

# mondo<sup>arc</sup>

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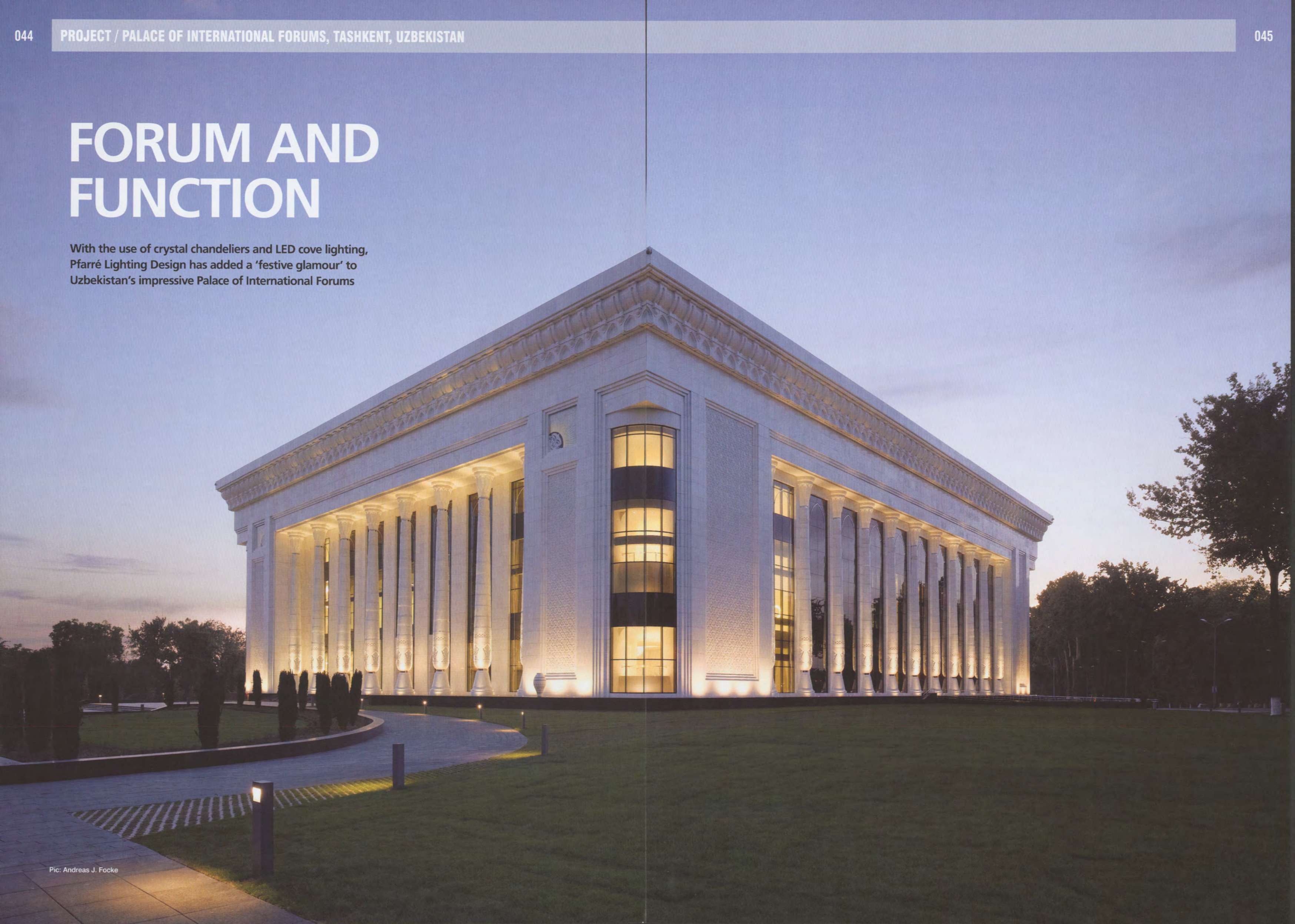
## ON THE WAY TO THE FORUM

UZBEKISTAN HITS THE  
INTERNATIONAL STAGE

IALD PRESIDENT KATHY ABERNATHY INTERVIEWED  
PROJECTS FROM EGYPT • CHINA • VENEZUELA • AUSTRALIA • BAHRAIN

# FORUM AND FUNCTION

With the use of crystal chandeliers and LED cove lighting, Pfarré Lighting Design has added a 'festive glamour' to Uzbekistan's impressive Palace of International Forums



Pic: Andreas J. Focke



Pic: Zoëy Braun

Clad entirely in white marble and sitting on a base of polished black granite, the Palace for International Forums is a new government building located in the heart of Uzbekistan's capital, Tashkent. Created for official events and international conferences, the Palace houses a 1,850 seat auditorium, conference rooms and an elegant banquet hall.

