



President's Message

It's the beginning of the SEAONC year and with that, a change in leadership. First and foremost, on behalf of the Board and Membership, I express deepest gratitude to outgoing President Darrick Hom, for leading SEAONC with grace and care, and to outgoing Past President Colin Blaney, Treasurer Lisa Cassidy, and Directors Wayne Low and Wendy Allen for their contributions and commitment.

Second, a warmest welcome to our new Board members, Vice President Dick Dreyer, and Directors Karl Telleen, Marguerite Bello, and Laura Whitehurst. We look forward to your energy and ideas.

Another heartfelt thank-you goes to nominated Board candidates Kevin Morton, Ben Mohr, and Duke Crestfield. Since SEAONC bylaws require Board elections to be contested, accepting a nomination is a true test of character and dedication to the Association. Each of you has already served SEAONC in other capacities, and we look forward to your continued participation going forward.

We are so lucky to work in a purposeful profession, toward a common goal of a safer world. SEAONC is how we broaden that sense of purpose, bringing impact and value to structural engineering. Through SEAONC, we:

- learn from each other,
- advance the state of the profession,
- elevate how we are perceived,
- form alliances that expand our horizons, and
- have fun!

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Meeting Notices

**SEAONC
Dinner Meeting**

**Tuesday, August 4, 2015
@ 5:30pm**

**City Club
San Francisco**

Charles De Maria



SEAONC lost one of our most revered and long serving members this year when Honorary Member and Past SEAONC President Charles De Maria passed away at his home on March 7th. Charles joined SEAONC in 1950 and continued to participate to the end of his life, annually attending the SEAONC June Business Meeting where he sat in his familiar first chair amongst the participating Past Presidents.

Charles De Maria served as SEAONC President in 1959 and in 2007 was awarded the H.J. Brunner Lifetime Achievement

for his impressive body of work. The namesake of the award was especially fitting given he was a former partner of H.J. Brunner Associates where he had made his career after coming to work for Henry Brunner in 1941.

His accomplishments were many, including being the primary structural engineer for earthquake design on the iconic 52-story Bank of America Building (555 California Street) in San Francisco, the tallest building in California upon completion in 1969 and currently still the largest by floor area in San Francisco. He was also the design engineer of an award winning design for the Squaw Valley ice rink, the Blythe Sports Arena with its cable-supported roof, for the 1960 Winter Olympics. The location of the current SEAONC office, 575 Market Street, is also a building designed by Charles.



Blythe Olympic Sports Arena at Squaw Valley in 1959

Charles was born in 1918 in McKeon, CA, to Clement John De Maria and Annie Mary De Maria (Ferrier). He graduated from Placer Union High School in 1935, at the age of 16, in the depth of the Great Depression. In 1935, there were few jobs, and there was little hope of going to college given the cost of tuition. In the fall of 1936, Placer Junior College was started in the high school at Auburn. He was

able to attend at very little cost. After working with his brother and dad mining gold in the Mother Lode area, his father was able to give him \$500 for

SEAOC Convention

**SEAOC Rocks!
Seattle 2015 Convention**

September 9-12, 2015

Bellevue, Washington

Register [here!](#)

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President's Message (Cont. from Page 1)

The life blood of SEAONC is [our committees](#). The experience of participating in a committee surpasses anything that can be found through mere internet searches. Even if SEAONC committees no longer serve as the primary source of updated code provisions, SEAONC committees engage our communities and bring value in countless other ways, which I will showcase in forthcoming Presidents' messages.

If you haven't browsed [our committees](#) recently, take a moment to do so now. If you've looked but haven't found one that is right for you, don't hesitate to start a new one!

On a more sober note, the recent tragic balcony collapse in Berkeley is one example where structural engineering – and many other disciplines – come under public scrutiny. The City of Berkeley recently released a [preliminary report](#), and SEAOC has circulated a list of resources of possible interest. Existing regulations are likely to be evaluated, to determine if changes are appropriate. It is important that this discussion take place over sufficient time to consider the multiple issues and systems that interact in balconies and similar structures. SEAONC and SEAOC will be exploring ways to contribute to this discussion and offer assistance to the City of Berkeley, in collaboration with other professional organizations. Interested members can contact [myself](#) or the [SEAONC office](#) to engage in the process.

Last but certainly not least, by now you should have received an email notification for renewal of your SEAONC membership. Please take the time right now to go online or contact the SEAONC office to renew your membership. (Then we won't have to pester you later!) We thank you for your continued membership, and look forward to your continued participation.

In closing, it's my privilege to take a turn serving as President, and I pledge to take responsible care of our professional legacy, as have each of the others before me.

Respectfully,
Kate Stillwell
SEAONC President

each of two years at the University of California, Berkeley. He chose Civil Engineering as his major, which required an extra year of school as he lacked some of the lower division courses necessary for the junior year. He graduated on May 24, 1941 with a Bachelor of Science degree in Civil Engineering.



Bank of America Building, 555 California, during construction in 1968 (courtesy of EERI)

At that time H.J. Brunner was a member of a huge joint venture that had a Navy contract to upgrade and expand all the naval facilities in the Panama Canal Zone. Thanks to a professor at Berkeley, Charles was recommended to Brunner as a structural draftsman. Two days

after graduation, he obtained a passport and permission from the Draft Board to leave the U.S. for defense-related work in Panama. In November of 1942, he was notified that his draft board exemption was ending. He applied to the Navy Civil Engineering Corps, and on January 12, 1943 became an officer in the Construction Battalion – now known as the Seabees.

After the war, he went back and continued to work for Brunner, another SEAONC icon who introduced Charles to the organization, and eventually became a partner. In 1948, Charles married Connie Harder and they lived in San Francisco and Burlingame until moving to their home in Atherton in 1957. He is survived by his son Glen and wife Cheryl, daughter Jill, granddaughter Shannon and husband Neil, several nieces and nephews and their family. Jill should be sincerely acknowledged by all for escorting Charles to many Annual Meetings in his later years so he could continue to share the camaraderie of those he mentored and be recognized by all the SEAONC members his work and dedication inspired.



