

1997 Annual Excellence in Structural Engineering Design Competition

The Structural Engineers of Illinois (SEAOI) held its Annual Banquet to present the Excellence in Structural Engineering Awards on Saturday June 7, 1997. The following awards were presented.

Best Structure

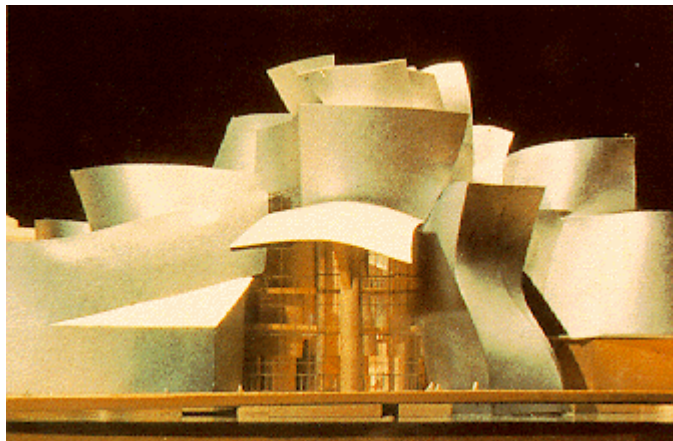


Confederation Bridge at Prince Edward Island, Canada

J. Muller International

The Confederation Bridge is a 12.9-km (8.4-mile) bridge which links Cape Tormentine in New Brunswick and Borden on Prince Edward Island. This segmental structure is the longest bridge in Canada and the fourth longest bridge in the world.

Most Innovative Structure



The Guggenheim Museum in Bilbao, Spain

Skidmore, Owings & Merrill,
Structural Engineers

One of the most visually unique building designs of the twentieth century; the Guggenheim Museum project, located in Bilbao, Spain, required an innovative structural engineering solution and a pioneering utilization and sharing of computer generated information between architects,

engineers, steel detailers, and fabricators during all phases of the project from design through shop drawings and into construction.

Best Special Structure

Flyover in Dayton, Ohio

Woolpert LLP

The city of Dayton has created a new metal-and-concrete sculpture which depicts the First Flight. Named 'The Flyover', the sculpture features a metal backbone equal in length to the first flight, with metal beams symbolizing the craft in flight.

Award of Merit



The new South Hall and Grand Concourse add 900,000 sq ft of first-class exhibition space and 170,000 sq ft of meeting rooms to the McCormick Place Exhibition Facility, Chicago. The "object oriented" design and production, used on this project, linked design and production data bases and software, such that the plans and schedules were produced by managing and processing large databases.

Award of Merit



Petronas Twin Towers in Kuala Lumpur, Malaysia
Thornton-Tomasetti Engineers

The PETRONAS Twin Towers, corporate headquarters of Malaysia's national oil company, are now the world's tallest buildings. The 451.9 meter tall towers, clad in glass, aluminum and stainless steel, are part of a 900,000-sq. meter mixed-use project. The 88-story towers are also part of a Malaysian strategy to join the ranks of most-developed nations by 2020.

Award of Merit



The Cockrell Butterfly Center in Houston, Texas
Walter P. Moore and Assoc.

As the new exhibit was planned, the most important client concerns were for the butterfly itself - it had to be "butterfly-friendly". Within the exhibit space, careful selection of materials and shapes was mandatory. Projecting elements and sharp edges are dangerous to flying butterflies, easily damaging fragile wings.

Award of Merit

Covered Wood Bridge in Plainfield, Illinois Schmidt Engineering, Inc.

The purpose of this bridge is the same as any other; a structure to allow travel over and across an obstruction from one side to another. What makes this project different is a desire to make the structure a visible and prominent element.