Bianca Janossy

Curriculum Vitae

Address: *The Flat, 9 Silver Street, Bradford-on-Avon, BA15 1JY*

Tel: *01225 920 199/ 07886 034 019*

Email: *currentarchitecture@gmail.com*
Website: *www.currentarchitecture.co.uk*

Domino House, Annedd Elderly Care Home, Escape Housing, Haghill Conversion- with PCKO Architects

Objective:

RIBA Part 1 qualified architectural designer with MA in Computer Imaging in Architecture looking to deliver office and hands-on experience as an Interactive/ Interior Designer, Architectural Assistant or 3D/ Graphic Visualiser.

Technical Skills:

2D & 3D Visualisation: AutoCAD 2012, Sketch-Up 8, Revit 2012, Microstation V8 incl. GC, Cinema 4D, Maya, 3DS Max 2013, Vray.

Graphics and Video: Adobe CS5: Ill., PS, AE, ID, Dreamweaver

Physical Interface Software: Arduino, Processing, Max/MSP and Jitter, Resolume 2.41, Ableton Live.

Hardware: Problem solving, fixing, supervision/ hands on building. Photographic & video cameras, A0 plotters, hard drive installations, microphones, projectors, audio/ video mixers, wiring, midi interfaces, components, sensors and physical interface boards.

Other: Ulead DVD Workshop, video codices, Word, Excel spreadsheets, file conversion and organisation, drivers, software/hardware installation antivirus/ firewalls, troubleshooting, specifying, electricals, manual labour, building reg.s, planning applications, energy assessment, sketching.

Employment and Experience:

Sept 12 – Now: Renewable Energy Sales Consul
Reality Renewables Limited/ Sustainable Energy Corp
http://www.realityrenewables.co.uk | Manchester/ Pakistan
Discussing energy saving upgrade possibilities, booki
Helping with transition from residential to commercial
LED, biomass, solar PV, heat recovery, waste to powe

Nov 09 – April 12: Arch. Designer, Construction,
http://www.wix.com/happybianca24/garden-studio/ | Wooburn Gree
http://www.wix.com/happybianca24/britton-house/ | Manchester
Setting up of Current Architecture Ltd. Freelance drau
Planning applications. Property investment. Built 17.5

Dec 08 – Dec 10: Business Training, Web portfol
http://www.currentarchitecture.co.uk/ | Harrow / Westminster
HIB, Future Training College, BuildUp. Web/ portfolio
production and live performances; Glade Festival, Wh

Dec 07 – Nov 08: Architectural Assistant, PCKO
http://www.pcko.co.uk/ | Harrow
Llys Glas, Swansea's former central police station tra
use community and business development with acco
and restaurant facilities. Housing Design Awards Fina
Annedd elderly care home, winner of CIBSE South Wa
of the Year 2009, staggered into the hilly landscape w
biomass boilers, solar panels, underfloor heating, rai
photovoltaic cells including a PV artwork glazing ele
A BREEAM 'Excellent' score is predicted. Drawings w
through the planning, building regulations, working d
detailed sections through and elevations of the buildi
construction coordinates for S.E.s, large format comp

Oct 06 – Feb 08 : Company Sec./ Co-Animator, G
http://www.myspace.com/vj_louis | Rayners Lane
Live VJ performances, equipment organising, transpo
visualisation rendering, interactions with people, midi,

Dec 04 – Aug 06: Architectural Assistant, PCKO
http://www.pcko.co.uk/ | Harrow
Production of all drawings & design for the highly rate
Childrens' Centre, exceeding current regulations for t
performance; Skilled cross-referencing of AutoCAD d
MicroStation conversion, liasing with engineers, Hyde
Council at site meetings. Massing studies through to
visualisations, 3D Studio Max and Microstation for Ba
Haghill School conversion. Several housing projects i
winner of the Daily Mail British Home Awards and Lea
which recieved a Homes for Life silver standard. Also
Court and Wyndham Road sites for Hyde Housing As
part of the family of flexible and adaptable volumetric
Government's RAPID programme to develop and dem
demountable method of construction, using off- site p
construction and on site coordination elements. Expe

tant/ Shareholder/ Director,
oration Limited

ing survey appointments.
customers, introducing
r, voltage optimization.

, Investor/ Landlord
n

ghting/ 3D visualization,
sqm freestanding studio.

io, Video Performance

compilation. Animation
irl-y-gig, Conscious Pilot.

Architects

nsformed into a mixed
nmodation, workshops
list, Thornberry Court.
les Sustainable Project
th green roofs, wood pellet
water harvesting and
ent in the entrance foyer.
ere resolved, brought
rawings with several
ng, specifications made,
iled drawing packages.

uardian Angel IT Ltd.

rt & rigging, 2D/ 3D
, live camera feeds.

