

# ***JEROME P. O'CONNOR, SE, PE***

*Senior Principal*

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## **EDUCATION**

B.S., Civil Engineering, University of Illinois, 1975

M.S., Structural Engineering, University of Illinois 1977

## **PROFESSIONAL REGISTRATION**

Structural Engineer – Illinois

Professional Engineer – Illinois, Iowa, Minnesota, Indiana, Wisconsin, Michigan, Ohio, Missouri, Massachusetts, District of Columbia, Florida, Virginia, Rhode Island, Pennsylvania, New Jersey, Georgia, North Carolina, Colorado, Maryland, New York, California

NCEES National Certificate

## **PROFESSIONAL MEMBERSHIPS**

American Society of Civil Engineers

American Concrete Institute

Structural Engineers Association of Illinois

Construction Specifications Institute

ASTM

Committee C-24 on Building Seals and Sealants

Committee D-8 on Roofing, Waterproofing and Bituminous Materials

Committee E-6 on Building Performance

## **CAREER SUMMARY**

In his career, spanning 30 years, Mr. O'Connor has accumulated expertise in the fields of structural and materials engineering as applied to the assessment of the condition of existing buildings and development of documents for their repair.

He has considerable experience in materials used in building construction, ranging from the primary structural materials to waterproofing and flashing materials. In addition, he has performed a wide range of destructive and nondestructive site tests as applied to building components.

One of Mr. O'Connor's areas of emphasis is the assessment of problems with building enclosures, including roofs, exterior cladding and windows. He has evaluated buildings with moisture intrusion problems through exterior façade components, including elements of concrete, masonry, EIFS and stucco. Current assignments include overseeing repairs to windows and façade elements on a university building in San Francisco; façade repairs at a 1,400-room hotel in New York City; and roof replacement projects in Chicago and San Francisco.

In the past several years, he has completed roof projects with a total area of nearly 2-1/2 million square feet, including the McCormick Place South Hall (1.2 million square feet) and commercial buildings in Chicago; Orlando, Naples, Miami and Fort Lauderdale, Florida; Atlanta, Georgia; Newark, New Jersey; etc.

Mr. O'Connor was employed by Law Engineering for four years, where he performed many assessments and remedial designs for building structures, exterior walls and roofs.

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While previously employed for six years by Construction Technology Laboratories, Inc., he directed major complex investigations of engineered facilities, including evaluations of deteriorated concrete in industrial and marine facilities in Abu Dhabi, Qatar and Dubai, in the Middle East.

For five years Mr. O'Connor worked at Randolph and Associates, Inc., performing structural designs for buildings, bridges, parking garages and wastewater treatment facilities.

After graduating with a Masters Degree, Mr. O'Connor worked for four years with the Arabian American Oil Company in Saudi Arabia. While employed overseas, he worked as an engineer on several large projects, including two years as a construction engineer during the building of a billion-dollar gas processing plant.

### **PRIMARY AREA OF EXPERTISE**

Mr. O'Connor's experience is related primarily to the evaluation of the condition of existing damaged and distressed structures and the design of repairs to bring the facilities back to sound condition. The emphasis of his background is in reinforced concrete, structural steel and masonry structures, including such facilities as parking garages, bridges, plazas, building façades and balconies, marine piers and industrial plants. He has been involved in the preparation of rehabilitation documents for many different types of structures. His experience in rehabilitation projects ranges from preliminary site investigations through construction operations.

He was part of an emergency response team after the January 17, 1994, Northridge, California, earthquake. Arriving in Southern California the evening of the quake, Mr. O'Connor assessed the condition of a variety of commercial, institutional and multi-family facilities, made recommendations for emergency measures and participated in the development of repair plans and specifications.

A particular area of expertise of Mr. O'Connor is the evaluation of historic structures. He has completed investigations into the condition of structural systems in several buildings and other structures listed in the National Register of Historic Places, including the Lincoln and Jefferson Memorials in Washington, D.C.

### **SECONDARY AREA OF EXPERTISE**

As a result of his many investigations into the causes of construction defects in structures, Mr. O'Connor has been retained as an expert witness in both litigations and arbitrations. Cases have related to industrial and institutional facilities, housing, parking garages and theater buildings.

### **PUBLICATIONS**

- O'Connor, Jerome P., and McElvain, Jerrold R., "Panel and Window Sealant Considerations for Façade Restoration," ASTM Eighth Symposium on Science and Technology of Building Seals, Sealants, Glazing and Waterproofing, February 3, 1999.
  - O'Connor, Jerome P., and McElvain, Jerrold R., "Innovative Developments for Major EIFS Repairs," *Water Problems in Exterior Walls*, ASTM STP 1352, 1999.
  - O'Connor, Jerome P., "Exterior Insulation and Finish Systems – Obvious Weaknesses," The Construction Specifier, December 1997.
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- O'Connor, J.P., Cutts, J.M., Yates, G.P., and Olson, C.A., "Evaluation of Historic Concrete Structures," Concrete International, August 1997; paper also presented at the national convention of the American Concrete Institute, November 6, 1996.
- O'Connor, J.P., Cutts, J.M., and Yates, G.P., "Historic Concrete Structures, Assessment and Repair"; paper presented at the national convention of the American Society of Civil Engineers, November 12, 1996.
- O'Connor, Jerome P., "Maintaining the Building Envelope"; paper presented at the Third Annual Educational Seminar, International Facility Management Association, November 2, 1995.
- O'Connor, Jerome P., "Middle East Concrete Deterioration, an Unusual Case History," ASCE Journal of the Performance of Constructed Facilities, August 1994.
- O'Connor, J. P., and Kolf, P. R., "High-Rise Facade Evaluation and Rehabilitation," Concrete International, November 1993.
- Kline, T. R., O'Connor, J. P., and Yates, G. R., "Repair or Replacement Evaluation, Manayunk Bridge, Pennsylvania"; paper presented at the Symposium for Bridge Strengthening and Rehabilitation, April 5-6, 1993.
- O'Connor, J. P., "Investigation of Concrete Structures at a Middle East Plant"; paper presented at the ASCE Materials Engineering Congress, August 10-12, 1992.
- O'Connor, J. P., "Concrete Façade Restoration Evolving," Dodge Construction News, August 26, 1991.
- O'Connor, J. P., and Kline, T. R., "Advances in Concrete Repair Technology - Four Case Histories," The Construction Specifier, December 1990.
- O'Connor, J. P., and Olson, C. A., "Deterioration in a Precast Prestressed Concrete Parking Garage," Concrete International, November 1990.
- O'Connor, J. P., "Using Structural Engineers to Resolve Claims," Claims, June 1988.

#### **REPRESENTATIVE PRESENTATIONS**

- "Maintenance of Building Exteriors," Hyatt Corporation Regional Engineers' Meetings, 2004.
- "Recovering from Disasters," Building Owners and Managers Association, October 1994.
- "Concrete Durability and Corrosion of Steel in Concrete," Chicago Park District, February 1992.
- "Failures in Bowstring Arch Trusses," City of Chicago Building Department, October 1991.
- "Design and Construction Deficiencies in Concrete Structures," Long Island Concrete Construction Institute, December 1991.

#### **OTHER RELEVANT EXPERIENCE**

Years in Profession: 30

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