

State University of New York 99 Washington Avenue Albany, New York 12246

Office of the Vice Chancellor for Educational Services

August 3, 1977

Mrs. Steina Vasulka 257 Franklin Street Buffalo, NY 14202

Dear Steina:

I'm delighted you've agreed to be the featured artist for SUNY's 1977-78 The Moving Image/The Maker program. It's been an excellent series, and your participation will assure its quality and take us in an important new direction.

I've written up the poster copy and have enclosed it for your records. As soon as the poster is designed and printed, it will be distributed to the campuses, and we can expect to receive requests for dates by mid-September. My assistant Nancy Brown will handle the booking details and will be in touch with you as requests come in.

We've budgeted for ten campus visits. If we receive more requests and our funds can be stretched to accommodate additional engagements, we'll consult with you about accepting a few more. Last year there were thirteen visits. However, as you and I discussed, this is the first year for video, and we may find less campus interest for video than for film. I hope not!

To review what we discussed: you'll be at each participating campus from about noon of the first day until noon of the second, varying this plan to suit particular campus needs. While on campus, your schedule should include a public showing of your work and that of other artists you want to include; seminars with classes or informal groupings of students to discuss your work and the tools and techniques you employ; a visit to campus media centers to consult about equipment at hand and its use; informal times with interested students and faculty to talk about the field.

We'll talk to each sponsor to assure a well-planned schedule, and I think you should do the same. We've found that advance planning, and suggestions from the artist about what should be included in the visit, helps a great deal. Mrs. Vasulka August 3, 1977 Page 2

In terms of equipment, we'll ask host campuses to provide you with 3/4 or 1/2 inch playback equipment folus at least one color monitor, or more if the space requires it. Will you bring any equipment with you at all to demonstrate what you've developed? We discussed this, but I can't recall what you said.

You'll receive \$400 per visit, inclusive of your travel expenses. My office will pay half the portion of the fee, or \$200, and will need your social security number to process checks. Campuses are asked to provide you with overnight housing.

I think it would be helpful for us to have a list and description of the tapes you'll show so we can talk about the program intelligently with potential hosts. When you have an idea of a program, please call Nancy and me, and we'll take copious notes and can type up a tentative program to send to sponsors.

Finally, do you have a photo of yourself that can be used at campuses for advance publicity?

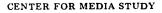
Again, I'm looking forward to working with you this year and am very happy your work will be seen at our colleges across the state. Regards to Woody--talk to you soon.

Sincerely,

Patricia Kerr/Ross Director, University-wide Programs in the Arts

PKR:ss

State University of New York at Buffalo



FACULTY OF ARTS AND LETTERS

December 18, 1979

Mr. Ron Schultz KOY-3 Productions Apt. #9 3356 Rowena Avenue Los Angeles, CA 90027

Dear Ron:

I am sending you in a separate package the cassette of Bob Creeley's reading by Steina and Woody Vasulka. It is my understanding that you will make a copy from the original and that you will return the original to me at 207 Delaware Avenue, Buffalo, New York 14202. I shall then return it to the Vasulkas. Ownership of the physical materials of the original resides with the Vasulkas. Rights to the distribution or transmission in any form resides with Bob Creeley.

It is also my understanding that you have Bob Creeley's permission to use this tape on your Los Angeles public access program, The Poet's Voice.

Best wishes. Gerald Of Grady Director

go'g:mwk cms

cc: Bob Creeley Woody and Steina Vasulka SUNY/Euffalo

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INSTITUTIONAL FUNDS CONTINUED

Wode Revised 2/10/77

Application for Research Lundo

Date March 15, 1977

B. Woody Vasulka	Center for Media Study	310 Wende Hall
Name of applicant	Dept., School	310 Wende Hall Campus Address

Associate Professor

Academic rank (print as it appears on your appointment form)

Research in 8-Bit Micro Processor Subsystem for videographic, character generation, and image processing Title Of Froject

One Year	June 1, 1977	June 1, 1978
Duration of Project:	Eeginning date	Ending date
ing this connittee, d If so, give amount Have you submitted a f Have you applied or re- result of that grant? If so, list: Agency	vious awards from university-w aring or since Spring 1973? Final report on that grant? eccived any outside support as	<u>NO</u>
time in employment ber goal and are either re are grad. asst. regist registered for and vo: pendent study, do not Undergraduates or non- Travel Domestic or for Supplies Including of Equipment Over \$190	Graduate students working pa neficial to students education egistered for 9 credits or more tered for 6 credits or more or rking full-time on thesis or i have staff benefits charged. -students (21% staff benefits oreign - specify coach rate opying, under \$100 t fees, etc., cxplain in TOTAL	al e, nde-
New regular - new Regular - new to X New pilot - new Continuation pile This information is n Description of project your project. Set fo significance, show ho you will report resul you expect to perform	ne of the following groupings: ver tried at SUNYAB (SUNYAE but now being continue righting anywhere of - new pilot in its first or eccessary to complete our annua t; On an accompanying sheet of rth your hypothesis or problem w you plan to gather and analy ts. Justify your Ludget in to . You will do the committee a good words or less. REFER TO Signature of Do	ed second year al report. concisely describe a, indicate its vize the data, and how erms of the operations a favor if you confir GUIDELINES 1.0 Junt

IMPORTANT: CAREFULLY READ THE INSTRUCTIONS BEFORE COMPLETING THIS FORM. SUNY / RESEARCH FOUNDATION APPLICATION . FOR COMMITTEE USE ONLY . SUB-COMMITTEE CHAIRMAN REVIENER RETAIN ONE COPY AND FORWARD REMAINING AWARDS COMMITTEE COPIES TO UNIVERSIT LENTER REVIEW CATEGORY USING NAME NUMBER CHART OF CONTROL NO. HOSKAN CHARLE V 44 ACCTS . LISTING ON OPPOSITE PAGE Other 86 2 PLEASE CHECK ONLY ONE OF THE FOLLOWING TYPES OF AWARDS AMOUNT REQUESTED FACULTY RESEARCH FELLOWSHIP . PROGRAM 1 s X PROGRAM 2 GRANT-IN-AID -5 3.400 FACULTY RESEARCH FELLOWSHIP* AND GRANT-IN-AID PROGRAM 3 15 . AMOUNT CONTINGENT ON BUDGETARY APPROPRIATION 1], IF THIS PROJECT IS TO BE EXECUTED IN COOPERATION WITH MR. M5. 3, DR. MISS MRS. OTHER INVESTIGATORS, SUBMITTING SEPARATE APPLICATIONS PRINCIPAL INVESTIGATOR (LAST, FIRST, INITIAL) LIST NAMES, CAMPUSES, AND SOCIAL SECURITY NUMBERS. Vasulka, Bohuslav Woody ACADEMIC TITLE 5. Assoc Professor. Tenured DEPARTMENT 6. Center for Media Study CAMPUS NAME AND ADDRESS 7. SUNY/Buffalo SOCIAL SECURITY NUMBER THIS PROJECT WILL BE CARRIED OUT 8. 9. ON CAMPUS X OFF CAMPUS STREET HOME ADDRESS CITY & STATE ZIP CODE 10. 257 Franklin St Buffalo NY 14202 12 DEGREES HELD INSTITUTION YEAR 13 PROFESSIONAL POSITIONS HELD BY PRIN. INVEST. DATES see vita attached see vita attached

