



EBS Head Office Relocates

Environmental Building Solutions Ltd (EBS) is pleased to announce relocation of our head office in order to accommodate continuing business expansion. Please note our new telephone and fax numbers, **Tel. 01908 266522, Fax 01908 266523.**



Passenham Manor

The new location for EBS's Head Office is the Grade II listed **Passenham Manor** & its adjacent Grade I Listed Barn. This newsletter is being sent out to inform our existing clients and customers of our new contact details and to give an update on recent projects, a selection of which are described below:

Flood damage Monitoring, Sark Island Hall & School, Sark. Following a recent plumbing failure, water saturated the ground floor areas of the hall and school. EBS was asked to advise on the extent of damage and propose a drying regime for the building whilst at the same time trying to keep the school open, as it is the only school on the island. The strip-out has just been completed (July 2009) and drying is under way. It is hoped that school area will be dry by the start of the Autumn term, and the drying will be completed by December 2009. EBS is using the existing heating system in the school and air circulation to dry the fabric gradually (to prevent damage to timber structures) rather than dehumidification which would be expensive and difficult to bring to the island. The drying will be continuously monitored by EBS using data logging and concrete probes. EBS is also currently advising on the drying out of flood damage at the **National Library of Scotland.**

Moth Damage. EBS has recently completed a survey of a house which had a severe clothes moth infestation. It was found that wool insulation used in the building was providing the ideal conditions for moths to grow and proliferate. Tens of thousands of moths were found both in the rooms and within voids. A Borescope inspection of all cavities and voids in the building was carried out to determine the extent and location of the wool insulation. It was found following laboratory analysis that the wool had not been treated properly with insecticide. Various approaches were proposed, including heating the structure to 60°C to kill the moths, however this would not provide long term protection. The only solution to the problem will be to remove all the wool from the building.

Mould Damage. EBS was asked to investigate perceived health problems in staff at a special needs school. The modern school building (2 years old) was constructed from prefabricated timber board panels. Poor building detailing led to high humidity and dampness in the floor construction which in turn led to extensive toxic mould growth (*Stachybotrys chartarum*). A Borescope inspection of all cavities and voids in the building was carried out to determine the full extent of the mould growth. Extensive repairs to the floor structure and improved detailing to the building are being carried out. EBS advised on toxic mould remediation.



Toxic mould on plaster board

Recent examples of successful case studies using non destructive technology, including **Mould Air Sampling, Continuous Environmental Monitoring Data Loggers, Indoor Air Quality Monitoring, Endoscopy and the Resistograph Decay Detection Drill include:** Westminster Abbey, Windsor Castle, The Tate Library, Christ Church Oxford, Rothschild Archives, Shire Hall Cambridge, Supreme Courts Edinburgh.

Head Office:
Environmental Building
Solutions Ltd.
Passenham Manor
Passenham
Milton Keynes
MK19 6DH
Tel: 01908 266522
Fax: 01908 266523
ebs@ebssurvey.co.uk
www.ebssurvey.co.uk

Offices also in Dorking,
Doncaster & Wales

Head Office:
Environmental
Building Solutions Ltd.
Passenham Manor
Passenham
Milton Keynes
MK19 6DH
Tel: 01908 266522
Fax: 01908 266523
ebss@ebssurvey.co.uk
www.ebssurvey.co.uk

Dr Jagjit Singh, Managing Director, specialises in building health problems, heritage conservation, indoor air quality and environmental issues. Jagjit has more than 18 years experience as a building mycologist, pathologist and environmental health scientist, with expertise in indoor air quality & health in both academic and commercial environments.

Mr Huw Lloyd, Technical Director, is a renowned expert in biodeterioration of building materials and environmental preservation. Huw also specialises in wood pathology, the analysis of dampness in building materials including fire damaged buildings, monitoring the environmental conditions in buildings and environmental control of timber decay.

Ms Pala Kaur, Director and Office Manager, specialising in data analysis, occupational health & indoor air quality questionnaire assessments.

Mr Steve Bradley, Consultant in air quality and occupational hygiene with over 30 years experience in a wide range of environmental disciplines.

Mr Lee Tuffnell, Consultant in environmental monitoring, ventilation measurements, building simulation & modelling techniques to identify cost-effective environmental strategies.

Services

EBS provides independent scientific advice and analysis on building health problems, occupational hygiene, environmental monitoring, building simulation, fungal, insect pest, damp and timber decay problems in buildings, museums, bridges, ships and other landmarks. The services offered include:

Timber Decay

EBS provides non-destructive investigation, analysis and environmental control of dry rot, wet rot and wood boring insects, such as woodworm and death watch beetle.

Damp & Moisture Damage

EBS can provide detection, analysis and environmental control of rising damp, penetrating damp and condensation.

Environmental Monitoring

EBS can provide short/long term monitoring and control of environmental conditions in buildings after fire, flood and general neglect.

Mould Investigation & Remediation

EBS has a dedicated team of scientists who investigate, analyse, monitor and provide environmental remediation of moulds and house dust mites.

Sick Building Syndrome & Allergy Problems in Buildings

EBS provides scientific advice and analysis on allergy problems in buildings, sick building syndrome and indoor air quality. EBS has the expertise to investigate building construction and materials, occupancy patterns, ergonomics, biological, physical and chemical factors, and perceptions of all aspects of the built environment.

Stone Decay

EBS can provide investigation into biological, physical and chemical deterioration of stone work.

Research & Development

Research into building health, moulds, moisture, biodeterioration of building materials, building simulation and environmental monitoring.

Pest Management

EBS provides investigation of pest problems both inside and outside the building environment. Pests include pigeons, cockroaches, clothes moth, Pharaoh's ants, woodworm and death watch beetle.

Litigation & Expert Witness

A dedicated service for solicitors, councils and property owners covering environmental health problems, analysis of building defects and damp and dry rot, preparation of independent reports and expert witness work.

Fire & Flood Damage Monitoring

Drying out buildings after fire and flood damage requires the careful application of many scientific principles, beyond the simple use of drying equipment in an uncontrolled way. Cost effective environmental strategies for drying out can then be suggested based on the data from site investigation and monitoring.

Ventilation Measurements

EBS can offer a range of infiltration and ventilation measurements to calculate air change rates and volumetric air flow rates in buildings.

Occupational Hygiene

EBS provides monitoring of noise exposure and airborne concentrations of dusts, fumes and gases in the workplace to assess compliance with the requirements of the Control of Substances Hazardous to Health (COSHH) Regulations 2002, providing results and practical advice on remedial actions as necessary.

For further information visit www.ebssurvey.co.uk