Architects

d Domino House
hermal and acoustic
awings using
Housing and Southwark
highly detailed Sketch-Up
ngor University and
ncluding; eScape,
f Award, Horns Cross,
Lingham Street, Barling
sociation, designed as
units responding to the
onstrate the innovative
refabricated modular
rience of AB, CD, EF stages.

Achievements:

Exhibition at RIBA London : Graphic Architecture,
Digital Installation - 'The Listening Room' - Summer 2002
A synchronised response, a reflexive notion in time: when a physical space meets an information space, distance is erased. In removing the signifying meaning of symbols, letters and numbers, the keyboard reveals its true identity as a tactile musical instrument. Screens flicker on a bank of computers, each displaying a synchronised wash of colours that pulsate and throw shadows of hues and frequencies denoted by remote web inputs. Submitted by an unknown body and location, colour washes throughout the isolated 'Listening Room' to push it into transparency while bringing the effect of real people artificially into the room.

Education:

Oct 2009 – Feb 2010 | Build Up/ Landlord Seminars
Retrofitting the Built Environment, The Green Register, Communicating and Presenting, Selling Design, Assetz Investors
http://www.build-up.org.uk/ | http://investors.assetz.co.uk/

Oct 2009 – Apr 2010 | Future Training College
City and Guilds Nat. Dip. Non-Domestic Energy Assessor
http://www.futurecollege.co.uk/

Sept 2009 – Sept 2009 | Harrow in Business
Be Your Own Boss, Marketting, Mentoring, Online Marketting, PR
http://www.hib.org/

Sep 2006 – Sep 2007 | University of Westminster
MA Computer Imaging in Architecture (with Merit)
http://www.westminster.ac.uk

Sep 2000 – Jul 2003 | University of Greenwich
BA (Hons) Architecture (IIii)
http://www.eds.gre.ac.uk

Sep 1998-Jul 1999 | Portsmouth University
Nat Dip Art Foundation Course
http://www.port.ac.uk/courses/coursetypes/adulteducation/ABCDiplomaFoundationStudiesArtAndDesign

Sep 1991-Jul 1998 | Heathfield GPDST School for Girls
3 A-Levels: Art (B), Physics (C), Maths (C) | **9 GCSEs:** Maths (A*), French (A*), Art (A), Science (AA), English (AB), Latin (B), CDT (D).
http://www.gdst.net/heathfield

Sketch-Up model of Bangor University - with PCKO Architects

MA Computer Imaging in Architecture:

Semester 1:

Introduction to Design Computing. Perspective, perception, kinetic imagery
2D to 3D. **Microstation:** Generative Components and Rapid Prototyping

Semester 2:

Applied Animation. **Maya:** fluid kinetics experiments
Site & Motion. **Photography:** Urban Labyrinths, **Flash:** animation with Action Script
Thesis Design Development. **Physical interfaces:** Arduino & Max/MSP

Semester 3:

Major Thesis. **Interactive Individual projects:** Interactive real-time optically reconfigurable material, inspired by crystalline structure and the LCD screen.
In the current ecologically aware climate, the design uses architecture that amplifies natural sunlight into three colours; red, green and blue, through nano crystal material discs that rotate to intensify chosen mixes of these colours, as if they were each acting as a colour wheel. The discs are connected together like a kit of parts to occupy any space, flat or three dimensional. the system exists under pneumatic pressure, shifting the hierachies of air sacks using valves and small motors. The colour discs in a gradual, graceful and alive shimmering pattern, as the spaces breathe in reaction to global and local conditions.

BA (Hons) Architecture:

1st Year Projects:

Weather-Reactive and Erosive Installation as viewpoint on the industrial banks of the Dartford Crossing Bridge.

Organic Cellular Bridge-Museum glass and steel chambers tumbling down quarry-side, over man made lake to Bluewater shopping Centre car park.

