



SARAH VAUGHAN-COOK, S.E., P.E.

PROJECT MANAGER

Licensure

Illinois Structural Engineering License No. 081.006954

California Professional Engineering License No. C 69343

Professional Experience

Project Manager

2016 - Present

KeliAnn Engineering (La Grange, Illinois)

Design and analysis of new buildings and renovations with steel, concrete, wood, and masonry.

Senior Engineer

2011 - 2014

Thornton Tomasetti (Chicago, Illinois)

Worked alone as well as in large project teams in the design, coordination, and construction of new building structures.

Senior Structural Engineer

2010 - 2011

URS Energy & Construction (Warrenville, Illinois)

Engineer

2007 - 2009

Forell Elsesser Engineers (San Francisco, California)

Participated in the design and drawing development on a variety of new and existing building projects. Gained broad experience in construction administration.

Senior Engineer

2004 - 2007

Simpson Gumpertz & Heger (San Francisco, California)

Responsible for the design and analysis of a variety of projects including biotech facilities, resort residences, and historic buildings. Conducted forensic analyses and in-field failure investigations and devised methods for repair.

Education

M.S. Structural Engineering, *Stanford University*

2003 - 2004

B.S. Structural Engineering, *University of California, San Diego*

2000 - 2003

Organizations

SEI National Technical Program Committee, 2013-Present

SEI Sustainability Committee – Chair 2010-2012, Member 2004-2014

SEAONC, Construction History Society of America

SARAH COOK PROFESSIONAL EXPERIENCE PRIOR TO KELIANN ENGINEERING

Project: Advanced Protein Crystallization Facility, Argonne National Laboratory, Engineer of Record: Thornton Tomasetti

- ◆ This 70,000 SF wet lab and conference area features architecturally exposed steel framing and a concrete Safe Room designed for FEMA tornado loads. Primary project engineer through Construction Documents. Responsible for all design and detailing.

Project: Epic Deep Space, Engineer of Record: Thornton Tomasetti

- ◆ A design-build auditorium with 11,000 seats, set into a 90-foot-tall hillside and featuring a green roof, steel and concrete lateral and gravity systems, and several independent structural systems and foundation interfaces.

Project: Taube-Koret Campus for Jewish Life, Engineer of Record: Forell/Elsesser Engineers Inc.

- ◆ Construction of a 12-building community center featuring a performing arts theater, gymnasium, child care center, offices and retirement housing. The campus consisted of two SCBF steel buildings, and eight concrete shear wall buildings with post-tensioned slabs adjoined by bridge structures. The campus sits atop an 8-acre sub-grade parking lot. Lead engineer for construction administration and design support.

Project: Wellington U.S. Embassy Chancery Building, Engineer of Record: Forell/Elsesser Engineers Inc.

- ◆ Designed an external seismic retrofit for a U.S. embassy using concrete shear walls and deep pile foundations around the perimeter.

Project: UCSF Institute for Regeneration Medicine Building, Engineer of Record: Forell/Elsesser Engineers Inc.

- ◆ A design-build project featuring a two-story 70,000 ft² base-isolated steel frame research laboratory for the University of California. The CBF superstructure spans between isolators atop raised concrete pile foundations along a hillside, and features laboratories, office space, green roofs, and exterior walkways.

Project: Saints Peter and Paul church Seismic Assessment and Retrofit, Engineer of Record: Forell/Elsesser Engineers Inc.

- ◆ Assessed performance and retrofit needs of a Catholic church constructed in 1923 using non-linear time history analyses. Prepared a retrofit scheme with the client's need for historical preservation in mind.

Project: Building Occupancy Resumption Program, Engineer of Record: Forell/Elsesser Engineers Inc.

- ◆ Project Engineer responsible for drawing review, assessment of building weaknesses, development of inspection procedures and randomized destructive testing program, report compilation, and served as the primary building inspector.

Project: Bay Creek Resort and Spa Cottages, Engineer of Record: Simpson Gumpertz & Heger, Inc

- ◆ New design of three two-story resort residences constructed of traditional wood framing. The project site was designed for hurricane wind loads using ASCE 7-05.