



Hunterian Museum at the University of Glasgow Glasgow, Scotland

In May of 2007, Lamina joined the Hunterian Museum at the University of Glasgow, Scotland in celebrating its 200th year. To mark the occasion a complete redisplay was undertaken by the museum's in-house lighting design team led by David Russ.

As part of the lighting scheme, approximately 330 LED lighting modules were installed, enabling certain delicate and ancient objects to be illuminated for the first time. Russ explains that Lamina's warm-white LEDs allowed the replacement of many halogen light sources resulting in minimal maintenance costs and a vastly reduced energy budget.

"Most importantly, due to the low heat output and zero UV emission from the LEDs, we are able to illuminate sensitive parts of our collection in a much more aesthetically pleasing manner," says Russ. "The result is a stunning display of many objects that have never been presented to the public before."

These displays are based around Lamina's Atlas™ Warm-White LED Light Engines.

The emitters are bonded to a modified aluminum block and channel that acts as a heat sink and as a structural part of the display case. Buck puck drivers provide a constant current source, and coupled with a microcontroller and PWM signal the complete system can be gradually dimmed when the area is unoccupied.

The museum is divided into zones, each with sensors so that when a visitor leaves the zone the lights are dimmed after a few minutes. This reduces the energy consumption and also the exposure to light of sensitive objects.

Effective lighting design enables museums and galleries to communicate with their public and provide a creative, safe, and meaningful context in which objects can be studied and enjoyed. The promise of zero UV and IR in the light beam has made Lamina LED products much sought after by museums around the globe.

- **Industry Sector:** Museums, Displays
- **Lamina Products Used:** Atlas Warm-White LED Light Engines
- **Project Credits:**
Engineer: David Russ, Hunterian Museum at the University of Glasgow
- **Photo Credit:** courtesy LEDs Magazine

