



**Brasilia 50 years on**

Niemeyer's architectural vision has matured as Brazil's capital city is set to celebrate its golden anniversary

**Daniel Libeskind**

The renowned architect reveals why he designs buildings that touch our souls in the annual Lubetkin lecture

**True to form**

In situ concrete using tunnel forms is just one of the tricks of the trade used at BDP's Salford apartment block for Abito



## Lincoln museum takes top honours

Panter Hudspith Architects' museum in Lincoln, the Collection: Art & Archaeology, has been named as the overall winner in the Concrete Society's 2006 Awards for Excellence in Concrete Construction in the buildings category.

The judges praised the building's design for meeting the client's aspirations in both the individual space requirements within the building, and being sympathetic to the site, which is a scheduled ancient monument.

The inner structural leaf is concrete, which was chosen primarily to provide environmental stability through thermal mass for the storage of valuable historic materials. Self-compacting concrete was used to form the cranked pitched gallery roofs, and for the finish, the architect lined the proprietary shutters of the internal walls with 75mm-wide timber boards.

To celebrate the Concrete Society's 40th anniversary, a one-off Winner of Winners award was given to the Byker Viaduct — part of Newcastle's Metro system — the Ove Arup project which won the prize in 1980.



Light filters through skylights, highlighting the concrete walls in the shop area of Panter Hudspith's Lincoln museum.

## Carillion's PFI campus wins sustainability award

Carillion's £50 million Queen Margaret University College, PFI campus development in Musselburgh, Scotland, has been chosen as the winner of The Concrete Centre's Sustainability Award for 2006.

Designed by architects Dyer, consulting engineer Buro Happold, the academic and sports/student union buildings have gained a BREEM "excel-

lent" rating the highest score recorded for any university project. A key element of the buildings is the use of thermal mass and natural ventilation to minimise energy use both in summer and winter. As the concrete soffit and columns are exposed in the majority of teaching areas there has been a substantial saving in ceiling materials and installation costs as well as a simplification in

the electrical services installation.

The energy that is required to operate the building will come from an innovative combined heat and power plant burning biomass from local forests as fuel. In addition, the campus features a sustainable urban drainage system (SUDS) pond to capture rainwater draining off roofs and paved areas rather than contribute to downstream flooding.

### School report

The failure of schools to be appropriately designed and operated to utilise thermal mass to cool them resulted in many schools in England overheating and having to close or send pupils home last summer.

The use of concrete construction's thermal efficiency to reduce internal temperatures together with its fire insulation, sound insulation and ability to be adapted for future changing requirements are featured in a new guide on school construction.

High Performance Schools: Using Concrete Frames & Cladding will be available free from: [www.concretecentre.com/publications](http://www.concretecentre.com/publications) (general guidance).



### Concrete surfaces

Cast Advanced Concretes' MASS1 Worksurfaces are a lightweight alternative to traditional worktop materials. So far used in commercial environments, the surfaces were fitted in the National Gallery's new restaurant. The product uses a laminated concrete technology to produce fully sealed concrete surfaces.