

**Kevin Coyne, P.E., PSP
Manager**

Professional Profile

Mr. Kevin Coyne is a Manager in Exponent's Construction Consulting practice. He has broad experience in the construction process, having provided construction management services to clients during programming, design, and construction phases. Mr. Coyne's experience in project controls supports his analysis of claims related to design errors and omissions, scope changes, building codes and standards, schedule delays, cost overruns and production inefficiencies. He has also been responsible for developing project schedules, monitoring construction performance, and preparing time impact analyses on a variety of projects worldwide.

Mr. Coyne has represented clients in complex negotiations on numerous projects, including major insurance related matters totaling in excess of \$2 Billion. In addition, he has been recognized during dispute resolution proceedings as an expert in a wide range of engineering and construction topics, including damage assessments and rebuild efforts resulting from explosions at petrochemical plants, and OSHA regulations related to construction accidents. Mr. Coyne's experience also includes post-earthquake and flood damage assessments of structures and equipment.

Mr. Coyne also specializes in the integration of design and construction through the use of Virtual Design and Construction (VDC) tools. He performed graduate research in Building Information Modeling (BIM) at Stanford University's Center for Integrated Facility Engineering and currently focuses on 3D clash detection, 3D laser scanning, 4D modeling, and BIM implementation planning. Mr. Coyne is the author of several technical papers and has been invited to speak throughout North America on a variety of engineering and construction topics. He has been a guest lecturer in the Department of Civil, Environmental, and Infrastructure Engineering at George Mason University. Prior to joining Exponent, Mr. Coyne worked for the Lockheed Martin Corporation, designing and testing remotely operated vehicles.

Academic Credentials and Professional Honors

M.S., Civil Engineering, Design/Construction Integration, Stanford University, 2002
B.S., Civil Engineering (Honors), University of Florida, 2001

Stanford University Civil and Environmental Engineering Departmental Fellowship;
Chi Epsilon – Civil Engineering Honor Society; Pi Kappa Phi National Student of the Year

Licenses and Certifications

Registered Professional Civil Engineer, District of Columbia, #905449; Registered Professional Civil Engineer, Maryland, #0037786; Registered Professional Engineer, New York, #087574; Registered Professional Civil Engineer, Texas, #104277; Registered Professional Engineer, Virginia, #040301; National Council of Examiners for Engineers and Surveyors, #37956; Planning and Scheduling Professional (PSP), AACE International, #00210; OSHA 10-Hour Course on Construction Health and Safety

Publications and Presentations

Coyne K. Navigating BIM's legal landscape. Washington Building Congress, Washington, D.C., June 29, 2011.

Coyne K. Leveraging the power of 3D laser scanning and BIM. Washington Building Congress, Washington, D.C., February 25, 2011.

Coyne K. Integrated project delivery and BIM: essential tools for earning LEED certification. Panelist, U. S. Green Building Council's International Conference, Chicago, IL, November 18, 2010.

Coyne K. The latest trends in building information modeling (BIM). AACE International, National Capital Section Meeting, Alexandria, VA, January 22, 2009.

Coyne K. Leveraging the power of 4D models for analyzing and presenting CPM schedule delay analyses. AACE International Annual Meeting, Toronto, ON, June 30, 2008.

Coyne K. Streamlining projects through the use of virtual design and construction (VDC) tools. Construction Management Association of America New England Chapter Meeting, Boston, MA, March 11, 2008.

Coyne K. Leveraging the power of 4D models for analyzing and presenting CPM schedule delay analyses. Research Paper, AACE International Transactions, February 15, 2008.

Coyne K. Virtual design and construction: the current state of the art. AACE International, National Capital Section Meeting, Alexandria, VA, November 15, 2007.

Coyne K. Virtual design and construction: 4D modeling. AES Engineering and Construction Conference, San Francisco, CA, September 18, 2007.

Coyne K. 5D modeling and virtual cost estimating. American Society of Professional Estimators Chapter 21 Meeting, Baltimore, MD, May 17, 2007.

Coyne K. Building information modeling—Fact, fiction, or fantasy? Construction Superconference Panel, San Francisco, CA, December 8, 2006.

Coyne K. The effects of comparative 4D Models on schedule development and controls. Project Management Institute College of Scheduling 3rd Annual International Conference, Orlando, FL, April 25, 2006.

