



Structural Engineers Association
OF SOUTHERN CALIFORNIA

SEAOSC NEWS



2017 SEAOSC Golf Tournament at Friendly Hills Country Club

Tee off with SEAOSC members at our annual golf tournament.

Monday, August 28, 2017 • 10:00 am – 8:00 pm
8500 South Villaverde Drive, Whittier, CA 90605

Sign Up Today!

seaosc.org



JOIN US!

- 10:00 am - Check-In, Range Balls, Putting Contest, BBQ Lunch
- 12:30 pm - Shotgun Start (Scramble Format)
- 5:00 pm - Social Hour (No-Host Bar)
- 6:00 pm - Dinner, Awards and Raffle

Gain Visibility with your target audience while supporting the SEAOSC Foundation!

CONGRATULATIONS to 2017 Recipients of Awards,
Honors & Designations Making a Greater IMPACT Together!



Renew your 2017-2018 Membership!

Electronic renewals were sent for online payment

Click Here to Renew Now!

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Check it out Here!



2017-2018 SEAOSC BOARD


Robert "Bob" Lyons, S.E., President - Risha Engineering Group, Inc.

Bob is a principal at Risha Engineering, with over 36 years of structural design experience. He has served on various SEAOSC, SEAOC, AISC and other technical committees. He obtained his BS degree in civil engineering from UCLA in 1978.


Mehran Pourzanjani, S.E., President-Elect - Saiful/Bouquet Structural Engineers

Mehran Pourzanjani is a Principal, of Saiful/Bouquet Structural Engineers. He has over 30 years of experience in designing buildings. His experience spans a wide spectrum of structures varying from institutional and public projects to healthcare, regional malls, high rise structures, and evaluation and strengthening of existing structures. Mr. Pourzanjani is the past president of the SEAOC Seismology Committee and continues to serve on that committee. Additionally he is currently serving on the SEAOC Standards, and the SEAOC Evaluation Services Committees as well as, ACI 318H, Seismic Provisions subcommittee. Mr. Pourzanjani has participated in university research through codification for the design and seismic performance of concrete elements and also served on the "PEER Tall Buildings Initiative" task group towards developing guidelines for the seismic analysis of tall buildings.


Kenneth O'Dell, S.E., LEED AP, Treasurer – MHP, Inc. Structural Engineers

Ken D. O'Dell joined MHP, Inc. in 1989 after graduating from Cal Poly, San Luis Obispo with a Bachelor of Science Degree in Architectural Engineering. At MHP, as one of five principals, he manages design and seismic renovation projects and leads forensic investigation work for the firm while providing staff guidance in design, coordination, project management, and construction support. Since joining MHP, Ken has undertaken numerous significant projects as Engineer-of-Record including high and mid-rise hotel and multi-family projects along with significant community college and K-12 work. Additionally, he provides onsite assessments for numerous seismic risk and due-diligence projects.


Jeff Ellis, S.E., Immediate Past-President - Simpson Strong-Tie Company Inc.

Jeff Ellis is the Director of Codes & Compliance for Simpson Strong-Tie Company Inc. He has more than 25 years of experience in the construction industry and manages the company codes and compliance efforts. Additionally, he is involved in research and development and provides support for existing product lines, including technical guidance for connectors, fastening systems, and lateral force resisting systems. He was a practicing design engineer for commercial, residential and forensic projects for more than 9 years prior to joining Simpson at the end of 2000. He also serves on the International Code Council Evaluation Service Board of Managers and on the CALBO Structural Safety Committee. He's chaired the SEAOSC Summit Committee and the AISI COFS Lateral Design Subcommittee and served as the President of the Cold-Formed Steel Engineers Institute (CFSEI).

2017-2018 SEAOSC BOARD



Donny Harris, S.E., LEED AP, Director - KPFF Consulting Engineers

Donny joined KPFF in 2002 where he was already familiar with the construction industry practices. He has worked on various project types including, Healthcare, Education, Airport, Port, Residential, Retail, Entertainment, and Corporate. Along with many other technical skills, Donny specializes in Shoring Design which he has done for many types of clients including the Port of Long Beach, where he has become proficient in the codes and regulations of maritime projects. He enjoys sharing his understanding of construction materials and building practices to get to the most effective structural solutions as a team. Donny's passionate about improving our community and living spaces using modern innovations with traditional ideas of the past.



