Nominations Subcommittee Meeting of August 14, 2024

Agenda Item 3

From: skharris[redacted]
To: Harris, Sonya (DBI)
Cc: Yau, Willy (DBI)
Subject: Board of Examiners
Date: Wednesday, August 7, 2024 10:56:56 AM
Attachments: Stephen Harris Resume.pdf

Hello Sonya,

I understand from Willy Yau that there is an open seat on the Board of Examiners for a structural engineer. I would like to be considered for that position.
Please see my resume attached and forward my information to the BIC for their consideration. Please let me know if you need anything else.

Best Regards,

Stephen Harris, S.E.
[redacted]

Stephen K. Harris, S.E.

T: [redacted]
E: [redacted]

REGISTRATIONS

Structural Engineer

CA, HI

Civil Engineer

CA

EDUCATION

University of California, Davis, CA
M.S. in Structural Engineering, 1984

B.S. in Applied Physics, 1982

Stephen Harris has practiced structural engineering for over thirty-five years. His experience includes design of new structures, seismic strengthening of existing structures, foundation design and structural evaluations. Steve's noteworthy recent projects include the seismic upgrade of the historic War Memorial Veterans Building in San Francisco, the expansion, remodel, and seismic upgrade of the J. Paul Leonard & Sutro Library and San Francisco State University, design of 42 new Bachelor Enlisted Quarters buildings at USMC Base Camp, Pendleton, CA, and design of the 29-story, 199 Fremont Street office building in San Francisco, as well as the Perimeter Pile Upgrade for the Millennium Tower in San Francisco.

Experience

- Stephen Harris, Structural Engineer (Independent Consultant) San Francisco 2022 to present. Certified San Francisco LBE.
- Simpson Gumpertz & Heger Inc., San Francisco, CA. 2002 to 2022.
- ABS Consulting, EQE Structural Engineers Division, San Francisco, CA. 1986 to 2002.
- Lloyd McVicker & Associates Structural Engineers, Palo Alto, CA. 1984 to 1986.

Building design

- **Vivante Phase 3, Newport Beach, CA.** Design of a new 177,000 sq ft, six-story reinforced concrete senior living facility. The building incorporates post-tensioned slabs, and reinforced concrete core shear walls, as well as an indoor swimming pool in the basement.
- **Vivante Phase 2, Costa Mesa, CA.** Design of a new 163,000 sq ft, four-story reinforced concrete senior living facility. The building incorporates post-tensioned slabs, concrete shear walls, and reinforced concrete arches to provide column-free space for the multi-purpose room on the first floor.
- **La Clinica de la Raza, Vallejo, CA.** Design of a new single-story steel-frame structure with a full basement. The structure replaces an aging reinforced- and unreinforced-masonry building, the perimeter walls of which remain and are braced by the replacement steel building. The replacement structure employs shotcrete shear walls and steel braced frames.
- **Parking Structure for Bachelor Enlisted Quarters, Naval Base San Diego, CA.** Design of new six-level, 800-car garage with a total floor area of 270,000 sq ft. The structure incorporates post-tensioned concrete slabs, long-span beams and girders, and reinforced concrete moment-resisting frames.
- **J. Paul Leonard & Sutro Library, San Francisco State University, San Francisco, CA.** Design of a new three-story, reinforced-concrete building to house the automated Library Retrieval System (LRS). The building incorporates a 40 ft tall first-story to house the LRS, as well as conventional stacks in the upper two levels.
- **Bachelor Enlisted Quarters, USMC Base Camp Pendleton, CA.** Design of new housing for over 1,400 marines in 42, three- to five-story reinforced-masonry buildings encompassing over 700,000 sq ft. The project included performance-based seismic and anti-terrorism upgrades of three existing concrete buildings and the design of an 85 ft tall steel-frame training tower.

