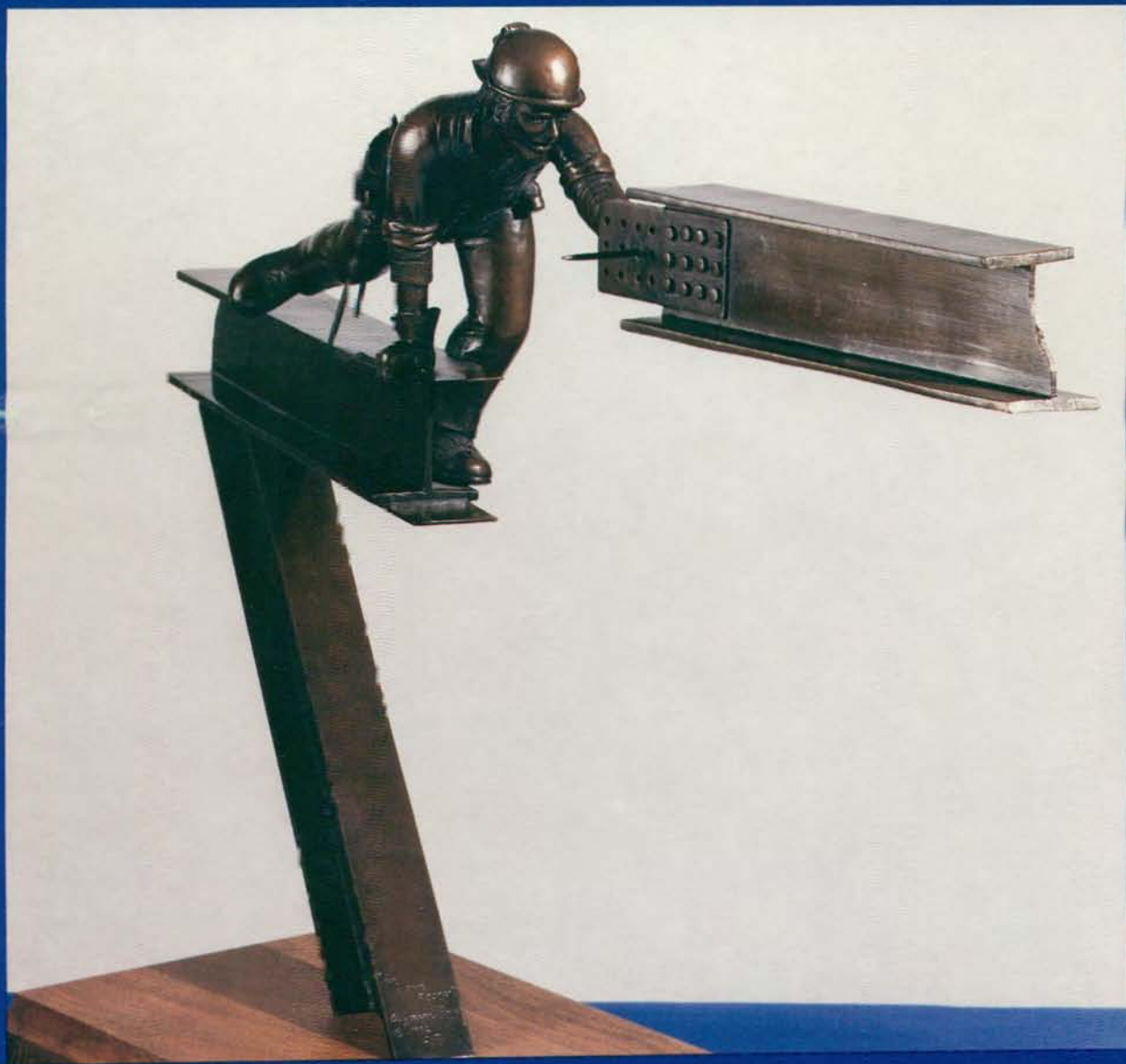


1987 Architectural Awards of Excellence



Special Section



# 1987 Architectural Awards of Excellence

This Special Section of *Modern Steel Construction* is a salute to the winners of the 1987 Architectural Awards of Excellence competition. This biennial event, sponsored by the American Institute of Steel Construction, recognizes and honors outstanding architectural achievement in building design.