Coyne K. Construction defect claims in Virginia. Lorman Education Services Seminar, McLean, VA, March 31, 2006.

Coyne K. 4D modeling and design conflict analysis: issues facing users. Advanced Corporate Counsel Construction Forum, Washington, D.C., March 3, 2006.

Coyne K. The effects of comparative 4D Models on schedule development and controls. Research Paper, Project Management Institute College of Scheduling, December 15, 2005.

Coyne K. 4D scheduling applications. Society of American Military Engineers Conference, Seattle, WA, February 15, 2005.

Coyne K. Schedule analysis techniques in construction claims. AACE International Midwest Chicago Annual Seminar, Chicago, IL, May 7, 2004.

Coyne K. Construction cost estimating applications in CAD software. Honor's Thesis, University of Florida, Gainesville, FL, 2001.

Selected Project Experience

Academic and Research Facilities

Buildings 6, 6A & 6C, National Institutes of Health, Bethesda, Maryland
Food Science and Technology Center, Eastern Shore, University of Maryland

Government and Defense Facilities

Command Communications Survivability Program (CCSP), Pentagon, Washington, D.C.
Dining Facility, Fort Meade, Maryland
E. Barrett Prettyman United States Federal Courthouse, Washington, D.C.
Federal Bureau of Investigation Helicopter Hangar, Quantico, Virginia
Gatehouse & Security Upgrades, Humphreys Engineering Center, Fort Belvoir, Virginia
Joint Staff / Navy Swing Space Build-out, Pentagon, Washington, D.C.
Remote Inspection Facility, Fort Belvoir, Virginia
Renovation 2A1, Pentagon, Washington, D.C.
South Terrace Project, Pentagon, Washington, D.C.
United States Embassy, Kabul, Afghanistan
United States Embassy, Paris, France
United States Embassy, Rome, Italy
Veterans Administration Building, Las Vegas, Nevada

Health Care Facilities

Assisted Living and Skilled Nursing Facilities, Sibley Memorial Hospital, Washington, D.C.
Health Center Addition and Renovation, University of Maryland
Western Kentucky Veterans Center, Hanson, Kentucky

Industrial and Process Facilities

Blue Island Phenol Plant, Blue Island, Illinois
Huntsman Light Olefins Unit, Port Arthur, Texas
Shell Albion Oil Sands Muskeg River Mine, Alberta, Canada
Shell Albion Oil Sands Scotford Upgrader, Alberta, Canada
Suncor Energy Plant 52C-305, Alberta, Canada

Museums and Performing Arts Centers

Abraham Lincoln Presidential Museum, Springfield, Illinois
Ford's Theater Renovations, Washington, D.C.

Office Buildings, Retail and Multi-Use Complexes

BWP Distribution Warehouse, Strasburg, Pennsylvania
Germantown Swim Center, Germantown, Maryland
One Bank One Plaza, Chicago, Illinois
Discovery Channel Place, Silver Spring, Maryland
Re/Max International Headquarters, Denver, Colorado
Rockville Library, Rockville, Maryland
Station Place Project, Washington, D.C.

Residential and Condominiums

610 H Street N.W., Washington, D.C.
Bachelor Enlisted Quarters, Andrews Air Force Base, Maryland
Leesburg Residence, Potomac Station, Virginia
Penrose Square, Arlington, Virginia

Transportation

Bradshaw Interceptor Section 6B, Sacramento, California
Brightman Street Bridge, Fall River, Massachusetts
Compact Road Project, Babeldaob, Republic of Palau
I-90/I-93 Central Artery/Tunnel Project, Boston, Massachusetts
Las Vegas Beltway, Las Vegas, Nevada
Lee Roy Selmon Expressway, Tampa, Florida
Pre-Stressed Concrete Pipe Failure, Quakertown, Pennsylvania
Signal System Modernization and Enclosure, West End Line, Brooklyn, New York
South County Neighborhood Improvement Project, Miami, Florida
West North Loop Road, Fort Springfield, Virginia

Professional Affiliations

- American Society of Civil Engineers (member)
- National Society of Professional Engineers (member)
- Project Management Institute, Scheduling Community of Practice (member)
- Washington Building Congress (Chair of the Program and Education Committee)