



Consulting Engineers for Moving People and Materials

- Vertical Transportation
- Façade Access
- Maintenance Management
- Materials Management
- Materials Handling
- Horizontal Transportation

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Improving Collaboration - Saving Time and Money

3D drawings have been used in architecture for a number of years now. There is however a growing collaborative movement emerging called Building Information Modelling (BIM). This allows collaborative working by architects, engineers, suppliers and developers to bring together all their areas of speciality into one accessible project base as well as storing relevant building information on each discipline. Each group can make changes that can be immediately picked up by all project stakeholders involved and make the necessary amendments to their areas in an iterative manner.

Working more Efficiently

With this in mind Lerch Bates has taken the decision to use Autodesk's REVIT MEP, one of the major tools available for Building Information Modelling, to produce their drawings of hoist ways, lift pits, machine rooms and machines, as well as the lift cars themselves which can now be included in BIM projects.

Our BIM for lifts is the only generic BIM available today which will accommodate all the major manufacturers' equipment and is produced as an output file from our simulation and visualisation internet application available to clients.

Visualise for Better Communication

We can visualise and co-ordinate designs in a single, whole-project view with other construction disciplines. This, coupled with our own 3D simulation software, Adsimulo, gives Lerch Bates access to an arsenal of tools that will speed up the whole process of delivering a complete solution to our clients. A solution that is compatible and easily readable by REVIT and other open source BIM software.

Inspired by the dynamic of flight

The Zayed National Museum, Abu Dhabi



Lerch Bates has recently completed another iconic project in the ever expanding city of Abu Dhabi – the Zayed National Museum, designed by Foster and Partners.

The Museum will form part of the emerging Saadiyat Island Cultural District. Its design draws on the landscape and culture of the Emirates and the galleries are housed within five feather-like forms, which function as solar thermal towers and contribute to a highly progressive environmental strategy.

The roofless steel 'wings', with their high-end faceted glazing, needed an access strategy that would meet the aesthetics by keeping the equipment out of view whilst at the same time providing speedy access to clean the facades and maintain the glazing performance. Indeed, the ability to clean the complete external surface within the shortest possible time was of prime importance to the client.

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Join Us in **The Consulting Room**

...where you can ask a question of our resident expert - *Professor Elbie* - or simply discuss your day to day problems with lifts and much more...

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LERCH BATES

Building Insight

6 0 Y E A R S O F E X C E L L E N C E

News in brief

CIBSE Guide D

The CIBSE Lifts Group Annual Seminar 2011 took place on Wednesday 23 March at Manchester University. Six principal authors of **Guide D: 2010 Transportation Systems in Buildings** presented highlights of their chapters.

The CIBSE Guide D is now regarded as a source of authoritative guidance worldwide. It started as a small section in CIBSE Guide B. In 1994 the first standalone edition was published. Two further versions followed in 2000 and 2005. On 3 November 2010 the fourth edition CIBSE Guide D was launched.

MIPIM 2011 Quick Review Out Now!

Five representatives from Lerch Bates attended MIPIM 2011. A quick review of the real estate show staged in Cannes from 8 – 11 March 2011 reveals that a cautious confidence has returned to the industry. Representatives from around the world expressed hopes for a stable economic recovery in the coming years. A survey by the Wisconsin Business School found that delegates left MIPIM 2011 feeling more optimistic than when they arrived. [Read more...](#)

Earning BREEAM Credits

Lifts, escalators and moving walkways that save energy can earn BREEAM credits. Two BREEAM credits are available for the installation of energy efficient lifts and one BREEAM credit is available for escalators and/or horizontal moving walkways. Escalators and moving walkways which are either a) fitted with a load sensing device that synchronises motor output to passenger demand through a variable speed drive or b) are fitted with a passenger sensing device for automated operation so the escalator operates in stand-by mode when there is no passenger demand qualify for the BREEAM credit.

[Inspired by the dynamic of flight... continued from page 1]

Facade access consultants at Lerch Bates have designed a bespoke solution for accessing the external and internal surfaces of the wings, which are a one of a kind. At the manufacturer's end there will be a number of novel solutions to detail engineer as a result of demanding client and architect constraints.

Our design process involved presenting several options to the architect and the client, each one quite unique before finally selecting the preferred solutions.

The options were scrutinised by measuring the time required to clean the building, which was the driving factor in selecting the final solution. By and large the materials and components used for designing the wing structure were driven by the access equipment due to its 'climbing' nature. Many co-ordination hours were put into the design process in order to meet the aesthetics without compromising the operative's needs to use each system easily.

Welcome!

We are delighted to welcome three new members to our team of consultants, (from top l to r) Richard Hughes, Peter Ferguson and David Brown.

Between them they have over 60 years experience and an in-depth knowledge of the industry and practical solutions. They will be taking an active role in promoting and delivering our services to clients, embodying as they do the technical expertise which we pride ourselves on. Richard and David will be based at our Woking HQ whilst Peter will be covering the North West.



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