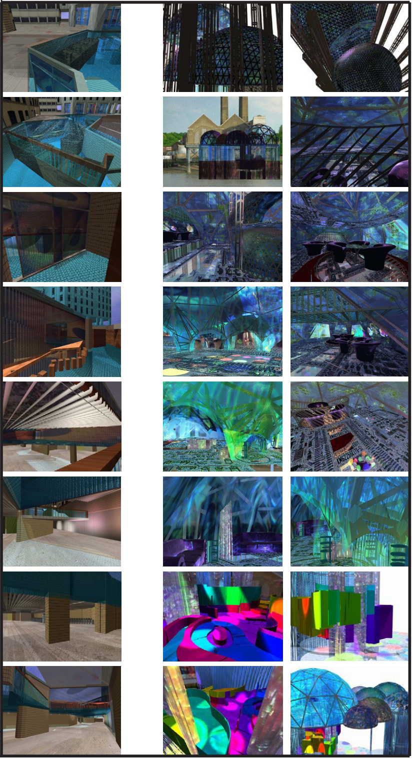
'Rain on Corn, Tears on Flowers'. Registry office in multi-cultural Brick Lane using non-religious symbolism. The Islamic arch is lain on its side in a configuration reminiscent of a sheath of corn, plaited hair or bread. Within each arch is an office to register births, marriages and deaths. on the other side of a courtyard are another three larger arches growing from one another for the progression of a marriage ceremony. Here the heart and fish lie in the furniture arrangement. The couryard is open, covered by just a tensile structure which channels rain down around a tear-shaped wishing well.

2nd Year Project:

Transgressive Semi-Public Workshop for the Homeless. A break though the dark passages at Charring Cross from the underground to provide a long thin light-giving mezzanine in otherwise unused space. With thick textured glass floor and ceiling, the design used the concept of 'the glass ceiling' as a comment on the social constraints faced by the homeless. The transparency also comments on the temporary nature of the shelter/ help center and the limbo between private and public that homeless people exist in when on the streets and in hostels.

3rd Year Project:

The First and Last Degree Day and Night Club located above tidal water directly below the Greenwich Meridian laser line kinetic lunar-dependant night and day club. Complex interlinked and floated building system with cinematic multi-hemi-spherical static roof. Floors slide vertically up at varying times, from set heights, on a system of runners similar to those used in large round gas container structures. With up to 9m of water level change about every 7 hours, the disused 12m high pier on the median line along the Queens' Walk from Greenwich makes an ideal venue. The internal layout aims to provide variety, adventure, surprise and meening so as to encouraging those using the space to move in new ways and meet new people in a thought-provoking environment.



BA (Hons) Architecture 2nd yr / 3rd yr

Examples of Work

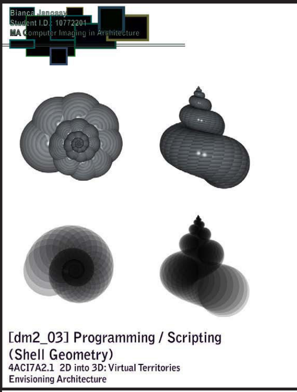
SEMESTER 1

MA Computer Imaging in Architecture

University of Westminster

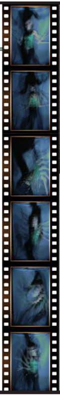
Bianca Janossy
Student I.D.: 10772201
MA Computer Imaging in Architecture

[dm1_03] Vision in Motion
Composite Images
Introduction to Design Computing
4ACI7A1.1 Architecture and Images

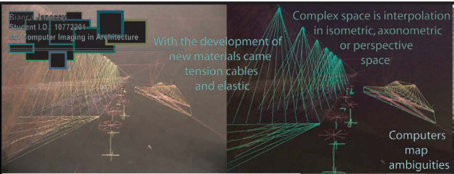


Bianca Janossy
Student I.D.: 10772201
MA Computer Imaging in Architecture

[dm2_03] Programming / Scripting
(Shell Geometry)
4ACI7A2.1 2D into 3D: Virtual Territories
Envisioning Architecture



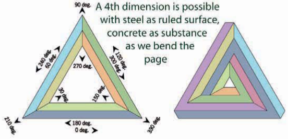
Bianca Janossy
Student I.D.: 10772201
MA Computer Imaging in Architecture



With the development of new materials came tension cables and elastic

Complex space is interpolation in isometric, axonometric or perspective space

Computers map ambiguities



A 4th dimension is possible with steel as ruled surface, concrete as substance as we bend the page

[dm1_02] Spacial Distortion 2 (Perspective & Axonometric)

4ACI7A1.1 Introduction to Design Computing: Architecture and Images

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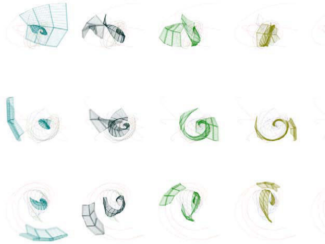
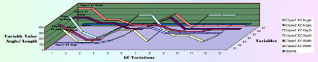
Bianca Janossy
Student I.D.: 10772201
MA Computer Imaging in Architecture

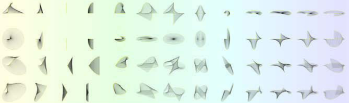


[dm2_05] Sequence: Tooling and Modelling (CNC and Rapid Prototyping)