All registered architects practicing professionally in the United States are eligible for the competition. They are invited to enter buildings of their design constructed anywhere in the United States or its territories. For the 1987 competition, each project must have been designed, fabricated and erected in the U.S. during the calendar years 1985 or 1986.

Buildings of all classifications are eligible, with equal emphasis given to all sizes and types in the judging. The structural frame must be steel, although it is not a requirement that the steel be exposed and a part of the architectural expression. Older structures which have undergone major reconstruction/rehabilitation may also be entered. There is no limitation on the number of entries by any individual or firm.



On Our Cover . . .

A Joe Kinkel sculpture on permanent display at AISC headquarters, "The Long Reach," is the motif for AAE and Prize Bridge Awards presented by AISC. Award winners receive bas relief plaques adapted from the sculpture.

## THE AWARDS JURY



(left to right)

DONALD J. HACKL  
President  
Lobel Schlossman Hackl  
Chicago, Illinois  
(and 1987 President,  
American Institute of Architects)

TED A. NIEDERMAN  
Principal  
RTKL Associates, Inc.  
Baltimore, Maryland

HAL IYENGAR  
Partner  
Skidmore, Owings & Merrill  
Chicago, Illinois

PROFESSOR WILLIAM McGUIRE  
School of Civil & Environmental Engineering  
Cornell University  
Ithaca, New York

BRUNO D'AGOSTINO  
Senior Vice President  
Benjamin Thompson and Associates, Inc.  
Cambridge, Massachusetts



## CLARKE COLLEGE

Dubuque, Iowa

Replacing key buildings lost in a fire, designers created a new "hub" for this 57-acre campus, echoing the character of the original group of closely linked buildings through a single large structure. It accommodates administrative offices, central library, chapel, recital hall, art gallery, post office and bookstore. The roof line has three individual peaks, one of which—the glazed atrium—reinforces the hub concept. Exposed bundled steel tube columns and vaulting are utilized to dramatically shape the space in forms reminiscent of a Gothic cathedral. Similar exposed bundled steel tube columns and vaulting are expressed in the two-story reading room of the library and chapel. The design integrates adjacent campus architecture and the masonry tradition of Dubuque architecture, consisting primarily of brick and limestone resting on the structural steel frame.

### Architect

VOA Associates Incorporated  
Chicago, Illinois

### Structural Engineer

Shive-Hattery Engineers, Inc.  
Moline, Illinois

### Construction Manager

Conlon C.M.  
Dubuque, Iowa

### Steel Fabricators

Bradley Iron Works, Inc.  
Dubuque, Iowa  
and  
Venetian Iron Works, Inc.  
Des Moines, Iowa

### Steel Erector

Northwest Erection Services, Inc.  
Des Moines, Iowa

### Owner

Clarke College  
Dubuque, Iowa

Juror comments: *"historically, spirituality has often been expressed in structural terms. Clarke College's design and use of materials epitomizes that mode of expression."*





## 345 CALIFORNIA CENTER

San Francisco, California

An elegant and unique form on the cityscape, this is one of the first major projects using a multiple tube and eccentric brace concept: a welded ductile, moment-resisting space framed tube at the exterior of the building, two transverse interior frames with an eccentrically braced core. Both frame and concept were selected because of ductility considerations and the fact that steel, light and flexible, reduced the inertia forces due to earthquake load. Steel framing also provided flexibility for inter-floor stairs for two-floor tenants; and erection of the tower's concrete-backed granite wall system. Rising 47 stories above grade, the project includes several parts: at the top, in two separate towers emerging from the office building and linked together with glazed skybridges, are 11 floors of hotel rooms; at the base is a full floor of mechanical equipment; then 31 floors of office space, two large podium office floors and—at street level and one above—two floors of office building and hotel lobbies, retail and restaurant space.

