

GBE 
www.GreenBuildingEncyclopaedia.uk

CAP'EM
Cycle Assessment Procedure for Eco-impacts of Materials



Spatial Agency Of Humans

GBE Lectures
LSBU 2016
RIBA Part 1 Year 3

Semester 1, Technology 2

- i.e. Bachelor BA3 students Third year
- Monday 24 October (11.00-13.00am)
Room T214
- Tutor: Andrew Stoane
- Lecture 1: Andrew's brief to me

So far I have given 3rd year 2 lectures.

- The second was about infrastructures, systems and devices for pedestrian movement (manual and mechanical) and the various experiential phenomena associated with them.
- We also discussed a little about automated building systems versus manual operations, really with a view on spatial agency of humans.
- Maybe following on from this you could pick up in more detail on such systems – computer heating, lighting, solar, ventilation control etc.

Spatial Agency

- Spatial Agency is a project that presents a new way of looking at how buildings and space can be produced.
- Moving away from architecture's traditional focus on the look and making of buildings,
- Spatial Agency proposes a much more expansive field of opportunities in which architects and non-architects can operate.
- It suggests other ways of doing architecture.

In the spirit of Cedric Price

- the project started with the belief that a building is not necessarily the best solution to a spatial problem.
- The project attempts to uncover a second history of architecture, one that moves sharply away from the figure of the architect as individual hero, and replaces it with a much more collaborative approach in which agents act with, and on behalf of, others.

Herman Hertzberger

- Central Baheer Apeldoorn Holland
- Office building with communal services and shops in ground floor mall
- Staff can go about their business over lunch hour or before and after work
- Community facilities in ground floor mall
- The high street in your office

- **Designed buildings where the owners/ occupiers designed the elevations**
- **Student accommodation became famous for it**
- **The pallet of materials may be up to the designer to set boundaries**
- **Making the building sound construction and weatherproof is essential**

In Holland

- An architectural Practice
- Creates a website for every project/town
- Researches materials/products/waste arising in the area
- Documents it for all to engage in more of the same
- Designs buildings with what is available

24/10/16 E.g. Facades of second hand windows

Bill Dunster BEDzed

- Sets a mileage limit for procurement of materials for projects
- Including second hand
- 30 miles from site is a good example
- On the outskirts of London that's a lot of companies
- Some products break the 30 mile rule
- UK does not make much anymore
- UK does not make all things very well

UEA University of East Anglia

- Architectural Competition for new building
- Brief: Passivhaus and BREEAM Excellent
- Low carbon: Bio-based
- Architype developed a Bio-based and reclaimed directory for EofE

Community Architecture

- St. Rod Hackney became President of the RIBA for it
- His practice worked in the community that refurbished their own
- Worked with occupants to design their spaces
- Worked with them to carryout the work
- One or two years maximum or they were burnt out
- Reclaimed and reused materials
- Repaired and refurbished building and components
- Earned an hour on the Shot-fired nail gun by doing a weeks work

Public consultation

- Developers show the design and ask for feedback
- Then ignore it (Fiduciary rules apply)
 - (An obligation to make a profit for shareholders)
- Architects show their design and ask
- Do you like my architecture
- Better still ask the community before you start
- What they want and need
- What works and does not about the existing
- Ask and mean to engage

Consumer mobilisation

- Social media campaigns,
- Community power,
- Consumer pressure on companies,
- Civil disobedience,
- Civil disruption,
- Transition towns

CSR Corporate Social Responsibility

- ISO 26000:2010
- Voluntary guidelines for social responsibility (SR)
- Its goal is to contribute to global sustainable development,
- by encouraging business and other organizations
- to practice social responsibility to improve their impacts
- on their workers, their natural environments and their communities
- Fiduciary rules do not always prevail

Open Data (in the world of BIM)

- We now have information technologies and
- a global data infrastructure that will accelerate us towards *evolution* allowing us to remake the industry in novel, but desperately needed, ways;
- transforming an adversarial self-serving Construction Industry into a low cost, low carbon Built Environment industry that sustainably serves society.
- Paul Fletcher explains *why* the industry has been in *accommodation* for so long,
- *what* BIM heralds for *adaptation* and, in the era of Big Data,
- *how* the industry has a real opportunity to *evolve*

Jessie Baker

- Structural Engineer trained
- Encouraged to attend RCA
- Wanted to give power to consumers over retailers
- SmartPhone App to scan objects on shelf interrogate internet and return data in seconds
- To enable choice based on company ethics and product environmental credentials
- Amazing portfolio and 3 TED talks

• Britta Riley

- R&DIY
- The founder and spokeswoman at the hub of
- *Indoor Window Farms* project.
- Open Source Collaboration,
- http://www.ted.com/talks/lang/en/britta_riley_a_garden_in_my_apartment.html

Open Source Collaboration

- Like IT Open Source Collaboration, that develops free software,
- by many people with expertise in different areas contributing to one task,
- ‘the whole being greater than the sum of the parts’
- In the case of the *Indoor Window Farms* project,
- a description of an idea complete with all its weaknesses,
- was released on the *Social Infrastructure* of the internet with an invitation to people with ideas for improvement to come forward.
- Within a short period 18,000 *co-developers* world wide are developing the low impact solutions to improve the original idea,
- either with new ideas or testing those new ideas;
- where there are many options,

24/10/16 may trials will find the optimum solutions.

Self-Build

- Self-Build Self-Manage Self-Procure
- Without a builder make it yourself
- Without a site agent or a project manager
- With or without sub-contractors
- Unskilled but care
- Can be better than skilled and don't care
- or skilled but not permitted to care (fiduciary rules)
- Custom build
- DIY

Children in Control

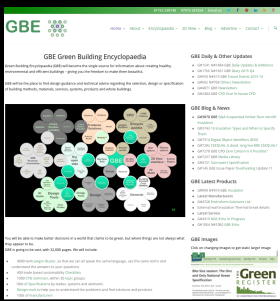
- Children driving parents to improve,
- School curriculum:
 - pupils taking over the running of schools

Ownership of Space

Next Seminar

Controls

Last week



Feedback

- These files are created by generalists with a big dollop of green flavour
- These files are updated from time to time
- We are not experts so from time to time these file may get out of date or may be wrong.
- If you feel that we have got it wrong please let us know so we can put it right



GBE

www.GreenBuildingEncyclopaedia.uk

CAP'EM

Cycle Assessment Procedure for Eco-impacts of Materials



© GBE 2016

- **Brian Murphy BSc Dip Arch (Hons+Dist)**
 - Architect by Training
 - Specification Writer by Choice
 - Environmentalist by Actions
- Greening up my act since 1999
- Founded National Green Specification 2001
- Launched www.greenspec.co.uk 2003
- Created: GBE at www.greenbuildingencyclopaedia.uk 2015
- E BrianSpecMan@aol.com
- Twitter: <http://twitter.com/brianspecman>
- Facebook: <http://www.facebook.com/brianspecman>