Charles De Maria at work on designs, 1969

Charles De Maria will be fondly remembered as a true legend of SEAONC and the profession. To learn more about his wonderful story and contributions, we urge you to refer to his oral history piece with EERI that covers his success, as well as those of Henry Brunner at: <https://www.eeri.org/site/images/projects/oralhistory/brunner.pdf>

June 2nd Annual Business Meeting Re-Cap



Past Presidents spanning seven decades along with Fellows, Honorary and Life Members were on hand as the 2014-2015 SEAONC year was celebrated at the June 2nd SEAONC 2015 Annual Business Meeting at The City Club in San Francisco. Prior to the gavel being passed by outgoing President Darrick Hom to incoming 2015-2016 President Kate Stillwell, the SEAONC assembly honored five members for their outstanding achievements and contributions to the structural engineering community. These awards included Honorary Member, SEAONC Fellow, the Edwin G.

Zacher Award, the H.J. Brunnier Lifetime Achievement Award, and the Helmut Karwinkler Award, as summarized below.

The evening included the introduction and acknowledgement of Past Presidents, Fellows, and Honorary and Life Members attending the dinner event. Outgoing President Darrick Hom chaired the evening events, and provided a summary of the past year highlights. Additionally, Young Members Forum representative Melissa Vickery announced the results of those elected by the membership to the Board of Directors for the next two years. In addition to President Kate Stillwell, these include Vice President Richard Dreyer, and Directors Marguerite Bello, Karl Telleen and Laura Whitehurst, will join continuing Board Directors Ray Lui, Greg Luth, and Brian McDonald. Outgoing President Darrick Hom further acknowledged and thanked Past President Colin Blaney, as well as outgoing Directors Lisa Cassedy and Wendy Allen for their hard work and contributions over the past two years. In accepting the gavel, Kate Stillwell acknowledged the significant contributions and hard work of outgoing President Darrick Hom, who will remain on the Board this coming year, noting in particular his many accomplishments in supporting continuing education for the Association.



The following includes a description of the 2015 Honor Awards and a brief summary of the accomplishments of each recipient.

2015 Honorary Member Recipient: Maryann Phipps

An Honorary member is named "in special recognition of the person's contribution to the excellence of the structural engineering profession." An honorary member is considered a higher honor than Fellow and recognizes a member's longstanding involvement in the structural engineering profession.

The Award was presented to Maryann Phipps by Edwin Zacher Award Recipient Joe Maffei.

2015 SEAONC Fellow Recipient: Peter Lee

According to the SEAONC Bylaws, "A FELLOW shall be a Member SE so designated by the Board of Directors in recognition of outstanding service to the Association and accomplishments in the field of structural engineering. S/he shall have been a member in good standing for 15 years."



The Award was presented to Peter Lee by SEAOC & SEAONC Fellow and Past President Doug Hohbach.

2015 Edwin G. Zacher Award Recipient: Laura Whitehurst



A recipient for the Edwin G. Zacher Award for outstanding recent service and contribution to the Association. The Zacher award is intended to acknowledge those individuals members who have made significant contributions to our organization, such as through exemplary committee participation and leadership.

The award was presented to Laura Whitehurst by SEAONC Fellow and Past President Rafael Sabelli.

2015 H. J. Brunnier Lifetime Achievement Award Recipient: Mark Sarkisian

A recipient for the H.J. Brunnier Lifetime Achievement Award for outstanding achievement in structural engineering design. The award is intended to honor an individual's entire body of work.

The Award was presented to Mark Sarkisian by SEAONC Fellow and Past President Peter Lee.



**2015 Helmut Krawinkler Award
Recipient: Jon Heintz**

A recipient for the Helmut Krawinkler Award for outstanding leadership in implementing state of the art research into practice. The award is presented to acknowledge those individual members (academia or practicing engineers) who have applied and adapted pioneering academic research to the structural engineering practice. In the Krawinkler tradition, the award winner is encouraged to foster the education of the profession by giving seminars at a SEAONC dinner meeting and 1 to 2 other local universities or colleges as suggested by the Board of Directors.



The Award was presented to Jon Heintz by SEAONC Honorary and Past President James Malley.



Help Nepal By Training Nepali Engineers

Nepal has started the recovery process. One of the biggest needs is engineering services, but their engineers do not have much experience in retrofitting techniques. If you have experience in seismic retrofitting and are interested in teaching a short course to Nepali engineers in Kathmandu, please contact Laura Whitehurst at lwhitehurst@walterpmoore.com.

All expenses would be covered by Co-Efficient Consulting, a Nepali structural engineering company in the Kathmandu Valley.

NB: Most construction in Nepal is reinforced concrete or unreinforced masonry; wood and steel are less common.

Letter to the Editor

Editor's note: This letter has been significantly edited for length. The full text is viewable at www.shearwalls.com. The letter makes reference to the text of an email from the SEAONC office to membership dated June 18, 2015. The full text of the email can be found [here](#). The President's message above includes an update on SEAONC's follow-up activities related to the Berkeley balcony collapse.

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by Thor Matteson, SE

Regarding the calamitous Berkeley balcony collapse, on June 18th SEAONC sent out an e-mail that ended with the following:

*You may have family, friends and neighbors who may be concerned about their own balconies or decks. ... **Reassure them that the building codes used to design their balconies and decks are adequate.***

Few engineers held the code requirements or structural design of the Library Gardens balcony in suspicion, even before seeing photos of severely decayed wood structural members. Design requirements and methods for cantilevered balconies are relatively simple; unfortunately, flashing and water-proofing details are not.

Independent home inspectors see faulty waterproofing over balconies with disturbing frequency—perhaps the majority of the time—rather than as isolated incidents. A complete water-proofing system should include at least the following (working upward from the decking, which the engineer often views as the last part of his or her responsibility): Water-proofing membrane and required primer or adhesive; drainage mat to provide a capillary break and promote movement of water toward a drain or balcony edge; protective surface that may include pavers, mortar bed and tile, poured concrete, etc.

