

JACOB K. JAVITS CONVENTION CENTER DESIGN COMPETITION

New York, New York, USA

The expansion of the Jacob K. Javits Center celebrates the design of the original "Crystal Palace" completed in 1986 while creating a modern New York City convention and exposition center experience. This design competition plan includes a 90,000-square-foot expansion to the exposition floor with new entry, lobby, atrium and prefunction spaces. It also adds more than 100,000 square feet of ballroom and meeting spaces.

Crystalized cube forms along the building's south side establish a relationship with the original Crystal Palace at Javits Center. The facets and angles of these new, multistory glass cubes shimmer in the sunlight, creating dynamic shadow patterns along the facade that change at different times of the day and year. At night, the crystalized cubes glow like paper lanterns, inviting visitors to explore the renovated convention center.

To enhance the user experience and the operational efficiency of the center, the design team paid careful attention to transparency and the volumes of the spaces enclosing the meeting rooms, ballrooms and back-of-house facilities. As guests enter the addition and move through the atrium, they experience breathtaking views of New York City to the east and south and the Hudson River to the west. Breakout spaces on stairway landings offer more opportunities to experience the dramatic city skyline. At the highest level of the ballroom, an open-air terrace provides visitors with city vistas from an entirely different perspective, under a structural cube.

From the south, the building's uniform textured cladding and simplified geometry create an elegant backdrop to the crystal cubes. On the north side, the truck-marshalling building is clad in glass fiber reinforced concrete panels. Varied openings in these panels enhance natural ventilation and create a texture that mimics the glazing and metal panels on the existing structure. Directly above the truck marshalling structure and adjacent to the ballroom is a garden terrace that accommodates special events and that provides spectacular views of the Hudson River to the west and Manhattan's skyline to the east.

HOK and Skanska USA partnered as a designbuild team for this competition.



CLIENT Empire State Development / New York Convention Center Development Corporation

DESIGN PRINCIPAL Kenneth Drucker, FAIA

1.1 million sq. ft. / 102,195 sq. m.

annual EUI: 70.5 kBtu/sf/yr 13.5% below ASHRAE 2007

1. section with flow diagram

A. ballroom

12thave

B. meeting rooms

C. exposition hall

existing javits center

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11th ave ...



2. exposition hall

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CONCEPT

1. view corridors from green roof





2. section through massing concept one













1. context model of 11th ave elevation

3. shifted for program + views

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4. massing elements

A. entry plaza B. event terrace











D. prefunction space





263



1. crystal facade concept

2. southeast solar radiation studies





winter



summer



spring



2. fall





spring



1. aerial view of 11th ave facade

3. view from from hudson river

2. hudson river elevation

"The design of the massing and facades for the proposed expansion of the Javits Center was derived from an adaption of the original Javits curtain wall design. The original Pei Cobb Freed convention center celebrated the latest in glass curtain wall technology available in 1986—similar to London's Crystal Palace of 1850. Our proposal adapts the current massing and facades from the original 1986 structure—three decades later—while reimagining a glass building using today's glass technologies. This creates a new dynamic entry and integrates the expansion with the adjacent Hudson Yards development."

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- Kenneth Drucker, FAIA, Design Principal





270

2. ballroom

3. circulation in lobby atrium