- **Genentech Building 3B Expansion, South San Francisco, CA.** Design of a new three-story, 30,000 sq ft lateral expansion of a biotechnology facility for a new small-scale, clinical manufacturing project. The expansion employs a system of steel moment-resisting frames and viscous-damping elements, which are designed to work in concert with similar elements designed and installed for the original facility's previous seismic upgrade.
- **199 Fremont Street, San Francisco, CA.** Design of a 29-story, steel-frame office building with three levels of basement. The building incorporates a dual-lateral system, comprising eccentrically braced steel frames and moment-resisting steel frames. Total gross floor area is approximately 500,000 sq ft. In order to provide column-free space at building setbacks, the building includes several, discontinuous columns that are supported by a series of nine-story-high Vierendeel trusses. The project included testing of moment-resisting frame connections, as well as nonlinear dynamic analysis to verify building behavior and performance .
- **San Luis Obispo New County Government Center, San Luis Obispo, CA.** Design of a four-story, reinforced-concrete office building with two levels of parking below grade. The structural system includes reinforced-concrete flat slabs and a perimeter-lateral system of coupled shear walls. The total structure includes approximately 220,000 sq ft .
- **Alameda County Recorder's Building, Oakland, CA.** Design of a 71,000 sq ft, four-story office building. This building incorporates an extremely efficient lateral-force-resisting system, comprising reinforced-masonry shear walls along the blind walls, in combination with steel-braced frames to reduce torsion. The building was constructed with only 7 psf of structural steel. Received the Design Build Institute of America's "Design-Build Excellence" Award .
- **Visitors' Pavilions, State Capitol, Sacramento, CA.** Design of two, new 1,500 sq ft entry- and security-screening facilities for the State Capitol. The buildings incorporate moment-resisting steel frames and steel roof trusses, which are architecturally exposed structural steel.
- **Martell Residence, San Francisco, CA.** Design of a new wood-frame, three-story, 6,000 sq ft hillside single-family residence.
- **Preschool for St. Stephen School, San Francisco, CA.** Design of a single-story wood-frame building for a new preschool. The project includes terraced reinforced concrete retaining walls in the play yard.
- **Eden Area Multi-Service Center, Hayward, CA.** Design of a new six-story, 180,000 sq ft office building to house the Probation Department, Social Services Agency, and other county departments. The building is a steel structure, with lateral resistance provided by eccentrically braced frames. An efficient structural-steel framing system uses approximately 11 psf of structural steel .
- **LifeScan Reagent Manufacturing Building, Milpitas, CA.** Design of a two-story manufacturing and laboratory building, incorporating a steel-frame roof and floors, as well as tilt-up, concrete perimeter walls. The building was designed and constructed in fast-track mode, with the construction complete only one year following the start of design .
- **Google Building 44 and American Century Investments, Mountain View, CA.** Design of two, low-rise steel-frame buildings for Mozart Development. These buildings were among the first in the area to use the eccentrically braced, steel-frame system .

Seismic upgrade

- **San Francisco War Memorial Veterans Building, San Francisco, CA.** Design of seismic upgrade and improvements of the four-story Beaux-Arts historic landmark building, built in 1932. The work included a non-linear response-history analysis incorporating shear wall rocking explicitly and ensuring enhanced seismic performance. The upgrade included reinforced concrete shear walls, horizontal bracing in the roof and attic, as well as improvements to the theatrical rigging, mechanical and electrical systems as well as functional and aesthetic upgrades. Received "Excellence in Engineering" awards from the Structural Engineers Association of Northern California, the Structural Engineers Association of California and the National Council of Structural Engineering Associations, as well as eight other design awards.
- **J. Paul Leonard & Sutro Library, San Francisco State University, San Francisco, CA.** Design of seismic upgrade and expansion of the six-story, reinforced-concrete library building, built in the 1950s and 1960s. The upgrade provides life-safety performance in the design-basis earthquake through the use of new reinforced-concrete shear walls, primarily on the exterior. The walls are integrated into the building's updated aesthetic design and form a feature of the new exterior appearance. Received "Excellence in Engineering" awards from the Structural Engineers Association of California and the National Council of Structural Engineering Associations.
- **Catholic Schools, San Francisco, CA.** Design of seismic upgrades for five schools: Holy Name School, St. Anne School, St. Cecilia School, St. Monica School, and St. Thomas the Apostle School. The schools were originally constructed in the early

twentieth century and are primarily of reinforced concrete construction, in some cases with wood-frame roofs and floors. Upgrades included improved diaphragm-to-wall connections, strengthened roof diaphragms, new concrete shear walls, as well as strengthening of concrete elements with carbon-fiber-reinforced polymer fabric composites. The work also included improvements for accessibility, such as ramps and lifts.