Jackie Vinkler, S.E., Director - John A. Martin & Associates

Jackie Vinkler is a Principal at John A. Martin & Associates. She maintains a diverse and highly visible portfolio of structural engineering projects and trusted, long-term relationships with clients. She has more than 25 years of structural engineering experience, having completed building design and architecturally sensitive seismic retrofits for complex structures and buildings in health-care, higher education, entertainment, hospitality, commercial, residential and cultural realms. She has also led teams of structural engineers to complete seismic evaluations of extensive building portfolios, as far reaching as the US State Department embassies and residential buildings overseas. Jackie is known for her levels of precision and a passion for meeting client deadlines and budgets. Her collaboration with high profile architectural counterparts has consistently produced creative structural design solutions which achieve the visions of project's diverse constituencies, including designers, owners, and stakeholders.



Josh Gebelein, S.E., Director - Brandow & Johnston, Inc.

Josh Gebelein has over 16 years of structural engineering experience and has distinguished himself as a versatile structural engineer on various iconic projects in the Southern California region. He is currently an Associate Principal at Brandow & Johnston and serves as Vice-Chair on the SEAOSC Seismology Committee. Josh is passionate about seismology and its effects on seismic building safety, along with the implementation of seismic research into engineering practice. His project experience runs the gamut from mundane improvements to high-performance designs, and also includes international projects, forensics and earthquake reconnaissance. Josh feels that seismic engineering is often more an art than science, and our social challenge is to continually strive to mitigate a risk which the general public does not fully appreciate. His personal goal is to make a positive difference within the structural engineering community both locally and globally, believing that even small differences can save lives.

2017-2018 SEAOSC BOARD



Massoud Abolhoda, S.E., Director - Santa Barbara County Planning and Development

Massoud Abolhoda is a California licensed Structural Engineer. He received his Masters of Science in structural engineering from UCLA in 1981 and his Bachelor of Science in civil engineering in 1980. Massoud practiced structural engineering for 8 years before joining the public sector. He led the Building and Safety Division of the City of Fremont from 1996 to 2009, where he introduced the first mandatory soft-story seismic retrofit in 2008. Under his leadership, the City of Fremont received the first ISO #1 award in the United States in 1999 for superior building code adoption and enforcement services. Massoud has been serving as the Building Official of the County of Santa Barbara since 2011. Massoud was the recipient of the CALBO 2007-2008 Building Official of the Year Award.



Matt Barnard, S.E., Director - Degenkolb Engineers

Matt Barnard is a Principal in the Los Angeles office of Degenkolb Engineers. Matt has a M.S. in Structural Engineering from the University of Illinois, Urbana-Champaign and is a licensed Civil Engineer and Structural Engineer in California. His experience includes new design, alternations, tenant improvements and retrofits for healthcare, higher education, and civic facilities. Matt is a Los Angeles Affiliate Board Member and active mentor of ACE Mentoring and was named a National Outstanding Mentor in 2015. Matt is also a member of the national Guidelines Committee for the Council of American Structural Engineers, a member of the Technical Advisory Committee for the US Resiliency Council, and a past subcommittee chair for SEAOSC Buildings at Risk Summit. He is a disaster service worker volunteer through the California OES Safety Assessment Program. Matt also serves as a member of the part-time faculty for California State University, Fullerton.



Patti Harburg-Petrich, S.E., LEED AP BD+C, Director - BuroHappold Engineering

Patti Harburg-Petrich has designed structural solutions for many building types, including commercial, healthcare, education, sports, and industrial. She has a particular interest in historic retrofit projects and sustainable design and she has a passion for community-centric work. Patti is a licensed Structural Engineer in the state of California, LEED Accredited Professional, Building Design + Construction, and certified Disaster Service Worker for the State of California Safety Assessment Program. She serves on the board of the ACE Mentor Program and volunteers for the Spark Mentor Program.

2017-2018 SEAOSC BOARD



Sandra Biddulph, S.E., Director, DCI Engineers, Irvine

A California native, Sandra has been practicing Structural Engineering for over 25 years on the west coast, and is a Principal at DCI Engineers' Irvine office. Since joining the company, Sandra has been an integral addition to the DCI team. She brings an abundance of knowledge on a wide array of building types, design techniques, and an impressive understanding of codes and regulations. Sandra appreciates the art of structural design; watching a project come together, from the initial project conception through construction administration, with a tangible finished product that becomes a part of our built environment. Sandra earned her Bachelor of Science in Architectural Engineering from Cal Poly, San Luis Obispo, has served on the Board of Directors for SEAOC, and is a Past-President of the Structural Engineers' Association of San Diego.