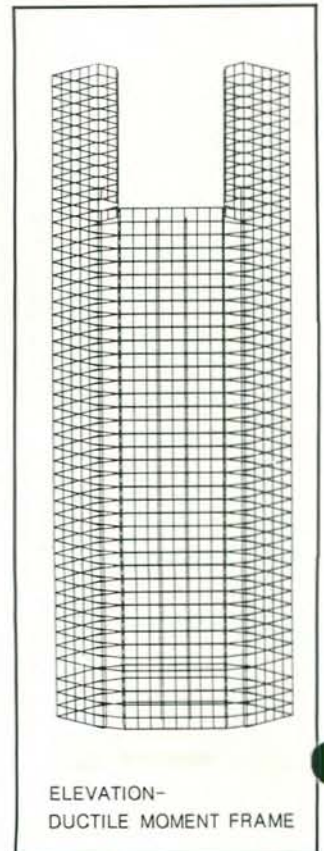
Jury comments: "A very aggressive, robust and powerful building statement."

**Architect/Structural Engineer**  
Skidmore, Owings & Merrill  
San Francisco, California

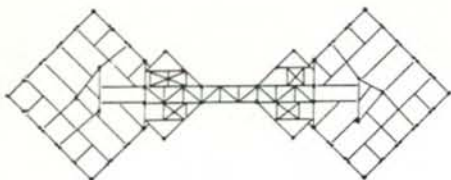
**General Contractor**  
Dinwiddie Construction Company  
San Francisco, California

**Steel Fabricator/Erector**  
The Herrick Corporation  
Hayward, California

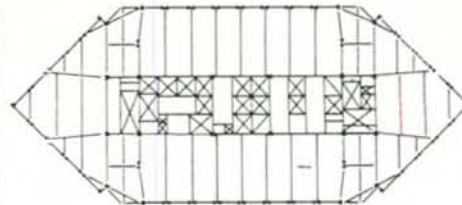
**Owner**  
California Center Partners,  
Norland Properties  
San Francisco, California



ELEVATION-  
DUCTILE MOMENT FRAME



TYPICAL HOTEL FLOOR  
FRAMING PLAN



TYPICAL OFFICE FLOOR  
FRAMING PLAN

## TRW WORLD HEADQUARTERS

Lyndhurst, Ohio

Expressive use of steel and aluminum emphasizes the technological sophistication of this company headquarters. Steel columns and beams are clad in bronze anodized aluminum with window frames and other components set in from the steel building frame. The 450,000-sq. ft. building steps down in terraces; four narrow, pavilion-like office wings with full-height glass walls radiate from the central atrium.

Curry comments: "An almost timeless piece of corporate architecture, as fresh and wonderful 20 years from now as it is today."



### Architect

Lohan Associates  
Chicago, Illinois

### Structural Engineer

KKBNA Unlimited, Inc.  
Chicago, Illinois

### General Contractor

Gilbane Building Company  
Cleveland, Ohio

### Steel Fabricator/Erector

Kilroy Structural Steel Company  
Cleveland, Ohio

### Owner

TRW, Inc.  
Lyndhurst, Ohio



Jury comments: *"This type of building brings life into the city, captivates and holds shoppers in a pleasant, stimulating environment."*

## PIER 17 PAVILION

New York, New York

This final element of the South Street Seaport in lower Manhattan is a three-story steel frame structure with painted metal siding and a standing-seam metal roof. Interior circulation is oriented around two three-story atria, one running north/south parallel to the shoreline, the other running east/west to the river. Retail stores and specialty shops focus inward; restaurants, cafes and public spaces focus outward, overlooking the waterfront.

### Architect

Benjamin Thompson & Associates, Inc.  
Cambridge, Massachusetts

### Structural Engineer

Severud-Szegezdy Consulting Engineers P.C.  
New York, New York

### General Contractor

Tishman Construction Corp. of New York  
New York, New York

### Steel Fabricator

Mosher Steel Company  
Birmingham, Alabama

### Steel Erector

American Steel Erectors  
South Plainfield, New Jersey

### Owner

Seaport Marketplace Limited Partnership,  
Affiliate of The Rouse Company  
Columbia, Maryland

## VACATION HOUSE

New England Coast

This family complex of autonomous units includes parents', children's and guest houses, and studio, with the parents' dwelling composed of two pavilions under a glass "tent," master bedroom and living-dining-kitchen, each defined by piers at the corners supporting tubular steel space trusses spanning the entire space to carry the roof deck.

