

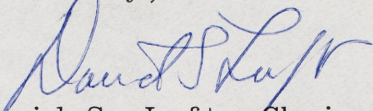
Committee on Research  
November 6, 1980

PROFESSOR PAULINE OLIVEROS  
Department of Music

Dear Professor Oliveros:

The Committee on Research is pleased to award \$525 in support of the preparation of your manuscript, "Software for People: Collected Writings." A transfer of funds to your department's account has been initiated.

Sincerely,

  
David S. Luft, Chairman  
Committee on Research

cc: Mariana Harrison

*Meenah Bond*  
25% COTTON FIBER



RESEARCH GRANT APPLICATION

SAN DIEGO:

ACADEMIC SENATE  
COMMITTEE ON RESEARCH

Date 9/17/80

NOTE: (1) Applications must be typewritten completed in full. Submit the original and seven xerox copies of the application.  
(2) If the application is for Computer funds only, submit the "Request for Computer Funds" application. Do not submit this form.

Name of Investigator(s) Pauline Oliveros Title Professor

Department Music Mail Code B-026

Funds to be Used 7/1/80 - 6/30/81 (Funds must be expended by June 30 of fiscal year for which award was made.)  
(From) (To)

Title of Project SOFTWARE FOR PEOPLE: COLLECTED WRITINGS 1963-80

Project is: New  Continuing  (Progress report included? See item No. 4.)

List all other previous funding from the Committee on Research. Attach any relevant progress report resulting from research grant.

Sum requested is for the following purposes:

**RESEARCH ASSISTANCE:**

(RA, programmer, clerical assistance - the Committee will consider requests for a minimum of of 50 pages of typed manuscript to be completed in final form. Shorter manuscripts should be prepared within the department.)

(Sub 2) \$ \_\_\_\_\_

Title \_\_\_\_\_

Duties \_\_\_\_\_

Rate of Pay \_\_\_\_\_

**SUPPLIES AND EXPENSE:**

Microfilm and Photostats. Itemize:

(Sub 3) \$ \_\_\_\_\_

Expendable Supplies. Itemize:

\$ \_\_\_\_\_

Field Expense. (Library study, museums, etc.) Itemize:

\$ \_\_\_\_\_

Travel (Aircoach fare or equivalent only)

Subsistence: \$ \_\_\_\_\_ per day for \_\_\_\_\_ days (Maximum of 15 days)

\$ \_\_\_\_\_

\$ \_\_\_\_\_

\$ \_\_\_\_\_

Other Expenses. Itemize:

Typing of manuscript  
approx. 350 pp @ \$1.50 per page

\$ 525.00

**COMPUTER EXPENSE:**

VAX \$ \_\_\_\_\_ CATT \$ \_\_\_\_\_ B-7800 \$ \_\_\_\_\_

Other Expenses. Itemize:

**PERMANENT EQUIPMENT (NONRECURRENT).**

Itemize:

(Sub 4) \$ \_\_\_\_\_

TOTAL REQUEST: \$ 525.00

Pauline Oliveros

Signature of Applicant

Signature of Joint Applicant

1. Does this project involve the use of Human Subjects (including the use of questionnaires, body fluids, and tissues)?  
Yes [ ] No []

If so, has approval from the Human Subjects committee been obtained?  
Yes [ ] No [] (If the answer is No, please explain why not.)

2. Does this project include recombinant DNA research or biohazard?  
Yes [ ] No []

If so, has an approved Memorandum of Understanding and Agreement (MUA) been filed with the Biosafety Committee?  
Yes [ ] No [ ] (If the answer is No, please explain why not.)

3. Describe the project in detail, including: (1) a precise statement of the problem and key objectives, (2) the relation of this work to other research in the field, (3) the plans of procedures, and (4) what kind of publication or creative contribution you would expect to result.

Justify fully the support requested for each category and indicate your priority for the items requested if only partial support can be granted. (One additional page, single-spaced and typewritten, may be added.)

Software for People: Collected Writings 1963-80 has been accepted for publication by Printed Editions this year. Funding is requested for the preparation of the manuscript by a typist. These writings contain technical Musical articles as well as criticism and philosophical essays. It is addressed to the field of contemporary music. It is the first book of such writings ever to appear by a woman composer. Some of the writings have been previously published in small journals and some have never been published. It is necessary to prepare the manuscript in a unified form for the typesetter. The manuscript is technical; it includes graphics and illustrations.