TITLE OF PROJECT (MUST NOT EXCEED 60 DIG TS, INCLUDING SPACES AND PUNCTUATION):

^{14.} Art Exploration of Computer Languages

15. BRIEF SUMMARY OF PROJECT, INCLUDING OBJECTIVES, SIGNIFICANCE, AND GENERAL PROCEDURES (LIMIT TO THIS PAGE). Background: In the realm of science and industry there exists a developed knowledge of computer sciences, specifically certain programs and languages analyzing and synthesizing the conditions of space, two dimensional framt structures and other time/energy concepts. Not enough of that computer knowledge has become the tool of arts such as cinema, video, and elec tronic music. Purpose: To examine, analyze, catalog and report on existing computer languages and programs for possible use as tools for artistic creation. Method: 1) By further research of literature, the PI will identify selected scientific/industrial programs such as speech synthesis, tonal structure analysis and generation, behavioral models such as stress waves, pressure conditions in plasmas, and images as data-structures; 2) based on these identifications, the PI will travel to at least 5 computer centers such as Bell Labs, Los Alamos, NASA/ Houston, G.E. Visual Labs, and Salt Lake to gather programs; 3) these programs will be run on the large computer at SUNY/Buffalo w/ unmodified output capabilities to identify active components useful for arts/creative applications (if the SUNY computer is unavailable, the experiment will be fully conclusive carried out at the PI's personal computer); 4) the isolated components of programs will be examined more fully on PI's own PDP11-03 with modified output devises to determine in more detail their content, textures and potentials. Conditions: The problem to be examined is not a singular event in the PI's history of image and sound experimentation, but an evolutionary step in acquisition and use of new systems by the arts. Results The method will generate a set of basic practical programs usable as personal creative tools.

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16. PROPOSED BUDGET

IF YOU ARE APPLYING FOR A FACULTY RESEARCH FELLOWSHIP UNDER PROGRAM 1, ENTER STIPEND REQUESTED. IF YOU ARE APPLYING FOR A GRANT-IN-AID UNDER PROGRAM 2, ITEMIZE ALL BUDGET ENTRIES IN DETAIL. IF YOU ARE APPLYING FOR A COMBINATION OF A FACULTY RESEARCH FELLOWSHIP AND GRANT-IN-AID UNDER PROGRAM 3, ENTER BOTH STIPEND REQUESTED AND ITEMIZE BUDGET IN DETAIL. UNDER PROGRAM 2 AND PROGRAM 3, FAILURE TO ITEMIZE BUDGET ENTRIES IN DETAIL MAY RESULT IN THEIR AUTOMATIC DELETION. IN ADDITION, JUSTIFY ALL ITEMS OF SUPPLIES AND EQUIPMENT EXCEEDING \$100, USING A SEPARATE SHEET, AS REQUIRED.

	1
STIPEND (APPLICABLE ONLY UNDER PROGRAMS 1 AND 3) AMOUNT CONTINGENT ON BUDGETARY APPROPRIATION	5
PAYROLL (SPECIFY SALARIES AND FRINGE BENEFITS, THIS CATEGORY NOT TO INCLUDE THOSE FOR APPLICANT.)	
Graduate assistant stipends: \$5/hr, 20 hrs/wk, 10 weeks TOTAL SALARIES	^s 1,000
TOTAL FRINGE BENEFITS AT CURRENT COST RATE	5
CONSULTANT SERVICES	
Computer programmers	^{\$} 150
TRAVEL (ITEMIZE TRAVEL, FOOD, LODGING, ETC.) 5 trips, \$250/trip	
FOREIGN TOMESTIC PER diem @ \$30/day, 10 days	^s 1,550
CONSUMABLE SUPPLIES	
Data disketts Paper tape	\$ 450
EQUIPMENT	
	5
MISCELLANEOUS Design and engineering modifications of equipment: certain programs will	
require changes in the character of output materials (sound/image).	\$ 250
GRAND TOTAL REQUESTED	\$ 3,400

USE ADDITIONAL SHEETS AS REQUIRED FOR QUESTIONS 17 - 28. ANSWER IN NUMERIC ORDER.

17.	WILL YOU USE THIS PROJECT IN WORK LEADING TO A DEGREE!	YES	X NO	
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18.	IS THIS YOUR FIRST APPLICATION TO UAC?	YES	X NO	

19. LIST ANY APPLICATIONS CURRENTLY UNDER CONSIDERATION BY SPONSOR(S) OUTSIDE THE UNIVERSITY. SPECIFY SPONSOR(S), PROJECT TITLE(S) AND AMOUNT(S). IF YOU HAVE RECEIVED A PREVIOUS UNIVERSITY AWARD(S) AND ARE NOW REQUESTING MORE THAN \$1,000, ATTACH FACE SHEET AND ABSTRACT OF THE PROPOSAL(S) AND OBTAIN SIGNATURE REQUIRED IN ITEM 36. IF THESE APPLICATIONS WERE NOT SUBMITTED THROUGH YOUR LOCAL CAMPUS RESEARCH OFFICE, ATTACH OTHER EVIDENCE OF SUBMISSION. IF YOU HAVE NOT SOUGHT SUPPORT ELSEWHERE, EXPLAIN WHY YOU HAVE NOT DONE SO.