- **Frank E. Moss United States Courthouse, Salt Lake City, UT.** Design of seismic improvement of the stone façade attachment for a historic landmark building. The building was constructed in 1905 and expanded in 1912 and 1932. The building façade includes elements of granite, sandstone, brick masonry and granite over-cladding of sandstone. The façade attachment work included investigation and in-situ testing of existing attachments, as well as improvements in compliance with federal standards, incorporating the requirements of ASCE 41-17.
- **Genentech Building 3A/B, South San Francisco, CA.** Seismic upgrade of this critical biotechnology manufacturing facility built in the 1980s. The building is a three-story, steel moment-resisting frame structure with a twenty-two ft. high first story. The upgrade included the addition of a new concrete shear wall to resist seismic demands in the north-south direction and exterior buttresses that are connected to the building with viscous-damping elements to resist seismic demands in the east-west direction. The scope was developed in order to minimize construction within the interior of the facility, which is operational twenty-four hours per day and seven days per week. The upgrades provide Immediate Occupancy performance for the structure following a 500-year earthquake.
- **Greenlining Institute Headquarters, Oakland, CA.** Seismic Upgrade of a seven-story office building with a single-story rear portion, constructed circa 1928. The building is constructed of wood-frame floors, supported by steel beams, girders and columns. The exterior of the building is clad with partially reinforced brick masonry. The upgrade incorporated improved anchorage of the rear single-story walls to the low roof and the addition of full-height braced steel frames in the front and rear facades of the seven-story tower.
- **State of California Library and Courts Building, Sacramento, CA.** Seismic upgrade of this prestigious National Register Historic Building, a five-story structure, designed in 1922, with a total floor area of 193,000 sq ft. The building is clad with granite and terra-cotta and has a steel- and concrete-structural system, with unreinforced-brick, masonry infill at the exterior walls. The building was analyzed using a nonlinear-static-push analysis that incorporated the interaction of the masonry and the frame. The upgrade incorporated the addition of reinforced-concrete shear wall elements. Several other methods of upgrade, including seismic isolation, were studied. The upgrade also provided improved fire safety and humidity control for the State Library's collection of books .
- **Sacramento Memorial Auditorium, CA.** Seismic upgrade of historic building, constructed circa 1925. The building is constructed of reinforced-concrete beams, columns, and slabs, with unreinforced-masonry infill. The auditorium features a movable floor providing flexible seating for up to 4,000, as well as two smaller spaces: The Little Theater and Memorial Hall. The building was analyzed using a nonlinear, secant-stiffness-based, response-spectrum analysis that incorporated the interaction of the masonry and the frame. The upgrade included the addition of a horizontal steel truss to stiffen the flexible-roof diaphragm, as well as carefully placed concrete shear walls. The upgrade preserved the building's historic integrity while providing a level of seismic safety equivalent to the current building code .
- **City Hall, South San Francisco, CA.** Design of strengthening measures for a historic, unreinforced-masonry building built circa 1919. Strengthening measures included center coring the perimeter walls for improvement of in-plane and out-of-plane strength. The upgrades also included exterior buttresses at the rear, which were integrated into a new entry portal from the parking area .
- **San Mateo County Courthouse, Redwood City, CA.** Design of earthquake repairs and seismic upgrade of this historic courthouse. The building was built in 1906 and incorporated unreinforced-masonry walls with sandstone veneer, as well as reinforced-concrete slabs and steel framing .
- **First Unitarian Church, Berkeley, CA.** Seismic upgrade design of a highly irregular, tilt-up concrete structure. Strengthening designs were carefully developed so as not to impact the architectural character of the building. Custom-designed brackets and connectors were developed for use in areas open to view, in concert with the project architect .
- **PG&E Customer Service Center, Walnut Creek, CA.** Seismic upgrade of a reinforced-masonry structure with a wood-frame roof. Upgrades incorporated wall-to-roof anchorage, and shotcrete shear panels.
- **PG&E Telecommunications Center, Oakland, CA.** Seismic upgrade of a critical reinforced-masonry structure that functions as a communications hub for PG&E’s emergency response in the East Bay. Upgrades included installation of a horizontal-truss system within the structure to support the walls out-of-plane. Upgrades were accomplished while the facility was operational .

