

BUILDING IN LIGHT - A project for the Warburg Institute London

'WORKING IN THE CITY'

European Communities Architectural Ideas Competition

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## APPENDIX - The Sound Sculptures

The Sounds created by the wind and water operated sculptures on the exterior of the building are projected to the selected areas by the use of a computer based digital system.

This is based on the MIDI (Musical Instrument Digital Interface) system. It will use the thirty-two components of the harmonic series, filtered and separated on the basis of frequency. The dynamics of the sounds are converted into digital information. The MIDI system is capable of handling several hundred channels of information simultaneously.

The resulting material is then fed to the loudspeakers which are arranged in configurations reflecting the geometry of the building. The spatial configurations are echoed in the movements of both sound and lighting. The projections can be influenced further by digital information obtained from weather forecasting which can regulate the speed and pattern of movement.

Max EASTLEY 1989



PLATE X "Tower of the winds" instrument

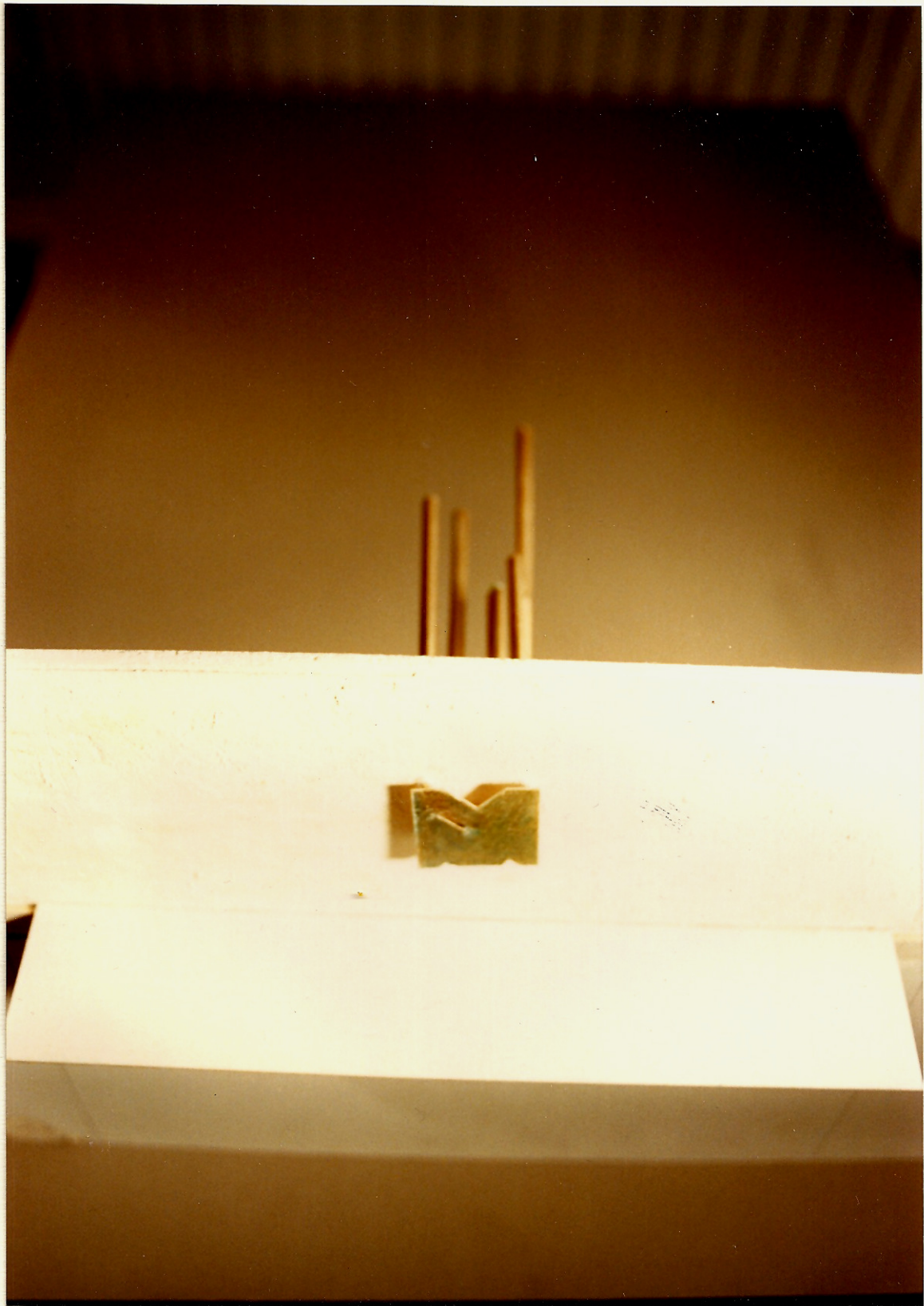


PLATE XI Cluster of wind flutes



PLATE XII Upper pool and wind bows

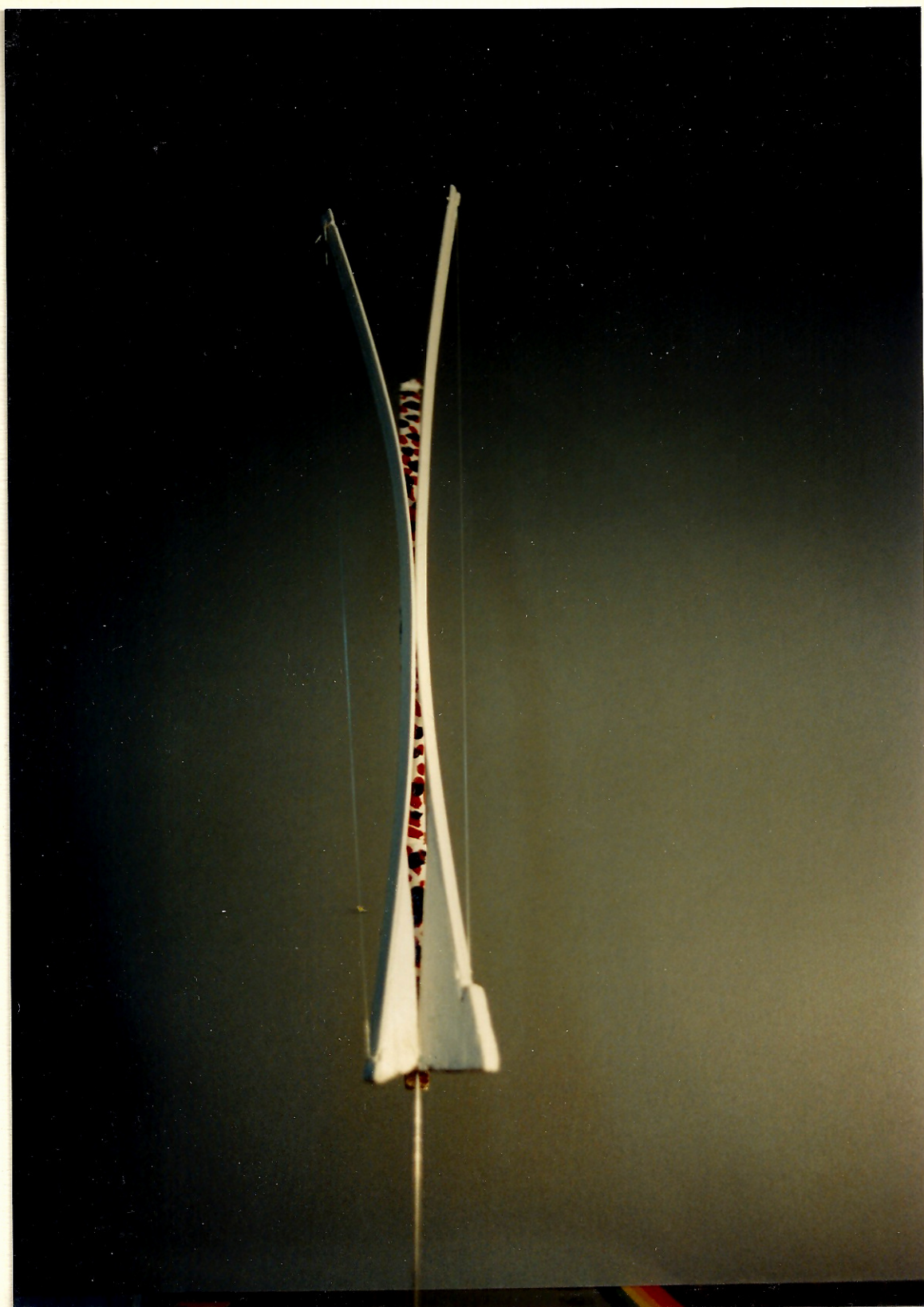


PLATE XIII Cluster of wind bows



PLATE XIV Wind bows, upper pool and inner yard

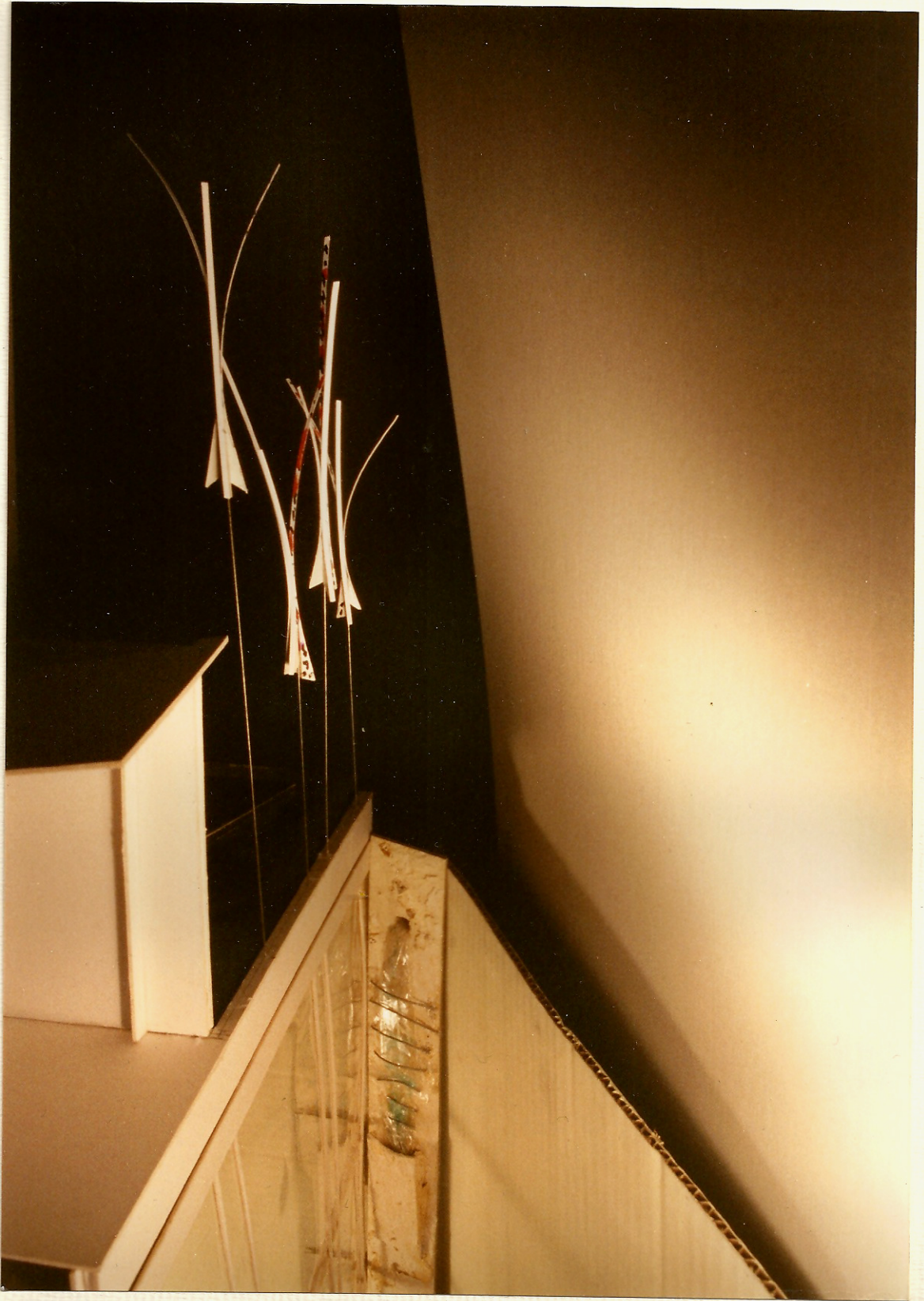


PLATE XV Waterfall and hydrophones