Truong Huynh, P.E., Director - City of Long Beach

Mr. Truong Huynh is the Gen. Superintendent of Dev. Ser., at City of Long Beach. Mr. Huynh is a licensed professional engineer and a certified building official with over 20 years of experience in the building and safety profession. Mr. Huynh began his career with the City of Long Beach in July of 2005 and is responsible for planning, organizing, directing and coordinating the programs and activities of the Engineering and Plan Check Services Division. Previously, Mr. Huynh worked for 9 years at the City of Los Angeles' Department of Building and Safety.

Co-Pilots Team



Dianne Ochoa

Principal
Co-Pilots Business Services

SEAOSC Executive Director



New to the Co-Pilots Team!

Renee Bailey

Account / Event Assistant

Renee has joined the Co-Pilots / SEAOSC Team. Renee brings to the team extraordinary customer service and event planning experience. She will be a great asset to Co-Pilots and SEAOSC!

2017 END-OF-YEAR AWARDS & PRESIDENT'S DINNER



President Jeff Ellis SE of Simpson Strong-Tie presided over the evening, announced the people awards, and recognized Past Presidents as well as outgoing and incoming Board members.



Passing of the Presidential Gavel Plaque for recognition of service to Jeff Ellis SE (2016-2017) from Bob Lyons SE (2017-2018).



SEAOSC Past Presidents attending from left to right are Ted Christensen '77-'78, Michael Cochran '09-'10, Kevin O'Connell '14-'15, Brian Cochran '99-'00, Michelle Kam-Biron '15-'16, Rawn Nelson '90-'91, John Coil '84-'85, Doug Thompson '13-'14, and Janah Risha '11-'12. Attended, but not in the photo is Earl Schwartz '91-'92.



Third and fourth from left are SEAOC President-Elect Janah Risha SE with SEAOSC President-Elect Bob Lyons SE and colleagues at the Risha table.



Recipients of awards, honors and designations.



President-Elect Bob Lyons SE of Risha Engineering provided a thoughtful inaugural address.



The Nabih Youssef table ready to enjoy dinner at the Nabih Youssef table.

2017 END-OF-YEAR AWARDS & PRESIDENT'S DINNER



The outgoing Board members from left to right are Past Pres. Michelle Kam-Biron SE and Dirs. Todd Brown SE, Victoria Wigle SE, and Jeffrey Haight with continuing President-Elect Bob Lyons. Not pictured is Dir. Lorena Arce PE.



The 2017-2018 Board, in the upper right hand corner, includes incoming Pres. Bob Lyons SE, Dir. Truong Huynh PE, Immed. Past Pres. Jeff Ellis SE, Dir. Josh Gebelein SE, Pres.-Elect Mehran Pourzanjani SE, Dir. Matt Barnard SE, and Treas. Ken O'Dell SE. Not pictured are continuing Dirs. Sandra Biddulph SE and Jackie Vinkler SE as well as new Directors Massoud Abolhoda SE, Patti Harburg-Petrich SE, and Donny Harris SE.



Cedars-Sinai Medical Center - Exhaust Tower Los Angeles, CA



David Williams S.E.

CEDARS-SINAI MEDICAL CENTER PHARMACY EXHAUST TOWER CATEGORY 2: SPECIAL-USE STRUCTURE

Ready for the life of its daily service, this structure is a testament to the team's commitment. And so are the other 17 projects that have won the award. The team's commitment to the project is a testament to the team's commitment to the project. The team's commitment to the project is a testament to the team's commitment to the project.

PROJECT TEAM
 Owner: Cedars-Sinai Medical Center
 Engineer of Record: Progress Engineers
 Architect of Record: Puckett + Hill
 General Contractor: North Valley Construction

INTEGRATION OF NEW AND EXISTING FOUNDATION
 The team's commitment to the project is a testament to the team's commitment to the project. The team's commitment to the project is a testament to the team's commitment to the project.

ADJUSTABLE JOIST CONNECTION
 The design team's commitment to the project is a testament to the team's commitment to the project. The design team's commitment to the project is a testament to the team's commitment to the project.

GENERAL PLATE CONNECTION AT BEARING JOISTS
 The design team's commitment to the project is a testament to the team's commitment to the project. The design team's commitment to the project is a testament to the team's commitment to the project.

TECHNICAL INNOVATION
 The design team's commitment to the project is a testament to the team's commitment to the project. The design team's commitment to the project is a testament to the team's commitment to the project.