- **PG&E Service Center, Davis, CA.** Seismic upgrade of three buildings: the light-metal Office-Warehouse, the wood-frame Tool Shop, and the reinforced-concrete Auto Shop. Upgrade of the Auto Shop incorporated reinforcement of the roof diaphragm with fiber-reinforced polymer composite sheets.
- **PG&E Service Center, Eureka, CA.** Seismic upgrade of three concrete, tilt-up structures.
- **PG&E Learning Center, Livermore, CA.** Seismic upgrade of a steel-frame building, which had been constructed in several seismically independent sections. The upgrade included connections between the various sections with fiber-reinforced polymer composite sheets.
- **PG&E Customer Service Center, Livermore, CA.** Seismic upgrade of a wood-frame building including the addition and strengthening of plywood-shear panels.
- **PG&E Service Center, Fortuna, CA.** Seismic upgrade of a wood-frame building including the addition and strengthening of plywood-shear panels and a steel buttress.

Foundation design

- **301 Mission Street, San Francisco, CA.** Design of steel-cased concrete piles and the associated jacking and attachment system as part of the Perimeter Pile Upgrade of the 58-story, 645-foot-tall Millennium Tower. The piles have capacities of 1,000 kips each, are drilled to a depth of over 290 ft, socketed into Franciscan Rock.
- **Air Traffic Control Tower at San Francisco International Airport.** Design of over 200 auger-cast piles, with capacities up to 1,400 kips each, drilled to a depth of over 125 ft in bay mud. The project received Excellence in Engineering awards from the Structural Engineers Association of Northern California and the Structural Engineers Association of California. The project was honored as Northern California Airport/Transit Project of the Year by ENR Magazine.
- **Weill Center for Neurosciences (Block 23A) University of California, San Francisco, CA.** Design of over 450 piles to support a new critical research facility at UCSF. The foundation was designed explicitly to sustain the largest earthquake expected for the site. The design was subject to the University's external peer review.
- **Samsung USA Headquarters, San Jose, CA.** Design of over 2,400 auger-cast piles. The project was honored as Northern California Office/Retail/Mixed Use Project of the Year by ENR Magazine.
- **Lambach Residence, Kentfield, CA.** Design of foundation and substructure improvement for a hillside house, including seismic strengthening and resistance to sliding due to unbalanced soil pressure. The upgrade includes drilled piles and braced steel frames.
- **Martell Residence, San Francisco, CA.** Design of slope stabilization and foundations for a 6,000 sq ft hillside house, replacing a previous home that was destroyed by a landslide. The new foundation system includes three levels of rock anchors and drilled soldier piles.
- **Genentech Building 51, South San Francisco, CA.** Design of the foundation system and substructure for a new 40,000 sq ft, two-story, fill-and-finish facility. The superstructure is of modular construction, designed and fabricated in Sweden by Pharadule Emtunga. The building and its substructure were designed to provide immediate operation of the facility following a major earthquake. Mr. Harris' design incorporated the auger-cast piling, the ground-level structural slab, and the module-support system.
- **IKEA store, Burbank, CA.** Design of over 2,500 auger-cast piles for a retail store with a footprint area of nearly 800,000 sq ft.
- **San Francisco 49ers Levi's Stadium, Santa Clara, CA.** Design of over 3,000 auger-cast piles.
- **Facebook Building MPK20, Menlo Park, CA.** Design of over 3,300 auger-cast piles.
- **Facebook Building MPK21, Menlo Park, CA.** Design of over 3,000 auger-cast piles.
- **Facebook Building MPK22, Menlo Park, CA.** Design of over 1,000 auger-cast piles, including a separate bridge connecting to MPK21.
- **HB at Edinger, Huntington Beach, CA.** Design of over 1,600 auger-cast piles for new multi-story residential buildings and parking garage.
- **Bella Terra, Huntington Beach, CA.** Design of over 1,700 auger-cast piles for new multi-story residential buildings, retail buildings, and parking garage.

