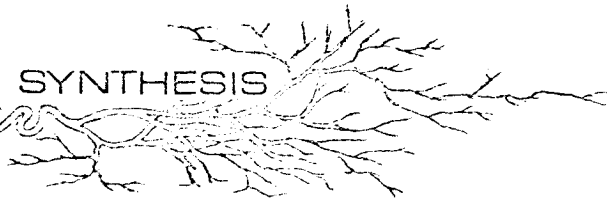




## ENVIRONETIC SYNTHESIS



ENVIRONETIC SYNTHESIS is a collaborative effort to develop and innovatively incorporate the newest information and technologies used in biomedical engineering, physiopsychology, computer-video display, electronic music synthesis, architecture, and environmental planning, within the framework of a comprehensive art-communication systems theory as applied to creating a greater harmony and understanding within the total human environment.

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WOODY & STEINA UASULKA, RHY CHATHAM, SHRIDHAR BAPAT, DIMITRI DEVYATKIN, AND  
THE REST OF THE KITCHEN,

TRYING TO KEEP UP COMMUNICATIONS. AM NOW WORKING OUT OF BERKELEY, BUT WOULD LIKE TO MAINTAIN SOME AFFILIATION WITH THE KITCHEN, AS THE UASULKAS & I DISCUSSED OUT HERE, IN SEPT. I'M SENDING YOU SOME INFO. ON CURRENT PROJECTS & ACTIVITIES. PETER CROWN, WHO IS COLLABORATING ON THESE, IS BACK IN N.Y. AND WILL CONTACT YOU. WOULD LIKE TO ESTABLISH AN EXCHANGE OF MATERIAL (VIDEO/AUDIO/ETC.) TO AS GREAT A CAPACITY AS POSSIBLE. INCLUDED IS MATERIAL ON OUR MOST CURRENT PROJECT: INTERSPECIES COMMUNICATION, IN COLLABORATION WITH CAL. ACADEMY OF SCIENCES & THE BIO-SONAR LAB. IN THE PROCESS OF ACQUIRING EQUIP'T & PLAYING WITH THE DOLPHINS AT THE MOMENT. WILL ALSO HAVE ACCESS TO LOTS OF AUDIO TAPES OF MARINE MAMMAL SONIC COMMUNICATIONS, THAT IS BEAUTIFUL. I'LL SEE IF I CAN GET SOME TAPES TO RHY.

LET ME KNOW YOUR PROGRAMS & SEND ANY INFO. OF INTEREST.

