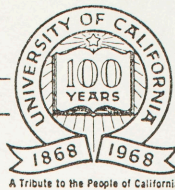


UNIVERSITY OF CALIFORNIA, SAN DIEGO

BERKELEY • DAVIS • IRVINE • LOS ANGELES • RIVERSIDE • SAN DIEGO • SAN FRANCISCO



SANTA BARBARA • SANTA CRUZ

DEPARTMENT OF MUSIC

POST OFFICE BOX 109
LA JOLLA, CALIFORNIA 92037

Mar 1968

It is an established fact that any good language dept. in a University is better equipped for sound processing and communication than music dept. And furthermore is staffed with a technician whose main duty is to keep the equipment functioning properly.

We are in a pretty sad state at UCSD. Our Research facility in Q315 is crippled for lack of furniture, ^{not to mention} ^{for} ^{proper} ^{instrumental advice} patching connections and ~~lack of~~ repair. As in every other room.

It is un-fair to expect faculty with full teaching loads to take on the full time job of making the electronics function properly or graduates who do not know how to handle the equipment.

Unless the planning that this committee does leads to immediate and satisfactory action plus the hiring of a competent technician who is given full responsibility for the connections, repair and check out of all our electronics I will be forced to resign not only from this committee but from the faculty of UCSD.

I do not believe that we will be able to meet anyone's needs unless this is done. It is pointless for me to stay where I can do no useful research.

Nov. 24, 1968

TO ELECTRONICS COMMITTEE

Will Ogden
Jim Campbell
Bob Erickson
Ken Gaburo

Gentlemen,

If we are to continue having performances and guest lecturers in the recital hall the least we could do is make sure that our sound system is always in first class condition. This should also be true for those of us who need the systems for classes such as Music 1A, 10, 114 and etc. As it is, the system is positively sinful.

D

Despite all the effort spent on rehearsals and creation of atmosphere and mood for the Book of the Dead concert by the students, the impression was obliterated by tape hiss. It is impossible for anyone with a sensitive ear to overcome the frame of reference which is forced upon him by this sound. "It is a crime to make an A7-500 sound like that." (David Tudor at the student concert.)

Joji Yuasa's tapes sounded terrible during his lecture and the volume was too high because he was trying to get more signal than noise. I for one am constantly embarrassed at the continuing inferiority and deterioration of quality which daily preventive maintenance could cure.

The lecture I intended to give for Music 1A was destroyed because the system was not even presenting its usual noise output and I spent 15 minutes trying to discover why there was no signal. I discovered that the speakers were disconnected at the speakers after my class was dismissed. I hesitate ever to play records or tapes for classes in 409 because the sound that emerges is totally misleading.

It is interesting to note that a great deal of time and effort was spent to make the sound system perform well for the Roger Reynolds concert but since then the system has simply deteriorated. The same kind of time and effort should be extended to include all of us.

I don't think that we can afford to continue to make such bad sounds with such good equipment. The concept of this Music Department is totally defeated by such poor performance and students are misled and confused by not to mention the concert public. Our guests carry away the impression that we are indeed an amateur bunch.

I implore the committee not only to address itself to this problem again but for God's sake please let us do something about it and make it last.

Pauline Oliveros

Dec. 2, 1968

Dear Ken,

the Q305 design laboratory is to be used for research and in conjunction with Electronic Music courses 105A and B, 202, 205, 199 and 299. Separate courses in basic design of electronic music instruments should develop eventually around this laboratory.

Because there is continual and enormous change in electronic design, this lab is necessary not only for research but for practical matching of circuitry in a widely disparate medium.

The composer of the immediate future will be obliged to design circuitry for his own compositions. No standard procedure is available.

In order to operate such a laboratory effectively, a continuing fund for electronic components, supplies and equipment must be available. Enclosed is a list of necessary items and a budget for establishing the laboratory.