SEAOSC/SEAOC 2017 EXCELLENCE IN STRUCTURAL ENGINEERING AWARDS



Tower of Twelve



Omar Garza S.E.

Tower of Twelve

PROJECT DESCRIPTION
 The Tower of Twelve is a unique blend of architecture, engineering, and art. The tower is a testament to the team's commitment to the project. The tower is a testament to the team's commitment to the project.

PROJECT TEAM
 Client: Coachella Valley Music & Arts Festival
 Designer: Studio City Architecture
 Structural Engineer: N OUS ENGINEERING

Structural Analysis
 The tower's unique design required a complex structural analysis. The tower's unique design required a complex structural analysis.

Fabrication
 The tower's unique design required a complex fabrication process. The tower's unique design required a complex fabrication process.

Installation
 The tower's unique design required a complex installation process. The tower's unique design required a complex installation process.

SEAOSC/SEAOC 2017 Excellence in Structural Engineering Awards

2017 ENGINEERING IN STRUCTURAL ENGINEERING AWARD WINNERS



S.E.O.R Nabih Youssef Associates

Oakwood School Pedestrian Bridge



Sean Brunton of Plas-tal Mfg. and Steve Luchetta and Jim Muenzer, S.E. of MATT Construction

Oakwood School Pedestrian Bridge
North Hollywood, CA

The reconstruction of the Oakwood School Bridge provides safe passage over busy Magnolia Boulevard, which bisects the campus. Students from the middle school cross there in safe numbers when they need to attend team ball meetings in the north campus assembly space. High school students with classes on the north side can cross to eat lunch on the south side. The bridge allows the school to close the campus, eliminating the need for walk guards at the gates.

All important design features of the school's long-term master plan, the bridge has features which are not major changes, and this creates a different view of design work. Instead of grand scale, extensive steel truss covers both sides of the bridge to act as a safety barrier. Custom laser cut panels on both sides and a steel structure on the top surface of the trusses, also close to the ground. There will be a light L&L elevator provide access to the 12-foot-high walkway.

Given the small footprint on both sides of the bridge and the lack of storage at the site MATT built the bridge to be installed in any order. Installation of the bridge was performed in stages. The first stage bridge was supported in a steel frame to allow the steel work to take shape. The right side of the bridge was then added to the location, closed up by crane and partially set on its own. Then the elevator structure, including only one light tower, closed to all operations above and for the 12th floor.

SEAO/SEAO 2017
Excellence in Structural Engineering Awards

@deanoila



UCLA Jules Stein



Elie El-Khoury

UCLA JULES STEIN
STRUCTURAL DEFICIENCIES IN THE EXISTING STRUCTURE

SEOR: NABIH YOUSSEF & ASSOCIATES
ARCHITECT: STENFORS ARCHITECTS
CONTRACTOR: PCL CONSTRUCTION
OWNER: UCLA

TEST MODEL

PROOF TEST HYSTERESIS LOOP & CALIBRATION

UCLA JULES STEIN
3D Nonlinear Time History Analysis Results Summary

	RSE-1		RSE-2	
	Free-field	SSI Reduction	Free-field	SSI Reduction
Beams	Rebar Strain Max = 2.7ε _y ~10% _{allowable}	30%	Rebar Strain Max = 9.1ε _y ~30% _{allowable}	22%
Walls	Max shear strain = 75% ε _{shear} < 20% ε _s	25%	Max shear strain = 2ε _{shear} < 35% ε _s	5%
Columns	Max column rotation = 0.0045 rads	30%	Max column rotation = 0.016 rads	16%
	Max mean column rotation = 0.0034 rads	26%	Max mean column rotation = 0.011 rads	20%
N/S Drift	Max of mean = 0.59%	10%	Max of mean = 0.98%	10%
E/W Drift	Max of mean = 0.23%	15%	Max of mean = 0.51%	11%

SEAO/SEAO 2017 EXCELLENCE IN STRUCTURAL ENGINEERING AWARDS

CONSTRUCTION PHOTOS

2017 ENGINEERING IN STRUCTURAL ENGINEERING AWARD WINNERS



KTLA Channel 5



David Cocke S.E. and Melineh Zomorrodian S.E.

NEW STUDIOS || INVERTED SHEAR WALLS

The lateral force resisting system consisted of plywood sheathed diaphragm spanning between plywood sheathed "inverted" shear walls on four sides of each studio. The inverted shear walls were designed with steel collector beams at the top transferring the diaphragm shear loads to the inverted plywood sheathed shear wall.