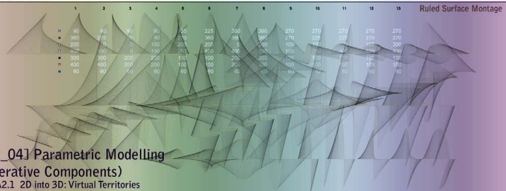
4ACI7A2.1 2D into 3D: Virtual Territories
Envisioning Architecture

Bianca Janossy
Student I.D.: 10772201
MA Computer Imaging in Architecture





Eliptical Path Variations



Ruled Surface Montage

	1	2	3	4	5	6	7	8	9	10	11	12	13
■	90	90	90	90	135	225	360	360	270	270	270	270	270
■	360	225	90	90	270	360	360	360	270	225	225	270	270
■	200	0	0	100	200	200	0	200	100	100	[illegible]	100	300
■	400	100	0	100	200	400	400	100	100	200	400	100	100
■	300	300	200	200	100	100	200	300	100	100	100	100	100
■	400	400	200	200	100	100	200	300	100	100	100	100	100
■	60	60	60	60	60	60	60	60	60	60	60	60	60

[dm2_04] Parametric Modelling (Generative Components)

4ACI7A2.1 2D into 3D: Virtual Territories
Envisioning Architecture

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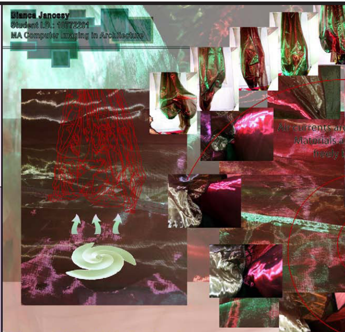
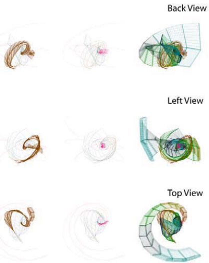
MA Computer Imaging in Architecture



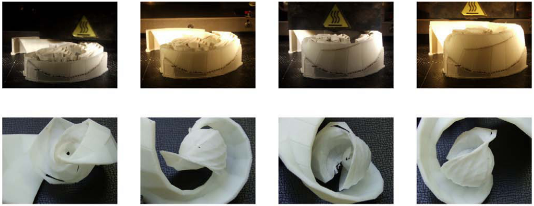
Air currents are
Materials a
freely b

[dm1_04] Machinic Production (Auto-dynamism)

4ACI7A1.1 Introduction to Design Computing: Architecture and Images



Bianca Janossy
Student I.D.: 10772201
MA Computer Imaging in Architecture

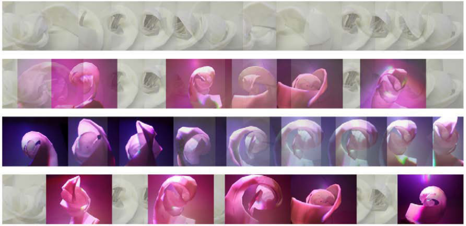


[dm2_05] Sequence: Tooling and Modelling (CNC and Rapid Prototyping)

4ACI7A2.1 2D into 3D: Virtual Territories
Envisioning Architecture

Photos taken from side
e applied below
e allowed to
bellow and
spin
Photos taken from below

Bianca Janossy
Student I.D.: 10772201
MA Computer Imaging in Architecture



[dm2_05] Sequence: Tooling and Modelling (CNC and Rapid Prototyping)