In April 2009, Pfarré Lighting Design was commissioned to create a scheme for both the exterior and 28,000 sqm interior space. With no specific brief, the team, headed by Gerd Pfarré, worked alongside interior designers Ippolito Fleitz to create a concept based on two principal goals: to integrate lighting into the building in a way that emphasised and respected the traditional Usbeki values apparent in the building's architecture; and to imbue the space with a modern, festive elegance.

With magnificent full height windows, the interior and exterior schemes are inextricably interlinked. As they approach, visitors glimpse a preview of the impressive, chandeliered interior - something on which Pfarré was keen to capitalise. He wanted the building to glow with an inviting transparency. In order to achieve this, exterior



The VIP-foyer is used for presidential / official visits features Faustig chandeliers and wall fixtures by Lichtlauf

Pic: Zoëy Braun



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The centrepiece of the main public foyer is a 21 metre long chandelier made from 1.8 million Swarovski crystals

Pic: Andreas J. Focke



Pic: Zoëy Braun

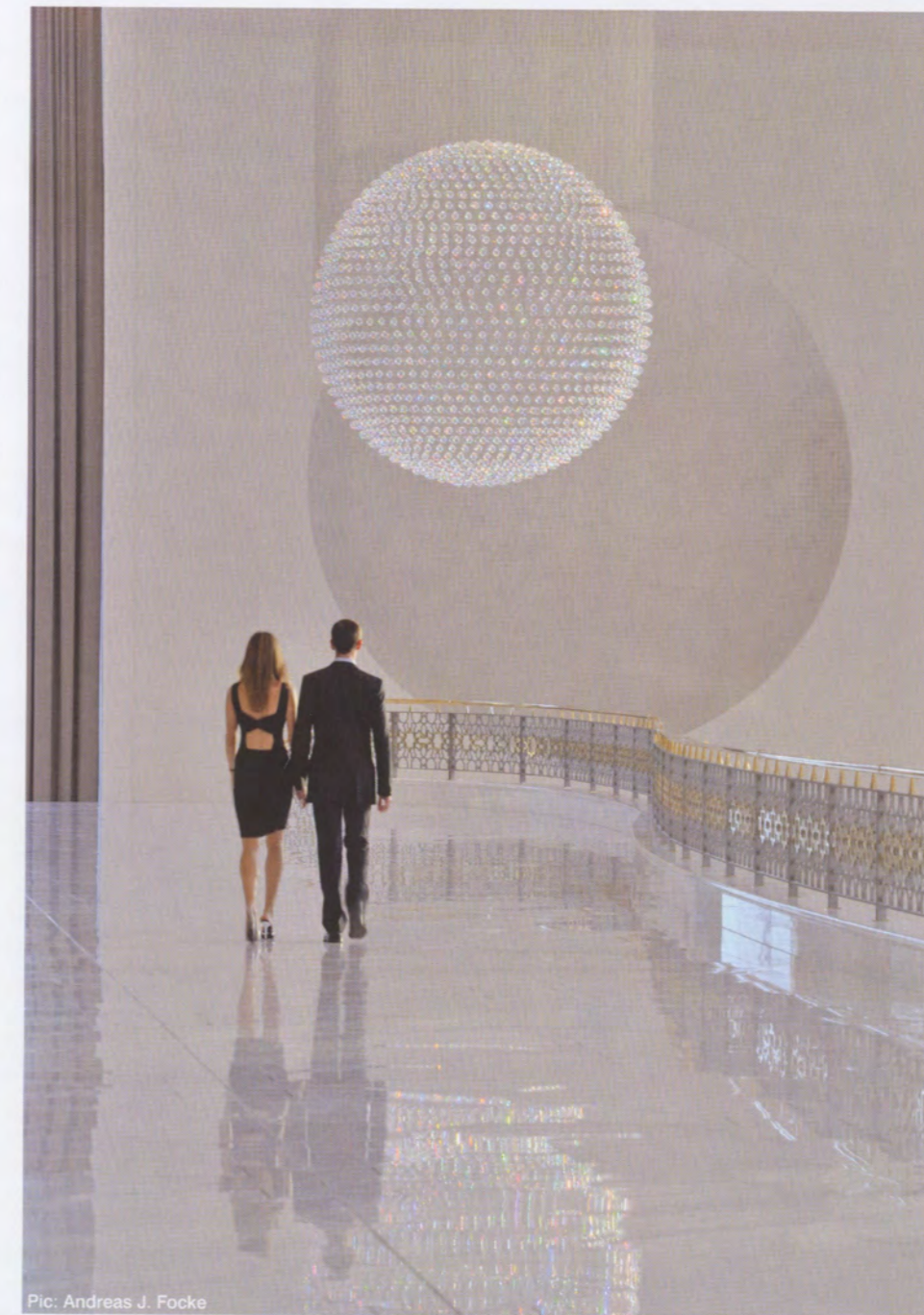
Above Above the windows in the main foyer, mirrored ceiling sections are fitted with recessed downlights

