

## **MINUTES OF THE MEETING**

**Meeting No: 2**

**Date: 12/09/2007**

**Location: Cruciform Building, University College London (UCL)**

### **Present:**

1. John Palmer (Faber Maunsell) CHAIR
2. Dejan Mumovic (Bartlett, UCL) Secretary
3. Andrew Wright (De Montfort)
4. Richard Daniels (Schools Capital Design Team, DFSC)
5. Paul Eslinger (White Young Green)
6. Mike Davies (Bartlett, UCL)
7. Colin Ashford (ConsultECO)
8. Ian Pegg (Buro Happold)
9. Nick Hopper (Monodraught) – guest
10. Renate Powel (Carbon Trust Scotland) – guest

### **Apologies:**

11. Steve Sharples (Sheffield University)
12. Maria Kolokotroni (Sheffield University)
13. Dick Bradford (Barnsley BC)
14. David Coley (Exeter University)
15. Mukund Patel (DfES)
16. Gordon Hudson (Mott MacDonald)
17. Ian Taylor (Fielden Clegg Bradley)

#### **1. Introduction**

- UCL acknowledged for providing venue for this meeting
- Guests introduced: Renate Powel (Carbon trust Scotland) and Nick Hopper (Monodraught)

#### **2. Minutes of Previous Meeting**

- The minutes of the 1<sup>st</sup> meeting taken by Samantha McDonough (CIBSE) approved
- All actions of importance to this meeting completed

#### **3. Individual Presentations on Matters of Personal Interest**

- **Dejan Mumovic** focused on research carried out at the Bartlett related to ventilation and IAQ; he presented work of his MSc students on the effect on different window design, occupant density, occupancy patterns and climate change on overheating in schools.
- **Paul Eslinger** stated that engineering has to be durable and robust (engineering fit for purpose) and highlighted the importance of whole life costs of school buildings and a need for holistic approach to school design. Uncertainty related to modelling was mentioned.
- **Andrew Wright** overviewed expertise of DMU's Institute of Energy which includes building simulation for natural ventilation design of schools. He is interested in building monitoring and energy use. His wish list includes more design guidelines for layman, more information on control of natural ventilation, and making schools low energy in practice not just theory. Andrew Wright offered his contacts with schools.

## ***CIBSE School Design Group***

- **Richard Daniels** stated that the Government is pushing towards carbon neutral schools. The aim is for 60% below Part L going towards carbon zero in 10 years. RD also re-inforced the importance of whole life costs for energy technologies. He stated that organisations such as RIBA School Forum, British Council for School Environment, BRE (Classrooms for Future) and BSRIA carried out a number of studies related to schools and suggested get in touch with them. For communication with architects he said that visual means are most important and that he would try and get some input from Richard Quincey who has worked on visual interpretation of proto-typical school designs.
- It is anticipated that in the not too distant future ICT servers will be off-site and this will significantly reduced internal heat gains.
- **Mike Davies** apart from papers mentioned by Dejan, he presented currently ongoing research projects at the Bartlett of importance to school design. This includes projects funded by EPSRC such as: LUCID and BRUCE. In addition, his KTP associate investigates reasons for the discrepancy between predicted and actual energy performance in non-domestic buildings, providing more accurate energy requirements estimates for customers leading to enhanced reputation and greater turnover.
- **Ian Pegg** studied carbon emission of five 'low energy' city academies. This work carried out in collaboration with Dr Maria Kolokotroni highlighted the role of facility management, decentralisation and zoning in reducing energy consumption in school buildings. He called for more post occupancy evaluation of new school building.
- **Nick Hopper** highlighted the importance of facility managers in schools and problems associated with high staff turnover during the construction process. He exemplified the importance of research for Monodraught through collaboration with Maria Kolokotroni.
- **Renate Powel** mentioned that all PFI schools in Scotland has to go through a process called 'competitive dialogue'. She overviewed factors of importance for good learning environments including the quality of daylight and selection of fixtures.
- **Colin Ashford** referred to his wealth of experience in school design and how he had developed room data sheets that significantly help the specification and design of schools. These could be made available to the DCSF and CIBSE if required and with the permission and acknowledgement of the Carbon Trust. CA said he would send this tool to DM for circulation to the committee members for comment by the next meeting. He also suggested that sustainability auditors should be introduced in the procurement process. He presented his work on Bid Evaluation Tool.
- **John Palmer** presented the results of the project which was carried out by FMNectar under Operational Building Performance Framework.

#### **4. Introduction of Position Statement Paper**

- This 'action plan' is to promote and guide discussion and should not be thought of as a definitive statement. The plan aims to set out the range of activities that the group may wish to adopt and methods for taking those activities forward. They are presented with the clear understanding that the group will be mostly self re-sourcing and work will be carried out on a volunteer basis but with background support from CIBSE for events and publications.

#### **5. Action Plan Prioritisation**

- See attached table for details

#### **6. AOB**

- No.

#### **7. Date of Next Meeting**

- The third meeting of the Group will be held on 15<sup>th</sup> November 2007 at University College London at 11.00.

## ***CIBSE School Design Group***

### **ACTIONS:**

- Dejan Mumovic to forward the existing CIBSE Group Manual to the members of the Committee
- Richard Daniels to compile a list of parties/contacts interested in School Design (do not use abbreviations/acronyms only, please)
- Dejan Mumovic to book a room and provide details how to get there.
- Dejan Mumovic to send CIBSE Expense form to the Committee members
- John Palmer to find a home for school related publications
- John Palmer to contact RIBA, BCSE, BSRIA and CABE
- Richard Daniels to send us a template for studies on schools
- John Palmer to check if we can use Share Fair Scheme (BRE)
- Richard Daniels to explore possibilities to upload technical research papers on the Institute of Education database (Richard to provide us with a template for research register)
- Richard Daniels to circulate a copy of the school related events
- Colin Ashford to send room data sheet tool to DM for circulation.
- Nigel Hopper will present CO2 measurement results at the next meeting.