The Berkeley balcony collapse had little to do with the structural requirements in the building code. When our designs rely on water-proofing systems that are designed by others,...then we need to change our designs so they will more likely survive water infiltration.

Let's not wait for code changes before improving our design practices. I suggest that balconies in dangerous locations (for example: greater than a particular height, or above building exits, assembly areas, or other decks or balconies) be designed with exposed structural framing that can be easily inspected and maintained. (This would introduce some slight complications when fire-resistive construction is required.) Another option might be requiring steel framing, with the hope that even compromised steel members would fail in a ductile manner.

Recap of the Mini-Seminar on Private Schools Seismic Evaluation

On Monday, June 8th, the Disaster Emergency Services and Continuing Education Committees jointly hosted a mini-seminar on San Francisco's program for Earthquake Evaluation of Private School Structures, with presentations by Laura Samant and David Bonowitz. Laura discussed the policy side of things; why private schools are at risk, how this compares to public schools, what the public's perception is of this risk, and options for how San Francisco could mitigate it. David discussed the more technical aspects of the evaluation and the ordinance wording.

The divide between private and public schools essentially happened with the enactment of the Field Act in 1933. As a result of the Long Beach earthquake in the same year, a large number of public schools were either destroyed or highly damaged. With the passage of the Act and subsequent related Acts, public schools built prior to 1933 had to be retrofitted, and new schools were built according to higher standards. Meanwhile, private schools were being designed and built according to San Francisco's building code, with no special considerations. Up until 1948, San Francisco actually had no seismic provisions in the code (other than forbidding unreinforced masonry construction in the mid-1930's), and despite periodic updates over the years, regulations for public and private schools remained different. In 1984, San Francisco adopted California's building code, which included lessons from the 1971 San Fernando earthquake, but the provisions for public and private schools were still separate and implemented by different agencies.

In addition to the higher risk, San Francisco in particular faces higher consequences; a third of all students in the city attend private school. By compiling an unofficial list of private schools, the working group identified attributes of the private schools that would influence policy options. The schools ranged in size from less than 25 students to over 1500, some buildings were owned while others were rented, many were originally designed for non-school uses, each had access to a different amount of funding, and construction dates went from the present back to the late 1800's.

After a triage process, and working with the many stakeholders, it was determined that the most appropriate way forward was to require seismic evaluations of private schools. The final version of the ordinance was the result of compromises on all sides to ensure that the greatest good could be done without imposing excessive burdens. Some of the key differences between the final product and the working group's recommendations include:

1. Requiring evaluations for private schools with 25 or more students rather than all private schools.
2. Requiring evaluations focused solely on safety rather than safety and recovery.
3. Offering rewards for retrofits meeting minimum safety criteria rather than public school criteria.
4. Having the results of the evaluations only in a technical format rather than compiling it in layman's terms for the public.

This program is one of many in achieving the goal of a more resilient San Francisco. For more information, please see the Earthquake Safety Implementation Program (ESIP) [30 year plan](#).

Ashley & Vance Engineering

Job Title: Project Engineer- Structural

Job Description: Position involves working on various residential and commercial projects utilizing conventional wood framing, steel, masonry and concrete from initial concept throughout construction. All work will be performed under the direct supervision of a licensed SE. Ashley & Vance Engineering offers a competitive benefits package including health, 401k, overtime, and PTO. Pay will be commensurate with experience. Interested candidates should submit a resume and cover letter via email with "SEP Resume - Oakland" in subject.

Job Requirements:

- B.S. degree in Civil Engineering (w/ Structural Emphasis) or
- B.S. degree in Architectural Engineering
- 2 to 5 years of related experience in:
 - framing layout & design
 - foundation design
 - preparation of plans & details
 - interfacing with clients, contractors & government agencies

Candidates should be familiar with applicable California Building Codes and experience with ASCE 31/41 is a plus. Although we are seeking someone with 2-5 years experience, candidates who are recent graduates with strong internship experience are encouraged to apply. Ability to clearly and professionally communicate directly with clients and contractors is required. Candidate must work well independently or in a team atmosphere with other A/E/C design professionals and contractors. Contact us about this job by sending an email to matthew@ashleyvance.com

PARADIGM Structural Engineers, Inc.

Job Title: Staff Engineer

Job Description: PARADIGM currently has openings for 2 staff engineers. PARADIGM offers engineers the opportunity to take a prominent role in producing projects that are both exciting and challenging. PARADIGM's supportive atmosphere and knowledgeable staff combine to promote the professional development of each member of our team. Our compensation packages are commensurate with demonstrated ability and are recognized as being in the upper quartile of the industry. Isn't it time you discovered the new standard? Visit our website at paradigmse.com for more information.

Job Requirements: Minimum BS in Civil Engineering, preferred MS in Structural Engineering.

Contact us about this job by sending an email to jyokoyama@paradigmse.com

KPW Structural Engineers, Inc.

Job Title: Project Engineer

Job Description: Typical projects include both new construction and renovations in the academic, high tech, biotechnology and commercial building sectors. We consider engineering challenges our specialty and place a special emphasis on collaboration with the entire design and construction team.

Job Requirements: Seeking licensed project engineers with 4-10 years of experience

and staff engineers with 0-4 years of experience. Minimum qualifications BSCE, Master's Degree preferred, and excellent communication skills.

Contact us about this job by sending an email to Treat@kpwise.com

People Associates Structural Engineers

Job Title: Experienced Assistant Engineers/ Structural Engineers

Job Description: Assistant Engineers—we regularly consider adding junior engineers to our deep and stable engineering staff. If you are intelligent, diligent and collaborative, and are about to graduate or are looking for a better work environment, we want you to contact us.

Experienced Structural Engineers—if you have demonstrated skills and performance, and are ready for the next level in your professional development, Peoples Associates may be the optimal place for your success.

