

Poster Presentation Registration Form

Poster Session

Savenergy Conference, 13 May 2017, 9.00-14.30

Venue: Cyprus State Fair

To register, please e-mail this form to acharalambous@oeb.org.cy or send it by fax to 22666661 (c/o Mrs Anthi Charalambous).

Deadline for submission: 28th April 2017

Cost (students): free for poster presentation or 30 € for participating in the conference

Presentation period: 9.00-14.30, 13th May 2017

No unattended presentations: At least one presenter is required to stand by the poster for the entire session.

Poster presentation: Visual display of research which includes text, tables, graphs etc. Bring the poster printed in dimensions 1,30X1,30. Posters boards will be provided.

Poster Title: DAYLIGHT ANALYSIS FOR MOORFOOT OFFICE BUILDING IN SHEFFIELD, UK

Topic (select one): renewable energy ☐ energy efficiency ☒

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Level (circle one): undergraduate ☐ postgraduate ☒

Academic Program (i.e., school, department): University of Sheffield

Description of research work and key findings (max 250 words):

The last few years more research is carried out in order to identify if and how daylight could improve the health, wellbeing and eventually the productivity of the employees in an office building. Considering the fact that this is true this thesis focuses on improving daylight levels in



an office building located in Sheffield, UK. Ten rooms were chosen for analysis, because of the fact that the building has different orientations. In order to improve the daylight inside, 3 initial options were used: first by removing the partition walls and creating open plan floors, secondly by doubling the window's width and thirdly by changing the height of the window upwards. Moreover, analysis is done in order to explore if the use of light shelves (0.5 m and 0.8m) or shading devices could further improve the daylight. For the purposes of this analysis three softwares were used: Ecotect for climate, solar radiation and sunlight exposure analysis, VELUX for illuminance and luminance analysis and Radiance in IES for Climate Based Daylight Modelling analysis (CBGM). The results showed that bigger size windows improve significantly the daylight levels. Above all, it should be emphasized that the findings concerning the use of light shelves and shading devices in UK showed that the first reduced daylight levels while the second one actually improved these conditions. Finally, a study has been done to research how much artificial lighting use can be reduced when optimum lighting levels are achieved.

Χορηγοί Gold:



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