



# SEAOI 50<sup>TH</sup> ANNIVERSARY 50 SIGNIFICANT STRUCTURES IN 50 YEARS

Annual Awards Dinner June 6<sup>th</sup>, 2015





## DEWITT CHESTNUT APARTMENTS

Completed: 1965

Chicago, IL











# DALEY CENTER AND PICASSO STATUE

Completed: 1967 Chicago, IL













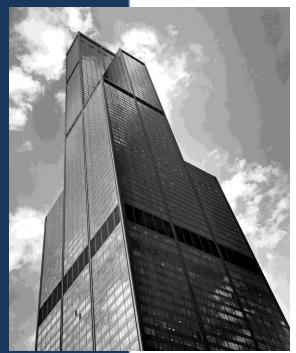
#### JOHN HANCOCK CENTER

Completed: 1970 Chicago, IL











Completed: 1974 Chicago, IL











INTERSTATE
ROUTE 57
BRIDGE OVER
MISSISSIPPI
RIVER

Completed: 1979

Cairo, IL









#### HAJJ TERMINAL

Completed: 1981 Jeddah, Saudi Arabia



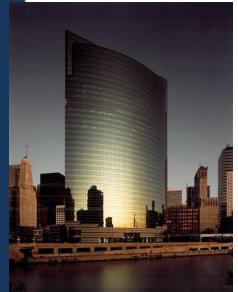


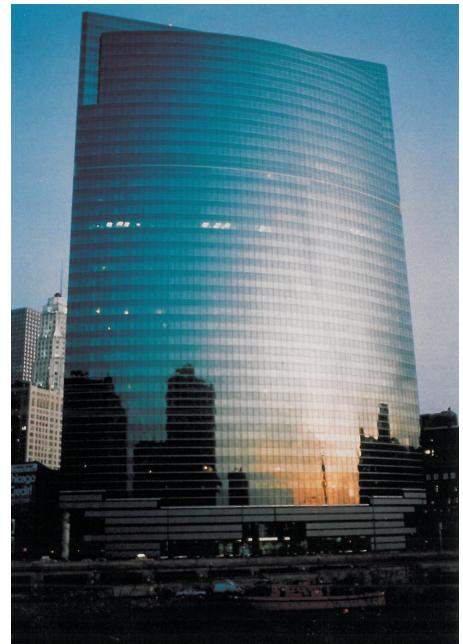




#### 333 WEST Wacker Building

Completed: 1982 Chicago, IL







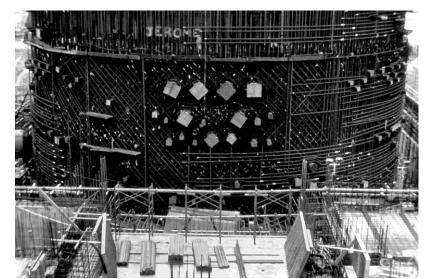


CLINTON
MARK III
CONTAINMENT

Completed: 1983

STRUCTURE

Clinton, IL









COLUMBUS
DRIVE
BASCULE
BRIDGE OVER
THE CHICAGO
RIVER

Completed: 1983 Chicago, IL







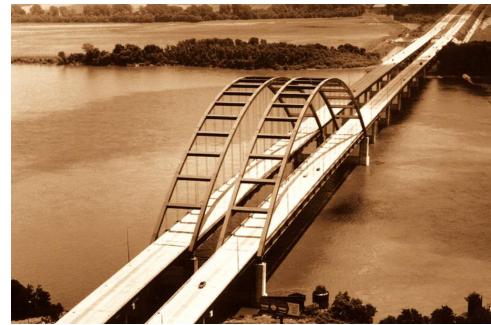




INTERSTATE ROUTE 255 BRIDGE OVER MISSISSIPPI

Completed: 1985

Jefferson Barracks, MO

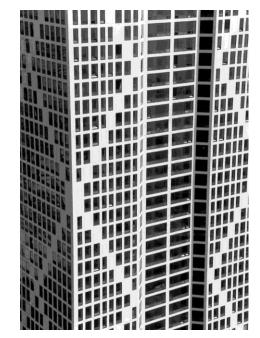






#### ONTERIE CENTER

Completed: 1986 Chicago, IL









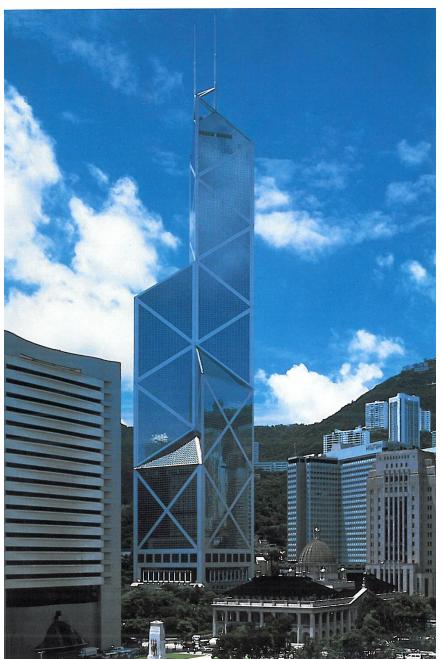
# MCCORMICK PLACE, PHASE 2 EXPOSITION CENTER