Job Requirements: Our projects are challenging and diverse, local, national and global. We are recognized experts in data center design and mixed-use housing, among others.

Our engineers are technically strong and thrive in a team-oriented environment in the South Bay. Are you a match? Contact us to find out.

Master's degree and Revit (BIM) experience are a significant plus.

Contact us about this job by sending an email to mail@pase.com.

Bok Modern

Job Title: Structural Engineer/Project Manager for Modern Architectural Systems

Job Description: Seeking a Structural Engineer with strong design and technical skills plus great management skills to lead a very fast-paced and energetic company. This is a perfect opportunity for someone who is interested in high concept, short project durations, and working with other architects, designers, contractors and engineers to create design concepts and solutions.

We are a modern Architectural Metal Systems company based in San Francisco, owned by architects and designers. We specialize in balcony railings, stair guard rails, wall screens, canopies, and fence systems.

Our products are contemporary and cutting edge. We are looking for someone who is interested in being part of a fast growing company that is set to become a leader in the architectural metal industry. Our clients are architects, interior designers and major construction companies nationwide

Job Requirements:

- Licensed Structural Engineer
- Excellent CD and CA skills and experience (concrete and wood) for multi-residential
- Must be able to work directly with architects and contractors to find technical solutions
- Excellent knowledge of construction administration
- Excellent knowledge of a typical project process for product-supplier work. (P.O., Invoicing, Scheduling, etc.)

- Excellent attention to detail, organizational and communication skills
- 5+ years of experience in construction and construction administration
- Must be able to run and oversee multiple projects
- Must be able to review architecture drawings and create a "take-off," with measurements and other specifications to submit for a project estimate
- Proficient in AutoCAD --knowledge of Solid Works is a big plus
- Must be able to work with clients to develop and create construction detailing (i.e. mounting details) and assembly drawings, structural connections
- Knowledge and experience in the metal industry a plus
- Must have an eye for design with a high attention to detail
- Must have excellent ability to find solutions in challenging situations and communicate well with customers, contractors and designers

Out of State Applicants: Apply only if you are planning to relocate to the SF Bay Area within one month.

Contact jobs@bokmodern.com

Structural Engineers Incorporated

Job Title: Structural Engineer

Job Description: Structural Engineers Incorporated has immediate openings in their Los Altos office for entry level, mid-level to senior project structural engineer.

Job Requirements:

- BS or MS in Civil Engineering or Architectural Engineering
- A Civil or Structural License in California is preferred
- Experienced in commercial building design
- Ability to assemble construction documents and specifications
- Strong technical and communications skills

Excellent salary and benefit package.

Contact klarsen@structuralengineersinc.com

Jon Brody Structural Engineers

Job Title: Project Engineer

Job Description: The Project Manager is responsible for all aspects of structure design, from inception through construction. Working sometimes alone, and sometimes in concert with principal or senior staff, the successful candidate will participate in conceptual structural idea development, and bring projects through to fruition. Because of the smallness of the office, on smaller projects, the Project Engineer is often playing a role close to that of Project Manager. This can include handling correspondence and coordination with the other parties to the design team, reviewing submittals, attending meetings, performing structural observation, and composing field reports and other correspondence.

The Project Manager must be fluent in use of AutoCAD and RISA-3D, as he/she will develop analytical models and construction drawings directly at their desktop. Their abilities must include

producing and compiling, as well as defending, sets of structural calculations for building justification and submittal to oversight agencies.

In the case of smaller projects, the Project Manager may work under the direct supervision of the Principal or Project Manager. Larger projects are approached as a team.

Job Requirements:

- Professional Engineer or Structural Engineer license in California or nearby state
- Minimum three years experience in a structural design office, working on building projects
- Facility with AutoCAD, RISA-3D, Excel, and professional office software (Revit a plus)
- Comprehensive knowledge of applicable building codes
- Excellent communication skills
- Able to work legally in California
- Valid drivers license
- Physical and mental ability to handle tasks relating to projects at all phases of design and construction (including driving to jobsites, climbing ladders, and similar activities)
- Sense of humor

Contact jon@jonbrody.com

Academy of Art University

Job Title: Structural Engineers Interested in Teaching

Job Description: The NAAB-accredited School of Architecture at the Academy of Art University is seeking Bay Area based Structural Engineers interested in teaching graduate level architectural structural design workshops and consulting for architectural design studios. We are looking for committed individuals with a strong interest and passion in participating in the education process. Instructors will act as a consultant to students in the exploration of structural design options and solutions for design studio and thesis proposals while reinforcing the students' understanding of structural systems.

Job Requirements: Minimum qualifications include a professional degree in structural engineering (Master preferred), license, 2 years minimum experience in the field, a body of professional or scholarly work, and preferably teaching experience in higher education. Candidates who do not meet minimum qualifications but who are uniquely qualified in the area in which they are applying will be considered provided they show evidence of exceptional ability through a body of professional and academic work. Online and onsite teaching opportunities are available. Part time, 3-18 hours of teaching per week covering approximately 15 weeks per semester. The salary will be competitive commensurate with qualifications and experience.

Contact mmueckenheim@academyart.edu

DESIMONE Consulting Engineers

Job Title: Project Engineers

Job Description: Want to take your career to the next level? DESIMONE, an international structural engineering firm with 6 domestic and 3 international offices, is looking for sharp, capable, energetic and highly motivated engineers that want to design world-class buildings. We work with the world's best architects creating

landmark buildings throughout the U.S. and internationally. We currently have openings for experienced engineers in our San Francisco, Las Vegas, Miami and New York offices.

Successful candidates will develop designs for a wide variety of projects, including mid-to-high-rise buildings.

Job Requirements:

- M.S. in Civil/ Structural Engineering
- 2 to 5+ years of relevant experience
- Knowledge of building codes & construction practices
- Proficient in ETABS, RAM, RISA, SAFE
- Familiar with AutoCAD & Revit
- Strong communication skills
- Detail-oriented with strong people skills

Interested candidates may submit resume to CA-Resumes@de-simone.com.

