

## 1998 Annual Excellence in Structural Engineering Design Competition

The Structural Engineers Association of Illinois is pleased to announce the winners in the Excellence in Structural Engineering Awards. The awards were presented at the annual banquet on Saturday, June 6, 1998.

### Best Structure



**Jin Mao Building**

Shanghai, The Peoples Republic of China  
Skidmore, Owings & Merrill LLP

The Jin Mao Building, soon to be the tallest building in China, is a 3 million sf (278,800 square meter) multi-use complex consisting of an 88-story tower and a 6-story podium building. The development houses office, hotel and retail components within a 420-meter tower which is structurally engineered to tolerate typhoon winds and earthquakes. When completed in 1998, Jin Mao will be the third tallest building in the world.

## Most Innovative Structure



**Columbus Gateway Arch Bridge**

I-65 and SR-46, Columbus, IN

J. Muller International

The project consists of a 300 ft. single span structure on Interstate 65 crossing state Road 46 on the West side of Columbus, Indiana. The structure carries the North and south bound traffic (2 lanes with shoulders on each) and utilizes a steel basket-handle-arch with the roadway positioned on the outside of the arches. The roadways are supported by transverse box girder floor beams on 20 ft. centers which in turn are suspended by cable-stay hangers from the basket-handle arches.

## Best Special Structure



**U.S. Marshals Gimbal**

TT-CBM Engineers

The filming of the movie US Marshals required unique structures for the filming of the special effects.

**Award of Merit**



**Reconstruction of TWA Flight 800**  
Wiss, Janney, Elstner Assoc., Inc.

**Award of Merit**



**Butterfly House and Education Center**  
Faust Park, St. Louis, MO  
Ibrahim Engineering Corporation

The Butterfly House is a not-for-profit organization established in 1995 to foster a better understanding of butterflies, and increase awareness of the natural habitat in which butterflies thrive.

## Award of Merit



**State and Van Buren Elevated Transit Station**  
Van Buren Street west of State Street, Chicago, IL  
CTE Engineers, Inc.

The State and Van Buren Elevated Transit Station is a premier example of excellence for design and construction projects. The project is situated adjacent to the Harold Washington Library Center within the loop of downtown Chicago, Illinois, surrounded by historically significant buildings and on an elevated structure which itself is an historic landmark.

## Award of Merit



**Ryan Field Pressbox**  
Northwestern University, Evanston, IL  
Tylk, Gustafson & Assoc.

## **Judges**

**Paul Beitler**  
President  
Miglin-Beitler

**Nicholas Bilandic**  
Director of Structural Engineering  
Holabird & Root

**Michael Gelick**  
President  
Gelick Associates, Inc.

**Stan-Lee Kaderbek**  
Chief Bridge Engineer  
Chicago Department of Transportation

**Steve Kerch**  
Real Estate Group Editor  
Chicago Tribune

**Jay Shen, Ph.D.**  
Assistant Professor  
Illinois Institute of Technology - Civil Engineering Department