



HALLIWELL

JOHN E. O'LEARY, PE, SE

NATIONAL DIRECTOR, ENGINEERING SERVICES
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SPECIALTIES

- Structural Investigations of Buildings, Bridges, Railroad, & Marine Structures
- Railroad Structure Investigations
- Construction Defect Analyses
- Construction Document Review and Analysis
- Roofing System Assessments
- Building Code Analyses
- Conceptual Repair Recommendations
- Hail and Wind-Caused Damage Analyses
- Construction Means and Methods Assessments
- Dam Evaluations and Assessments
- Building Envelope Failure Analyses
- Commercial/Large Residential Property Evaluations
- Standard of Care for Design Professionals
- Industrial / Wastewater Treatment Facility Evaluation
- Earth Retention System Design and Analysis
- Expert Testimony and Litigation Support

BIOGRAPHY

John is a licensed Professional and Structural Engineer with over 25 years of experience in the field of structural engineering design and evaluation. He has a comprehensive range of experience in structural engineering design and repair that includes buildings, bridges and marine facilities. He specializes in forensic investigations to determine the cause and origin of structural and building system failures on residential, industrial and commercial structures and has experience investigating steel, concrete, prestressed concrete, masonry and timber structures; plazas; parking garages; marine structures; bridges; foundations; and exterior facades including masonry, EIFS, stone, precast concrete, one-and three-coat stucco, panelized systems, and roofing systems. John has also provided repair and rehabilitation support for distressed structures and facades, including repair design; development of specifications and details; construction administration; site observation; building code and OSHA compliance evaluations; and wind and storm damage evaluations.

In cooperation with local contractors and government agencies, John has engineered design solutions for the temporary shoring of bridges, bridge repair, bridge erection and demolition, building rehabilitation, temporary excavation bracing, protective shielding, and tower crane foundation and anchorage design. He has also assisted defense contractors in installing non-lethal acoustic weapons systems on petroleum producing and support vessels worldwide. In addition, he has analyzed existing structures to carry construction vehicles and construction-related loadings.

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John has performed above and below water inspections on highway and railroad bridges, water storage reservoirs, dams, dock walls, bulkheads, seawalls, marinas, wharves, relieving platforms and piers, along with the associated residential buildings and industrial structures located adjacent to the waterfront facilities. These activities have been conducted worldwide for private owners and government entities, including the U.S. Navy, U.S. Army and U.S. Coast Guard. Along with cause and origin investigations, inspections have been both routine in nature, such as biennial or 60-month inspections, and specialized, such as emergency impact assessment inspections. In addition to conventional marine structures, John has also been involved with the recovery of failed fixed mounted oil platforms in the Gulf of Mexico resulting from Hurricanes Katrina and Rita.

QUALIFICATIONS

Master of Science in Civil Engineering (Structures), The University of Texas at Austin, Austin, TX
Bachelor of Science in Civil Engineering (Structures), Illinois Institute of Technology, Chicago, IL

INDUSTRY CERTIFICATIONS, LICENSES AND MEMBERSHIPS

- Licensed Professional Engineer – AL, AR, CO, CT, DC, DE, FL, GA, IL, IN, IA, KS, KY, LA, MA, MI, MN, MS, MO, MT, NE, NV, NH, NJ, NY, NC, ND, OH, OK, OR, PA, RI, SC, SD, TN, TX, VT, VA, WV, WI, WY
- Licensed Structural Engineer – GA, IL, NV, OK
- NCEES Model Law Structural Engineer
- American Society of Professional Engineers (ASCE), Member
- American Institute of Steel Construction (AISC), Member

PROFESSIONAL EXPERIENCE

- Halliwell, Regional Director, Civil/Structural Engineering Services
- MKA International, National Project Manager | Resource Lead – Civil/Structural Engineering
- Collins Engineers, Project Manager
- Packer Engineering, Engineer
- Engineering Diagnostics, Engineer

REPRESENTATIVE ASSIGNMENTS

Structural Investigation

Commercial Building | Denver, CO

Investigation of concrete slab movement and structural repairs during construction of a commercial building.

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Commercial Building | Davenport, IA

Evaluation of wind and hail related distress to structure and low-slope roofing.

Industrial Facility | Houston, Texas

Analysis of catastrophic failure of reinforced concrete sludge tank.

Interstate Bridge Structure | Northlake, IL

Assessment of mechanically stabilized earth wall movement at bridge abutment during construction.

Railroad Structural Assessment

Class I Railroad System | British Columbia, Canada

Evaluation of distress to railroad system caused by flooding and land movement.

Class I Railroad System | East Palestine, OH

Analysis of operations associated with debris containment and removal.

Class I Railroad System | Various, Southeast United States

Assessment of distress to railroad system caused by flooding after Hurricane Helene.