- **Liberty Station, San Diego, CA.** Design of auger-cast piles, pile caps, grade beams, and grade-level structural slabs for four hotel buildings and four retail buildings. The project included over 700 piles.
- **Cottonwood Christian Center, Cypress, CA.** Design of auger-cast piles, pile caps, and grade beams for three church buildings. The project included 640 piles.
- **Salz Tannery Redevelopment, Santa Cruz, CA.** Design of auger-cast structural piles and ground-improvement piles to mitigate liquefaction and lateral spreading. The project included over 1,000 piles.
- **Tesoro Refinery, Salt Lake City, UT.** Design of auger-cast piles, reinforced concrete ring beam and reinforced concrete mat foundation for two new 50,000 BBL tanks.
- **BART MacArthur Transit Village Garage, Oakland, CA.** Design of over 200 auger-cast piles to resist both gravity loading and lateral earth pressures due to a retaining wall condition.
- **OM Symphony, Honolulu, HI.** Design of over 240 auger-cast piles, with axial capacities exceeding 750 tons.
- **City Creek Redevelopment, Salt Lake City, UT.** Design of over 850 auger-cast piles, each with a capacity of 450 tons.
- **DuPont Fabros Data Center, Santa Clara, CA.** Design of over 1,000 auger-cast piles.
- **MacArthur Place Lake Site, Santa Ana, CA.** Design of over 1,150 auger-cast piles for a new residential tower.
- **Terra Serena in Milpitas, CA.** Design of over 1,000 auger-cast piles for three new multi-story residential buildings.
- **United States Federal Office Building, San Francisco, CA.** Design of over 1,000 auger-cast piles for a new office tower.
- **500 Capitol Mall, Sacramento, CA.** Design of over 350 auger-cast piles for a new office tower.
- **ATI Wah Chang Titanium Sponge Plant, Rowley, UT.** Design of over 3,000 auger-cast piles for a new manufacturing plant.
- **Palo Alto Medical Foundation Campus, San Carlos, CA.** Design of over 1,500 auger-cast piles for a new hospital, utility plant, medical office building and parking garage. The project was reviewed by the California Office of Statewide Health Planning and Development.
- **UC San Francisco Mission Bay Campus, San Francisco, CA.** Design of over 1,000 auger-cast piles for the new Hospital, Outpatient Building, and Energy Center. The project was reviewed by the California Office of Statewide Health Planning and Development.
- **Alta Bates Hospital, Oakland, CA.** Design of over 440 auger-cast piles for a new Patient Tower. The project was reviewed by the California Office of Statewide Health Planning and Development.

