

Darren Curtis

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Poster - MiniCV Controller

Poster

*Submitting for the MiniCV Controller for ACMC 2006
For use in Live performance and thesis work for honours and masters/PHD.*

Introduction

My name is Darren Curtis, I am a honours student at Adelaide University in Music Technology. I am very interested in using this device to convert light into sonic frequencies.

Sonic DNA

This conversion from light into sound is a valid research tool for my work in transposing DNA spectral ranges of light into corresponding frequency ranges of sound.

For my honours thesis, I am proposing how sound and music can affect different states of healing in living systems. This is titled Frequency medicine - Sonic Neuro and Biotechnologies.

In understanding this work on deeper level, I am going work out the specific frequencies that healing can be best instigated from the standpoint of sonic frequencies. In future research Masters/PHD, I aim to work with specific DNA frequencies of light and transpose them into the sound ranges and hopefully experiment how this affects different growth rates of bacteria.

DNA Laser harp

Part 2 of my research is in wanting to build a laser harp. This involves trying to work out the best way of capturing laser light via a sensor then converting it into midi and triggering sound samples.

This device the mini-controller would allow for ease of experimentation and significantly help develop advanced compositions for my work in this field.

I would be able to play the DNA base frequencies on my laser harp to give a real live demonstration of what DNA might sound like. Thus with ease of mapping these base frequencies of DNA I could quickly make complex compositions.

All work would be done via Max/MSP and other software samplers ie Kontakt and Scala.



Figure 1. Jarre's Laser Harp
<http://laserharp.manuelschulz.com/html/jarregal.html>

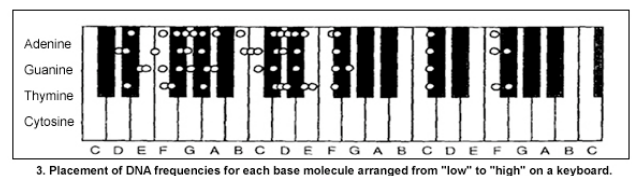


Figure 2. DNA bases transcribed from Light to Sound
(From personal images by Susan Alexjander
www.oursounduniverse.com)