Class I Railroad Bridge Failure | Columbia, SC

Assessment of bridge failure, structural repairs, and improvements to railroad system.

Marine Structure Evaluation

Pier Structure | San Francisco, CA

Analysis of reinforced concrete pier structure, including code required retrofits, after fire.

Wharf Structure | Benecia, CA

Assessment and repair of timber wharf structure, including code required retrofits, after fire.

Bulkhead Structure | Burns Harbor, IN

Evaluation of anchored steel sheet pile bulkhead structure after partial failure.

Seawall Structure | Manalapan, FL

Assessment of anchored steel sheet pile seawall structure after partial failure.

Underwater Inspection

Naval Facilities Engineering Systems Command | Naval Facility, Guam

Performed the above and below water structural inspection of marine facilities.

Naval Facilities Engineering Systems Command | Naval Facility, MD

Performed the above and below water structural inspection of marine facilities.

Illinois DOT | Statewide, IL

Performed the underwater inspection and subsequent evaluation of over 100 bridge structures.

Structural/Construction Engineering

Bridge Erection | Statewide, IL and IN

Phase III Engineering Services to facilitate construction and erection of over 100 bridge structures.

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Bridge Rehabilitation | Chicago, IL

Structural design and construction engineering for the removal and rehabilitation of bascule bridge.

Offshore Fixed Structure Salvage | Gulf of Mexico

Structural services for recovery of seven fixed mounted oil platforms after hurricane damage.

PUBLICATIONS

- O'Leary, J., Zoruba, S. (2006) "High-Strength Bolting Made Easy," Modern Steel Construction
- Beck, R., Davis, J., Butcher, R., Burhke, M., Clarke, J., Simpson, R., Benitez, L., O'Leary, J., Smith, P. (2008) "Integration of Solid Modeling into Real Time Navigation," Offshore Technology Conference
- Browne, T., Collins, T.; Garlich, M., O'Leary, J., Stromberg, D., Heringhaus, K. (2010) Underwater Bridge Inspection, U.S. Department of Transportation - Federal Highway Administration, FHWA-NHI-10-027
- Browne, T., Collins, T., Garlich, M., O'Leary, J., Heringhaus, K. (2010) Underwater Bridge Repair, Rehabilitation, and Countermeasures, U.S. Department of Transportation - Federal Highway Administration, FHWA-NHI-10-029

RECENT TESTIMONY

- 2023: William Stevens and Leslie Stevens v. Blank & Baker Construction Management LLC, State of Illinois, County of Cook, Case No. 2022 L 003994. Issue: Failure of Foundation.
- 2018: Lexington Insurance Company, a subrogee of Amerco Real Estate Company and Amerco Real Estate Company v. The Lamar Company, LLC, d/b/a Lamar Advertising Company, All Steel Structures, Inc., Smit Brothers Excavation, LLC, and Effective Engineering Solutions, LTD., State of Illinois, County of Cook, Case No. 2016 L 004294. Issue: Failure of Sign Structure.
- 2018: Evercore Construction LLC v. Ascot Syndicate 1414 at Lloyd's; Hiscox Syndicate 33 at Lloyd's; International Insurance Company of Hannover SE; Liberty Syndicate 4472; Validus Syndicate 1183 at Lloyd's; and Sussex Insurance Company, State of Illinois, ADR Systems File No. 39843CAMG. Issue: Failure of Post-Tensioned Slab.
- 2015: Gilbert Leberes v. Walsh Construction Company, Hawk Enterprises Incorporated, C. Lee Construction Services Inc., Indiana Department of Transportation, and United Consulting Engineers, Inc., State of Indiana, County of Lake, Case No. 45D11-1207-CT-0140. Issue: Failure of Residential Building.
- 2015: 1260 Manalapan Properties, LLC v. John Y. Christopher Trust, Circuit Court of the 15 Judicial Circuit, Palm Beach County, Florida, Case No. 502012CA023878XXXMB-AO. Issue: Failure of an Anchored Retaining Wall.

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- 2015: Chartis Property Casualty Company v. 1260 Manalapan Properties, Circuit Court of the 15 Judicial Circuit, Palm Beach County, Florida, Case No. 502013CA006704XXXXMB-AO. Issue: Failure of an Anchored Retaining Wall.
- 2012: Ports of Indiana v. Lexington Insurance Company, Southern District Court of Indiana, Case No. 1:09-CV-00854-TWP-TAB. Issue: Failure of an Anchored Retaining Wall.
- 2011: Ports of Indiana v. Lexington Insurance Company, Southern District Court of Indiana, Case No. 1:09-CV-00854-TWP-TAB. Issue: Failure of an Anchored Retaining Wall.