Analysis and assessment

- **Seismic Evaluation and Preliminary Upgrade Designs of Private Schools for the Archdiocese of San Francisco, CA.** Evaluation of 26 buildings at 12 schools, as required by San Francisco Building Code Section 3428, Administrative Bulletin AB-109, and ASCE 41-13 – Seismic Evaluation and Retrofit of Existing Buildings. The school buildings include structures of reinforced concrete, wood-frame, and steel-frame construction.
- **Vibration Analysis for installation of new Sports Medicine Facility, 1600 Owens Street, San Francisco, CA.** Analysis of a new steel-frame office building for vertical vibrations due to fitness activities on an upper floor. Analyzed imposed vibrations and extrapolated through structural analyses to make recommendations locations for equipment locations.
- **Vibration Analysis for MRI Installation, 1600 Owens Street, San Francisco, CA.** Analysis of a new steel-frame office building adjacent to train tracks for vertical vibrations transmitted through the ground and the structure. Made recommendations for supplemental and modified framing to reduce vibrations in MRI suite.
- **Seismic Analysis of Kaiser Santa Teresa Hospital, San Jose, CA.** Analysis of a seven-story, early 1970s reinforced-concrete structure to demonstrate compliance with State of California safety requirements (SB 1953). Analysis incorporated a complete nonlinear response history of seven postulated earthquakes for the site. The model incorporates nonlinear behavior of the shear walls, diaphragm connections, and batter-pile foundations.
- **Seismic Analysis and Preliminary Upgrade Design, Sacramento City Hall, CA.** Analysis and development of preliminary upgrade designs of a historic, three-story, unreinforced masonry bearing wall building with concrete-slab floors. Analyses were accomplished with a nonlinear-static procedure; proposed upgrades included addition of concrete shear walls, center-coring walls at the clock tower, and seismic isolation .

- **Preliminary Risk Assessments and Seismic Upgrades for Tilt-Up Structures for Cabot Industrial Trust throughout CA.** Pre-acquisition review and risk assessment of over fifty buildings and seismic upgrade of over thirty buildings. Upgrades were performed to the provisions of the 1997 UBC or equivalent .
- **City of Seattle Seismic Hazard Program, WA.** Seismic evaluation of eighty-three City of Seattle municipal facilities, as well as, consultation on risk management and strengthening programs. Conceptual upgrades and cost estimates were developed for twenty-five of the buildings. Buildings included the Public Safety Building, Municipal Office Building, fire stations, and branch libraries .
- **District-Wide Master Seismic Survey, Fremont Unified School District, CA.** Risk and safety assessment of school buildings at thirty-five sites throughout the district. The project included development of conceptual upgrade measures and costs for upgrades .

Peer review

- **30 Van Ness Avenue, San Francisco, CA.** Structural peer review of a new 46-story mixed-use concrete building. The project incorporates performance-based design, including non-linear response-history analysis. The project is immediately adjacent to the Market Street BART and Muni tunnels, requiring special consideration of the foundation/tunnel interaction.
- **Transbay Parcel F, San Francisco, CA.** Structural peer review of the excavation and shoring system for a new high-rise building with an excavation depth of 64 feet. The excavation is irregular in plan shape and is adjacent to the existing train box underneath SalesForce Transit Center. Excavation support includes CDSM shoring walls, steel walers and four levels of horizontal steel cross-lot and diagonal bracing.
- **Stonestown Galleria Anchor Building Reconfiguration, San Francisco, CA.** Structural peer review for modifications and seismic upgrade of a 1950s reinforced concrete building. The structure included new reinforced concrete shear walls and new foundations.
- **1314 Franklin Street, Oakland, CA.** Structural peer review for a new reinforced concrete residential tower project. The project includes a new high-rise tower and adjacent podium structure and is supported on deep foundations. The project incorporates performance-based design, including non-linear response-history analysis.
- **706 Mission Street, San Francisco, CA.** Structural peer review for a new reinforced concrete residential tower project. The project includes a new high-rise tower and modifications to an adjacent historic tower. The project incorporates performance-based design, including non-linear response-history analysis.
- **800 Presidio Avenue, San Francisco, CA.** Structural peer review for the design of a new mixed-use facility for the Booker T. Washington Community Center. The project includes elements of wood-frame and steel-frame, supported on a common reinforced concrete podium.
- **1563 Mission Street, San Francisco, CA.** Structural peer review for the design of performance-based adaptive reuse and seismic upgrade of a five-story reinforced concrete building for the use of Healthright360.
- **Lumina, 201 Folsom Street, San Francisco, CA.** Structural peer review for a new 655-unit, reinforced concrete residential tower project. The project includes two high-rise towers, two low-rise buildings, a podium and below-grade parking. The two high-rise towers incorporate performance-based design, including non-linear response-history analysis.
- **Metropolitan Club, San Francisco, CA.** Structural peer review for the design of seismic upgrades of the Historic Metropolitan Club Building. The building includes a steel, gravity-load frame with unreinforced-masonry infill. Seismic upgrades included new interior concrete shear walls, replacement of second-floor transfer trusses with post-tensioned-concrete girders.
- **Genentech Building 50, South San Francisco, CA.** Structural peer review for the design of a new four-story, 168,000 sq ft process development facility. The project includes steel moment-resisting frames and viscous-damping elements.
- **Chiron Corporation, Building Three, Emeryville, CA.** Structural peer review for the design of Chiron Building Three, a seven-story, biotechnology manufacturing facility, which is designed for enhanced-seismic performance and incorporates buckling restrained-braced frames .