*Preparation of Material*

4. If you have received a Committee on Research grant in the past, describe the progress made. (Amount of grant received \$ 553.) If research has accumulated in publications, please attach citations.

My previous grant was for transcriptions of interviews concerning musical attention. The transcription was completed and the manuscripts are being edited in conjunction with the persons interviewed. Several of the interviews with commentary are under consideration for publication.

5. Either attach copies of a recent vita including a bibliography, or list *related* publications during the last five years.

vita attached

6. Have you applied to extra-mural funding agents in support of this particular research project?

Yes [ ] No [x]

If the answer is yes, please give details, including name of agency, amount of grant applied for, and expected date of grant announcement. If the answer is no, please explain why not.

There was no funding source available.

7. Give a list of (a) and (b) below irrespective of the relationship to the work proposed here:

- (a) All other grants or contracts (extra- or intra-mural). Give title, source, amount and funding period presently funding your work.

Preparation of Material: 1978-79, \$553

- (b) All extra- or intra-mural research grant or contract applications pending (title, source, amount and funding period).

Not applicable to this award.

Professor Oliveros is on sabbatical and has no pending grant applications to my knowledge.

(C. Georgalis)

In each case, indicate to the Committee how the grant or application is not related to this application.

*If you receive notification of an award from another source after you make this application, this information must immediately be reported to the Committee.*

SAN DIEGO: ACADEMIC SENATE  
COMMITTEE ON RESEARCH

RESEARCH GRANT APPLICATION

NOTE: Before this application can be considered,

- (1) All sections must be filled out,
- (2) Progress reports of all previous grants by the Committee on Research must be included. \*(See Section III )

Name Pauline Oliveros Department MUSIC Date 6-17-73  
(If individual request)

TITLE OF PRESENT PROJECT: Sonic Meditation with Electronic Environment

DATE FUNDS TO BE USED: July 1, 1973 - October 1973

- (1) Project is        New, or
- (2) Growing out of Previous Project   X  , under Grant No. 789.1 Year 1973

I. BUDGET FOR USE OF FUNDS:

Title Research Assistant  
Assistance: Duties \_\_\_\_\_  
Sub 2 Rate of pay 25% for three months at base rate  
Number of Hours \_\_\_\_\_ of \$670/month  
TOTAL Sub 2: \$502.50  
[Sub. 6 Employee Benefits = 2.06]

Supplies & Equipment: Sub 3 S&E (Itemize)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Total: -0-

Microfilm, Photostats: Sub 3 S&E (Itemize)

\_\_\_\_\_  
\_\_\_\_\_  
Total: -0-

Field Expenses (Field trips, library study, museums, etc.)

(1) Travel: Total mileage: \_\_\_\_\_ or  
Destination: \_\_\_\_\_

(2) Subsistence: (No. of days) \_\_\_\_\_ Total: -0-

TOTAL Sub 3: \$ -0-

Nonrecurrent Permanent Equipment, Sub 4 - E&F (Itemize)

\_\_\_\_\_  
\_\_\_\_\_  
TOTAL Sub 4: \$ -0-

APPLICATION TOTAL: \$ 504.50

PLEASE COMPLETE PAGE TWO AND THREE

II. DESCRIBE SUPPORT OF RESEARCH for the project described, including departmental funds: (Include all other funds to be used.)

The Project for Music Experiment (Music Dept.) will supply non- recurrent permanent equipment. Amt. \$ \$3,000  
 Secretarial service will also be provided for write-up. Amt. \$ as needed

Previous grants received from Committee on Research, Academic Senate:

#798.1	/	1972-73	/	\$7,000		509	/	1970	/	\$4,000
Grant No.		Year		Amount		Grant No.		Year		Amount

SUPPORT OF RESEARCH FROM ALL OUTSIDE SOURCES of all your projects, even if not related to present proposal: List by title and agency:

1. Received in preceding year:

- (a) -0-  
 Title and agency Amount
- (b) \_\_\_\_\_  
 Title and agency Amount
- (c) \_\_\_\_\_  
 Title and agency Amount
- (d) \_\_\_\_\_  
 Title and agency Amount

2. Received or pending applications for fiscal year for which application is made:

- (a) -0-  
 Title and agency Amount
- (b) \_\_\_\_\_  
 Title and agency Amount
- (c) \_\_\_\_\_  
 Title and agency Amount
- (d) \_\_\_\_\_  
 Title and agency Amount
- (e) \_\_\_\_\_  
 Title and agency Amount

\* III. PREVIOUS PROJECTS: If report of progress on all previous projects have been forwarded to the Academic Senate Office, Committee on Research, please note here:

Electronic Environment	/	Winter 1970		/	
Project		Date		Project	Date

IF REPORTS HAVE NOT BEEN SUBMITTED, please attach original and six copies, for each project, to this form.