IN PROCESS,

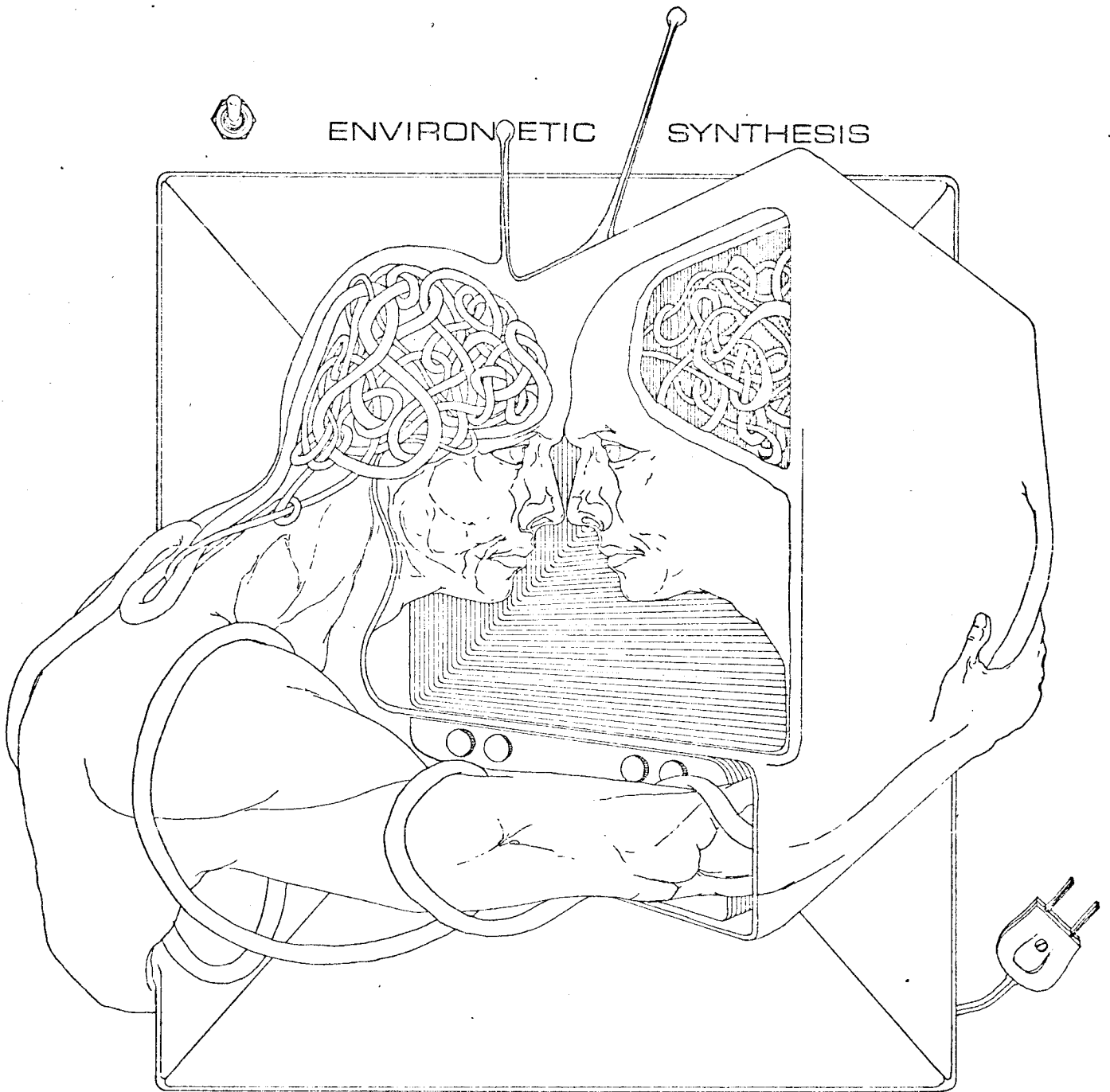
RICHARD LOWENBERG

c/o HARNEY, 2509 1/2 ETNA ST., BERKELEY, CALIF. 94704



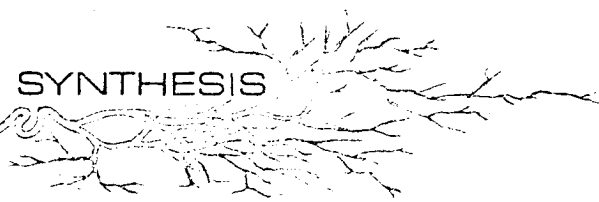
ENVIRONMETIC

SYNTHESIS





# ENVIRONETIC SYNTHESIS



## Interspecies Communications Display

### A. Premise

To develop a presentation system to explore and develop interspecies communication. Designed as a self regenerative feedback loop, all elements therein being contingent upon the whole system in creating the desired output/processes.

### B. Project Structure

1. Subjects for monitored response to given environmental stimuli: Man, Dolphin (*Tursiops Truncatus?*), Plant (?).
2. Response processing and display systems: Electronic audio synthesizer (Arp), Telemetric E.M.G. equipment, Oscilloscope, Video equipment, Hydrophones, Plant physiological monitoring equipment.
3. Information
  - a. Physical data charts on each of the three subjects and details on hardware being used.
  - b. Basis for project.
    - Research to date on interspecies communication, as related specifically to man, dolphins and plant life.
    - Bio-feedback systems and research.
    - Technical data for this specific interspecies interface.
    - Future implications and applications in the sciences, arts and nonverbal communications.
4. Videotape documentation.



## ENVIRONETIC SYNTHESIS

### C. Processes (subject to change with further study and development)

(The dolphin is selected as a random point in the feedback loop to begin the process description.)

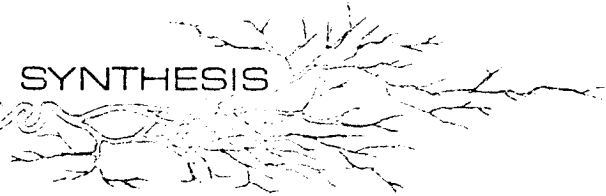
Responding to given audio stimuli, the dolphin will provide a certain response, either sonic, physiological, or as a physical manipulation, such as pushing a lever. This response in turn is converted into electrical impulses to be used as control voltage inputs to the audio synthesizer, generating a corresponding sound, determined by and variable with the synthesizer's programming.

A secondary tone or control (sequence, frequency, etc.) of the dolphins output is produced by the human subject (dancer), being monitored for specific muscle activity by telemetric electromyographic equipment; the task, in terms of communications, here and throughout the cycle, being to produce a pleasing, cohesive and nonrandom audio output, through understanding and control of physiological functions.