Right The spherical geometry of the largest mezzanine level chandelier is echoed by the concave indent in the adjacent wall

Below right The restaurant foyer on the lower level features T5 dimmable cove lighting and narrow beam 50W metal halides for the table tops

fixtures needed to be glare-free. Street lighting is far enough away that it doesn't interfere with the scheme (though these too were carefully selected for the project), so ERCO Lightmark bollards were installed on the approach to the palace. ERCO Thesis wall washers with sculpture lenses along with Thesis uplight pick out the building's form, the white marble providing an ideal illumination surface.

Inside, visitors are greeted by the stunningly white main foyer - one of two in the building (the other is reserved for official occasions and VIP visits). A number of crystal chandeliers and luminaires were designed and manufactured especially for the project, custom-made in consultation with Pfarré and Ippolito Fleitz. The largest of these hangs from this main foyer space. Weighing 15,000 kg and incorporating a staggering 1.8 million Swarovski crystals it stretches 21 metres along the foyer ceiling. To create the piece, crystals were individually threaded onto long lengths of thin wire, in essence creating hundreds of necklace-like chains. These were then numbered and individually boxed, before being unpacked and fixed, chain by chain, to grippers attached on a base plate in the ceiling. Together they create a long pouch, five metres in depth, illuminated from above by cantilevered ERCO halogen fixtures with



Pic: Andreas J. Focke



Pic: Zoëy Braun

**Project Details****Palace of International Forums, Tashkent, Uzbekistan**

Client: Republic of Uzbekistan  
 Architect: Tashgiprogor co, Tashkent  
 Interior Designer: Ippolito Fleitz Group GmbH, Stuttgart  
 Lighting Designer: Pfarré Lighting Design, Munich (Gerd Pfarré, Dominik Buhl, Katharina Schramm, Anh Nguyen)  
 Custom Lighting: Faustig KG, Lichtlauf, Korona GmbH

**Lighting Specified**

ERCO: all downlights and wallwashers including Gimbal, Lightcast, Nadir uplights, Double Focus Downlights, Starpoints, Optecs.  
 Exterior Thesis Wallwasher and uplights, Lightmark bollards  
 Wasco: WSL EVO indirect lighting of Corian Wall, cove lighting  
 Hera: indirect LED row number lighting integrated in auditorium seats  
 XAL: vertical fluorescent strips - System Minimal 60, indirect mirror lighting, staircase lighting with Vela Wall light, Sasso downlights  
 Swarovski: all crystals used by Faustig, StarLED Anima and StarLED Gamma Sets for elevator lighting  
 feno: LED in all Korona-designed LED lighting including auditorium RGB lighting, auditorium floor line, foyer cove lighting  
 Siteco: Lunis downlights with louvers for all offices, corridors, rehearsal spaces and technical areas  
 Bega: pole lights aligned along the adjacent street

**Top** The angled base of the Slotlights between windows conceal loudspeakers

**Middle** The VIP staircase features a chandelier comprising five rings clad in crystals and illuminated with LEDs

**Bottom** The conference room features another Faustig chandelier - the centre feature ringed by coves, clad with Palladium, equipped with dimmable T5 cove lighting. The coves are distributed over the entire ceiling, like ripples around a drop of water