PLEASE COMPLETE PAGE THREE

IV. DESCRIBE PROJECT: Indicate plan of procedure, objectives and relation of this to other work in the field.

Due to various complications in the Spring Quarter--mostly being unable to get delivery of equipment in time and also a greater amount of preparatory work needed with set-up, I find it necessary to return a portion of the funds allocated to me for a Research Assistant on my Sonic Meditations' grant.

I would like to submit a request to renew this grant in the amount of \$502.50 for a Research Assistant for 1973-74 (plus \$2.06 in Employee Benefits). These funds would be used to employ one R.A. for three months at 25% to complete this current project.

PLEASE SEE ATTACHED DESCRIPTION FROM PRIOR APPLICATION

V. LIST YOUR RECENT PUBLICATIONS related to or preparatory to the project proposed. (If more convenient, use reverse of this page, or attach another sheet.)

\_\_\_\_\_  
(Signature of Joint Applicant, if any)

*Pauline Oliveros*  
\_\_\_\_\_  
Signature of Applicant

INSTRUCTIONS: Submit an original, signed application, and six copies for each project for which funds are requested to the Academic Senate Office, Comm. on Research, 106 MC.

APPROVAL	
Committee Action: _____	
_____ Chairman, Committee on Research	_____ Date

DESCRIPTION FROM GRANT #798.1 Pauline Oliveros

To couple individuals or groups connected to bio-potential control circuitry<sup>1</sup> with electronic music and light modules in order to give the subjects control over as many musical and visual elements as possible: i.e., sound--pitch, volume, duration and quality. light--color, intensity, attack and decay time.

The equipment will allow for performance and composition with bio-potentials as controls as well as in combination with conventional controls. The sonic/visual feedback will also enable performers to train or learn to produce the desired states of consciousness which are associated with specific bio-potentials. All experiments will be tape recorded for reference.

My initial research toward a proposed "Electronic Environment" to result in an installation in the Art Gallery has taken a different direction. Originally I had intended a semi-automatic environment of light and sound which would be influenced by the presence of a visitor or visitors in combination with environmental factors such as temperature, humidity, wind direction, and other elements of weather. The grant (#509) received enabled me to work with custom circuitry controlling heat sensors and brainwave transducers. (In a current experiment, the subject is wired for brainwave amplification and a heat sensor is placed near one nostril. The temperature of the breath controls the frequency of an oscillator. The amplitude of alpha brainwaves triggers the oscillator on and off.) I became increasingly concerned with the psycho-physiological states of performers and audience in relation to environments. This concern led to the formation of a performance group devoted to an exploration of consciousness during sound making. I developed autogenic training exercises and composed a number of Sonic Meditations. The Sonic Meditations help to enhance certain psychological and physiological states which have interesting potential not only in relation to performance with electronic instrumentation, but also for performers of acoustical instruments. My performance group has been working for two years now. At this point I am ready to expand the electronic instrumentation in order to instrument a group as well as individuals for bio-potentials, coupled with electronic music and light modules, in order to give the subjects feedback and control over as many musical and visual elements as possible electronically, i.e., Sound--pitch, volume, duration, and quality. Light--color, intensity, attack and decay. The equipment will allow for performance and composition with bio-potentials as controls as well as in combination with more conventional controls. The sonic/visual feedback will also enable performers to train or learn to produce the desc<sup>ESTP</sup>~~old~~ states of consciousness which are associated with specific bio-potentials. This new concept for the proposed "Electronic Environment," using appropriate electronic transformations of human bio-potentials, will result in an organic light/sound environment. It will also be possible to monitor quantitatively, human responses to the environment as well as to different kinds of music.

This direction for Electronic Music is one of the most recent extensions of the relationship between composer/performer, electronic equipment and environment. Recent research in Psychology and Neurophysiology on human consciousness has opened this path.



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