One of the main design elements in the renovation of Stage 4 was the construction of two new "inverted" studios within the existing building. These provide excellent separation from the other spaces within the building and from the exterior of the building. Working closely with the City of Los Angeles the team developed complex yet efficient and innovative solutions for the construction of the new studios.

Due to design and constructability limitations, the design team came up with a creative solution for the connection of the HSS columns at the ends of the hanging shear wall to the precast concrete. A connector HSS (collector tube) with threaded studs welded on all four faces was cast in the top of the slab. The larger steel column with a steel cap sleeve that had a hole slightly larger than the connector tube, slid over the connector tube. The ends of the collector tube were inflated with non-shrink grout and two through bolts were installed to connect the steel column to the connector tube. The collector shear plates were welded to the steel column base plate.

The wall framing was hung from the ceiling steel beams using continuous steel pipe steel anchor track to avoid adding gravity load on the existing second floor framing.

At the base of the shear wall, the shear wall foundation was cast in place concrete. The steel collector plates that connected to the pipe foundations at each end of the shear wall.

STRUCTURAL FOCUS SEAOCC/SEAOSC
2017 Excellence in Structural Engineering Awards

Structural Engineer: Structural Focus
Owner: Hudson Pacific Properties
Client: KTLA Tribune Media

Architect: Beuten and Associates
Contractor: Tacticos Construction
@deanoinla

SOM

The Desmond



Andrew Krebs S.E.

THE DESMOND BUILDING - TRANSFORMING A NON-DUCTILE CENTURY-OLD BUILDING INTO CREATIVE OFFICES THROUGH AN INNOVATIVE SEISMIC RETROFIT
SEAOCC/SEAOSC 2017 EXCELLENCE IN STRUCTURAL ENGINEERING AWARDS

NEW SHEAR WALLS AND LINK BEAMS

Existing non-ductile reinforced concrete shear walls were replaced with new ductile reinforced concrete shear walls and link beams. The new walls and link beams were designed to provide a ductile lateral force resisting system. The new walls and link beams were cast in place concrete. The new walls and link beams were designed to provide a ductile lateral force resisting system. The new walls and link beams were cast in place concrete.

INNOVATIVE SEISMIC RETROFIT

The building was retrofitted with a ductile lateral force resisting system. The new walls and link beams were designed to provide a ductile lateral force resisting system. The new walls and link beams were cast in place concrete.

CREATING A CREATIVE OFFICE SPACE

The building was transformed into a creative office space. The new walls and link beams were designed to provide a ductile lateral force resisting system. The new walls and link beams were cast in place concrete.

STRUCTURAL FOCUS SEAOCC/SEAOSC
2017 Excellence in Structural Engineering Awards

Structural Engineer: Structural Focus
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2017 ENGINEERING IN STRUCTURAL ENGINEERING AWARD WINNERS



Nova Academy



Rachel Wong

NOVA Academy Santa Ana, CA

The existing four story Office building (Risk Category II), constructed in early 1980's is approximately 39,000 SF with a quarter circle footprint. The lateral force resisting system consisted of non-ductile Pre-Northridge steel moment frames. The 50-foot-deep cast-in-place piles provide foundation support.

Repurposing the building for a School, required seismic upgrades to meet a Risk Category III. The seven (7) month schedule for design and completion of the project before school started in August required delivering a cost-effective retrofit and renovation solution in a very short timeline with no allowance for schedule impacts. After consideration of several options, we utilized viscous dampers as a non-traditional approach to improve the building's performance while mitigating foundation work.

PROJECT INFORMATION:
 STRUCT. ENGR.: NISHKIAN CHAMBERLAIN, INC.
 CONSULTANT: EQGLOBAL
 OWNER: NOVA ACADEMY
 ARCHITECT: BERLINER ARCHITECTS
 CONTRACTOR: OLTMANS CONSTRUCTION CO.

SEAOC 2017 EXCELLENCE IN STRUCTURAL ENGINEERING AWARDS

SOM

New United States Courthouse – Los Angeles, CA



Andrew Krebs S.E.