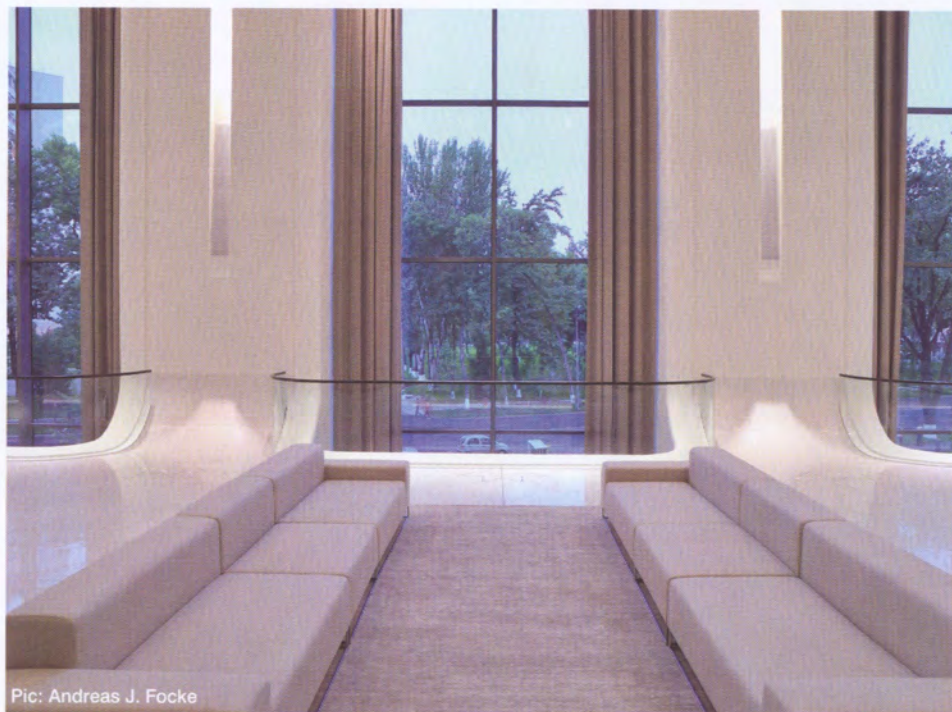
beam angles of between 5° and 30°. A suspended ceiling above allows easy access for fixture adjustment and maintenance. The 18-metre high windows run the full length of the space. Each is headed by mirrored sections of ceiling into which 5° narrow beam spotlights have been installed. These lights accentuate the windows' shape (also key for the external appearance of the building) and highlight the white marble flooring in the main foyer.

In between the windows run narrow 'slot-lights'. A recessed 70W metal halide narrow beam spot (35W for the shorter slots found on the mezzanine level) is hidden at the top of each, illuminating a slanted panel at the slot's base - which itself conceals an integrated loudspeaker.

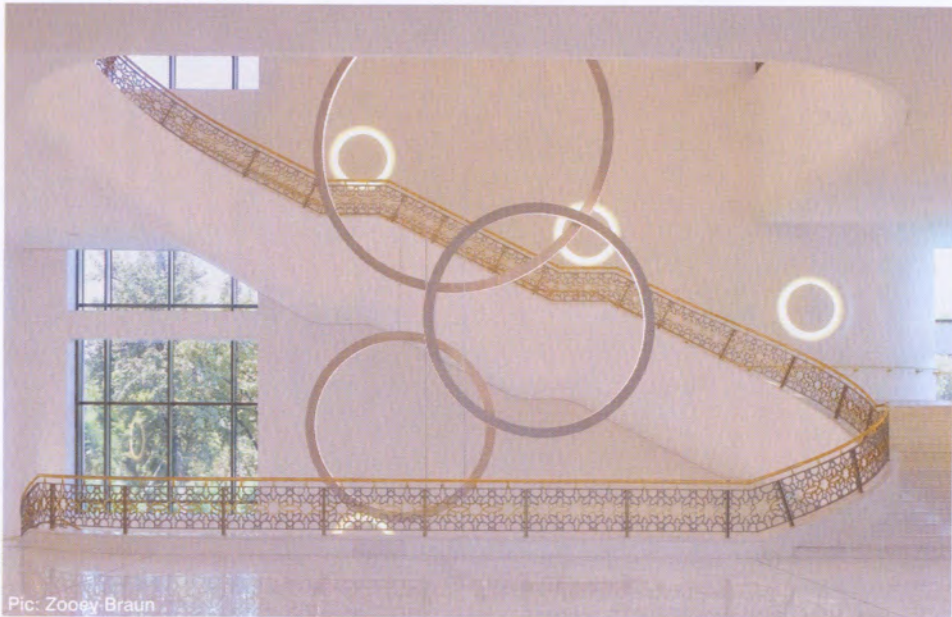
Below the mezzanine, illumination comes from specially made 'dislights', while principal architectural elements in the main foyer, above columns and under the balustrades, are illuminated by cove lighting to enhance their design.

In the VIP foyer, both grand staircases are lit by ring-shaped wall fixtures and by matching chandeliers comprising five LED rings. Clad in crystals and edged with LEDs, the rings are hung from a height of 24 metres and vary in size from 2.5 to 5.5 metres in diameter.

