“MATHEMATICS” AT THE WINTON GALLERY HONORED WITH IALD AWARD OF MERIT
LIGHTING DESIGN BY ARUP TRANSFORMS HADID DESIGN WITH CREATIVE COLOR

CHICAGO, IL USA, 9 MAY | Luminaries of the lighting profession gathered at Chicago’s trendy Revel Fulton Market on 9 May to honor the winners of the 35th Annual International Association of Lighting Designers (IALD) International Lighting Design Awards. Seventeen projects from eleven countries were on display – including interiors, workspaces, museums, hospitality sites, and a place of worship. This year’s winners represent some of the most innovative and inspiring work found anywhere in the world of architectural lighting design.

The design of the Mathematics exhibit at the Winton Gallery in London, with lighting design by Arup, took home an Award of Merit, accepted in person by Brian Stacy, IALD, on behalf of the UK-based design team from Arup.

The lighting design for the London Science Museum’s Winton Gallery captures and enhances Zaha Hadid’s architectural vision, bringing advanced mathematical concepts to the everyday visitor experience. The team at Arup achieved this through the integration, exploration, and unexpected use of colors and lighting typologies within the visual metaphor of an airplane’s turbulent flow.

The aerodynamics of a plane are translated into luminous surfaces, streamlines and points. Focus is on the plane propeller, while brushes of light on the floor guide visitors, turbulence scatters display cases along streamlines, and two sculptural coves allude to the boundary condition.

Close collaboration with the architect and the client was essential to the successful completion of the project. Regular workshops were put in place, where sketches, interactive models and tests on samples were crucial to delivering the client’s vision. The color of light and the blend between purple and blue creates a breathtaking and unforgettable experience for visitors.

Due to the sensitive aspect of galleries, the case lighting scheme had to respect numerous conservation requirements, reducing energy loads and meeting thermal and spectral requirements for the various objects on display. Display cases include linear, single and multiple-head systems, and are flicker free, with excellent color rendition (including R9).

Lighting analyses revealed that, in order to balance the gallery space, a bright element was required at the periphery of the visitors’ line of sight. As a result, a wall cove with two lines of light running through the gallery was added, consistent with the laminar flow boundary condition metaphor.

One of the key challenges was to limit the spill lighting to objects adjacent to labels. Labels and panels are lit by a number of ceiling recessed spotlights with very narrow beams, positioned according to ray tracing software outputs, as these, once installed, would be fixed in location. The general lighting, also flicker free, uses a slight shift towards the Y, enhancing purple hues of the central pod by opposition.

“Stunning,” said one judge. “The lighting is (almost) more interesting than what is on exhibit!”
The IALD Lighting Design Awards program, established in 1983, honors lighting projects that display high aesthetic achievement backed by technical expertise. A panel of award-winning lighting designers, architects and interior designers review the projects in a three-day, anonymous review process. Full information about the judging process can be found in the 35th Annual IALD Awards Call for Entries.

For complete details and high resolution photos of this year’s award-winning projects, visit iald.org/awards.

The International Association of Lighting Designers (IALD), established in 1969, is an international organization supporting a network of more than 1,400 lighting design professionals who satisfy its rigorous qualification process. Its members are distinguished by a unique blend of aesthetic and technical expertise, and operate at the highest level of integrity to create a better world through leadership and excellence in lighting design; to cultivate the universal acknowledgement and appreciation of the Power of Light in human life.

END OF ITEM

35TH ANNUAL INTERNATIONAL ASSOCIATION OF LIGHTING DESIGNERS AWARDS PROJECT CREDITS

AWARD OF MERIT

Mathematics: The Winton Gallery, Science Museum
London, England UK

LIGHTING DESIGN
Giulio Antonutto-Foi
Arfon Davies
Guillermo P. Martinez
Arup

ADDITIONAL CREDITS
Architecture
Zaha Hadid Architects

Arup’s Structural and Building Services Team:
Project Director
Andy Lerpiniere
Arup

Building Services
Ana Fernandez
Jon Moore
Arup

Electrical Engineering
Shane O’Riordan
Arup

Structural Engineering
Carolina Bartram
Jenny Pattison
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