Completed: 1986 Chicago, IL









#### BANK OF CHINA BUILDING

Completed: 1989 Hong Kong, China





#### 900 N Michigan Avenue

Completed: 1989 Chicago, IL





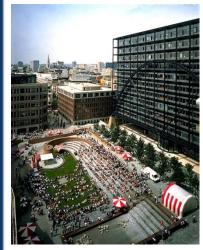






#### EXCHANGE HOUSE (BROADGATE)

Completed: 1990 London, UK







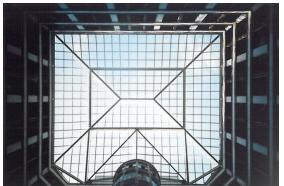




### THE ROOKERY REHABILITATION

Completed: 1992 Chicago, IL









#### 77 WEST Wacker Drive

Completed: 1992 Chicago, IL









100 N
RIVERSIDE
(MORTON
INTERNATIONAL
BUILDING)

Completed: 1992 Chicago, IL







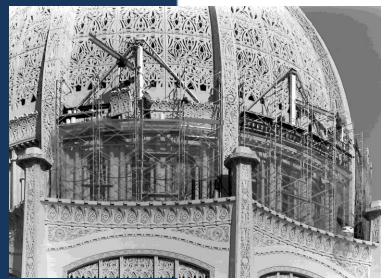


AMOCO BUILDING FAÇADE RECLADDING

Completed: 1993 Chicago, IL



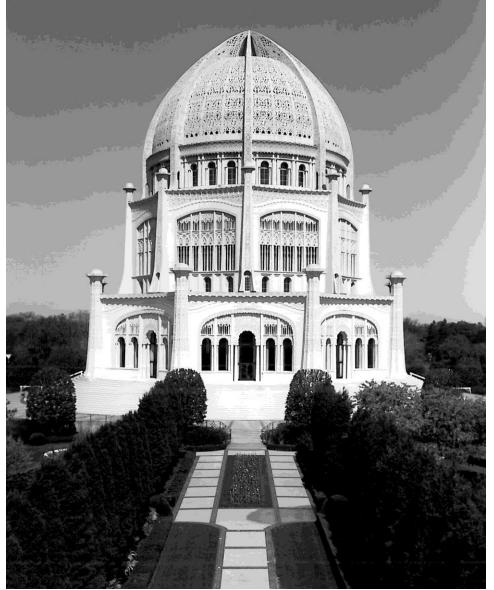




#### BAHA'I HOUSE OF WORSHIP

Completed: 1994 Wilmette, IL









#### CLARK Bridge

Completed: 1994 Alton, IL









SEISMIC
ISOLATION
RETROFIT,
US COURT OF
APPEALS

Completed: 1995 San Francisco, CA