none FACE SHEET AND ABSTRACT ATTACHED

F362-476	•
20. LIST ALL PROJECTS FOR WHICH YOU HAVE LAST FIVE YEARS. SPECIFY SOURCES, AMO	RECEIVED SUPPORT FROM ANY SOURCE, INCLUDING UAC, WITHIN THE UNTS, TITLES AND DATES.
See attached list	
Dee allached 1200	
21. IF YOU <u>ARE A PREVIOUS RECIPIENT OF A U</u> UNDER THE <u>LAST</u> AWARD RECEIVED, ALONG CRITICAL REVIEW, PHOTOGRAPHS, ETC. FAILURE TO DO SO WILL DISQUALIFY YOUR	NIVERSITY AWARD(S), APPEND A REPORT SUMMARIZING ACCOMPLISHMENTS 5 WITH CONFIRMING EVIDENCE SUCH AS AN ARTICLE, MONOGRAPH, APPLICATION.
REPORT ATTACHED.	
E REPORT ATTACILS.	
22. IF THIS PROJECT OR A SIMILAR ONE HAS BE THIS PROJECT DIFFERS.	EN SUBMITTED TO A PRIOR SERIES, YOU MAY WISH TO INDICATE HOW
Not directly r	elated
	VAILABLE FOR THIS PROJECT (INCLUDE HERE ANY INDICATION OF SPACE, SUPPLIES, ETC., WHICH MIGHT BE PROVIDED BY A SUNY THIS REQUEST IS FAVORABLE).
See statement under <u>M</u>	ethod, page 2, item 3) in the attached proposal
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24. DESCRIBE NON-STATE UNIVERSITY FACILIT YOU TO ASSURE THE COMMITTEE AS TO THE FACILITIES WHICH MAY BE REQUIRED IN TH	IES OR RESOURCES REQUIRED FOR THE PROJECT (THE BURDEN IS ON ACCESSIBILITY AND AVAILABILITY OF ANY SPECIAL RESOURCES OR E CONDUCT OF YOUR STUDY).
See statement under <u>M</u>	ethod, page 2, item 3) in attached proposal
25. INDICATE ANY PLANS FOR EXHIBITION, PER PROJECT.	RFORMANCES, PUBLICATIONS, ETC. OF THE RESULTS OF THIS
See statement under <u>Re</u>	esults, page 4, attached proposal
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IF APPROPRIATE, PUBLICATIONS. SUBMIT RECORDINGS, MANUSCRIPTS, PUBLISHED WO AND MIXED MEDIA, SUBMIT 10 TO 18 SLIDES INCLUDE DIFFERENT VIEWS OF INDIVIDUAL LOCATION. IN FILM AND PHOTOGRAPHY, YO	SSIONS, COLLECTIONS, AWARDS, GRANTS, CRITICAL REVIEWS, AND, EXAMPLES OF YOUR CREATIVE WORK SUCH AS SCORES, TAPES, ORKS. WITH THE APPLICATION FOR PAINTING, SCULPTURE, CRAFTS OR PHOTOGRAPHS OF RECENT WORKS. IF YOU WISH, YOU MAY PIECES. LABEL EACH SLIDE AS TO DIMENSION AND PRESENT OU MAY SUBMIT EXAMPLES OF WORK IN THE ORIGINAL FORM. SINCE CREATIVE WORK BY OUTSIDE SOURCES WOULD BE HELPFUL, YOU . REVIEWS, CITATIONS, CATALOGUES, ETC.
See vita	
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	PROJECT INCLUDING BACKGROUND, CURRENT STATUS, TIME NOD AND THE RELATION OF THE PRESENT PROJECT TO YOUR E LIMIT TO ONE PAGE, IF POSSIBLE).
See attached proposal	
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28. PROVIDE A BIOGRAPHICAL SKETCH INCLUDING YOUR RELEVANT PERSONAL HISTORY, SUCH AS DATE OF BIRTH, EDUCATION, PROFESSIONAL BACKGROUND AND OTHER QUALIFICATIONS, BUT EXCLUDING INFOR-MATION CONTAINED ON THE FIRST PAGE OF THIS APPLICATION FORM.

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See **v**ita

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362-476	RENCES			
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	PLEASE REFER TO OUTSIDE (FALL 1973, 1974 AND 1975)	REFERENCES IN SUPI	PORT OF A PAST PROJECT S	
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X	I WILL OBTAIN NEW REFERE	NCES IN SUPPORT OF	THIS PROJECT.	
	NAME		LOCATION.	
	Dr. Kenneth Knowlton	n :	Bell Laborato	
	Dr. Robert Jungels	•		R.I. School of Design
	Daniel Sandine			J. of Ill, Chicago Circle stems Corp./ Cambridge
	Gerd Stern Dr. Joel Chadabe			sity Center, Albany
0., 31.,		O CREATIVE PROJEC		ily center, midaly
3. AGRE	EMENT BETWEEN APPLICAN	AND THE JOINT AWA	RDS COUNCIL/UNIVERSITY	AWARDS COMMITTEE
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1. тн	AT THE AWARD MAY BE REVO	KED IN WHOLE OR IN	PART AT ANY TIME BY THE	E JOINT AWARDS COUNCIL/UNIVERS
				IT'S RELATIONSHIP WITH THE STAT ICLUDE ANY AMOUNT OBLIGATE:
·PR	EVIOUS TO THE EFFECTIVE	DATE OF REVOCATION	IF SUCH OBLIGATIONS WEF	E MADE SOLELY FOR THE PURP
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AN	INOUNCEMENTS, GUIDELINES			NAWARDS' AND ELSEWHERE HAVE
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01	ITLINED HEREIN, AND ANY F	UNDS NOT EXPENDED	FOR THIS PURPOSE SHALL	REVERT TO THE RESEARCH
FC	UNDATION OF STATE UNIVER	RSITY OF NEW YORK U	PON COMPLETION OF THE F	PROJECT OR TERMINATION
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	D POLICIES FOR SUNY/RESEA			
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	I	T SUPPORT IN THIS P.	ARTICULAR FORM WILL BE	SUFFICIENT TO CARRY OUT THIS
PROJ			L	DATE OCT 13
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IMPORT	TANT - OBTAIN LOCAL ADMINI	STRATIVE APPROVAL	. BEFORE SUBMISSION TO TH	IE UNIVERSITY AWARDS COMMITTE
5. CERT	FICATION BY CAMPUS INSTIT	UTION WHERE HUMAN	SUBJECTS ARE INVOLVED;	NUE TO BE MADE TO INSURE
A D	DEPENDENT REVIEW BY APPL EQUATE PROTECTION OF : (1) THE RIGHTS AND WE	LFARE OF THE INDIVIDUAL	S INVOLVED; (2) THE
AP	PROPRIATENESS OF THE MET	HODS USED TO OBTAI	N INFORMED CONSENT, AND	(3) THE RISKS AND POTENTIAL
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During the past decade, the use of electronic computers has begun to change the arts -- and especially those associated with such media of mass communication as film, video and sound -- as profoundly as it has effected every other aspect of production and distribution in our society.

At the same time, two factors have inhibited the growth of computer use in the arts. First of all, the cost of large computer systems has thus far kept them primarily in the hands of large corporations, public institutions and government agencies. Since time-sharing is fundamentally unsuited to real-time composition and execution in the arts, because it is bound to introduce discontinuity into the flow of the work, only a few artists have been able to work sporadically in large facilities, such as those at Bell Laboratories, that can be dedicated, at least for continuous periods of several hours to creative work in the media arts; moreover, that these few facilities are, at the present time, largely obsolesent.

However, with the advent of micro-computers during the past two years, hardware costs have fallen so rapidly that it is now possible for an individual artist to own a complete small computer system with considerable flexibility for well under \$5,000.

Secondly, existing software (computer languages and programs) have mitigated against the use of the computer as a tool for the arts. While the electronic computer is in no way inherently better suited to scientific and business application than to other uses, most existing software has been developed to meet the needs of the communities that could afford them; the writing of a computer language is an intricate and lengthly task, and therefore, in one sense or another, costly.

It is to this latter problem, then, that the proposed research addresses itself.

Goal of the Research:

The goal of the research is to define criteria for, and design in outline, a new high-level computer language for the arts. In its implementation, it is assumed that such a language must meet at least four requirements:

- 1) That is shall run in small stand-alone systems, affordable by individual and small groups;
- 2) that it shall interface with, and be capable of controlling, the largest possible variety of existing media arts tools. (For example, music and video synthesizers, film animation devices, typewriters, X-Y plotter drawing machines.)
- 3) That it shall generate and control data for all sensory parameters (especially speech, music, written language, and moving visual imagery in full color, texture, and perspective); simultaneously, in real time, through a single parsimonious structure of commands; and
- 4) that it shall be highly interactive, querying the user-artist ...who is not assumed to be a trained programmer...from a standard TV or teletype terminal.