Further chandeliers are found on the



Pic: Andreas J. Focke

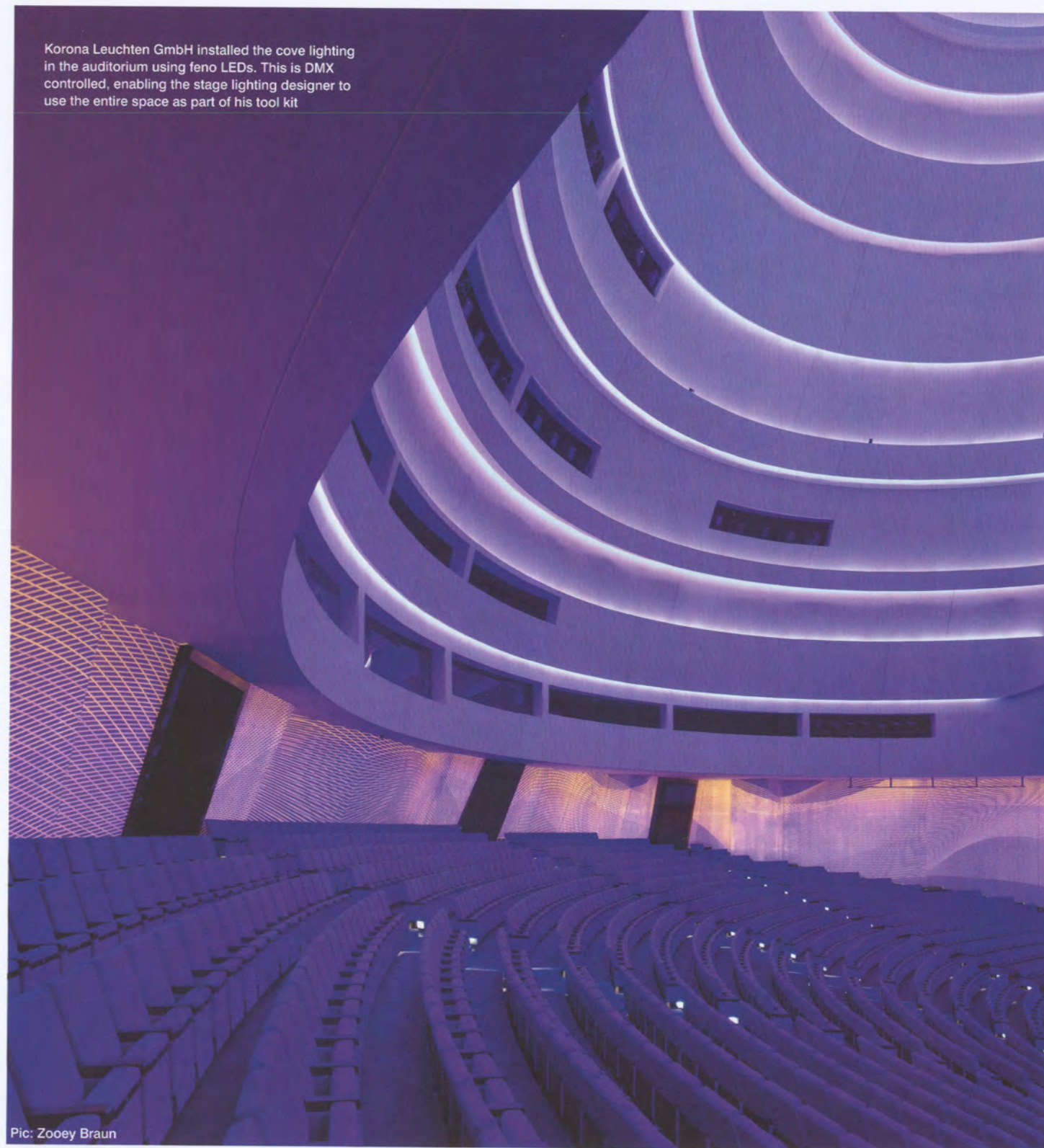


Pic: Zoöey-Braun



Pic: Zoöey Braun

Korona Leuchten GmbH installed the cove lighting in the auditorium using feno LEDs. This is DMX controlled, enabling the stage lighting designer to use the entire space as part of his tool kit



Pic: Zoöey Braun

**JAPANESE**

国際フォーラムパレスは、公式行事や国際会議向けに建設され、1850席を誇る大ホールやカンファレンスルーム、気品の高い晚餐ホールを完備している。白色の大理石で覆われたこの建物は、ウズベキスタン首都のタシュケント(Tashkent)の中心に位置している。Pfarré Lighting Designが外装と28000平方メートルにもおよぶ内装スキームの開発を担当した。壮大な入り口ロビーにはFaustig and Korona社製のカスタムメイドシャンデリアが飾られ、Lichtlauf社による様々な装飾が彩りを添えている。Swarovski製のクリスタルが180万個、LEDライトにおいてはメタルハロゲン灯から蛍光灯にいたるまで255000個もの照明灯が使用され、合計で9400もの照明ポイントを統合している。高さ約48メートルの大ホールは円を積み重ねたようなキューポラ状である。その背後に隠された蛍光灯やfeno RGB