### Architect

Peter Forbes and Associates, Inc.  
Boston, Massachusetts

### Structural Engineer

Zaldastani Associates, Inc.  
Boston, Massachusetts

### General Contractor

Prin A. Allen & Sons  
Brooklin, Maine

### Steel Fabricator

Maine-Cascade Iron Works  
Clinton, Maine

### Steel Erector

Nancy's Welding  
Freedom, Maine



Jury comments: *"A modern house that fits beautifully into the rugged landscape."*

## VIRGINIA POWER'S INNSBROOK TECHNICAL CENTER

Glen Allen, Virginia

The open structural steel frame used throughout this utility's new center achieves the visual impact needed for the building's central architectural element, a 189-ft microwave tower. And it enabled the erector to lift pre-assembled platforms like building blocks. Building modules of open office are organized along an open 3-story circulation spine. The frame and exterior envelope were being constructed while the design team completed the interior package. Steel framing also permitted minor adjustments on the interior without major cost.

### Architect/Structural Engineer/General Contractor

Virginia Power, E & C Division  
Glen Allen, Virginia

### Steel Fabricator

Owens Steel Company, N.C., Inc.  
Gastonia, North Carolina

### Steel Erector

W. O. Grub Steel Erection, Inc.  
Richmond, Virginia

### Owner

Virginia Power  
Glen Allen, Virginia



Juror comments: "Integration of a new technology with forms that go back historically."



## MORROW HYDROELECTRIC DAM

Kalamazoo County, Michigan

Generating facility is crisp and prismatic. Primary triangular pents of built-up architecturally exposed structural steel elements form the design icon, linked by tubular steel sections. Secondary and tertiary structural steel elements frame the entire exterior glass wall system, and form graceful catwalks, stair and craneway elements.

### Architect/Structural Engineer

Skidmore, Owings & Merrill  
Chicago, Illinois

### General Contractor

Erhardt Construction Company  
Ada, Michigan

### Steel Fabricator

Grand Rapids Steel & Supply  
Grand Rapids, Michigan

### Steel Erector

Steelcon  
Kalamazoo, Michigan

### Owner

STS Consultants, Ltd.  
Northbrook, Illinois



Jury comments: "This simple, elegant enclosure becomes architecture. It's direct, powerful and has a real poetry."



## LLOYD CENTER CINEMAS

Portland, Oregon

The design for this multi-screen cinema complex is intended to "rekindle the spirit and excitement of the 20s, when a night out at the movies was a grand event." Red-painted exposed structural steel lends a lightness throughout, starting with an entrance galleria, moving through a transitional rotunda and ending in the "street of theatres." Each movie house has its own identity and sparkling neon marquee. All detailing is exposed where appropriate; fasteners and cable structures are used to suspend light fixtures and neon artwork.

Jury comments: *"Totally unique ... they put some real show business into this."*

### Architect

Broome, Oringdolph, O'Toole, Rudolf, Boles & Associates, PC  
Portland, Oregon

### Structural Engineer

KPFF Consulting Engineers  
Portland, Oregon

### Steel Fabricator

Fought & Company, Inc.  
Portland, Oregon

### General Contractor

Hoffman Construction Co.  
Portland, Oregon

### Steel Erector

REFA Erection, Inc.  
Tigard, Oregon

### Owner

Tom Moyer Theaters  
Portland, Oregon

## RADIO STATION K92FM/WDBO

Orlando, Florida

Two major components of this broadcast facility and corporate office have been integrated into the overall design: the 200-ft tower and the satellite dish. A 10-ft x 150-ft skylight-covered corridor permits viewing of both elements from within the building. Because the building is severed literally into two pieces by the barrel arch skylight, an exceptionally strong column system was required to resist hurricane force winds. Steel truss columns resist wind shear by triangulation in a manner similar to the 200-ft broadcast tower.