KPFF Portland

Job Title: Experienced and Entry-level Structural Engineers

Job Description:

Position Summary

As a Structural Project Engineer, you will work individually and collaboratively in the design and construction process for a wide array of challenging projects. You will work closely with talented engineers, BIM / CAD technicians, architects, project managers, contractors and client teams.

Experienced Structural Engineer:

Apply Here: http://chc.the.taleo.net/chc05/ats/careers/requisition.jsp?org=KPFF_2&cws=63&rid=73

Entry-Level Structural Engineer:

Apply Here: http://chc.the.taleo.net/chc05/ats/careers/requisition.jsp?org=KPFF_2&cws=63&rid=151

Job Requirements:

Experienced Structural Engineer Preferred Qualifications

- SE licensure
- 2-8 years of experience in structural engineering
- Strong verbal and written communication skills
- Creative, proactive, and detail-oriented individual
- Outgoing individuals who thrive when working directly with architects, contractors and other engineers

Entry-Level Engineer Preferred Qualifications

- Master's Degree Preferred
- Strong verbal and written communication skills
- Creative, proactive, and detail-oriented individual
- Outgoing individuals who thrive when working directly with architects, contractors and other engineers

Ficcadenti Waggoner and Castle Structural Engineers

Job Title: Structural Design Engineer

Job Description:

Structural Design Engineer

Location: Walnut Creek, CA

FICCADENTI WAGGONER and CASTLE Structural Engineers (FWCSE) is seeking an entry-level engineer with 0-2 years of experience to join our talented team in our Northern California office. Applicants must be highly self-motivated, a team player, and demonstrate excellent verbal and written communication skills. Candidates with a Master of Science

degree in Structural Engineering, as well as knowledge of software such as RISA-3D and ETABS are a plus.

The job responsibilities include performing engineering calculations and designing concrete, steel, wood, masonry, and cold-formed steel structures. Developing solutions to complex problems that require a high degree of innovation and ingenuity is key to this position. In addition, site inspections, construction administration, and developing client relationships are important aspects of the job.

Some of the types of work FWCSE is involved with include parking structures, theaters, theme park structures, pre-fabricated curtain wall systems, multi-family residential buildings, hotels, seismic retrofits, and commercial and retail buildings. FWCSE is a medium-sized structural engineering firm with offices in Irvine, Walnut Creek, and Las Vegas. We provide an excellent working environment, great pay and a competitive benefit package.

Please submit a cover letter and resume for consideration.

Job Requirements: Applicants must be highly self-motivated, a team player, and demonstrate excellent verbal and written communication skills. Candidates with a Master of Science degree in Structural Engineering, as well as knowledge of software such as RISA-3D and ETABS are a plus.

Contact careers@fwcse.com

Ficcadenti Waggoner and Castle Structural Engineers

Job Title: Structural Design Engineer

Job Description:

Structural Design Engineer

Location: Walnut Creek, CA

FICCADENTI WAGGONER and CASTLE Structural Engineers (FWCSE) is seeking a mid-level engineer with 3-5 years of experience to join our talented team in our Northern California office. Applicants must be highly self-motivated, a team player, demonstrate excellent verbal and written communication skills and have their P.E. license. Candidates with a Master of Science degree in Structural Engineering, as well as knowledge of software such as RISA-3D and ETABS are a plus.

The job responsibilities include performing engineering calculations and designing concrete, steel, wood, masonry, and cold-formed steel structures. Developing solutions to complex problems that require a high degree of innovation and ingenuity is key to this position. In addition, site inspections, construction administration, and developing client relationships are important aspects of the job.

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Please submit a cover letter and resume for consideration.

Job Requirements: Applicants must be

highly self-motivated, a team player, demonstrate excellent verbal and written communication skills and have their P.E. license. Candidates with a Master of Science degree in Structural Engineering, as well as knowledge of software such as RISA-3D and ETABS are a plus. Contact careers@fwcse.com

Murphy Burr Curry, Inc

Job Title: Intermediate Structural Engineers
Job Description: Our structural design firm is looking to add to its team of creative & talented engineers. If you like challenges, can "think outside of the box" to solve design problems; are able to hit the ground running with both large & small scaled design projects; possess an in-depth knowledge & application of the building code; understand that "getting the job done" means being mindful of our clients' time & budget constraints; and have the necessary skills & experience then we'd like to meet you.

MBC is interested in helping our engineers build a career based on projects that they are proud of, and we seek engineers that value quality of work, service, growth and knowledge.

In return, MBC will welcome you with a supportive team environment in a laid-back atmosphere. At MBC, we invest in our team members by encouraging career growth by offering ample opportunities to work on challenging design projects, working shoulder to shoulder with industry leaders, providing educational seminars, and of course, a generous compensation & benefits package.

Job Requirements: We are interested in intermediate/senior engineers with a preferable 5 years of current & relevant work experience. However, if you can demonstrate a skillset and experience that you think will add to our team, then we will consider applicants with less than 5 years experience. All applicants must have current & relevant experience in structural design & detailing and preparing construction drawings as well as excellent communication skills. PE license required, SE license preferred. Added pluses would include: REVIT, ETABS, SAP, SAFE. Contact by email: info@mbcse.com

Tipping Structural Engineers

Job Title: Structural Engineer

Job Description: If you recognize yourself described below and are interested in working within an organization such as ours, please send a cover letter introducing yourself to us, along with a resume, to resumes@tippingstructural.com.

Job Requirements: You have one to four years' working experience; a Master's in structural engineering; and a Professional Engineer's license in the State of California. You have an interest in structural design that is oriented toward high-performance and sustainability.