4ACI7A2.1 2D into 3D: Virtual Territories
Envisioning Architecture

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scale an
accompl

Examples of Work

SEMESTER 2

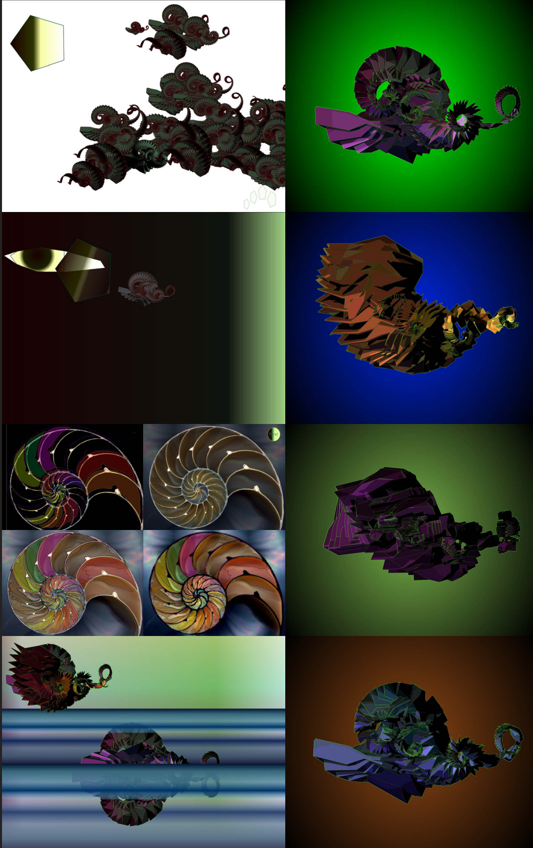
Urban Labyrinths

Artificial labyrinths may not be as
ngenious as those of Nature (or God), but they are human in
d meaning, thus contain resolutions and even possibilities of
ishment and victory; they define our peculiar human journey.

←Exits 3, 4, 5 and 6
↑Exits 7 and 8
Exits 1 and 2→
TICKETS & TRAINS
tin's
access
range solution

