

Barton Hill School - Audio Responsive Light Feature

(Mac Dunlop / Annie Lovejoy 2008)

Concept:

In light of 'public art' permanency this feature is designed to incorporate change rather than to exist as a static sculpture. An aesthetic experience is generated through interaction. By employing the use of sensor-led technology, sound levels will generate a visual response through the medium of light.

The structure spans two floors of the building The framework is constructed to hold plastic forms moulded from sheets that are 100% recycled – made from plastic water bottles & broken CDs (Smiles Plastics Ltd). The material has a deep blue translucency speckled with the reflective glitter of broken CDs

Housing microphone / sensor technology that triggers LEDs this sparkly cosmos will come alive with light. Loud noise will shut the lights off and direct voice levels in proximity to the hidden microphones will trigger differing responses. The circuitry is built by our collaborator Mark Newbold and uses less power than a 60watt light bulb.

The design engages with the ecological remit of the new school through use of recycled plastics and low energy consumption. Ideally this artwork would be solar powered, and has been designed with this in mind.

We understand that the school might be able to take advantage of existing grant schemes that can offer up to 100% of the costs. There is a local initiative that has helped a number of schools to achieve this:

Schools and charities can apply for up to 100% grants - from the EDF Green Fund, E-On Source Fund, Scottish Power Green Energy Trust or similar regional schemes.

http://www.solarsense-uk.com/commercial_buildings.php

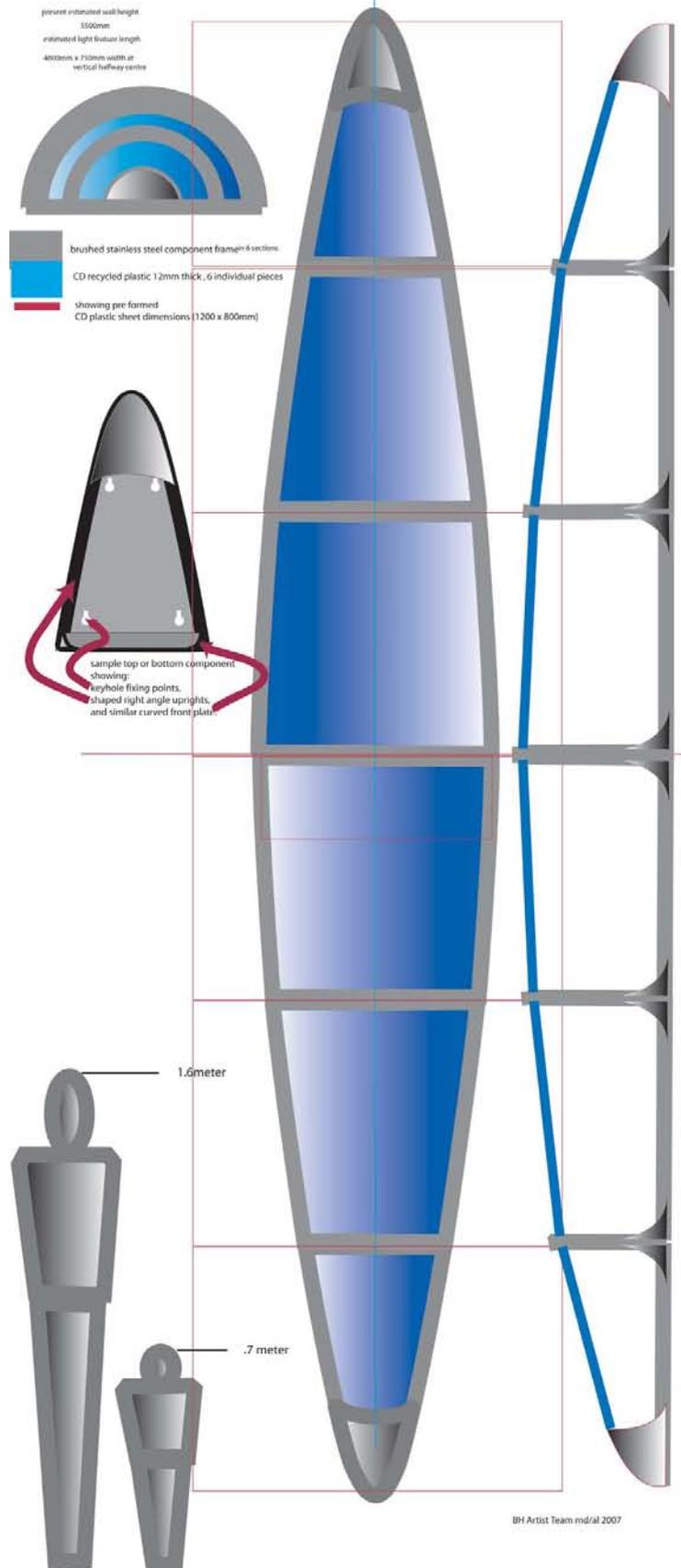
Maintenance:

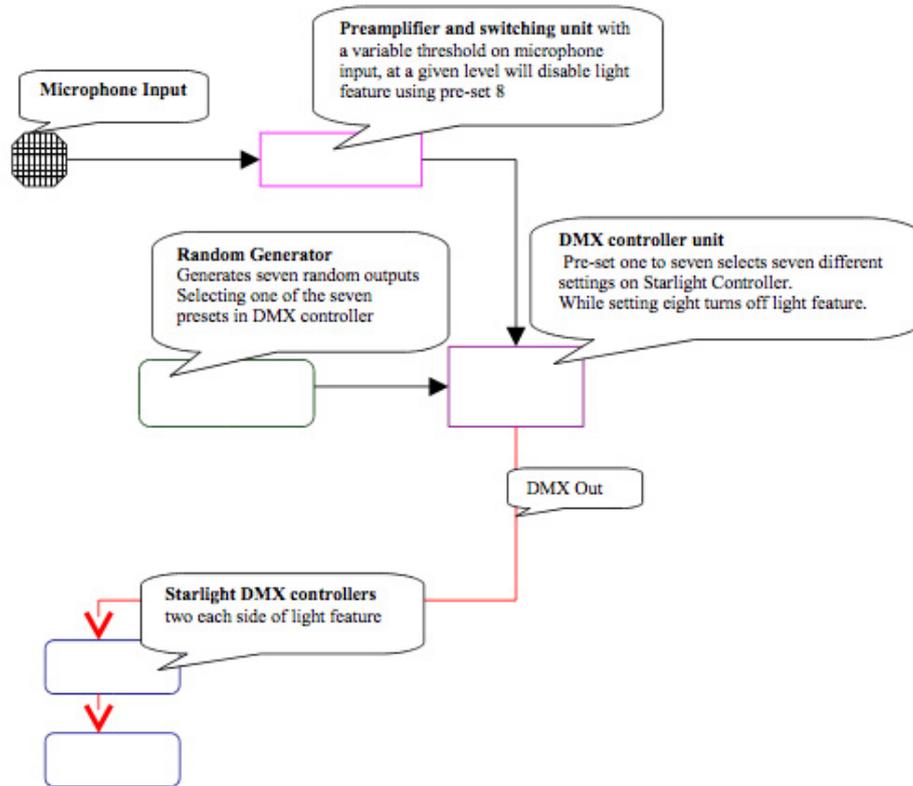
- **Cleaning:** Do not use abrasives or detergents, use cotton cloth to dust, car wax can be applied to the metal, and polished if desired.
- **Can be left on:** An automatic timer has been integrated with the light control units, it is set to run between 8:00 and 20:00 hours (BST) every day.
- **Technical:** The unit can be switched on and off at the safety key switch above the doorway on the first floor, and at the main switchboard. (Labelled "Totem Light", L3)

Guarantees: Warranty on the control units, and Led lights will expire August 2008, and is limited to the guarantee provided by the manufacturer. All other components are under guarantee to be free from manufacturing defects for one year from the original date of installation (April 6, 2008).

The Artist Team cannot be held responsible for consequential losses caused by failure or breakdown of its products or goods supplied either within or without warranty. Damage to the installation either accidental or intentional is not covered in this warranty. Use of the installation beyond its intended use is also an infringement of the warranty. Failure to undertake service schedules at appointed time scales also invalidates the warranty. A fee may be applied for attendance to the Light Feature if required.

Elliptical responsive light feature





Circuitry designed by collaborator Mark Newbold

ABSOLUTELY NO SWEARING OCCURED DURING THE MAKING OF THIS ARTWORK

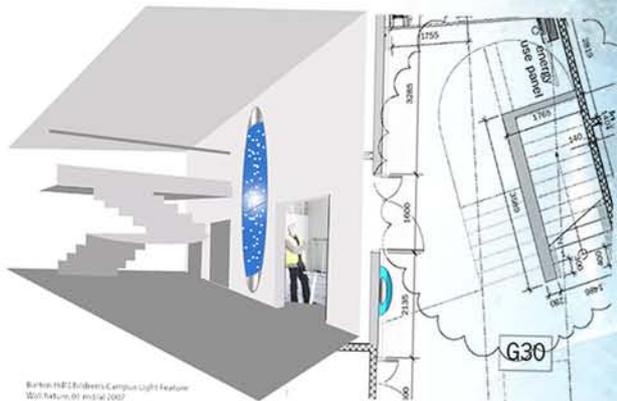


Spanning two floors of the new school is a sculptural sparkly 'cosmos' that comes alive in response to noise levels. The design engages with the ecological remit of the new school through use of recycled plastics and low energy consumption.

Elliptical in shape the feature is constructed from brushed aluminium & plastic made from recycled water bottles & broken CDs. The kiln moulded plastic forms house sensor-led circuitry that triggers a mass of embedded LEDs.

recycled plastic

Loud noise shuts the lights off and direct voice levels in proximity to the hidden microphones trigger differing responses. The feature uses less power than a 60watt light bulb. This artwork could be solar powered and was designed with this in mind.



Burton H&E's Ribbles Campus Light Feature
Wall Feature, 01 initial 2007

light
sparkle



PLEASE SAY
SOMETHING.. ANYTHING...
OH PLEASE

Microphone Input



LEDs

Preamplifier and switching unit with a variable threshold on microphone input, at a given level will disable light feature using pre-set 8'

noise levels

Random Generator
Generates seven random outputs
Selecting one of the seven
presets in DMX controller

DMX controller
Pre-set one to s
settings on Star
While setting e

looking at the possibilities of the circuitry
designed by Mark Newbold...