You have demonstrable technical expertise in building design/engineering:

- Mastery of statistics
- Good understanding of dynamic behavior of structures, including nonlinear behavior
- Good understanding current standards of practice: ASCE 7, ASCE 41, CBC, ACI, AISC, NDS

- Ability to solve engineering problems independently and catch errors before they impact a project
- Awareness of project budgets and the ability to wisely tailor your work to meet them
- Evidence that you can take independent, responsible charge of increasing proportions of a project
- Drawings, sketches, and details that convey your intent in design but that leaves little room for misinterpretation by the builder
- Reporting on your calculations or analyses employs visual elements of presentation to convey the significant aspects of your findings considering the audience for which they are prepared.

Facility with AutoCAD, Revit, PERFORM-3D, RAM Structural System, RAM Concept, and RISA would be a plus.

You enjoy collaborating with others to create positive contributions; you seek to grow your interpersonal skills and social intelligence.

You are adaptable; you have a sense of pride in excellent performance and continually innovate for learning and improvement.

You are self-challenging and practice questioning your assumptions and redefining problems.

You are passionate about contributing to and supporting the long-term vision of the organization you belong to.

OBEC Consulting Engineers

Job Title: Structural Engineer

Job Description: The Structural Project Engineer 2 is responsible for leading the structural design and analysis efforts on a variety of engineering projects. As a member of the structural division, this position will report directly to the Division Manager. The person in this position must either be a licensed structural engineer in the state of primary practice, or be licensed in a different state with the ability to get a license within 6 months of hire. The person in this position will have a strong knowledge of the International Building Code and be able to quickly learn and apply other design codes as necessary to meet project objectives. The person in this position is also expected to work well with others, absorb and apply constructive criticism and seek guidance from more experienced team members; as well as provide guidance to less experienced team members as necessary.

Essential Duties and Responsibilities

- Independently perform structural engineering related calculations, analysis, and design tasks.
- Independently write technical specifications, reports, and other correspondence to a variety of audiences.
- Learn and apply OBEC standards and best practices.
- Work collaboratively within multi-disciplinary teams and develop ability to work in lead role on team.
- Lead the design efforts in the role of engineer-of-record on a variety of project types.
- Perform independent checking of the design work of other team members.
- Develop the ability to mentor and

oversee the work of less experienced design team members

- Demonstrate advanced proficiency with structural analysis and behavior
- Work efficiently to meet deadlines and complete projects within a given amount of time
- Have a strong understanding of project budgets and schedules
- Demonstrate intermediate proficiency with a variety of design codes related to the industry
- Perform other related duties as assigned

To apply

Please go to our website (www.obec.com), click on the careers section, and fill out the employment application. This application is required and you will not be considered for this position without submitting the application.

Job Requirements: This position requires a Bachelor's degree in engineering (civil, structural) from an accredited university and at least six (6) years of experience. A Master's degree focused in civil or structural engineering is preferred and shall substitute for one year's worth of experience.

Certifications:

This position requires a Structural Engineering license in any state, with the ability to get a Structural Engineering license in the state of primary practice within 6 months of hire.

Previous experience/skills:

Required

- Intermediate level proficiency with Microsoft Office Suites (Outlook, Word, Excel)
- Strong understanding of structural behavior and mechanics of materials
- Accurately complete engineering calculations for all major material types including: concrete, steel, timber, and masonry.
- Proficiency working with drafters to assemble complete and accurate engineering plans
- Lead structural design efforts for a variety of projects
- Exceptional technical and communication skills
- Strong organization skills
- Advanced level proficiency with one or more of the following structural analysis programs: SAP2000, Risa3D, Midas, or GTStrudl.
- Advanced level proficiency with MathCAD
- Advanced knowledge of the International Building Code
- Strong understanding of seismic design principles and non-linear analysis techniques

Preferred

- Experience designing public infrastructure and/or industrial structures
- Experience designing marine and/or port facilities

MKM & Associates

Job Title: Structural Design Engineer

Job Description: Sonoma County structural engineering firm is looking for a structural design engineer. Recent graduates are encouraged to apply as our firm will provide training and mentoring to the

right candidate. This position will have the opportunity to work under licensed structural engineers with much growth potential available.

Job Requirements:

Minimum Qualifications:

- Bachelor's degree in Architectural Engineering, Structural Engineering or Civil (Structural) Engineering
- EIT Certification

It is preferred for applicants to have some experience in structural design of residential & commercial low-rise buildings working with timber, concrete, steel and masonry construction materials. Please explain the experience you possess and goals that you may have.

Excellent verbal, written communication and computer skills a plus. Experience with engineering programs such as ETABS & ADAPT as well as AutoCAD is desirable. Contact by email: info@mkmassociates.com

City of Livermore

Job Title: Plan Check Engineer

Job Description: The Plan Check Engineer performs independent building and plan examinations for construction or alteration of industrial, commercial, and residential structures; determines compliance with applicable codes, laws, and regulations; and performs other duties as assigned.

Examples of duties include:

- Checks plans, specifications, and calculations on building plans submitted by architects, engineers, contractors, and owners for compliance with structural design, zoning, grading, soil reports, energy standards, disabled access, and general conformity to applicable ordinances, laws and State building codes.
- Advises building inspectors on structural and other building related problems arising in the field during construction.
- Assists customers in person and over the phone answering questions and providing instructions to architects, engineers, contractors, homeowners, other customers, and staff regarding building requirements, structural application of various codes, and requirements to achieve compliance standards.

Job Requirements: Experience: Two years of experience performing structural, architectural, or civil engineering building design, review, and inspection work related to building code compliance. Related experience working for a City, County, or State is highly desirable.

Education: Equivalent to a Bachelor's degree from an accredited college with a degree in structural or civil engineering with desired course work in properties of building materials, engineering mathematics, stress and force analysis in wood, concrete, and steel frame structures. Certification: Requires Registration as a Professional Civil Engineer in the State of California. Registration as a Structural Engineer in the State of California is highly desirable. Requires possession and maintenance of an I.C.C. (International Code Conference) Plans Examiner Certification prior to the completion of the probationary period.