Significance of the Research:

To the knowledge of the investigator, the design criteria for such a high-level language have never been defined. At its completion, the project proposes to place in the hands of individual artists, the full power of the electronic computer as a creative tool.

Manner of Performing the Research:

The work will be undertaken in continuous consultation with at least one colleague (Associate Professor Hollis Frampton, Center for Media Study) and with a number of graduate students, who will receive credit for their participation in either or both of two graduate courses, descriptions of which are attached (or in independent study)...and in an environment that permits constant hands on use of a small computer system for program development. This environment will also have access to the creative media studies existing hardware resources in film and video.

Manner of Reporting Results:

A written report will be prepared embodying the results of this research. This report will be submitted to the appropriate Special Interest Groups of the Association for Computing Machinery, and to other professional organizations, with a view to publication and conference presentation. Software and documentation will be made available to all interested parties for the cost of duplication and shipping.

Period during which research will be performed:

June 1, 1977 to June 1, 1978

Request for Funds:

Funds are requested for purchasing of equipment (a small computer system for software development) an itemized list of which is attached. This equipment will also be available to qualified graduate students in Center for Media Study for work on other projects. 8-Bit Micro Processor Subsystem for videographic, character generation, and image processing

The following is a list of hardware and software for an 8-bit subsystem intended for interfacing with a Digital Equipment Corporation LSI 11/45, 16-Bit Minicomputer Specifications are for items that are plug- and signalcompatible with the so-called L-100 computer bus system; operating systems and utility software are written for, or are fully compatible with, the instruction set of the Zilog Corporation's Z-80 Microprocessor. In all cases, appropriate driver software and Input/Output routines are included in hardware prices.

With the exception of the Video Monitor and Audio Cassette Recorder, both of which are standard items that must be dedicated to this application, all the listed hardware and software are available direct from Process Technology, 6200 Hollis Street, Emeryville, California 94608.

1 @ SOL-20 Terminal Computer	\$1450.00
1 @ SOLOS Operating System Firmware Module	100.00
1 @ ALS-8 Resident Assembly Language Module	425.00
1 @ SIM-1 Resident Interpretive Simulator	95.00
1 @ TXT-2 Resident Text Editor	95.00
2 @ 8-KRA 8192 -Byte Static Ram Module @ \$375	750.00
1 @ 4-KRA 4096-Byte Static Ram Module	175.00
1 @ 12-inch black-and-white video monitor	150.00
1 @ Audio-cassette recorder Monaural	150.00
TOTAL	\$3390.00

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UNIVERSITY AWARDS COMMITTEE



c/o THE RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK P.O. Box 7126, Albany, New York 12224

DECEMBER 15,1974

MR. BOHUSLAV W. VASULKA ASSISTANT PROFESSOR DEPARTMENT OF CENTER FOR MEDIA STUDY STATE UNIVERSITY OF NEW YORK AT BUFFALD BUFFALD, NEW YORK 14214

DEAR PROFESSOR VASULKA,

AS YOU PROBABLY KNOW, EACH YEAR THE COMMITTEE RECEIVES MANY MORE APPLICATIONS THAN CAN BE SUP-PORTED. IN ADDITION, YOUR APPLICATION WAS IN SEVERE COMPETITION WITH THOSE OF YOUR COLLEAGUES IN THE UNIVERSITY.

YOUR APPLICATION FOR THE PROJECT, IGRAMMAR OF ELECTRONIC IMAGE!, WAS PLACED IN THE CATEGORY, SUPPORTABLE BUT NOT FUNDABLE, WHICH INCLUDES THOSE PROPOSALS WHICH HAVE THE COMMITTEES ENDORSEMENT, BUT WHERE FISCAL LIMITATIONS PREVENTED FUNDING.

THE ADMINISTRATION ON YOUR CAMPUS HAS BEEN INFORMED OF THIS ACTION IN THE HOPES OF THE POS-SIBILITY THAT OTHER SOURCES OF FUNDS MIGHT BE AVAILABLE.

ON BEHALF OF YOUR FACULTY COLLEAGUES ON THE COMMITTEE AND OTHERS' CONCERNED, WE HOPE THAT THE COMMITTEES RECOMMENDATION WILL BE OF SOME ASSIST-ANCE IN OBTAINING OTHER SUPPORT FOR YOUR PROJECT.

FOR THE JOINT AWARDS COUNCIL

Mort Grant

MORT GRANT RECORDER

SECTION TESSET MERAL

•	LEASTATIONS - Use of the rateful contained in this universe is subject to any
	statutory or chinistrative to chinist and is applicable to a given grant or contruct
	only in the extint that funds . I available. Acceptence of the paters, agreed to
	bernin is predicated on the constraines: (1) that no costs other than these incurred by
	the granter/contractor were we haved in its indirect cast poll as finally accepted and
	that such easts are legal obligations of the grantic contractor and ellicable under the
	coverning east principles, (2) that the same costs of the seen treated as indirect
·	costs are not claimed as direct costs, (3) that similar types of costs have been
	accorded envisions accounting treatment, and (b) that the information provided by the
	grantee/contractor which was used as a taxis for accounce of the rate(s) agreed to
•	herein is not subsequently found to be materially lines plate or inaccurate.

- B. ACCOUNTING CHANGES: If a fixed or predetermined rate(s) is contained in this agreement. It is based on the accounting system in effect at the time the proposal was prepared and the agreement was negotilated. Changes to the method of accounting for costs which affect the amount of reimbursement resulting from the use of this rate(s) require the prior opproval of the authorized representative of the consistant negotiation agency. Such changes include but are not limited to changes in the charging of a particular type of sost from indirect to direct. Failure to obtain such approval may result in subsequent cost disallomances.
- C. FIXED NATES: If a fixed rate is contained in this agreement, it is based on an estimate of the costs which will be incurred during the period to which the rate applies. When the actual costs for such period have been determined, an adjustment will be made in a Subsequent negotiation to compensate for the difference between the costs used to establish the fixed rate and actual costs.
- B. FOR DHEW AWARDS CHLY: Indirect cost reimburschent on all DHEW awards made subsequent to June 30, 1971 will be determined based upon the Indirect cost rates established for the fiscal period in which the applicable direct expenditures are incurred. For grants awarded prior to 7/1/71 the institution elected rate alternative number ONP
- E. USE BY DIKER FEDERAL AGENCIES: The rate(s) contained herein was negotiated in accordance USE BY DIFER FEDERAL AGENCIFS: The rate(s) contained herein was negotiated in accordance with the authority set forth in General Services Advinistration Federal Management Gircular 73-6 and stould be applied, to the extent provided in such Circular, to grants and contracts to which General Services Advinistration Federal Management Circular 73-8 applies. Copies of this decourt ray to provided to other federal agencies as a nearapplies. Copies of this determine may be powered on of notifying them of the egreentit contained herein.

The cost categories designated by an asterist believare normally treated as direct-costs By this institution when such custs can be identified specifically with a Covernment award, an instructional activity, or any other direct institutional activity, or when they can be directly assigned to such activities relatively easily with a high degree of accuracy.