### CONFEDERATION BRIDGE

Completed: 1997 Prince Edward Island, Canada













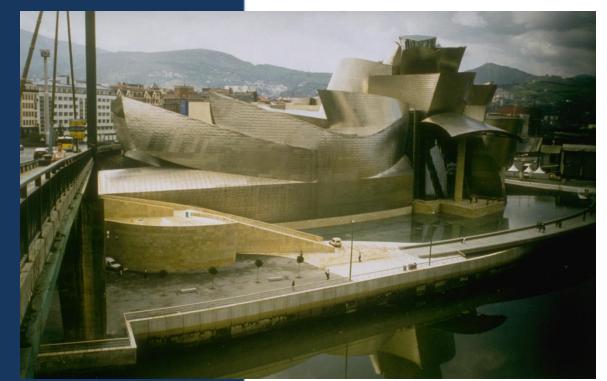
### PETRONAS TWIN TOWERS

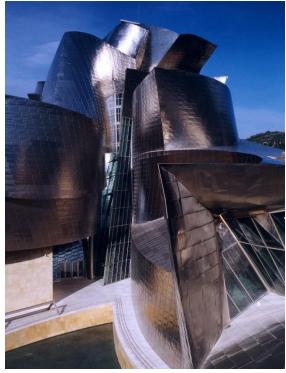
Completed: 1997 Kuala Lumpur, Malaysia









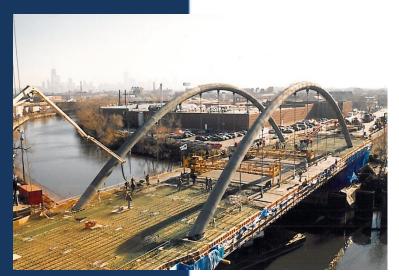


#### GUGGENHEIM Museum Bilbao

Completed: 1997 Bilbao, Spain









#### DAMEN Avenue Bridge

Completed: 1999 Chicago, IL









#### PARK TOWER

Completed: 1999 Chicago, IL





EAST FORK
CABLE-STAYED
BRIDGE

Completed: 2000 Columbus, IN







# UBS TOWER Completed: 2001









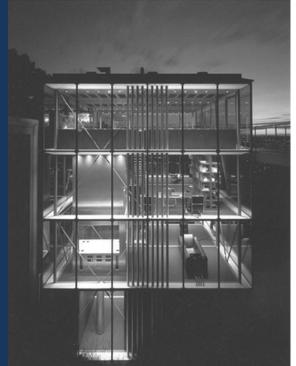


#### MILWAUKEE ART MUSEUM ADDITION

Completed: 2001 Milwaukee, WI









#### INGENIEURE House R128

Completed: 2002 Stuttgart, Germany







#### SOLDIER FIELD (ADAPTIVE REUSE)

Completed: 2003 Chicago, IL





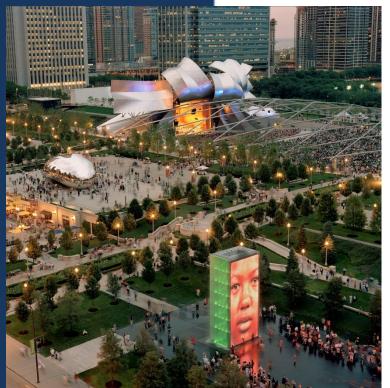


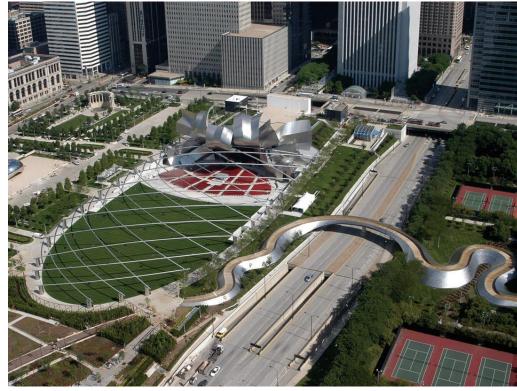
RATNER
ATHLETIC
CENTER,
UNIVERSITY OF
CHICAGO