Earthquake investigations

- **1986, Alum Rock, San Jose, CA.**
- **1987, Whittier, CA.**

- **1989, Loma Prieta, CA.**
- **1989, Newcastle, Australia**
- **1993, Island of Guam.**
- **1994, Northridge, CA.**

Professional activities

- **City and County of San Francisco, Department of Building Inspection.** Vice Chair of Code Advisory Committee and Chair of Code Advisory Structural Subcommittee.
- **Structural Engineers Association of Northern California.** Former Board of Directors and Former Chair of Seismology Committee.
- **United States Building Seismic Safety Council.** Former Chair, Issue Team 7 – Foundation Soil Interface.

Publications

- B. Lizundia, T. Ancheta, C. Crouse, R. Hanson, S. Harris, A. Hortacsu, B. Jeremic, M. Mahoney, L. Star, J. Stewart, and M. Valley - "Improved Design Guidance for Soil-Structure Interaction," *17th World Conference on Earthquake Engineering*, Sendai, Japan, September 2020.
- Harris, S.K. and B.A. Mohr, 2017 – "Protecting a Landmark – The War Memorial Veterans Building," *Structure Magazine*, September 2017.
- J. A. Sánchez, B. A. Mohr, S. K. Harris, A. Aviram and C. B. Goings - "Parametric Study of Steel Moment Frames Considering Foundation Rocking," *16th World Conference on Earthquake Engineering*, Santiago Chile, January 2017.
- Zuckerman, B.R., S.K. Harris, P.J. Meymand, D.M. Steinmetz, and C.A. Alvarez, 2015 – "San Francisco International Airport Air Traffic Control Tower Pile Foundations," *Deep Foundations Institute Convention Proceedings*, Oakland, CA.
- Mohr, B.A., and S.K. Harris, 2015 – "The Shocking Secrets of Rocking Shear Walls," *Structure Magazine*, SEAOC Convention Proceedings, Seattle, WA.
- Mohr, B.A., and S.K. Harris, 2011 – "Marrying Steel to Concrete: A Case Study in Detailing," *Structure Magazine*, November 2011.
- McCormick, D.L., S.K. Harris, S.T. Bono and D. Bonowitz, 2009 – "Evaluation and Retrofit Provisions for Bay Area Soft Story Wood-Frame Buildings," *ATC-SEI Conference on Improving the Seismic Performance of Existing Buildings and other Structures*, San Francisco, CA.
- Mohr, B.A., S.K. Harris, 2009 – "A New Method for Collector Design in Stiff Diaphragms," *SEAOC Convention Proceedings*, San Diego, CA.
- Hamburger, R.O., S.K. Harris, S.C. Martin, D. McCormick, and P. Somerville, 1997. "Response of Tilt-up Buildings to Seismic Demands: Case Studies From the 1994 Northridge Earthquake," *Proceedings of the CUREe Northridge Earthquake Research Conference,* Los Angeles, CA.
- Egan, J.A., S.K. Harris, 1992 – "Effects of Ground Conditions on the Damage to Four-Story, Corner Apartment Buildings," The Loma Prieta, CA, Earthquake of 18 October 1989 – Marina District. *U.S. Geological Survey Professional Paper 1551-F. T.D.* O'Rourke, Ed.
- Kennedy, R.P., S.K. Harris, S.A. Short, J.R. McDonald, M.W. McCann, Jr., R.C. Murray, and J. Hill, 1990, *Diaphragms Chapter, University of California Research Laboratory (UCRL 15910)* – "Design and Evaluation Guidelines for Department of Energy Facilities Subjected to Natural Phenomena."
- S.K. Harris, C. Scawthorn and J. Egan, 1990 – "Damage in the Marina District of San Francisco in the 17 October 1989 Loma Prieta Earthquake," prepared for the *Eighth Japan Earthquake Engineering Symposium*, Tokyo, Japan.
- Griffin, M.J. and S.K. Harris, 1990 – "Australian Earthquake Provides Lessons for U.S. Construction Market," Modern Steel Construction, March-April 1990, *American Institute of Steel Construction*, Chicago, IL.

