

HENRY V BURTON, PhD, S.E.

Objective

To structural peer review services for new building designs and existing building retrofits, seismic evaluation of existing buildings and seismic risk assessment of individual buildings and portfolios.

Selected Professional Accomplishments

Investigation of U.S. Building Code Structural Provisions for the American Institute of Steel Construction (AISC) (UCLA)

- Investigated the adequacy of the code-based approach to the design of structural steel buildings.
- Developed structural computer models of typical steel frame buildings.
- Performed reliability-based assessment of code provisions.
- Presented findings and recommendations to the AISC Committee on Research.

Peer Review Structural Engineering Services for 13-Story Apartment Building (Independent Consultant)

- Examined the criteria used as the basis for the design.
- Provided detailed feedback on the structural drawings.
- Reviewed the structural modeling and calculations, ground motion selection and scaling procedures and the physical testing of the damping system used in the building.

Consulted on Seismic Evaluation and Retrofit of Multifamily Woodframe Buildings (Independent Consultant)

- Reviewed structural design and construction proposals from potential engineers and contractors.
- Performed preliminary seismic assessments to determine retrofit needs.
- Provided detailed feedback on design calculations and drawings developed by engineers.
- Served as the owners representative and point of contact for engineers and contractors in addressing various technical issues.

Structural Design of Kaiser Oakland Acute Care Facility (Degenkolb Engineers)

- Member of the structural design team for a new thirteen story building with over half a million square feet of space using buckling restrained braces as the lateral system.
- Was responsible for the foundation design which comprised of a complex system of concrete grade beams, pile caps, piles and retaining walls.
- Provided construction administration services including coordination with the contractor, architect and the Office of Statewide Health Planning and Development (OSHPD).

Other Notable Accomplishments

- Structural design of new five story, 165,000 square feet, \$59 million medical office building for Kaiser Oakland (Degenkolb Engineers).
- Structural design of new three-story multigenerational community center building in West Sacramento (Degenkolb Engineers).
- Member of reconnaissance team for the 2010 Haiti earthquake (Degenkolb Engineers)
- Structural design of Outpatient Imaging and Women's Center at CHW Sierra Nevada Memorial Hospital (Degenkolb Engineers)
- Structural design of Stanford Law School academic building (Degenkolb Engineers)

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Employment History

August 2019 to Present	President	Burton Engineering Consulting Group, Culver City, CA
July 2014 to Present	Associate Professor, Assistant Professor	University of California, Los Angeles, CA
September 2010 to August 2014	Graduate Student Researcher	Stanford University, Palo Alto, CA
June 2004 to September 2010	Project Engineer, Design Engineer, Designer	Degenkolb Engineer, Oakland, CA

Education

May 2002	B.S. Civil and Environmental Engineering	Morgan State University, Baltimore, CA
June 2004	M.S. Civil and Environmental Engineering	Stanford University, Palo Alto, CA
August 2014	PhD Civil and Environmental Engineering	Stanford University, Palo Alto, CA

Professional Registration

Registered Professional Civil Engineer in California, Since 2006

Registered Professional Structural Engineer in California, Since 2009

Professional Memberships

Structural Engineers Association of California

American Society of Civil Engineers

National Society of Black Engineers

Earthquake Engineering Research Institute

References

Dr. Thomas Sabol, Principal Structural Engineer, Englekirk Structural Engineers, Tom.Sabol@englekirk.com, (323) 733 6673.

Dr. Marshal Lew, Principal Geotechnical and Earthquake Engineer, Wood Environment and Infrastructure Solutions Inc., marshall.lew@woodplc.com, (323) 889 5300.

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