Salarles and wages, including vacation, holiday and sick leave pay. 1. 2. Overtime premium.

/s/

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- Consultant costs. 3.
- Employee fringe benefits related to direct salaries and mages. (Also see Sec. 1) Material, supplies, and equipment.
 - Communications costs such as long distance telephone calls, mailing, cablegrams, etc.
- Travel expenses. Freight charges.
- 9. Oth None
- G. SPECIAL REMARKS:

The Research Foundation of

State University of New York

By the Institution

NameStanley G. Hickok

July 27, 1976

Title

Date

Associate Treasurer

(1) All activities conducted in facilities not owned or rented by the institution are considered off-campus.

(2) These indirect cost rates apply when grants or contracts are awarded jointly to the Research Foundation of SUNY and SUNY-Buffalo.

> By the Cognizant Negotiation Agency On Behalf of the Federal Government

Dept. of Health, Education & Welfare Agency 's/

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Keene James

Namehief, Grantee Liaison & Tech. Asst. Div. Office of ARD/Management & Finance Title

Date	June	30.	1976
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Negotiat	ed by	Sparano
Telephor	ne (212)	264-2059



State University of New York State University Plaza Albany, New York 12246

Office of the Vice Chancellor for Academic Programs, Policy and Planning

Office of Programs in the Arts 518/473-4962

May 7, 1985

Mr. Woody Vasulka Route #6 Box 100 Santa Fe, New Mexico 87501

Dear Woody,

This original synchronizer was working pretty well towards the end of the installation. As you know from our phone conversation a few weeks ago, we had to take it all down a week before scheduled because the Chancellor wanted the gallery for a different purpose, so there wasn't time for us to test the new synchronizer.

Here is my worry: that we'll get the show to the Neuberger Museum at Purchase and there will be a problem with the new box. I was feeling comfortable knowing we had a back-up synchronizer, but in returning this to you, we've lost that, so the system is now untested. Can you get it back to me by June 24th so I'll have it for Purchase in case there's a problem?

I'm sending the case handles back to you also, for we didn't need them with the kind of crates made by the Gallery Association.

See you in July? I'll be in Arizona from July 2 to July 17.

.

Love to you both,

.

Sincerely,

Patricia Kerr Ross Director Programs in the Arts

PKR:cr

NEAS (Rev.)								046	28-R0005
-). APPLICANT ORGANIZATION	PROJECT GR	ANT APPLIC	ATION				·····	Child	20-11000
(name and address with zip) The Research Fdtn. of SUNY for	NATIONAL E WASHINGTO			E ARTS					ł
State University of New York at Alb	any								
P.O. Box 9	, 					<u></u>			
Albany, New York 12201	III. PERIOD	OF SUPPOR	T REQUE	STED					
II. PROGRAM UNDER WHICH SUPPORT IS REQUESTED	START	9	1	77	END	8	31	78	
Special Projects		MONTH	DAY	YEAR		MONTH	DAY	YEAR	
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of the project will result in (1) t									
small computer systems in the arts,									
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Assistant Professor of Music at SUN			JI J00		1010,			.,,,	
V. ESTIMATED NUMBER OF PERSONS EXPECTED TO BENI				eral hu	undre			ar futu	re
VI. SUMMARY OF ESTIMATED COSTS (RECAPITULATION OF BI A. DIRECT COSTS	JDGET ITEMS ON	PAGES 2 AN	D 3)				COSTS OF to nearest	PROJECT ten dollars)	
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SUPPLIES & MATERIALS	•						-0-		
TRAVEL						3	,000		
SPECIAL							-0-		
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	TOTAL DI	ECT COSTS				s 37	,342		
B. INDIRECT COSTS						14	,175		
	TOTAL PR	DJECT COST	s		i	s 51	,517		
VII. TOTAL AMOUNT REQUESTED FROM NEA						\$ 33	,189		
VIII. ORGANIZATION TOTAL FISCAL ACTIVITY	CT. MOST REC		PD.			EXT FISC			
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	Researcher						
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i, Other (list each major type separately) THIS SECTION MUST BE COMPLETED ON EVERY APPLICATION.	Amount
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THE UNIVERSITY AT ALBANY

SOFTWARE DESIGN FOR INTERACTIVE COMPUTER SYSTEMS IN MUSIC AND VIDEO,

a project proposal submitted by Joel Chadabe,

January 27, 1977

The context and need for the project

The easy availability of inexpensive microprocessors is having a profound consequence for the arts: computer systems are coming to be within the reach of any individual artist who needs one. It is an important development because it means that the use of technology in the arts is becoming independent from institutions and laboratory atmospheres and that conditions are beginning to exist that offer the promise of a widespread flowering of ideas in computer music and video.

But while much attention has been paid to hardware design in recent years, relatively little attention has been paid to what we feel is a more significant and urgent problem, the design of software. As a consequence, the problem of how effectively to use small, portable computer systems has remained largely unsolved. Many artists and musicians who own or have access to small computer systems are at a disadvantage in knowing how to think about using them.

We feel that a prototypical project along the lines described in this proposal will go a long way towards defining the landscape within which computer video and music programs can be designed and the equipment used, and that this will directly benefit the many artists, musicians, teachers, and students working in the field. It will, of course, indirectly benefit the general public.

Our proposal

We are interested in developing a variety of computer programs which will model different approaches to realtime interactive systems in video and music.

Although we are concentrating in video and music, the project will apply to and involve artists working with film, computer graphics, lighting, and indeed every medium where an electronic signal can control change and where the design of control systems is important.

The successful completion of the project will result in (1) the definition of a new way of thinking about using small computer systems in the arts, (2) easily understood documentation of the programs we have

page 2 - Chadabe -

developed, (3) the possibility of additional technical assistance to others who would like to use the programs, and (4) many music and video compositions which demonstrate the concepts of the programs.

Procedures

We feel that the diversity of orientation and expertise to be found among various artists working in different mediums will greatly enrich the results of the project. Also, there is an enormous overlapping of interests between video and music (and other fields) in software design, particularly in the design of control systems. Consequently, we plan to approach the problem of software development as an interactive group consisting of the Project Director, Associate Project Director, Researcher, Programmers, and Consultants. The project will be coordinated primarily at the Electronic Music Studio at SUNY/Albany, although meetings might be scheduled at various locations.

The equipment to be used in the project is already available in both Albany and Buffalo. We do not foresee the need for any additional equipment.

We plan to approach the problem in three stages. First, in the context of current research in software design and systems theory, and in contact with work done by others in computer music, video and other fields, we intend to define, in intuitively clear language, a categorization of basic systems from which we will choose important examples for elaboration. We will proceed -- from a correlation of work done by others to the formulation of principles for differentiating, categorizing and selecting system models -- via (1) individual work done by the Researcher and (2) frequent meetings between the Project Directors, Researcher, Programmers, and Consultants. The Researcher, skilled and experienced in dealing with systems concepts, will, interactively with other members of the group, do the basic investigative groundwork, synthesize fundamental ideas from the many ideas presented, and shape the final statements. The Consultants are foreseen to be either software or systems experts in other fields, or artists who have made significant contributions to this way of thinking or who can offer substantial and concrete help in a certain aspect of the project. We are eager that this project proceed in such a way that it is participatory among all those in the profession who can offer something to it or gain something from it.