San Francisco Building Inspection Commission
c/o Ms. Sonya Harris
49 South Van Ness Avenue, Suite 500
San Francisco, CA 94103
dbi.commision@sfgov.org

Re: Structural Engineer Seat
Board of Examiners

Dear Commissioners:

I am applying for the Registered Structural Engineer seat on the Board of Examiners. I am currently serving in the position of the Seismic Improvement seat on the Board of Examiners.

I am a San Francisco resident, small business owner, and father of four children, three of whom attend school in the city. Additionally, I serve as the Chair of the SEAONC Professional Practice Committee, which in part has afforded me the opportunity to serve in a liaison capacity with DBI's Technical Service Division to assist with the development of administrative bulletins and information sheets, such as P-05 and updating AB-46.

I served on SEAOC's Existing Building Maintenance & Assessment Advisory Committee and am scheduled to co-present at the SEAOC Convention this September regarding SB 721 and SB 326 (Deck/Balcony Inspections). I also serve as a Subject Matter Expert for the California Board of Professional Engineers, Land Surveyors and Geologists. In that capacity, I have assisted with the development and grading of the structural and seismic exams for the State of California.

I appreciate your consideration of my qualifications. It would be an honor to continue serving our city and contribute my technical and professional expertise on the Board of Examiners.

Sincerely,

David Kane, S.E.
[redacted]
Email: [redacted]
Tel: [redacted]

DAVID KANE, S.E.
[redacted]
San Francisco, CA 94111
Email: [redacted]
Tel: [redacted]

STRUCTURAL ENGINEERING EXPERIENCE

Structural engineer with over 20 years of experience. Engineer of record for hundreds of projects in San Francisco including retrofits, remodels, and new construction of apartments, condominiums, single-family homes, schools, commercial, industrial, institutional, and medical buildings.

Licensed Civil and Structural Engineer in California and licensed to practice engineering in Washington, Oregon, Nevada, and Georgia. Certified as a Model Law Structural Engineer by the National Council of Examiners for Engineering.

EDUCATION

M.S. Civil Engineering	University of California	Davis, CA
B.S. Civil Engineering	Georgia Institute of Technology	Atlanta, GA

EMPLOYMENT HISTORY

2010-Present	Managing Principal	Harrell Kane Structural Engineers	San Francisco, CA
2006-2009	Vice-President	Shull & Kane Structural Engineers	San Francisco, CA
2004-2005	Project Engineer	Summit Engineering	Santa Rosa, CA
1999-2003	Project Engineer	Kamelhair & Shull Structural Engineers	Atlanta, GA

STRUCTURAL ENGINEERING COMMITTEE EXPERIENCE

2013-Present	Member and current Chair of the SEAONC Professional Practice Committee
2017-Present	Member of the SEAOC Professional Practice Committee
2021-Present	Member of the SEAOC Existing Building Maintenance & Assessment Advisory Committee
2009-Present	Subject Matter Expert to the California Board for Professional Engineers

ADDITIONAL PROFESSIONAL AFFILIATIONS

Member of the Earthquake Engineering Research Institute, Structural Engineers Association of Northern California, American Society of Civil Engineers, American Concrete Institute, American Institute of Steel Construction, and Concrete Reinforcing Steel Institute.