

## **MINUTES OF THE MEETING**

**Meeting No: 12**

**Date: 16/09/2010**

**Location: University College London**

### **Present:**

1. John Palmer (AECOM) CHAIR
2. Dejan Mumovic (Bartlett, UCL) Secretary
3. Mike Entwisle (Burro Hapold)
4. Maria Kolokotroni (Brunel University)
5. Richard Daniels (Schools Capital Design Team, DFSC)
6. Colin Ashford (ConsultECO)
7. Derek Clements-Croome (University of Reading)
8. Martin Liddament (instead of Nick Hopper of Monodraught)
9. Benjamin Jones (Monodraught)
10. Greg Keeling (Essex County Council)
11. Richard Kyle (Institute of Acoustics, instead of Peter Rogers)
12. Paul Eslinger (Frankham)
13. James Hammick (Passivent)
14. Andrew Wright (De Montfort University)
15. Amrita Dasgupta (Leicester Council)
16. James Wheeler (HSE)
17. Daan Vermer
18. Carl Sutterby (Windowmaster England)
19. Janick Roth (Windowmaster Denmark)
20. Christine Demanuele (UCL, Max Fordham)

### **Apologies:**

21. Ian Taylor (Feilden Clegg Bradley)
22. Steve Sharples (Sheffield University)
23. Dick Bradford (Barnsley BC)
24. Robert Garwood (Luton Borough Council)
25. Gordon Hudson (Mott MacDonald)
26. Mike Davies (UCL)
27. Renate Powell (Carbon Trust Scotland)
28. David Coley (Exeter University)

#### **1. Introduction**

John Palmer welcomed the meeting to UCL offices and noted apologies from Mike Davies, Steve Sharples, Renate Powell and Ian Taylor.

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

The minutes of the 11<sup>th</sup> meeting prepared by John Palmer and Dejan Mumovic were approved with minor editorial corrections.

#### **3. Presentation 1: James Wheeler, Health and Safety Executive**

- James Wheeler presented 'A Tale of Two Academies': Occupational hygiene: indoor air quality in woodworking classrooms and use of local extract systems. This provided case studies of the performance of local ventilation systems (LEV) to extract wood working dust. One of which was a failure and the other a success. The failure required considerable effort and expense to remedy and never would be capable of achieving the performance of the correct installation. The discussion highlighted the need for good guidance, an informed client and early consultation during the design

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process. Richard Daniels suggested that the review of the CLEAPS documents may be a useful vehicle for extra guidance on LEV.

- Greg Keeling, Carl Sutterby, Colin Ashford raised the issue of cost saving measures and importance of making clients aware of this kind of issues
- James Wheeler to send his presentation to Dejan Mumovic to upload on CIBSE SDG website

### **4. Presentation 2: Christine Demanuele, UCL**

- Bridging the gap between predicted and actual energy performance in schools was the subject of the paper and the study of 15 schools showed great discrepancy between the predicted and actual energy use. This was backed up with simulation studies that revealed the greatest sensitivity being to ICT usage and heating set-points. The over-riding factors being those that fall under occupant control. There appeared to be no clear correlation between the 'low energy design' of the school and the actual performance but it was acknowledged that the sample was rather small to make firm conclusions.
- Dejan Mumovic to upload Christine's presentation and a paper on CIBSE SDG website
- Colin Ashford, Martin Liddament, Amrita Dasgupta, Paul Eslinger, Mike Entwisle and Derek Clements Croome raised a number of issues which are difficult to quantify and are mostly related to security, safety and facilities management.

### **5. Presentation 3: Dr Benjamin Jones, Monodraught**

- Fresh from achieving his doctorate Ben presented his work on 'Quantifying Performance of Natural Ventilation Windcatchers' The very useful study revealed a number of interesting aspects of the operation of Windcatchers in school buildings. Key findings were the relationship between the Windcatcher and the need to provide openable windows to assist the performance of the Windcatcher. It also highlighted the need to investigate the use of carbon dioxide concentration rather than temperature as the control parameter.
- Dejan Mumovic to upload Ben's presentation on CIBSE SDG website
- In general, most members argued that more research is needed on overheating in schools and better control of natural ventilation during the heating period

### **6. BSF Update: Richard Daniels**

- Richard Daniels updated the Committee on the future plans of the DoE and PFS. Deregulation, re-evaluation, simplification and more for less seem to be the general policy trend. The meeting tended to the opinion that this may not be good for the internal environment of new schools. Martin Liddament to circulate a draft of Guide B section on ventilation in schools for comments. Dejan Mumovic and John Palmer to prepare a draft proposal for CIBSE TM which would focus best practice school design.

### **7. CIBSE SDG Contacts for CIBSE Journal**

- To enable us to quickly respond to CIBSE Journal requirements regarding article writing, policy analysis and provision of short quotes the following people have agreed to help to John Palmer and Dejan Mumovic to represent CIBSE School Design Group (Dejan to approach to the most suitable person):
- Industry related questions and articles:  
(short notice) Dr Ben Jones, Monodraught, industry: manufacturer  
(short notice) Paul Eslinger, Frankham, industry: building services  
(short notice) Dr Mike Entwisle, Buro Happold, industry: building services (tbc)
- LA related questions and articles:  
(2-weeks notice) Greg Keeling, Essex County, local authority: policy implementation

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- Academic research related questions and articles:  
(short notice) Professor Derek Clements-Croome, Reading University  
(short notice) Dr Andrew Wright, De Montfort University

### **8. CIBSE SDG Bulletins**

- CIBSE SDG Bulletin No. 3 was printed on time for CIBSE National Conference; the national conference was poorly attended, the remaining copies were transferred to CIBSE HQ (thanks to Nyree Hughes)
- FCBS (Ian Taylor), Monodraught (Nick Hopper), ACO and Buro Happold (Mike Entwisle) helped to distribute the bulletin.
- 150 copies left – to be disseminated to people attending our events
- CIBSE SDG Bulletin was printed at no costs to CIBSE. The only costs were related to the actual printing costs and costs of technical editing and design (UCL student Umang Agrawal)

### **9. CIBSE Communication Strategy**

- Dejan Mumovic to meet Jane Cade and Hywel Davies to discuss the new CIBSE communication strategy. The SDG website has been a notable success and arrangements will be made for adopting any common CIBSE standard template.

### **10. New Event**

- James Hammick and Ben Jones to make some progress on the next event focusing on ventilation in schools.

### **11. CIBSE Contribution to CIC Response on BSF**

- CIBSE SDG contributed to CIC response on BSF. Dejan Mumovic to circulate the CIC response to all.
- Alex Nenadovic, CIBSE technical officer, will make aware of the group of all consultations of relevance to the remit of the Group.

### **12. AOB**

- CIBSE SDG agrees to contribute to TSB CarbonBuzz project led by AEDAS
- Colin Ashford is preparing a TM on biomass boilers for CIBSE and asked for contributions to this topic from the members.

### **13. Date of Next Meeting**

- The next meeting will be held on the 09<sup>th</sup> December 2010, UCL, 10:30-13:30, Room 247