



Universidad de Buenos Aires
Centro de Estudios Superiores de Arte

ESTUDIO DE FONOLOGIA MUSICAL

A. General Information

1. Estudio de Fonología Musical de la Universidad de Buenos Aires, founded in 1960.
2. Laboratorio de Acústica - Perú 294 - Buenos Aires - Argentina
3. Centro de Estudios Superiores de Arte de la Universidad de Buenos Aires
4. Director: Francisco Kröpfel
Technical Head: Fausto Maranca
Musical Assistant: Jorge Rotter
Technical Assistants: Jorge Menyhart, Jorge Agrest
5. Composers: Francisco Kröpfel, Jorge Rotter
6. General plan of activities of the studio
 - Technological research for development of special equipment
 - Development of production methods and adequate techniques of composition
 - Research in musical analysis applying methods of General Linguistics
 - Experimental works in collaboration with the group of visual arts (audiovisual shows, films, etc.)
 - Production of works by members of the studio
 - The studio lends services to several other organisms of the University (sound effects for theatrical works, sound tracks for scientific and educational firms, etc.)
 - At present several composers are following courses for the production of electronic music.

FACILITIES:

- I.
 - 1 Beat oscillator (B & K) with wobbler
 - 3 Sine-wave and square-wave oscillators
 - 1 Saw-tooth wave oscillator (x)
 - 1 White noise generator (x)
 - 1 Impulse generator (X)
- II.
 - Natural echo chamber
 - 1 Octave filter (WE)
 - 1 Tierce filter (B & K)
 - 1 Poliphonic filter (10 narrow fixed bands. Amplitude regulation of each band). (x)
 - 2 Ring modulators (X)
 - 1 Speed regulator of tape recorders (X)



II. (cont.)

- 1 Dynamic envelope regulator (attack and decay) (X) (X)
- 1 Impulse and Dynamic envelope modulator (X)
- 1 Polyphonic Photo modulator (controls dynamic envelopes and rhythm on 5 tracks, with shapes cut out of black paper. Has 4 additional tracks for control of accessory operations) (X) (X)
- 2 Electronic switches (X)
- 1 Amplitude selector (X)

III.

- 1 Philips monaural tape recorder, 30" i.p.s. speed
- 2 Crown half track stereo tape recorders, 15", 7 1/2" and 3 3/4" i.p.s. speed
- 1 Revox half track stereo tape recorder, 7 1/2" and 3 3/4" I.p.s. speed
- 6 channel passive mixer with two outputs (X) (X)
- 6 Channel electronic mixer with two outputs. Stereo regulation included. (X) (X)
Patching panel containing the inputs and outputs for this equipment.
- Connections centralizing unit operated by automatic line selectors. Is complemented by a pushbutton panel and an indicator panel. (This equipment replaces the patching panel. It also contains remote starting, stopping facilities for tape recorders) (X) (X).

IV.

- 1 Tube voltmeter for level monitor
- 2 Oscilloscopes
- 1 Spectrograph (B & K)

V.

- 2 Amplifiers (60 watt) and loud speakers

(X) : Construction of the studio

(X) (X): Project and construction of the studio.



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C. and D.

- For the time being (1967 period) composers will work at the studio by invitation.
Regular teaching will be started probably in 1968.

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FACILITIES:

Generators

I.

- > 1 Beat oscillator (B & K) with wobbler
- > 3 Sine-wave and square-wave oscillators
- > 1 Saw-tooth wave oscillator (X)
- > 1 White noise generator (X)
- > 1 Impulse generator (X)

II.

- > Natural echo chamber
- > 1 Octave filter (WE)
- > 1 Tierce filter (B & K)
- > 1 Poliphonic filter (10 narrow fixed bands. Amplitude regulation of each band.) (X)
- > 2 Ring modulators (X)(X)
- > 1 Speed regulator of tape recorders (X)
- > 1 Dynamic envelope regulator (attack and decay) (X)(X)
- > 1 Impulse and Dynamic envelope modulator (X)
- 1 Poliphonic Photo modulator (controles dynamic envelopes and rythm on 5 tracks, with shapes cut out of black paper. Has 4 additional tracks for control of accessory operations) (X)(X)
- > 2 Electronic switches (X)
- 1 Amplitude selector (X)

III.

- 1 Philips monoaural tape recorder, 30" i.p.s. speed
- 2 Crown half track stereo tape recorder, 15", 7 $\frac{1}{2}$ " and 3 $\frac{3}{4}$ " i.p.s. speed

- 1 Revox half track stereo tape recorder, 7 $\frac{1}{2}$ " and 3 $\frac{3}{4}$ " i.p.s. speed

6 Channel pasive mixer with two outputs (X) (X)

6 Channel electronic mixer with two outputs. Stereo regulation included. (X)(X)
Patching panel containing the inputs and outputs for the equipment

Under construction:

- Connections centralizing unit operated by automatic line selectors. Is complemented by a pushbutton panel and an indicator panel. (This equipment will replace the patching panel, now used. It also contains remote starting, stopping facilities for tape recorders) (X)(X)

(X) construction of the studio

(X)(X) project and construction of the studio



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IV.

- 1 Tube voltmeter for level monitor
- 2 Oscilloscopes
- 1 Spectrograph (B & K)

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- 2 Amplifiers (60 watt) and loud speakers