Contact hr@cityoflivermore.net

KPFF Consulting Engineers

Job Title: Structural Engineer

Job Description: The San Francisco office of KPFF is seeking Structural Engineers at all levels for full time employment. KPFF offers our employees an environment that supports personal growth, education and training, and the freedom to pursue individual career goals. Applicants must be motivated and possess excellent written and verbal skills. If you have a degree in structural engineering and a passion for Structural Design, we want to hear from you.

Job Requirements:

- Degree in Structural Engineering
- Excellent written and verbal communication skills

Contact by email: wendy.hill@kpff.com

Rutherford + Chekene

Job Title: Structural Designer/Engineer

Job Description: Rutherford + Chekene is actively seeking candidates for a structural designer position. Candidates should have strong analytical, detailing, communication and interpersonal skills and should be able to develop and maintain good relationships with industry peers. We are seeking engineers that are able to jump into a project and start working immediately.

Job Requirements:

- 3-5 years of experience working in the structural engineering field
- A master's degree in structural engineering with courses in dynamic analysis, steel design, and concrete design
- California PE license required; SE license a plus
- Ability to work and thrive in strong deadline-based environments
- Experience designing building structures in concrete and steel
- Familiarity with RAM and ETABS
- Experience with Revit Structure a plus

Contact by email: recruiting@ruthchek.com

Strandberg Engineering

Job Title: Staff Engineer

Job Description: Strandberg Engineering is a relaxed but studious, fifteen person, structural engineering firm located in San Francisco, south of market. We have a love for beautiful architecture and great design, and want our work (whether visible or not) to have the same standards. Our work includes the design, analysis, and preparation of construction documents for residential, commercial, and mixed use buildings. We work with a diverse set of architects, contractors, and building professionals from design through construction.

Strandberg Engineering is looking for a Staff Engineer with 0-5 years of experience.

Job Requirements:

The applicant should have, at a minimum, a bachelor's of structural, civil, or architectural engineering and an interest in structural design. Experience in CAD and Revit is preferred. Experience in RISA, SAFE, ETABS, and Enecalc is a plus.

Contact by email: office@strandbergeng.com

catena consulting engineers

Job Title: Structural Design Engineer

Job Description: Due to the technical complexity and challenge of many of our projects, we seek engineers that have earned a Master's degree, and that have a desire to learn, grow, and be challenged. If you seek the sterile surroundings and isolation provided by cubicle farms, rigid procedures, a highly stratified organization, and repetitive work assignments; catena is not for you. We are currently seeking engineers with 0-4 years of experience in structural engineering for buildings.

In addition to offering competitive salary and benefits, we provide incentive bonuses as part of your compensation package. Candidates must be authorized to work in the U.S. without the need for sponsorship now or in the future.

For additional information, please visit our website at www.catenaengineers.com. If you think you would be a good fit at catena, please email a cover letter and resume to resumes@catenaengineers.com

Job Requirements:

- Masters in Engineering
- 0 - 4 years of experience
- A desire to learn, grow, and be challenged
- Excellent verbal and written communication skills
- US work authorization

Coffman Engineers, Inc

Job Title: Senior Structural Engineer

Job Description: Coffman Engineers is seeking a Senior Structural Engineer to join our team in applying engineering skills to a variety of diverse and challenging projects for our San Francisco Bay Area office. The successful individual will be comfortable consulting to architectural practices and have a desire to work on a multi-discipline engineering team.

Job Requirements:

- B.S. in civil engineering or related field (required)
- Master's degree in structural engineering (preferred)
- Minimum of 15 years of professional experience
- Registrations as a Structural Engineer (S.E.) required
- Ability to build and maintain a strong team of professionals and support staff within a cooperative multidiscipline office performing at a high level of satisfaction to clients
- Excellent verbal, written, organizational, and time management skills

Contact harper@coffman.com

Louie International, Inc.

Job Title: Structural Design Engineer

Job Description: Design and construction administration assistance on major Type I buildings. The SD Engineer reports directly to the Project Manager, and is expected to run a variety of modeling programs.

Job Requirements:

MSCE Degree
1-3 years' experience on commercial buildings
Good skills with design software such as ETABS, SAP, etc.
Experience with Autocad and/or BIM

programs such as REVIT is a plus
Contact by email: wcastillo@louieintl.com

Louie International, Inc.

Job Title: CAD/REVIT Specialist

Job Description: Production of drawings and details.

Job Requirements:

4+ years CAD/REVIT experience on large building projects, including foundation packages, steel packages, construction documents, structural details, etc.

Contact by email: wcastillo@louieintl.com

Bagatelos Architectural Glass Systems, Inc.

Job Title: Structural Designer

Job Description: Entry level structural engineering position.

Work responsibilities will include:

- Structural calculations for curtain wall systems
- Detail development and drawing review
- Review of project specific Architectural and Structural Drawings and Specifications to ensure project design requirements are met.
- Respond to design review / plan check comments
- Assist in the development, design, and testing of Bagatelos custom curtain wall systems.

Job Requirements:

- Bachelor's degree in Civil / Structural Engineer
- EIT Certification (Minimum)
- 2 to 3 years of work experience

Contact by email: sfisher@bagatelos.com

Holmes Culley

Job Title: Project Engineer

Job Description: Holmes Group Limited is an internationally recognized company based in California, New Zealand and Australia. Holmes Culley and Holmes Consulting Group (HCG) are leading structural engineering businesses – the former based in San Francisco, and the latter based in New Zealand. Both Holmes Culley and HCG have reputations for pushing boundaries. Pushing boundaries means we put no limits on individual potential, basing rewards and advancement on achievements and entrepreneurship, not just seniority. This also means taking an imaginative and resourceful approach to projects, challenging established convention, and using cutting-edge technologies. If you, too, are a person who pushes the boundaries – in your achievements, interests, and abilities –

then we want you as part of our energetic and collaborative teams.