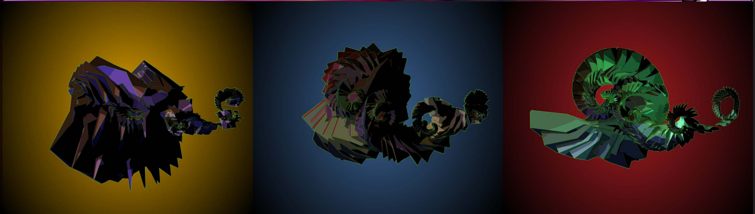
Flash Animation

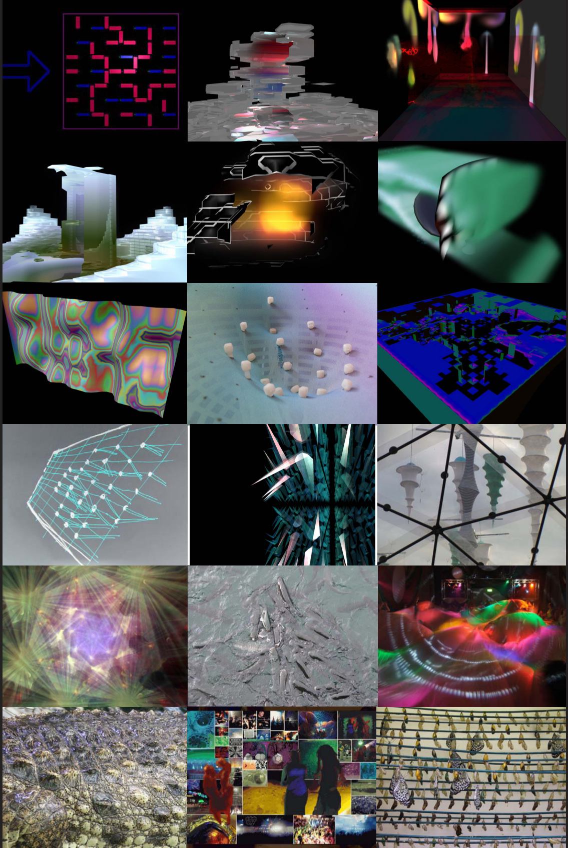
Evolution and Exploration

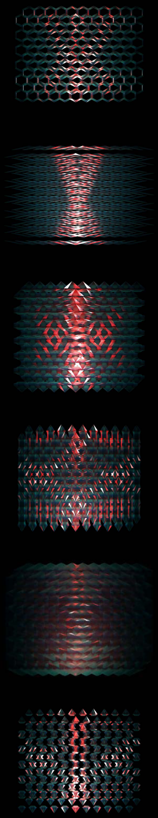


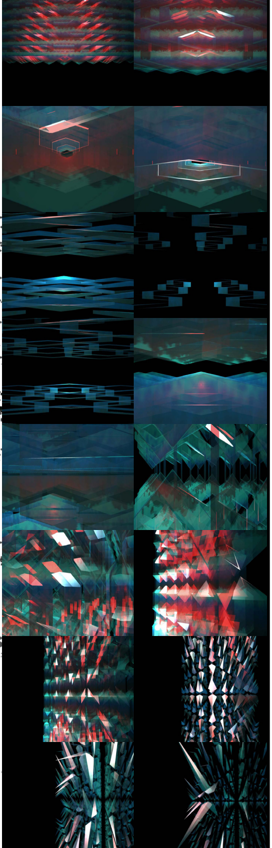
Maya Animation

Fluidity
and Kinetics









Thesis Project - Cu

Examples of Work

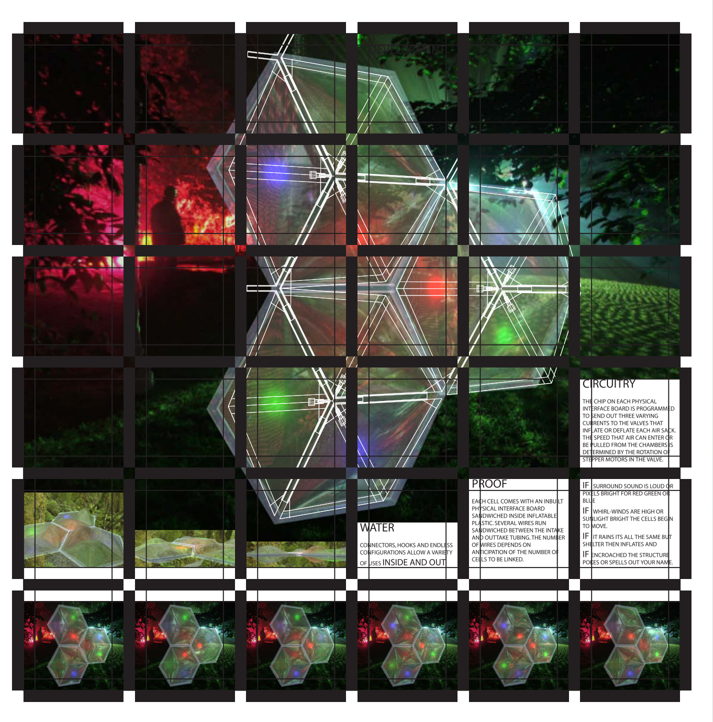
SEMESTER 3

rrent Architecture

An interactive reconfigurable signifying material inspired by natural phenomenon

WATERPROOFS

MULTI-PIXEL **PNEUS**



CIRCUITRY

THE CHIP ON EACH PHYSICAL INTERFACE BOARD IS PROGRAMMED TO SEND OUT THREE VARYING CURRENTS TO THE VALVES THAT INFLATE OR DEFLATE EACH AIR SACK. THE SPEED THAT AIR CAN ENTER OR BE PULLED FROM THE CHAMBERS IS DETERMINED BY THE ROTATION OF STEPPER MOTORS IN THE VALVE.

WATER

CONNECTORS, HOOKS AND ENDLESS CONFIGURATIONS ALLOW A VARIETY OF USES INSIDE AND OUT

PROOF

EACH CELL COMES WITH AN INBUILT PHYSICAL INTERFACE BOARD SANDWICHED INSIDE INFLATABLE PLASTIC. SEVERAL WIRES RUN SANDWICHED BETWEEN THE INTAKE AND OUTTAKE TUBING. THE NUMBER OF WIRES DEPENDS ON ANTICIPATION OF THE NUMBER OF CELLS TO BE LINKED.

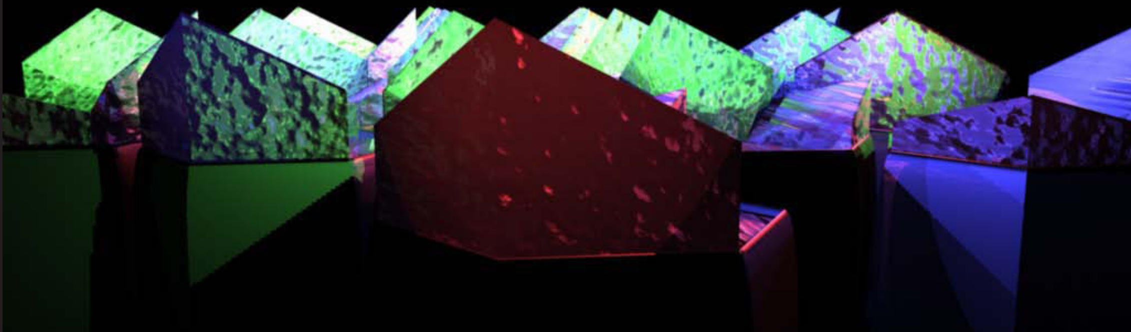
IF SURROUND SOUND IS LOUD OR PIXELS BRIGHT FOR RED GREEN OR BLUE

IF WHIRL-WINDS ARE HIGH OR SUNLIGHT BRIGHT THE CELLS BEGIN TO MOVE.

IF IT RAINS ITS ALL THE SAME BUT SHELTER THEN INFLATES AND

IF ENCROACHED THE STRUCTURE POKES OR SPELLS OUT YOUR NAME.