The second stage will be the technical implementation of the programs, which means encoding them and loading them into the machines, trying them out, and making revisions based on practical experience.

The third stage is to finish compositions and to perform or exhibit them through normal channels.

page 3 - Chadabe -

Brief Biographies of key people

Joel Chadabe, Project Director. Associate Professor, Music, and Director of Electronic Music Studios, SUNY Albany. Composer, working primarily with electronic music. A.B., 1959, U. of N. Carolina at Chapel Hill; M.M., 1962, Yalè University; student of Elliott Carter. Music published by Carl Fischer and Composer/Performer Edition. Recordings on Opus One, Folkways and CP2 Records. Music performed widely in this country, Europe, Japan and Australia. Grants from SUNY Research Foundation, Ford Foundation, CAPS, NEA. Articles in various periodicals, including Musique en Jeu, Melos, Perspectives of New Music, and in <u>The Development and</u> Practice of Electronic <u>Music</u> (Prentice Hall, 1975).

Woody Vasulka, Associate Project Director. Professor, Media Studies, SUNY Buffalo. Video Artist. Graduate of Film Academy, Prague, Czechoslovakia, 1964. Began work in video in 1969. Co-founder, with Steina Vasulka, of The Kitchen, an electronic arts performance theatre at the Mercer Arts Center in New York City, and co-Directed the Kitchen from 1971 to 1973. Grants from NEA, NYSCA, CAPS. Participated in video exhibits in Venezuela, Paris, London, New York, Tokyo, and other places. Several articles on video and film, including "Didactic Video" in Afterimage.

Burt Levy, Researcher. Assistant Professor, Music, SUNY Albany. Theorist-composer, with particular interest in systems theory, modelling, and interdisciplinary music/science connections. A.B., 1958, Temple U.; M.M., 1960, U. of Oregon; D.M.A., 1972, U. of Illinois. Dissertation: "A Systems Approach to Musical Analysis." Music published by American Composers' Edition and Smith Publishing Co. Articles in Perspectives of New Music. Recorded on Nonesuch Records. Performances in this country, Europe, Canada, Central America. Grants from the SUNY Research Foundation.

Infornal Revenue Service Enter I: III. II washington, DC 20220 Dule: In reply refer to: . . .

11-09-70

THE PESSATCH FOUNDATION OF STATE URIVERSITY OF MEM YORK P C 2C× 7176 ALRANY, MY

Gentlemen:

Based on the information you recently submitted, we have classified you as an organization that is not a private foundation as defined in section 509(a) of the Internal Revenue Code.

Your classification is based on the assumption that your operations will be as stated in your notification. Any changes in your purposes, character, or method of operation must be reported to your District Director so he may consider the effect on your status.

Sincerely yours,

Jecles

Chief, Rulings Section **Exempt Organizations Branch**

FORM 11-0714 (3-70) (CONTINUOUS)

NEGOTIATION AGREEMENT

Colleges And Universities FNC 73-6 Hegotiation

F June 30, 1976

ORIGINAL

INSTITUTION: Research Foundation of State University of New York

Albany P.O. Box 9 Albany, New York FILING REF.: This replace: Negotiation Agreement dated <u>September 26, 1976</u>

DATE

The indirect cost rate(s) contained herein is for use on grants and contracts with the Federal Government subject to the conditions contained in Section II.

SECTION 1: RATES

	Effective	Period			Applicable To
Type	From	To	Rate*	A cocations (1)	
Fixed	7-1-76	6-30-77	62,2%	On-Campus	Research
Fixed	7-1 -76	6-30-77	Parks	Off-Campus	Research
Fixed	7-1-76	5 F6-20-V7	38.0%	On-Campus	Training
Fixed	7-1-76)))5-30-77	37.7%	Off-Campus	Training
Fixed	7-1-76	6-30-77	23.8% Sp	ace Astronomy Lab	A11

Provisional

7-1-77 Until Amended: Same as FYE 6-30-77 .

See special remarks for explanation of Off-Campus Rates.
 See special remarks for explanation of use of Joint Rates.

*BASE: Direct salaries and wages including vacation, boliday and sick pay but excluding other fringe benefits.

Treatment of Fringe Bonefits: Fringe benefits applicable to direct salaries and wages are treated as direct costs.

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ONE SET OF ATTACHMENTS TO ATTACHMENTS AVAILO CLASS	

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Bohuslav Vasulka - University Awards Committee Application

Sections 19-30:

19. Proposal for "Art Exploration of Computer Languages" submitted to the New York State Council on the Arts on April 11, 1977, for \$5000, with the Vasulka Foundation as sponsor. The grant was not awarded.

Proposal for "Services to the Field, Art Exploration of Computer Languages" submitted to Media Arts Program of the National Endowment for the Arts, on August 15, 1977, for \$5000, with the Vasulka Foundation as sponsor. The decision is pending. Face Sheet of application is attached.

- 20. The pending application to NEA is for support of complementary aspects of the project described in this present application. The present proposal to UAC can be fully carried out on the budget requested here. Funding from NEA would allow continuation and some expansion of the project. The budget requested from NEA includes: Salary for the artist: \$4000; videotape/audiotape/film: \$900; Polaroid film: \$50; small electronic components: \$50.
- 21. I have not received previous funding from the UAC.
- 22. This project differs from the previous submission only in that I have accomplished more research into the relevant computer language literature.
- 23. If computer time is available, I will use the SUNY/Buffalo large computer to identify programs for further investigation. If computer time is not available, see 24.
- 24. I have my own computer facility with a PDP11-03 computer system and extensive optical and electronic image and sound hardware which I will use for most of the project. If time is not available on the SUNY/Buffalo large computer for identification of programs, I can accomplish the same work on my own system; the operation will simply require more time.

25. See attached vita.

- 26. The results of this project will be distributed through Electronic orts Intermix, in New York City, my usual distributor; I will also distribute the results privately. In addition, I am regularly invited to national, regional, and international exhibitions and the results of this project will be shown through these appearances.
- 27. See attached project description.
- 28. See attached vita.
- 29. Not applicable.