We are seeking structural engineers with 5+ years design experience for our San Francisco office; M.S. degree in Structural Engineering and PE license are preferred. Your work will be diverse, design based, client facing and include all aspects of a “consulting” service. You will be involved with assessing, strengthening and retrofitting existing buildings as well as designing new structures. It is an exciting time for those passionate about seismic design/analysis for buildings.

Check us out at www.holmesculley.com and send your resume with cover letter to hr@holmesculley.com

Job Requirements:


- B.S. and/or M.S. Degree in Civil / Structural Engineering.
- 5+ years working in the field of structural engineering.
- Licensed Professional Engineer (PE) in the state of California.
- Seismic design experience or education.
- Verbal communication skills, including listening and questioning.
- Written communication skills, including report writing.
- Coaching/mentoring skills
- Presentation skills to contribute to team talks, technical sessions and project presentations.
- Time management skills.
- Computer software skills: Intermediate MS Word, Advanced MS Excel, Intermediate ETABS, SAP, Risa (or equivalent).
- Problem-solving skills.
- Sound technical skills: understands structural engineering design principles.
- Team player: works with project team
- Willing to travel to other locations for periods of time to undertake projects.



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YMF Spotlight



This month, YMF features Jonas Houston, a Project Engineer at Holmes Culley. Jonas is a graduate of Cal Poly, San Luis Obispo with his masters. As part of his master's program, Jonas completed his thesis titled "Developing Dendriform Facades Using Flow Nets as a Design Aid." His work highlights the ability and beauty of designing a façade system using graphical statics and

natural stress flow within solid masses. "As engineers, it is fun to see the structure expressed in the facades of buildings," says Houston. "I wanted use my thesis to be creative and think out of the box, as well as progress my understanding of the natural flow of stress."

Jonas built his engineering experience at Thornton Tomasetti and Nabih Youseff Associates before landing at Holmes Culley. He has been able to work on multiple high profile projects, including the Unisys House in Wellington, New Zealand. The Unisys House is a 20 story office building with Concrete Encased Steel (CES) Moment Frames. Jonas and colleagues developed their own element acceptance criteria for the CES elements in order to retrofit Unisys House using Non-Linear Response History Analysis (NLRHA). Non-linear viscous dampers were also incorporated to help absorb energy during a seismic event and bring drift demands within New Zealand's codified drift limits.

Jonas is also working on 2155 Webster Street (a.k.a "The Pacific") in San Francisco's Pacific Heights Neighborhood. Previously a dental school, the existing 10 story non-ductile concrete core structure is being renovated into a high end residential building. Once again using NLRHA, the existing building demonstrated diaphragm weaknesses that required the transfer level to be lowered through implementation of a seismic joint at the existing transfer level. To allow for a central corridor, new openings were located in the core walls which required local strengthening. Additional sellable square footage was also provided by adding a two story penthouse at the roof and two new triplex levels where the existing clinic level was once located. The project is currently under construction.

With Holmes Culley, Jonas had the opportunity to travel to New Zealand in 2013 and 2014 to get a firsthand look at the ongoing rebuilding after the 2011 earthquake that badly damaged the city. Before his trip, he was helping his firm perform post-earthquake evaluations and analyses. "It was great to be able to meet the people I had been working so closely with, and see the buildings that I was evaluating," says Jonas. He was also able to spend some of his time exploring the country, including

a rafting trip and going cave climbing.

Jonas lives in San Francisco's Bernal Heights neighborhood with his wife Victoria and dog Ranger. He enjoys getting outside to hike or play the occasional game of disk golf in Golden Gate Park. He also is an avid San Diego Chargers fan (unless they move to Los Angeles), and always enjoys a good whiskey or wine with friends.

Sustainable Design Committee- 2014-2015 Summary

By Megan Stringer, P.E., LEED AP BD+C - Sustainable Design Committee Chair

Over the past year, the Sustainable Design Committee has worked hard to promote and improve the Structural Engineer's role in Sustainable Design. We have worked to improve sustainable education opportunities for all SEAONC members, improve our communication with committee members, and provide learning opportunities during our monthly meetings.

The main highlight for the committee this year was completing a life-cycle assessment comparative study. The committee will focus in the next couple of months on completing a paper summarizing our findings and will present this work at the upcoming SEAOC Convention. The committee also had a series of articles in the SEAONC newsletter summarizing key LCA issues that are relevant to structural engineers. Members of the committee attended various sustainable conferences including SEI's Structures Congress, Greenbuild, and the SEAOC Convention, and gave the committee a run down. The committee also continued its relationships with AIA's Committee on the Environment, USGBC NC, and ASCE's SEI Sustainability Committee.

In the upcoming year, the committee will complete a paper summarizing their LCA study and will present it at the 2015 SEAOC Convention. The committee is also teaming up with the Continuing Education Committee to put on a mini-seminar in the Fall. The seminar will feature a general contractor talking about their relationship with structural engineers and how structural engineers can better contribute to the sustainability of their projects. The committee will continue our publication efforts in the SEAONC newsletter, recruit new members, and liaise with other sustainably focused organizations.

The past year has been a very productive one for the committee and we look forward to another productive year ahead.

Welcome New Members

Member

Peter Chabot, Peoples Associates

Gladwin Chen, Hohbach-Lewin, Inc

Associate

Mandy Pederson, Cornerstone Structural Engineering Group

Corresponding

Jeff Dragovich, Jeff Dragovich

Industry

Robert Murelli, Turner Construction Company



Posting for Membership

Member SE

David Duncan, David Duncan Structural Engineer

Member

Janelle Leafblad, Woodworks

Joseph Rice, BuroHappold

Scott Shepard, Kimley-Horn Associates

Eric Tung, Forell/Elesser Engineers

Eugene Wong, Anil Verma Associates, Inc

Associate

Paul Curry, Murphy Burr Curry

Jessica Fares, Watry Design

Janice Lam, Buehler & Buehler Structural Engineers, Inc.

Casey Leedom, Kimley-Horn Associates

Corresponding

Kevin Chang, Envision Engineering Consultants