Individuals (audience) viewing the presentation may become participants and a key factor in the process by hearing the audio output and in relation to this, providing sensory stimuli (tactile, sonic, etc.) for the plant, being monitored (resistance change) for its response, producing the third input for the synthesizer. The combined audio signals become the sensory stimulus initiating the dolphin's response and completing this regenerative cycle.

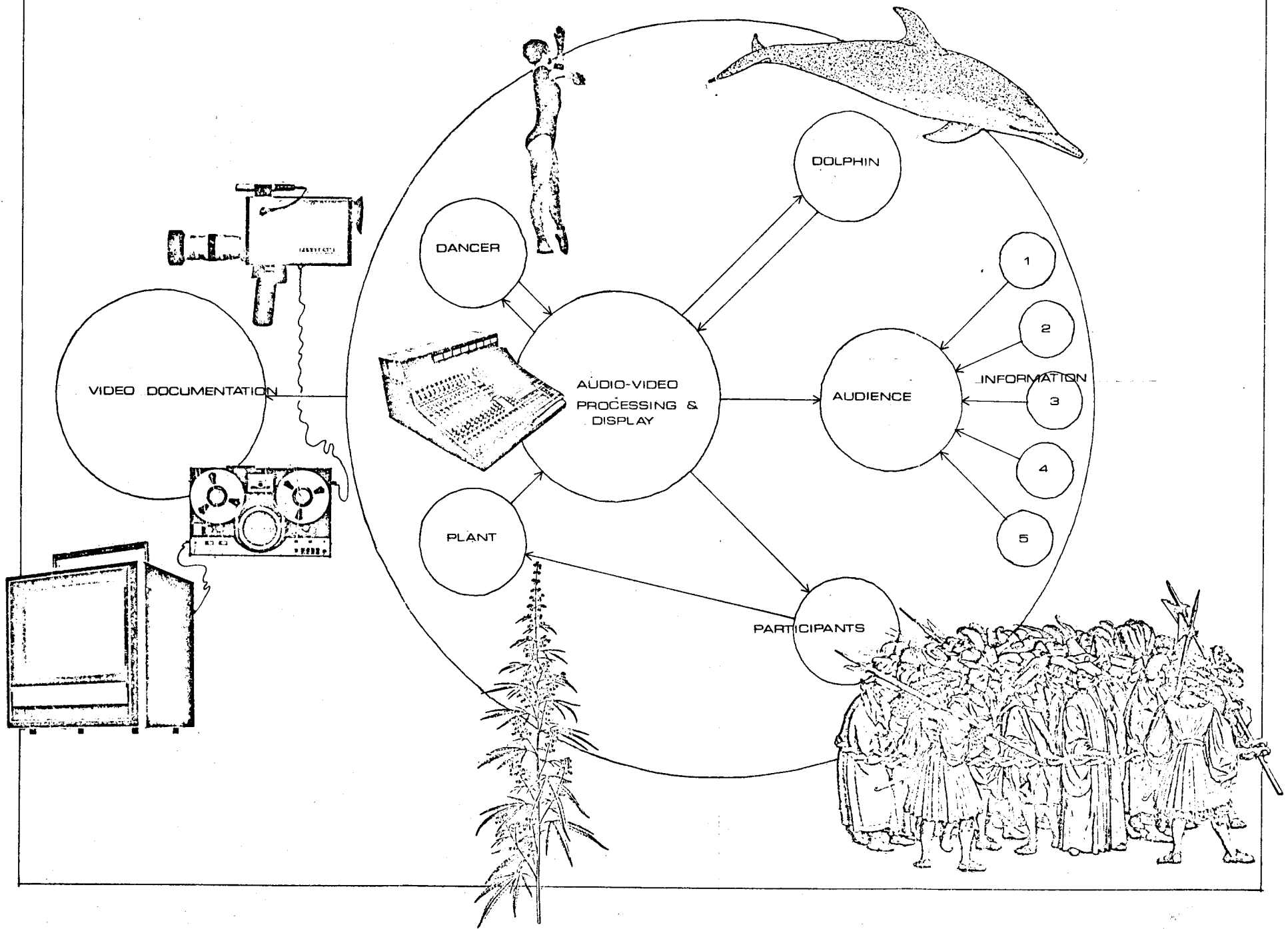


## ENVIRONETIC SYNTHESIS



The previously listed information (item 3.) is presented in graphic form to the participating audience for a greater understanding of the project and its meaning.

The entire presentation-process is to be documented on video tape for live, on-going viewing, as well as for possible future research, and hopefully, informative and entertaining television programming.



SYSTEMS DIAGRAM FOR INTERSPECIES COMMUNICATIONS DISPLAY