Completed: 2003 Chicago, IL









#### MILLENNIUM Park

Completed: 2004 Chicago, IL









Completed: 2004 Chicago, IL









#### GENERAL MOTORS ENTRANCE PAVILLION

Completed: 2004 Detroit, MI









### 111 SOUTH WACKER DRIVE

Completed: 2005 Chicago, IL













#### NORTH AVENUE Bridge

Completed: 2008 Chicago, IL





#### CATHEDRAL OF CHRIST THE LIGHT

Completed: 2008 Oakland, CA









### CAJA MADRID

Completed: 2008 Madrid, Spain







# THE ART INSTITUTE OF CHICAGO MODERN WING

Completed: 2009 Chicago, IL











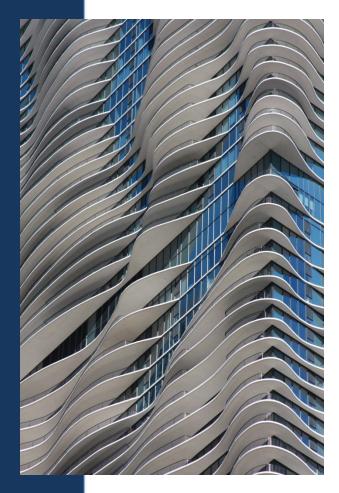
#### BURJ KHALIFA

Completed: 2010 Dubai, UAE







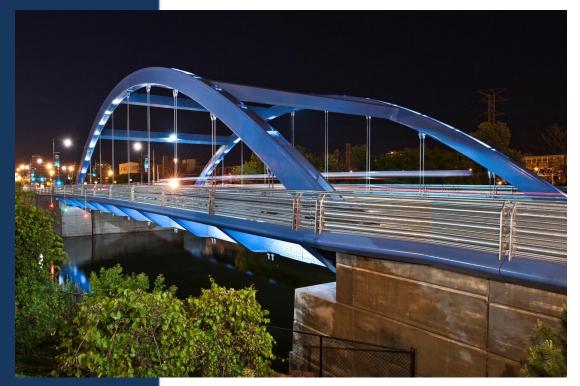


AQUA

Completed: 2010 Chicago, IL







#### HALSTED STREET BRIDGE

Completed: 2011 Chicago, IL











Completed: 2012 Chicago, IL











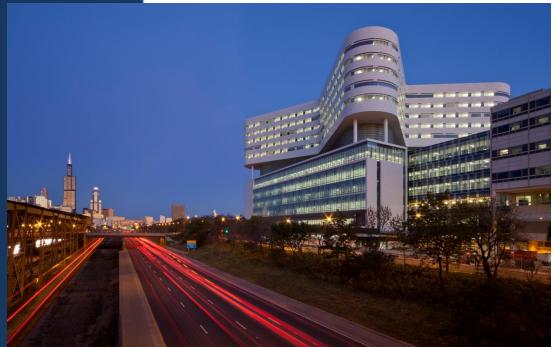
### WACKER DRIVE RECONSTRUCTION

Completed: 2012 Chicago, IL









# RUSH UNIVERSITY MEDICAL CENTER TRANSFORMATION

Completed: 2012 Chicago, IL









# WELLS STREET BASCULE BRIDGE REHABILITATION

Completed: 2013 Chicago, IL













#### STAN MUSIAL VETERANS MEMORIAL BRIDGE

Completed: 2014 St. Clair County, IL St. Louis, MO









#### HASTINGS BRIDGE

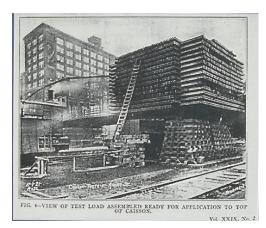
Completed: 2014 St. Paul, MN







## Advancements in Caisson Foundation Based on Testing



Caisson Load Test Union Station, 1920



Pressure Meter



Osterberg-Cell Test



Sound Dolomite 230 tsf, One North Wacker, 1999 270 tsf, Trump Tower, 2001



Fractured Dolomite
75 tsf on McCormick Place West Hall, 2004
90 tsf Once Museum Park East, 2006



#### The Development of 14,000 psi Concrete



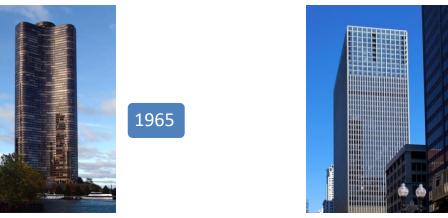
1962





7,500 psi Lake Point Tower

1976



9,000 psi MidContinental Plaza

1982



II,000 psi River Plaza



14,000 psi Chicago Mercantile Exchange



1972

#### **ACKNOWLEDGMENTS**

AECOM, J. Muller International (now AECOM), Envirodyne Engineer, Inc. (now AECOM)
ARUP

Alfred Benesch and Company

Cannon Design

CS Associates, Inc. (Formerly Chris P. Stefanos Associates, Inc.

H.W. Lochner

GCE of Illinois, Inc

**GRAEF** 

Halvorson and Partners, P.C.

Hanson Engineers, Inc.

**HNTB** 

Leslie E Robertson Associates

Magnusson Klemencic Associates

Parsons Corporation

Perkins and Will

Sargent & Lundy Engineers

Skidmore, Owings & Merrill LLP

Werner Sobek

Thornton Tomasetti, Inc.

TranSystems

Tylk, Gustafson & Associates

TY Lin

Wiss, Janney, Elstner Associates