Pauline Oliveros

Pauline

Dec. 2, 1968

EQUIPMENT AND SUPPLIES

\$ 100.00	Parts cabinets and storage items
30.00	Workbenches and chairs
50.00	Bread Board
20.00	R/C substitution box - Olson
20.00	R/C substitution box - series parallel Eico 1140W
125.00	Oscilloscope Knight Kit KG-635 or Eico 460W
75.00	2 signal generators - Lafayette
	{ VTVM
	{ VOM ON HAND
	{ Speaker Amp
35.00	Power Supply 0-30v - Eico 1020W
2.00	Circuit tester
30.00	Electric drill, all purpose with speed control and reverse.
5.50	Chassis punch, screw type ($\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, and 1 and $1\frac{1}{4}$ diameter)
4.00	Adel nibbler
3.00	Center punch
2.00	Ball peen hammer 1 lb.
1.00	hand-tapered reamer, $\frac{1}{2}$ inch $7/8$ inch
6.00	Bench vise
6.00	Vacu-vise 2 inch jaws
1.50	Files, round $1/8$, $3/8$ inch. Flat 6 in., long narrow, 10 in. wide, and triangular med.
1.50	Adjustable open end wrench 8 in. jaw to ca. $1\frac{1}{4}$ in.
2.00	Offset Wrenches, double-ended
4.50	Seizer, Xcelite 42H
1.50	Calibrated metal square 9 in.
1.00	Scriber
2.50	Hacksaw and blades
4.50	Reg. $1/8$, $1/4$, $5/16$ Stubby $\frac{1}{4}$ Offset Xelite Screwdrivers
6.00	Nutdrivers Xelite set.
3.00	Large and small long-nose pliers
3.00	Large and small diagonal butters
1.50	Pliers
1.00	Scout knife
20.00	Variable heat soldering iron (Heathkit)
7.00	Miniature Soldering Iron - Ungar Princess
	Printed Circuit Solder 1 lb.
	Solder, rosin core 60/40
1.00	Soldering aid
3.00	Two Wire strippers
1.00	Tweezers
1.50	Heat sink kit
10.00	Test Leads
2500.00	Fund for project parts - resistors, capacitors, pots, buss and hook-up wire, ICs, transistors, chassis, batteries, etc.
<u>400.00</u>	RCA Integrated Circuit Sampler

\$3131.50

Pauline Oliveira

Dec. 5, 1968

TO ELECTRONICS COMMITTEE * MEMO 2

Jim Campbell
Bob Erickson
Ken Gaburo
Will Ogden

Gentlemen,

If the following items are not accomplished before the winter quarter begins, I will be unable to teach Music 105A - Electronics in Music.

1. Gather all patch cords for the Buchla System together. They are scattered over the campus.
- ✓ 2. Replace as per first quarter request the missing chamois for cleaning the keyboards.
3. Make available the Beocords as stated in the placement of equipment list.
 - a) Provide the necessary modifications to make patching easy.
 - b) Provide enough patch cords and adaptors for any conceivable patching arrangement. i.e. cover all inputs and outputs at least.
4. Provide editall splicing blocks and razors.
5. Provide a new table arrangement (build it if necessary) so that all of the equipment including the keyboards and outside extras can comfortably be accommodated.
6. Provide separated treble and bass tone controls with 10db gain, at least two channels per box for the outputs of the Buchla System.
7. Provide a switch for the AC line to eliminate crawling under the table to turn off the equipment.
8. Make available any and all instruction or specification manuals with the equipment.
9. Provide an effective, simple, undestructive method for grounding the boxes together.
10. Provide calibrated marks for normal playback level i.e. 0db, on the tape recorders and pre-amps.
11. Make sure that Sony 800's can be patched in to the Beocords without recording loss.
12. Provide daily preventive maintenance for the system.
 - a) Clean and check outputs of tape recorders.
 - b) Check outputs of amplifiers and all permanent connections.
 - c) Check maintenance pad for student and faculty reported equipment disorders. A pad of blank paper and a pencil must be provided for this purpose.
 - d) Obtain a weekly report from the technician stating repairs made, supplies ordered, incidents of equipment mishandling and etc.

In my opinion rooms 9 and 10 in Q314, where this system is supposed to be located, are grossly inadequate to house the kind of work which must take place there. The middle room of Q306 was adequate. What can be done about this?

Pauline Oliveros

2/16/69

To Jim Campbell, Chairman of Electronics Committee

Re Memo on Policy Proposals, Jan. 30, 1969

Although I am no longer a committee member, I received this memo before my resignation and I would like to respond to such a positive approach.

Briefly:

Question 1 Yes

Question 2 Yes

Question 3 By special assignment and qualification.

Policy Proposals

1. Yes
2. May need qualification, but agree to freedom.
3. Yes
4. Yes
5. Yes
6. Yes
7. Yes
8. Yes
9. Yes, when clear policies are present.
10. Yes, but how about the guy who wakes up? Does he get another chance after due consideration?

Pauline
P. Oliveros

MEMO TO JIM CAMPBELL, CHAIRMAN: ELECTRONICS COMMITTEE

RE YOUR MEMO OF FEB 10 to PAULINE OLIVEROS

Concerning item 4 of memo: There are many items in the cabinet in the hall of Q315 which are necessary to various kinds of work in Q315, i.e. De gausser and head cleaner, and since technicians only do cleaning and demagnetizing once a week (according to Lew Prince), I prefer to do my own when I think it necessary. Also, there is no proof that these things have been done, i.e. no technicians report.