LEDライトは2つのDMXシステムによってコントロールされ、高さ7メートルもある調光可能な蛍光灯を中心に、空間全体が一つの巨大な照明オブジェクトになっている。大ホール座席エリアの壁はコーリアン素材を使用した溝付のデザインで、この壁の背後にも照明が施され、この調光可能なライティングが座席エリアをやさしい光で包み込むような構造になっている。

**CHINESE**

国际论坛宫殿拥有可容纳1,850人的大礼堂、会议室和高雅的宴会大厅,将用来承办官方活动和国际会议。该建筑位于乌兹别克斯坦首都塔什干的中心地带,整体覆盖着汉白玉大理石。Pfarré Lighting Design为该建筑外部和28,000平方米的内部空间设计了一个照明方案。宏伟壮观的大厅悬挂着来自Faustig和Korona的定制枝形吊灯,另外还有来自Lichtlauf的灯具。180万颗施华洛

世奇水晶和来自许多金属卤素灯、卤素灯及荧光灯的255,000只LED,经过整合和规划,总计提供9,400个照明点。礼堂总高度约48米,由一个环形层次的穹顶组成。隐蔽的冷白色荧光灯和feno RGB LED由两台DMX系统控制。顶部有一个高达七米、光辉耀眼的可调节荧光灯,整个空间形成一个巨大的照明物。一处带有条纹背光源的可华丽大理石墙环绕着礼堂的座位。可调节照明灯柔和地照亮座位区域。

**FRANÇAIS**

Créé pour les événements officiels et les conférences internationales, le Palais des Forums Internationaux abrite un auditorium de 1 850 sièges, des salles de conférence et un hall de banquet élégant. Entièrement habillé de marbre blanc, le bâtiment est situé au cœur de la capitale ouzbèke, Tachkent. Pfarré Lighting Design a développé le thème d'éclairage à la fois pour l'extérieur et l'intérieur

de 28 000 pieds carrés du bâtiment. Les impressionnants chandeliers du hall, Faustig et Korona, s'ajoutent aux éléments Lichtlauf. 1, 8 millions de cristaux Swarovski et 255 000 LED ont été utilisés et de nombreuses lampes, halogènes et fluorescentes, ont été intégrées pour donner un total de 9 400 points d'éclairage.

Avec une hauteur totale d'environ 48 mètres, l'auditorium est formé par une coupole d'anneaux enchâssés. Des éclairages blanc fluorescents cachés et des LED feno RGB sont contrôlés par deux systèmes DMX. Surmonté par un 'œil lumineux' fluorescent de sept mètres, tout l'espace est un vaste objet d'éclairage. Un mur coran avec un éclairage arrière enchâssé entoure les sièges de l'auditorium. La lumière ajustable entoure avec douceur ces sièges.

**DEUTSCH**

Der Palast für Internationale Foren wurde für offizielle Events und internationale Konferenzen geschaffen



Pic: Zoöey Braun

The VIP foyer features Faustig chandeliers and circular wall fixtures by Lichtlauf

mezzanine level of the main foyer and above the main public staircase. Eight crystal spheres float in the space, each comprising 2,800 crystal spheres individual suspended with thin wires and illuminated by a ring of 50W, 5° recessed downlights around a central 150W 30° fixture. The largest of these spheres is positioned at the top of the main staircase. Here a large concaved indent in the wall echoes the chandelier's geometry, its silvery-white palladium lining gently reflecting back the glow from the foyer lighting.

Both foyer and mezzanine skirt the curved outer shell of the Palace's auditorium, which is also clad entirely in palladium. Dimmable T5 coving marks the point at which the wall joins the ceiling and alongside that



Pic: Andreas J. Focke

und beherbergt ein Auditorium mit 1.850 Sitzen, Konferenzräume und eine elegante Barketthalle. Das Gebäude ist komplett mit weißem Marmor verkleidet und liegt im Herzen der usbekischen Hauptstadt Tashkent.