30. New letters of reference: Nam June Paik, Video Artist, New York City Ralph Hocking, Cinema Studies, SUNY/Binghamton Joel Chadabe, Electronic Music, SUNY/Albany

See letter on file, Series 1974, from Gerald O'Grady, Center for Media Study, SUNY/Buffalo

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1. AGREEMENT BETWEEN APP	LICANT AND THE JO	INT AWARDS COUNCIL/UNIVER	SITY AWARDS COMMITTE	E
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27. Project Description: Exploration of Computer Languages for Use in Electronic Arts

Background: While a highly developed knowledge of computer sciences presently exists and is widely utilized in science and industry, relatively little of that knowledge is as yet readily available to the electronic artist for the creation of work. Specific computer programs and languages capable of analyzing and synthesizing the conditions of space, two-dimensional frame structures, and other time/energy concepts are parallel and relevant to the processes of exploration and expression in cinema, video and electronic music, as well as in interactive behavioral models, compositional structures, and other forms of artistic expression. The Purpose of this project is to systematically examine, analyze, catalogue, and report on existing computer languages and programs and to generate model demonstrations of their potential for utilization by artists. The computer itself will be used to accommodate certain kinds of cultural concepts and elements (e.g., speech synthesis, text editing, sound and image generation, etc.), and the 'product' will consist of series of interactive sequences of those cultural concepts or elements which will demonstrate the potential uses of the programs and languages. These series will be the record of the process of examining computer language and will make possible the practical critical evaluation of both the method of investigation and the resultant aesthetic language. The Method: By continuing research of the available literature, the Project Artist will identify selected scientific/industrial programs that are potentially useful to the artist; these programs will include speech synthesis, tonal structure analysis and generation, behavior models such as stress wave and pressure conditions in plasmas, and images as data-structures. Having identified these programs, the artist will then travel to five computer center sites to observe the programs in use. The sites will be the Bell Laboratories in New Jersey, Los Alamos Scientific Laboratory, NASA/Houston, the G.E. Visual Laboratory in Syracuse, and Salt Lake City. The artist considers the personal investigation of these facilities essential to the project since there are currently few established direct channels of communication between artists and scientific/industrial computer staffs and since it is largely this lack which has so far deprived the artist of access to programs as tools. Too, there is no commonly recognized aesthetic computer language, and because of the peculiarities in programming any computer language, the artist regards personal contact with computer technicians and programmers at their sites as necessary and highly desirable for the most productive examination and understanding of The programs thus identified and observed will then be run by the the potentials. artist on SUNY/Buffalo's large computer with unmodified output capabilities in order to identify the active components of the programs, those of most interest for creative application. If this large computer is not available, the programs will be run at the

27. Project Description - continued

artist's personal computer facility; the results will be fully conclusive in either case, but the latter alternative will require more time. The artist will then examine in detail the content, textures, and potentials of these isolated active components using his PDP11-03 computer system with modified output devices and his extensive optical and elec-This project is part of the artist's extensive and tronic image and sound hardware. on-going exploration of electronic image and sound generation, and will depend, as has previous work, because of its scope and scale, on the employment of talented graduate assistants with computer experience for data collection, comparative analysis, and The Results will be the generation of a set of basic, practical programs reporting. useful as personal creative tools primarily for electronic image and sound composition. Specifically, 1) the artistas own creative work will be substantially furthered; 2) the research and resulting programs will be compiled and recorded for use by all electronic artists as well as other computer users; and 3) the results will constitute a formal and fundamental advancement in curricular method and tool development in the teaching of electronic arts for the university and for the field.

VITA

B. WOODY VASULKA

22

Brno, Czechoslovskia January 20, 1937 Born: 257 Franklin Street, Buffalo, New York 14202 Address: Social Security Number: 716/856-3385 Telephone: Steina Vasulka Married: School of Engineering, Brno - Graduated 1958 EDUCATION: Film Academy of Prague - Graduated 1965 1964-65 Studio of Documentary Films in Prague - included production ACTIVITIES: in Iceland, Algeria, Czechoslovakia Emigrated to USA 1965 Woods and Ramirez, Architects - Multiscreen Exhibit 1966-69 for Expo '67, Montreal - Film Editor " Film Editor with Francis Thompson Harvey Lloyd Productions - Industrial Exhibits -Multimedia Designer-Editor Exploration of stroboscopic projection of moving image, light-activated screens and 360° space recording Independent Films: Aimless People - 3-5 screens 16 mm Orbit - 3 screens 16 mm Three Documentaries 3 screens 16 mm 360° space recording Exploration of Electronic image and sound 1970 Founder/Director of "The Kitchen," an electronic media-1971 theater, Mercer Art Center, New York Development of electronic art tools in cooperation since 1972 with George Brown, Eric Siegel and Steve Rutt with the support of the New York State Council on the Arts Film/TV/Media Panel Member of the New York State Council on the Arts Associate Professor, Center for Media Study, State

University of New York at Buffalo

Computer controlled video image research with Lewis James and Don McArthur

WORKS:

100 hours of video materials including:

Evolution Black Sunrise Key Snow Elements Spaces I Spaces II The West Golden Voyage Home Vocabulary Sound-Gated Images Explanation

12 hours of audio materials including 4 channel environments

The West	Circle
Magic Mushroom	Schizo
Seascapes	. D-Track
Mother and Child	Trivia

ENVIRONMENTS AND INSTALLATIONS:

Three Nights of Different Video - at Max's Kansas City Steak House Live Video Performances - for a year at "The Kitchen" in New York Circle Environment - at New York Avant Garde Festival, 69th Street Armory Horizontal Matrix - at New York Avant Garde Festival, New York Harbor The Row - for WBAI, Judson Memorial Church, New York City Transmitted Environment - Experimental Television Center, Binghamton, N.Y. Street Show - Academy Theater, New Paltz, New York Continuous Environment - University Union Activities Board and Act V, Euffalo Video - University-Wide Celebration on the Arts, SUNY System, Fredonia

GROUP SHOWS:

Video Exchange - Merce Cunningham Studio, Westbeth Bldg., New York City Video Free America - Berkeley Art Museum, California Video - Whitney Museum of American Art, New York City Open Circuits - Museum of Modern Art, New York City Video - Everson Museum, Syracuse Ann Arbor, Michigan Baltimore Museum of Art, Maryland MIT, <u>Arttransition</u> Conference, Boston, Massachusetts Institute of Contemporary Art, Philadelphia, Pennsylvania The Contemporary Art Center, Cincinnati, Ohio The Museum of Contemporary Art, Chicago, Illinois The Wadsworth Atheneum, Hartford, Connecticut Corcoran Gallery, Washington, D.C. Collective for Living Cinema, New York City

INTERNATIONAL SHOWS:

Paris, France Guelph, Canada Montreal, Canada Toronto, Canada Tokyo, Japan Munich, Germany Berlin, Germany Koln, Germany Bucharest, Romania Caracas, Venezuela Reykjavik, Iceland Brussels, Belgium Oslo, Norway Stockholm, Sweden Sao Paulo, Brazil London, England

ARTIST IN RESIDENCE:

National Center for Experiments in Television, KQED, San Francisco The Television Laboratory, WNET, New York City Art Park, Lewiston, New York WNED/Channel 17, Buffalo, New York

GRANTS:

Creative Artists Public Service National Endowment for the Arts New York State Council on the Arts

TEACHING AND WORKSHOPS:

Antioch, Baltimore, Maryland USIS, Washington, D.C. Media Study/Buffalo, Buffalo, New York Alfred University, Alfred, New York Rhode Island School of Design, Rhode Island State University College at New Paltz, New York Alternate Media Center, New York City Global Village, New York City New York University, School of Continuing Education, New York City Department of Arts and Humanities, New York State Department of Education, Albany, New York Banff Art Center, Alberta, Canada Center for Media Study, State University of New York at Buffalo Ontario College of Arts, Toronto, Canada New England Center for Continuing Education, New Hampshire Governors State University, Illinois Rice University, Houston, Texas

DISTRIBUTORS:

Electronic Arts Intermix, 84 Fifth Avenue, New York, New York 10011 From the artist, 257 Franklin Street, Buffalo, New York 14202 Bohuslav Vasulka

Additional Activities:

Showing and discussion, Hamilton, Ontario, February, 1977.