If a head stack on ampex 4ch. recorder is to be changed, it has to be available. If mic. pre amps are needed for Ampex, they must be available when the person is working--not when the technician may or usually may not be found. Also, adaptors are constantly necessary. So far, all these items are stored (and haphazardly) in the cabinet you mentioned. If it is for the technicians--fine, but what about the working faculty, who needs access to these items? Naturally, I would appreciate my own locker in Q315, as would others.

Concerning item 5: I am very unhappy about the equipment check-out procedures. It may interest you to know that I spent a great number of hours preparing for my Music 105A class. The first day of class I handed out typewritten assignments which instructed students to go to the music office and find out what the procedure was for checking out equipment and keys. The following class meeting I gave a quiz which tested their knowledge of music office procedure. I notified Carol of my assignments. I notified Carol that Sony 800's and Calrad

Microphone\$ must be available to my 105A class for the quarter. In mid-quarter, I became angry because my students were having trouble getting equipment despite all the "proper procedure" for getting it and they are being treated rudely by the staff to boot. I complain and then find out the "procedure" such as it is, gets changed in mid-stream, and I am ordered by a student helper to seek him out and find out whatever the new or old procedure is, as the case may be. By this time I am blowing a gasket. I take my entire class into Carol's office to get a clear and direct communication about PROCEDURE.

Now what I want is a simple and immediate way for students to get the necessary equipment to do their projects without being brow-beaten by harassed staff.

I object to the following:

1. Use of the term "authorization form." It is too unfriendly and Military. Why not a simple blank marked Equipment Checkout with name and Student body number?
2. Two long forms are presented to be filled out with no carbon paper. (How bureaucratic can you get?)
3. Five days written notice required to check out equipment. This is absolutely unreasonable and meant to help the staff, not the students or faculty.

If one has to go through all this nonsense, he might as well forget about working at all.

Concerning Item 5: I am unsympathetic to excuses advanced, such as the following: 1) Understaffed 2) Security problem.

I am convinced that any of the problems mentioned can be solved with the available staff given the proper direction. Security has been a

known problem but I have seen no active steps taken to solve it other than paper recognition that it is a problem. This problem is directly related to the check-out problem and needs immediate, active attention. If these problems can't be solved in this day and age of instantaneous electronic communication, then we are in an extremely sad, inhuman state.

Concerning item 6: My classes are automatically told by me at the beginning of the quarter to pay attention to the way the system is hooked up and to respect it.

I gave them your message as requested. However, I would appreciate a specific illustration and proof when you ask such a question of me. I am not offended, but I want to know whatever disorder is discovered and attributed to a class which I am teaching.

Lastly, it seems to me that instruction comes first and if equipment is moved, permission should be obtained from the instructor who is directly concerned.

Sincerely,

Pauline Oliveira

CC TO ELECTRONICS COMMITTEE: KEN, BOB, WILL.

Performance Conditions

SAN DIEGO: DEPARTMENT OF MUSIC
LA JOLLA, CALIFORNIA

Electronics Committee

- 1 Hiring of Lab Assistants for Dave Beren Spring Quarter.
- 2 Professional standards for 315
 - a. Three properly aligned and maintained stereo Tape machines (not including the Scully) or fix the Scully.
 - b. Patch board completed and installed
Extra patch cords as well as enough to cover all inputs and outputs.
 - c. All equipment available hooked up and functioning.
 - d. Speaker stands as suggested - adjustable pipe stands.
 - e. we need speakers compatible with electronic music.
 - f. continuous maintenance of the facility.
 - g. Cabine try
 - h. non-interruption of persons working in 315
- 3 Move 4 channels to 409 E

Eliminate humming fluorescent lights.

Make distinction between creative and reproductive work

Has Moog center panel been repaired.

Booster amplifiers 4

All necessary accessories for equipment made available in 315. Where are the new work benches? for 315

March 19, 1969

TO ELECTRONICS COMMITTEE FOR AGENDA

Campbell
Erickson
Gaburo
Ogdon
Oliveros

Please refer to my undated memo which submits my resignation from the Electronics Committee, to my memo 2 dated Dec. 5, 1968 and to the Minutes of Electronics Committee Meeting Monday night, 4 Nov. 68, 8:30. All of these papers contain items of importance upon which no action has been taken. This lack of action contributed to my resignation. If this condition continues to prevail my resignation will become final The first day of Spring Quarter, and nothing but completed action will induce me to do any more committee work. Talk is cheap.