Pfarré Lighting Design hat ein Modell sowohl für den Außen- als auch den 28.000 qm großen Innenbereich entworfen. In der prachtvollen Eingangshalle hängen kundenspezifisch produzierte Kronleuchter von Faustig und Korona mit zusätzlichen Befestigungen von Lichtlauf. 1,8 Millionen Swarovski Kristalle und 255.000 LEDs wurden von zahlreichen Metall-Haloids verwendet. Halogen und Leuchtstofflampen wurden integriert und für insgesamt 9.400 Beleuchtungspunkte bestimmt. Mit einer Gesamthöhe von rund 48 Metern wird das Auditorium durch eine Kuppel aus geschichteten Ringen geformt.

Versteckte Leuchtstofflampen aus kühlem Weiß und feno RGB LEDs werden durch zwei DMX Systeme kontrolliert. Der gesamte Bereich wird überlagert von einem „Beleuchtungsauge“ aus dimmbaren Leuchtstofflampen in sieben Metern Höhe und ist ein breit-

angelegtes Beleuchtungsobjekt. Eine Corian Wand mit einem gerillten, hintergrundbeleuchteten Muster umgibt den Sitzbereich des Auditoriums. Dieses dimmbare Licht umrandet weich den Sitzbereich.

## ITALIANO

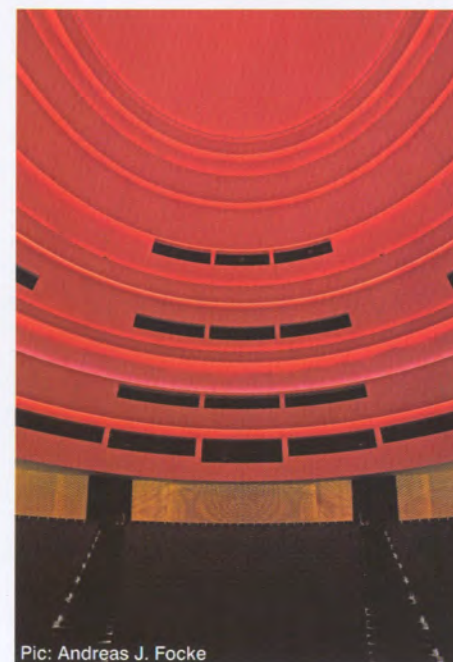
Creto per eventi ufficiali e conferenze internazionali, il Palazzo dei Forum Internazionali ospita un auditorium con 1.850 posti a sedere, sale per conferenze e ed un elegante salone per banchetti. Interamente rivestita in marmo bianco, la costruzione si trova nel cuore della capitale Uzbeca, Tashkent. La Pfarré Lighting Design si è occupata del progetto d'illuminazione per la parte sia esterna che interna, estesa su una superficie di 28.000 metri quadrati. Dai soffitti dei magnifici saloni d'ingresso del palazzo sono sospesi candelabri fatti su misura della Faustig e Koron, con dispositivi aggiuntivi della Lichtlauf. Sono stati inoltre utilizzati 1,8 milioni di cristalli Swarovski e circa 255.000 LED per luci alogene, a fluorescenza e lampade metal halide per

un totale di 9.400 punti luci. L'auditorium si estende per un'altezza di 48 metri ed è formato da una cupola di anelli a strati. Lampade fluorescenti bianche e LED RGB di feno sono nascoste e controllate da due sistemi DMX. Ricoperto da una coltre di sette metri di lampade fluorescenti regolabili, l'intero spazio appare come un grande oggetto illuminante.

L'area soggiorno all'interno dell'auditorium è circondata da un muro con rivestimento Corian, con motivi scanalati e retro illuminati. Una soffitta illuminazione finge da cornice soffusa allo spazio di seduta.

## ESPAÑOL

El Palacio para foros internacionales, creado para eventos oficiales y conferencias internacionales, cuenta con un auditorio para 1.850 personas, salones de conferencias y un elegante salón de recepciones. Cubierto en su totalidad por mármol blanco, el edificio se encuentra en el corazón de Tashkent, capital de Uzbekistán.