Showing and discussion, Chicago Institute of Art, March, 1977.

- Showing and discussion, Center for the Humanities, University of Southern California, March 8, 1977.
- Showing, discussion and exhibition, Maison des Beaux Arts, Paris, February 2, 1977.
- Participant, Conference organized by the Office de la Creation Cinematograpique, U.N.E.S.C.O., Paris, February 1-4, 1976.
- Participant, Conference, Film, Theater, Video, Center for the 20th Century Studies, University of Wisconsin, Milwaukee, February 16-19, 1977.
- Participant, Conference, <u>The Video Revolution in America</u>, directed by Gene Youngblood, Annenberg School of Communications, University of Southern California, February 19-20, 26-27, 1977.
- Participant, <u>Public Television Seminar</u>, sponsored by International Film Seminars, May, 197-.
- Participant, Sumposium, T.V. as an Open System, with Walter J. Ong, SUNY at Buffalo, October 18-20, 1976.
- Artist-in-Residence, Public Television Station WNED-TV, Channel 17, Buffalo New York, 1976-1977.

New Works:

Twelve Fragments: Re-Coded Images, 1976-77, 16mm, B&W, 45 min.

Portions of the Continuous Development of Images Composed through a Computer, videotape, 1 hour.

Grants Received:

- From the National Endowment for the Arts for work on film, <u>Re-Coded Images</u>, \$10,000.
- From the Corporation for Public Broadcasting and the National Endowment for the Arts for six one-hour tapes on the development of electronic imagemaking, \$40,000.

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Project Grant Application			•						
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Applications must be submitted li	n triplicate and mai	lied to the							
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LETTER OF REFERENCE

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ALTHOUGH LETTERS OF REFERENCE ARE OPTIONAL, THIS IS THE SUGGESTED FORMAT TO USE IF YOU CHOOSE TO SUBMIT THEM.

MAIL COMPLETED REPORT TO: UNIVERSITY AWARDS COMMITTEE THE RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK P. O. BOX 9, ALBANY, N. Y. 12201 1

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	Center for Media Study	

F 362-777

17. BRIEF SUMMARY OF PROJECT, INCLUDING OBJECTIVES, SIGNIFICANCE, AND GENERAL PROCEDURES (LIMIT TO THIS SPACE). Background: While a highly developed knowledge of computer sciences presently exists & is widely utilized in science & industry, relatively little of that knowledge is as yet readily available to the electronic artist for the creation of work. Specific computer programs & languages capable of analyzing and synthesizing the conditions of space, two-dimensional frame structures, & other time/energy concepts are parallel & relevant to the processes of exploration & expression in cinema, video & electronic music, & in interactive behavioral models, compositional structures, & other forms of artistic expression. Purpose of project is to examine, analyze, catalog & report on existing computer languages & programs for possible use as tools for artistic creation. Method: by research of the literature, the artist will identify selected scientific/industrial programs such as speech synthesis, tonal structure analysis & generation, behavioral models such as stress waves, pressure conditions in plasmas, & images as data-structures; based on these identifications, the artist will travel to 5 computer centers: Bell Labs, Los Alamos, NASA/Houston, G.E. Visual Labs, & Salt Lake City to gather programs; artist will run these programs on SUNY/Buffalo's large computer with unmodified output capabilities to identify active components useful for creative arts application; if this computer is not available, programs will be run on artist's own PDP11-03 computer; isolated components will be examined on PDP11-03 w/ modified outputs to determine in detail content, textures & potentials. Results: The method will generate a set of basic practical programs usable as personal creative tools, mainly in the area of electronic image and sound composition.

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and sound composition. 18. IF YOU ARE APPLYING FOR A FACULTY RESEARCH FELLOWSHIP UNDER PROGRAM 1, ENTER STIPEND REQUESTED. IF YOU ARE APPLYING FOR A GRANT-IN-AID UNDER PROGRAM 2, ITEMIZE ALL BUDGET ENTRIES AND EXPLAIN IN DETAIL. IF YOU ARE APPLYING FOR A COMBINATION OF A FACULTY RESEARCH FELLOWSHIP AND A GRANT-IN-AID UNDER PRO-GRAM 3, ENTER BOTH STIPEND REQUESTED AND ITEMIZE AND EXPLAIN BUDGET IN DETAIL. FOR EXAMPLE, IN THE PAYROLL CATEGORY, EXPLAIN THE ROLE OF EACH INDIVIDUAL (INCLUDING STUDENTS) IN THE PROJECT AND SPECIFY THE PERIOD OF EMPLOYMENT OF EACH; IN SUPPLIES AND EQUIPMENT, JUSTIFY ALL ITEMS EXCEEDING \$100.00; AND IN TRAVEL, CLEARLY EXPLAIN THE NECESSITY FOR ANY FUNDS REQUESTED AS WELL AS THE BASIS FOR YOUR CAL-CULATION OF THE SPECIFIED AMOUNT. FAILURE TO EXPLAIN BUDGET ENTRIES IN DETAIL FOR A GRANT-IN-AID UNDER EITHER PROGRAM 2 OR PROGRAM 3 MAY RESULT IN THEIR AUTOMATIC DELETION.

STIPEND (APPLICABLE ONLY UNDER PROGRAMS 1 AND 3) AMOUNT CONTINGENT ON BUDGETARY APPROPRIATION AND SUBJECT TO JOINT AWARDS COUNCIL DETERMINATIONS	5
PAYROLL (SPECIFY SALARIES AND FRINGE BENEFITS, THIS CATEGORY NOT TO INCLUDE THOSE FOR APPLICANT.)	
тотаL salaries 1 Computer Programmer Assistant \$5/hr X 20 hrs/wk X 12 weeks = \$1200	\$ 1,600.00
<pre>1 Computer Sciences Graduate Asst. Special Student TOTAL FRINGE BENEFITS Supplement: \$100/wk X 4 weeks = \$400</pre>	s XXX
CONSULTANT SERVICES None	
	s
TRAVEL (ITEMIZE TRAVEL, FOOD, LODGING, ETC.)	
Air travel from Buffalo rndtrp: Syracuse/New Jersey/Los Alamos, NM/Houston	
FOREIGN X DOMESTIC and Salt Lake City \$1060	s
Lodging/Food/Grnd Transp: \$30/day - 10 days =\$300	1.360.00
CONSUMABLE SUPPLIES	
l)three boxes, ten each box, Data Disketts - @\$75 = \$225.00	
2)paper punch tape/print out paper \$165.00	s 390. 00
EQUIPMENT	
None	s
MISCELLANEOUS	
Certain programs will require design and engineering modifications of visual and audio outpout devices: hardware components: \$250/engineering fee: \$200	s 450.00
GRAND TOTAL REQUESTED	^{\$} 3,800.00