teaching machines is by no means new. Some years ago, Pressey, at Ohio State University, developed an instrument for automatic "self-testing." During World War II, the Special Devices Center of the Navy Department exploited a number of self-teaching mechanisms. An article by B. F. Skinner of Harvard University (3) was probably largely responsible for the present interest in teaching machines. Skinner viewed the problem from a somewhat novel angle, i.e., in terms of (a) breaking the behavior to be learned

into small units, (b) applying appropriate schedules of reinforcement, and (c) utilizing "prompts" in such a way that the availability of correct responses for reinforcement was enhanced. Skinner and others have developed and used teaching machines with considerable success in connection with the teaching of physics, psychology, arithmetic, vocabulary, and spelling.

Very little has been done with the teaching of foreign languages by machines with the automatic features of those used in the studies just mentioned, partly because the content being taught could be presented solely by visual display. There is a published account by Ferster and Sapon (1) of teaching a foreign language (German) be a very simple device constructed in accordance with Skinner's principles, but these investigators sought only to teach a knowledge of the written language. For foreign language teaching, correlated visual and auditory displays would obviously be desirable. It is true, of course, that various kinds of arrangements involving single-channel or dual-channel tape recordings have been employed extensively in so-called "language laboratories" connected with foreign language courses, but these machines do not have the programmed and automatic features which are central to the Skinner-type teaching machine.

It is the intent of this proposed research to explore the possibilities of developing a practical and efficient teaching machine for various aspects of foreign language instruction, to investigate what phases of instruction are best suited to teaching by machines, and to discover principles for the "programming" of material for most effective learning.

References:

- 1. Ferster, C. B., and Sapon, S.M. The teaching of German by an automatic teaching device. Harvard Educational Review, 1958, 28,
- 2 2. Porter, Douglas. Λ critical review of a portion of the literature on teaching devices. Harvard Educational Review, 1957, 27, 126-147.
- 3. Skinner, B.F. The science of learning and the art of teaching. Harvard Educational Review, 1954, 24, 86-97.

BUDGET

Salarie	es and Consulting of Principal Investigator.		.\$3,000.00
	m Annintant		\$5,216.62
	Experimental Subjects		
Servic	es and Supplies		\$11,700.00
Travel.	*************		\$1,000.00
Pent a	nd Overhead		\$ 800.00
	Total	L .	\$22,716.62