### Architect

Helman Hurley Charvat Peacock/Architects,  
Maitland, Florida

### Structural Engineer

Allan and Conrad, Inc.  
Winter Park, Florida

### General Contractor

R.C. Stevens Construction Co.  
Orlando, Florida

### Steel Fabricator/Erector

Southern Central Steel  
Sanford, Florida

### Owner

NewCity Communications, Inc.  
Orlando, Florida



Jury comments: *"Refreshing and very laid back; a building that says the public is welcome."*



## INDUSTRIAL TECHNOLOGY INSTITUTE

Ann Arbor, Michigan

A steel frame provides the "high-tech" image for this project, and curved stainless steel panels for the facade enforce the dynamic projection of a progressive corporation whose work is in "factories of the future." The interior integrates three functions: corporate headquarters, industrial research laboratories and training facilities. The corporate offices, a series of pods which include the training center, are sheathed in stainless steel and two shades of grey spandrel glass. The two-story industrial-bay laboratories are identified with black masonry tile.

Jury comments: "A high-tech solution, using both symmetry and materials very nicely."

### Architect

William Kessler and Associates, Inc.  
Detroit, Michigan

### Steel Fabricator

Service Iron Works, Inc.  
Livonia, Michigan

### Structural Engineer

Robert Darvas Associates P.C.  
Ann Arbor, Michigan

### Steel Erector

McGuire Steel Erection, Inc.  
Northville, Michigan

### General Contractor

O'Neal Construction  
Ann Arbor, Michigan

### Owner

Industrial Technology Institute  
Ann Arbor, Michigan



## GEORGIA STATE BOTANICAL GARDEN CONSERVATORY VISITOR'S CENTER

Athens, Georgia

The steel frame, painted white, ensures lightness and elegance for this great glass box. The aluminum skylight and curtain wall system is broken thermally and glazed with insulating glass. The main purpose of this teaching/visitor complex was the development of a tropical rain forest as part of the University's research efforts in biotechnology. However, it is also the setting for many special events, including lectures, parties and weddings. For general use, large exhaust fans in connection with motorized greenhouse window sash allow air circulation; for special events, the conservatory is air-conditioned.

### Architect

Hall, Norris & Marsh, Inc.  
Atlanta, Georgia

### Structural Engineer

Sedki & Russ Engineers  
Atlanta, Georgia

### General Contractor/Steel Erector

Terry Development Corporation  
Athens, Georgia

### Steel Fabricator

Thackston Steel Co., Inc.  
Statesboro, Georgia

### Owner

University of Georgia  
Athens, Georgia

Jury comments: "A very simple, natural expression of exposed structural steel . . . clarity and order are apparent."



## McCORMICK PLACE EXPANSION FACILITY

Chicago, Illinois

A steel-framed low-rise building utilizing a cable-suspended structural steel roof system, the McCormick Expansion resolves site constraints, yet remains harmonious with adjacent lakefront environs. It augments the existing McCormick Place Exhibit Hall to form the world's largest contiguous exhibition facility, and has a 480 ft x 780 ft long-span roof, suspended from cables supported by 12 concrete pylons projecting 60 ft above roof level. The 3-1/4 in. diameter galvanized steel cables, six at each pylon, are jacketed by an extruded white PVC protective sheath with polished stainless steel anchorage fittings.

Jury comments: *"An extremely delicate way of handling a gigantic structure."*

### Architect/Structural Engineer

Skidmore, Owings & Merrill  
Chicago, Illinois

### Construction Manager

Schal/McHugh  
Chicago, Illinois

### Steel Fabricator/Erector

Bristol Steel Corporation  
Bristol, Virginia

### Owner

Metropolitan Fair & Exposition Authority  
Chicago, Illinois

## OWINGS MILLS TOWN CENTER

Owings Mills, Maryland

Structural steel creates a light, airy, upscale and sophisticated framework. The food court's conservatory appearance was achieved using bent structural steel T-sections to support curved glass skylights. Exposed Vierendeel steel roof trusses serve both as stabilizers and decorative elements throughout the mall, forming the feature design element. Exposed steel columns are built up from one WF-shape and two T's welded together to make cruciform columns.