OPTICAL WHISPERING GALLERY



Optical Space

Illumination through optically controlled space harnesses naturally occuring resources from the sun. Through the amplification of prioritised wavelenghts of light, external inputs denote to what extent these wavelengths rebound through RGB optical channels.

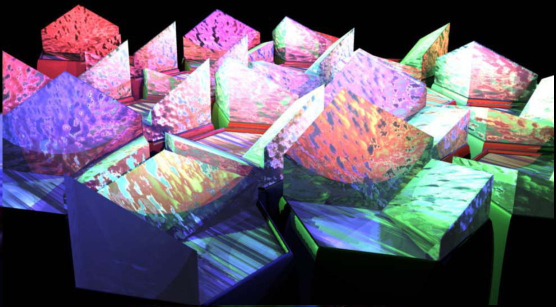
channels.

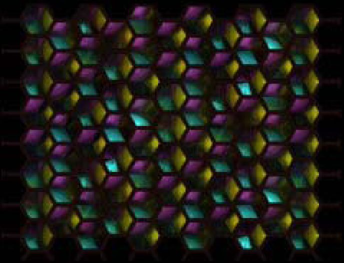
Refractive Channelling

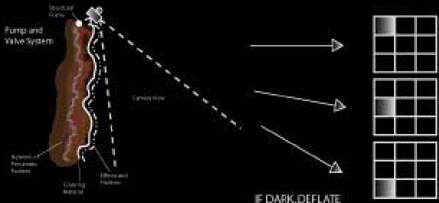
Transmission of sunlight is inversely proportional to the angle between the sun and optical entry plane. For optimum transmission directional sunlight hits each side of the optical chamber at a perpendicular angle, therefore maximising the multiples through which the wavelength can amplify before leaving the chamber.

Angular Shifts

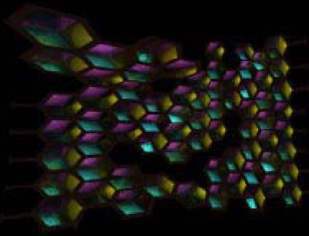
For the transmission of sunlight to represent RGB each cell is controlled by its own pneumatic cusion that forms a tilting motion between horizontal and vertical. Through an analogue system of digitally activated valves, the volume of air inside each cussion is accurately controlled. The cusions are adjusted by opening a connection to the deflation vein or inflation artery. The cusions become kinetic, rippling and vacillating with incoming pixel juice.

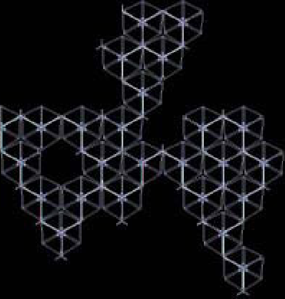


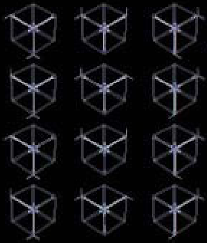




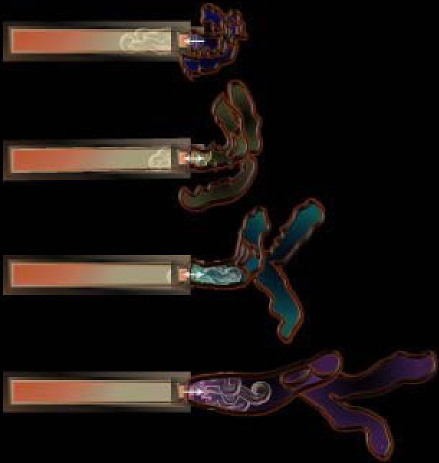
IF DARK, DEFLATE
IF LIGHT, INFLATE
IF MID, EQUILIBRIUM