ITEMS FOR ACTION:

1. Hiring of Lab Assistants. I would like to have Dave GERen as LA for my 105B and 205 courses. My needs for Spring Quarter can be met if all the items on my Memo of Dec.5 are acted upon and carried out.
2. I move that the 4 channel tape machines be placed together in 409E.
3. I am embarrassed because of the utterly unprofessional state of our supposedly professional studio and the student studios. As a composer of a substantial number of Electronic works both tape and live since 1961 I find our facility here to be the most frustrating and unaccomodating of any place I have ever worked. My attitude is liable to leak out in bitter, unguarded moments. I would like to take great pride in our studio facilities, especially when I am escorting National and International visitors on tours of our campus. When visitors do come I am inclined to hide the studios or continually apologize for their condition. I have to teach my students in honesty also, and continually apologize in class.
Our Dept. is in the spotlight now in many quarters and apologies for being a new Dept. are not going to last much longer.
4. Some professional standards for Q315.
 - a) Three properly aligned and maintained stereo tape machines. (NOT including the Scully unless it is maintained in perfect condition)
 - b) Patchboard completed (immediately), expandable, and installed with extra patchcords available as well as enough. All jacks labeled properly.
 - c) All available equipment hooked up and functioning properly.
 - d) Adjustable pipe stands for speakers.
 - e) Speakers more compatible with Electronic Music.
 - f) Continuous, reported maintenance of the facility.
 - g) Cabinetry for storage and bench space for all and extra equipment.
 - h) Non-interruption of persons working in the studio.
 - i) Eliminate humming flourescent lights, NOW.
 - j) Make all equipment accessories and specs available, NOW.

Pauline

JIM
BOB
KEN

SAN DIEGO: DEPARTMENT OF MUSIC
LA JOLLA, CALIFORNIA

Dear Will,

Regretfully I must submit my resignation from the Electronics committee for the following reasons:

1. It is an ineffective committee.
 - a) It does not meet.
 - b) Decisions are made without consultation where no clear policy exists.
2. An abominable condition exists where checkout of electronic equipment is concerned. Policy is made by hired student help without regard to the needs of academic personnel or students.

This policy should be a proper concern of the Electronics committee which should have established a clear policy at least a year ago.
3. Where policy exists it is overridden by the Department Chairman or the Committee Chairman or in desperation by individual faculty members without consultation.
4. Where important decisions have been reached by the committee, no action has occurred. As a faculty member, I wish to serve on committees which in fact meet and effectively act. Otherwise, I see no reason to be a member of any committee. If the above considerations change, I would happily become a member of an active Electronics committee.

Sincerely yours,

Pauline Oliveira

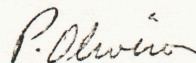
MEMO TO ELECTRONICS COMMITTEE

Campbell - Chairman
Ogdon
Erickson
Gaburo

If anyone has any objections as far as duplication of effort is concerned, to an 8 channel mixer to be designed for performance and studio use as an aid to complex movement of sound through space, please say so now, and directly to me. We have no such instrument to my knowledge. The grant has been approved. Mr. Alan Huett of Vancouver will be here soon to begin consultation (with G. Walker and myself), design and construction of a modular unit.

This mixer will have expandable characteristics, i.e. more channels can be added. Flexibility and high quality will be the prime considerations. The main problem and extremely difficult to execute is how to make any of 8 inputs appear singly or simultaneously at any of 8 outputs. The 8 input stage should receive and maintain line level, and have provision for manual and external voltage control of the amplitude of each input at any point. The external source will very likely have to be a small computer.

Pauline Oliveros



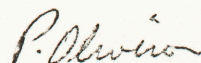
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Pauline Oliveros



Q 306

- 4 Buchla music synthesizers
- 3 Buchla keyboards
- 1 Sony TA1120 ~~TA~~ integrated stereo amplifier
- 2 AR3 speakers
- 2 Revox stereo ^{tape} recorders
- 1 Tapesonic stereo tape recorder
- 3 7½ inch reels
- 3 10½ inch reels
- 1 patch cord set
- 1 adaptor set
- 1 chamois for cleaning Buchla keyboards

Rules: check the sign up sheet in Carol
Suzanne's office for use.

I Return equipment to this location
immediately after use.

II Patch cords must be kept off the floor.

III Adaptors are kept in a box

IV Do not leave tapes lying around,
they will be confiscated and used.

V Lock the doors

VI

- 1 Availability of the Nagras must be known.
- 2 High Quality dubbing must always be possible
- 3 Equipment must be readily available
- 4 Connectors, cables etc. must be available with the equipment.
- 5 All equipment, cables etc should be labeled as to where it belongs.
- 6 Person or persons provided before and after every concert to relocate equipment.
- 7 Supplies kept up (Tape and maintenance items.)
8. Inventory of all items not mentioned in Campbell's Feb 14 1968 Memo.
9. Short clinic for faculty and T.A.s on respect for equipment and how to get optimum use. Respect for time it takes to set up.
10. Furniture - lockable cabinets - 3M Tape storage cabinets.