Jury comments: *"A very sophisticated, state-of-the-art type structure."*

### Architect/Structural Engineer

RTKL Associates, Inc.  
Baltimore, Maryland

### General Contractor

HCB Contractors  
Baltimore, Maryland

### Steel Fabricator

Strait Manufacturing  
Greencastle, Pennsylvania

### Steel Erector

L. R. Willson & Sons, Inc.  
Gambrills, Maryland

### Owner

The Rouse Company  
Columbia, Maryland



# THE HARTFORD LIFE INSURANCE HEADQUARTERS

Simsbury, Connecticut

Box girders proved cost-effective while minimizing floor-to-floor height in this 4-story building. Ducts serving three separate wings run parallel to the beams, through the girders. The composite steel beams afforded great design flexibility, allowing openings to be cut in the field. The exterior is clad in 2-in. pink Connecticut granite. The 650,000 sq. ft campus-style building includes a computer center, corporate office space for 2,000 employees, cafeteria, private dining rooms and conference center, and a 100-seat multi-purpose auditorium.

## Architect

Thompson, Ventulett, Stainback & Associates, Inc.  
Atlanta, Georgia

## Structural Engineer

Ross Bryan Associates, Inc.  
Nashville, Tennessee

## General Contractor

Eartlett, Brainard, Eacott/Dugan & Meyers, a Joint Venture  
Eloomfield, Connecticut

## Steel Fabricator/Erector

The Berlin Steel Construction Co.  
Berlin, Connecticut

## Owner

The Hartford Insurance Group  
Hartford, Connecticut



Jury comments: *"Traditional mainstream architecture, eminently well-executed."*



# The 1987 AAE Winners

Designers honored in the 1987 Architectural Awards of Excellence competition, and their winning structures, are (in alphabetical order):

**Broome, Oringdulph, O'Toole, Rudolf Boles & Associates, PC, Portland, Oregon**  
LLOYD CENTER CINEMAS, PORTLAND, OREGON

**Peter Forbes and Associates, Inc., Boston, Massachusetts**  
VACATION HOUSE, THE NEW ENGLAND COAST

**Hall, Norris & Marsh, Inc., Atlanta, Georgia**  
GEORGIA STATE BOTANICAL GARDEN CONSERVATORY VISITOR'S CENTER, ATHENS, GEORGIA

**Helman Hurley Charvat Peacock/Architects, Inc., Maitland, Florida**  
RADIO STATION K92FM/WDBO, ORLANDO, FLORIDA

**William Kessler and Associates, Inc., Detroit, Michigan**  
INDUSTRIAL TECHNOLOGY INSTITUTE, ANN ARBOR, MICHIGAN

**Lohan Associates, Chicago, Illinois**  
TRW WORLD HEADQUARTERS, LYNDHURST, OHIO

**RTKL Associates, Inc., Baltimore, Maryland**  
OWINGS MILLS TOWN CENTER, OWINGS MILLS, MARYLAND

**Skidmore, Owings & Merrill, Chicago, Illinois**  
McCORMICK PLACE EXPANSION FACILITY, CHICAGO, ILLINOIS

**Skidmore, Owings & Merrill, Chicago, Illinois**  
MORROW HYDROELECTRIC DAM, KALAMAZOO COUNTY, MICHIGAN

**Skidmore, Owings & Merrill, San Francisco, California**  
345 CALIFORNIA CENTER, SAN FRANCISCO, CALIFORNIA

**Benjamin Thompson & Associates, Inc., Cambridge, Massachusetts**  
PIER 17 PAVILION, NEW YORK, NEW YORK

**Thompson, Ventulett, Stainback & Associates, Inc., Atlanta, Georgia**  
THE HARTFORD LIFE INSURANCE HEADQUARTERS, SIMSBURY, CONNECTICUT

**Virginia Power, E & C Division, Glen Allen, Virginia**  
VIRGINIA POWER - INNSBROOK TECHNICAL CENTER, GLEN ALLEN, VIRGINIA

**VOA Associates Incorporated, Chicago, Illinois**  
CLARKE COLLEGE, DUBUQUE, IOWA

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