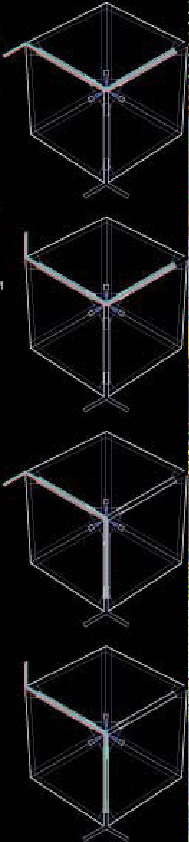


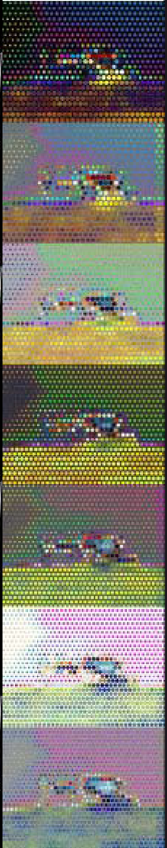




CONFIGURATIONS
CONSTRUCTED FROM
GENERIC SYSTEM

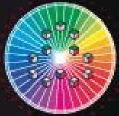




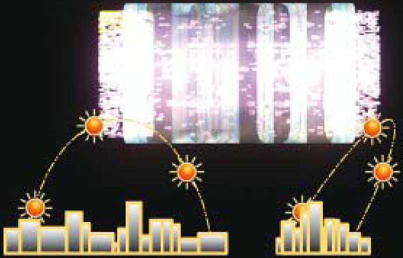


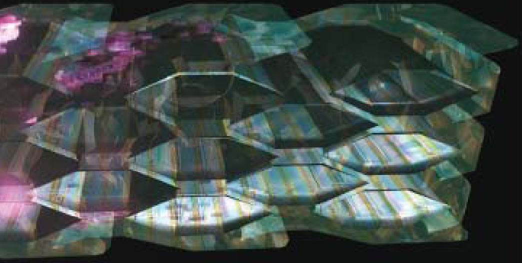
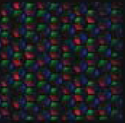
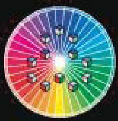
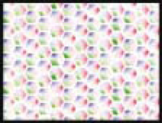
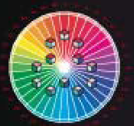
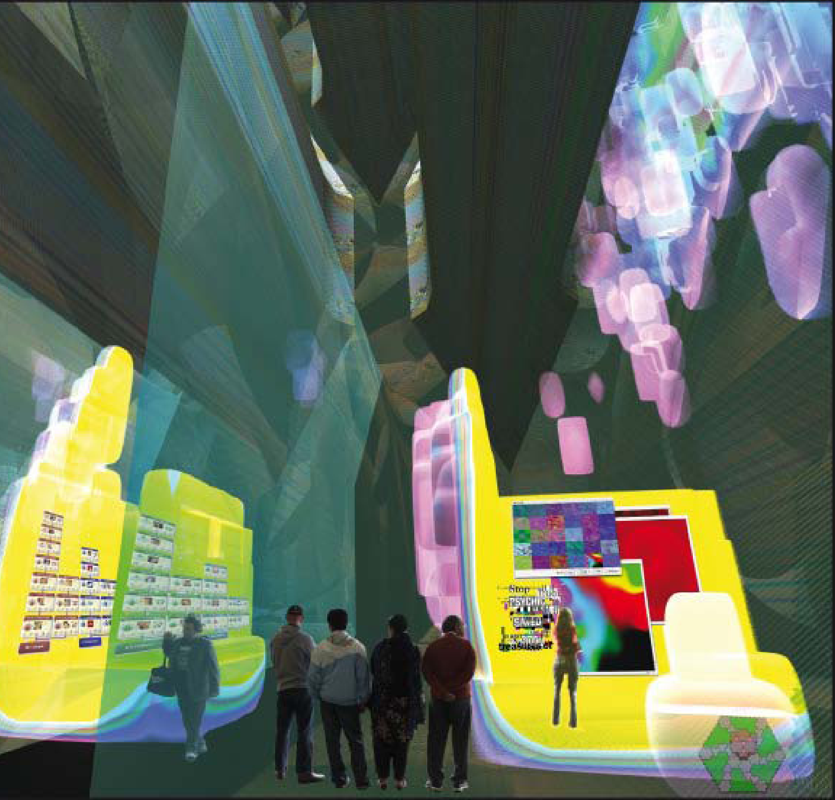
Angular Shifting

Public access points aim to channel interactive engagement in a safe and user-friendly way. The screens themselves aim to utilise natural sunlight through optical fibre whispering galleries. These work by using a reflective hexagonal core with a diameter that is a multiple of six of the wavelength of the required colour. The sections containing optical fibres used to amplify the specific colours needed at the time are rotated by the pneumatics to be perpendicular to the direction of the sun at that time of day.



and the Channelling of Light



Through the control and effect of tiny pneumatic valves in an under-lying network of gaseous pipes, the energy harnessed by the channelling of air pressure becomes apparent. As with flowing rivers, blood and electricity the containment of air can provide considerable force due to air pressure. By using circuits within circuits, small currents from computer programs are used to switch the tiny motors in the pneumatic valves. These valves then in fact switch even larger currents of air. A matrix, or even lattice, containing values for RGB, CYMK or rotational degrees provides the pixel juice to feed the system with information. Programs that convert input to video provide this gateway and allow people using real-time software or hardware manipulation to manage, enhance or perform with the kinetic phenomena inside the building.