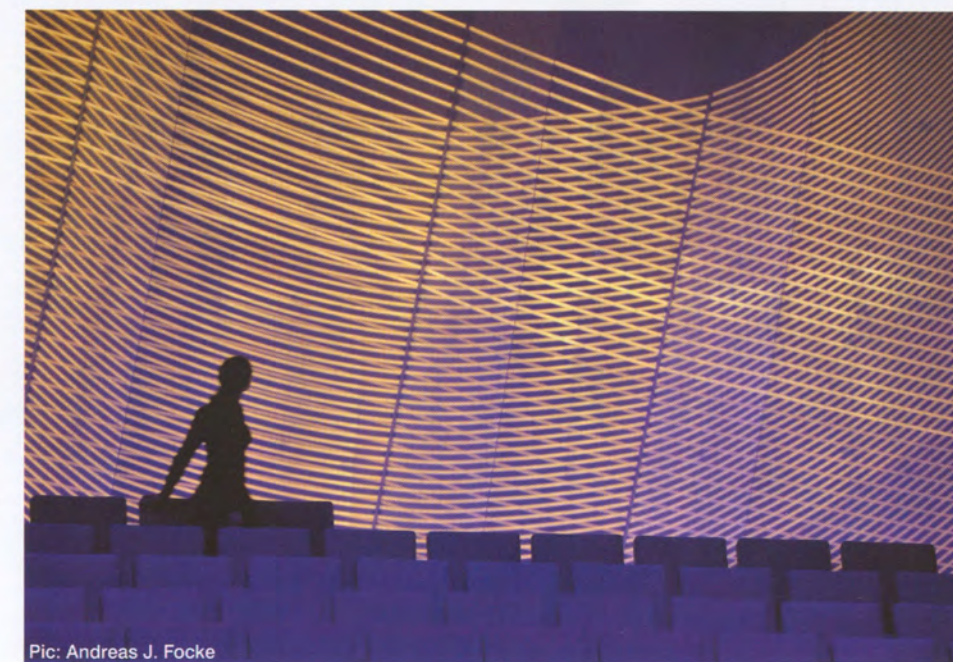
Pic: Andreas J. Focke

a line of ERCO wallwashers evenly illuminate its curved surface. Dimmable feno LED cove lighting, in custom fixtures created for the project by German-based Korona Leuchten GmbH, runs flush around the wall's base. Korona were also responsible for providing the LED cove lighting that picks out features like the pillars and balustrade elsewhere in the project - not least in the auditorium at the Palace's core.

With a total height of nearly 48 metres, the auditorium itself delivers an impressive impact. Ippolito Fleitz's idea, to create a cupola consisting of over- and under-layered rings, is enhanced by concealed LED strips and cool white fluorescents. Both are controlled by a DMX system allowing the stage lighting designer to use the entire auditorium for a huge variety of lighting effects. The entire space is essentially one large lighting object, topped with a 'lighting eye' - a seven metre wide ceiling of dimmable fluorescents.

Adding to the effect, a grooved corian wall surrounds the seating area. Backlit by dimmable Wasco WSL EVO fixtures, the soft glow framing the seating space nicely. At each turn, the Palace of International Forums offers up yet more impressive architecture and interior design, brought together - and enhanced - by Pfarré's graceful scheme. A total of 9,400 metal halide, halogen and fluorescent lamp fixtures were integrated in to the scheme along with 255,000 LEDs and of course those 1.8 million crystals. It's all the more impressive when you learn that both planning and realisation of the lighting concept took just five months. "The timeline," says Gerd Pfarré, "was definitely the craziest thing in my career."

[www.lichtplanung.com](http://www.lichtplanung.com)

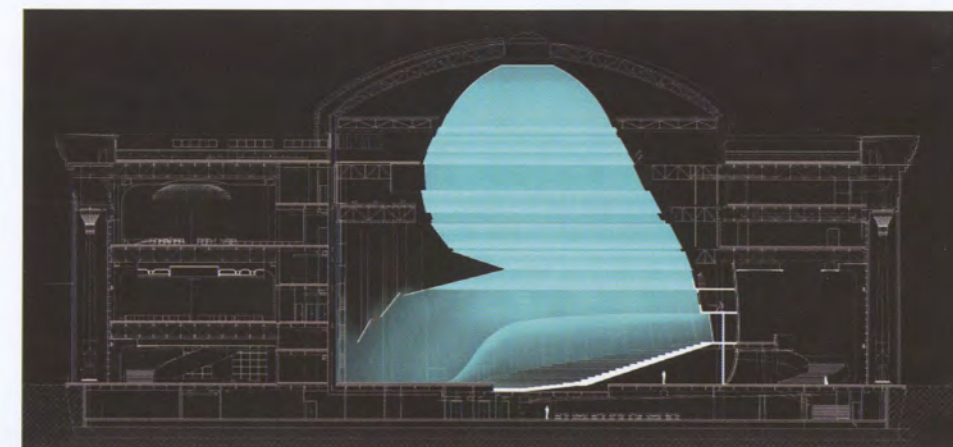


Pic: Andreas J. Focke

Above The LED cove lighting around the auditorium enables the over- and underlayered rings to glow in any colour imaginable, while the grooved corian wall is backlit by dimmable fluorescents.

Below A cross-section of the Palace of International Forums shows how the auditorium fits within the building

Bottom The restaurant features glare reduced, dimmable downlighting and cove lighting for the palisander back wall.



Pic: Andreas J. Focke