NEW UNITED STATES COURTHOUSE – LOS ANGELES
 SEAOC/SEAOC 2017 EXCELLENCE IN STRUCTURAL ENGINEERING AWARDS

SOM

2017 ENGINEERING IN STRUCTURAL ENGINEERING AWARD WINNERS



Hedges Place



Elizabeth Mahlow

Hedges Place
© 2017 NouS Engineering

PROJECT DESCRIPTION
Located in the heart of the Los Angeles area, Hedges Place is a modern, multi-story office building designed by the Los Angeles-based architectural firm of the same name. The building features a unique, angular design with large glass facades and a prominent cantilevered upper floor. The project was completed in 2017 and is currently occupied by various tenants.

PROJECT TEAM
Client: Hedges
Architect: Hedges Architects
Contractor: Hedges Construction
Structural Engineer: NouS Engineering

Irregular Structure

Vibration Analysis

SEAOSC/SEAOC 2017
Excellence in Structural Engineering Awards

NOUS ENGINEERING



Burbank Regional Intermodal Transportation Center – Burbank, CA



Mehran Pourzanjani S.E.

BURBANK REGIONAL INTERMODAL TRANSPORTATION CENTER (BRITC)

PROJECT DESCRIPTION

- BRITC is the most advanced, high-speed transportation hub built in California.
- Will offer a combination of Retail Car Facility & Customer Service Building.
- Designed to withstand an earthquake larger than any California had ever experienced.
- Provided FEMA and the State of California a new standard of seismic resilience in addition to the level of a major earthquake or other disaster.

SEISMIC DESIGN CRITERIA SET BY AIRPORT AUTHORITY

Category	SEISMIC DESIGN CRITERIA	SEISMIC ANALYSIS
Structural Elements	Seismic Design Category: D	Nonlinear Pushover Analysis
Foundation	Seismic Design Category: D	Nonlinear Pushover Analysis
Other	Seismic Design Category: D	Nonlinear Pushover Analysis

SEISMIC ANALYSIS

A three-dimensional nonlinear analysis was performed using SAP2000. The analysis included the full BRITC structure and its foundation system. The analysis results showed that the structure is capable of withstanding the seismic forces without significant damage to the structure.

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Base-Isolated BRITC Serves Dual Purpose as Emergency Response Nerve Center

Owner: Glendale-Burbank-Pasadena Airport Authority
Design/Build Team: McCarthy Building Companies / Saiful Bouquet Architect: PGAL

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SEAOSC / SEAOC 2017 EXCELLENCE IN STRUCTURAL ENGINEERING AWARDS

saifulbouquet

2017 ENGINEERING IN STRUCTURAL ENGINEERING AWARD WINNERS



Television Academy – Saban Media Center



Matthew Breaks S.E.

Television Academy

SABAN MEDIA CENTER
5210 Lankershim Avenue, North Hollywood, CA 91601

PROJECT INFORMATION:
PROJECT TYPE: LANDMARK STRUCTURE
Owner/Developer: Television Academy of Arts & Sciences
Construction Manager: Honnold Construction Management
Architect: Gensler
Completion Date: June 2016
Structural Engineer: Risha Engineering Group, Inc.
General Contractor: MMT Construction
Construction Cost: \$120,000,000 (estimated)

PROJECT DESCRIPTION:
The Saban Media Center is a 10-story building on the site of the former 1930s-era Fox Tower. The building is a landmark structure that will house the television industry's most important events, including the Emmy Awards. The building is a landmark structure that will house the television industry's most important events, including the Emmy Awards.

DESIGN DEVELOPMENT:
From the moment the design team was selected, the team knew this was a landmark project. The team worked closely with the architect to create a design that was both functional and aesthetically pleasing. The team worked closely with the architect to create a design that was both functional and aesthetically pleasing.

ENTRANCE SCHEMES INVESTIGATED:
Option #1 (right top) - Columns at 10 feet maximum spacing of the entrance canopy, with 10 feet spacing at level 2.
Option #2 (right center) - Two main columns at 40 feet spacing with 10 feet spacing between them. This option was over the design.
Option #3 (right bottom) - Two deep steel trusses cantilevering 40 feet from the building structure, supporting level 2 and the roof - this option included no columns.
A steel moment frame, cast-in-place concrete and concrete shear wall were investigated at secondary levels systems to accommodate typical construction - a pour concrete shear wall was selected.

SEAOSC/SEAOAC 2017 Excellence in Structural Engineering Awards

SPECIAL THANKS TO THE JURY FOR THIS YEAR'S AWARDS

MICHELLE KAM-BIRON - CHAIR
AMERICAN WOOD COUNCIL

TODD BROWN
DCSE ASSOCIATES INC.

ROBERT LYONS
RISHA ENGINEERING

KIM CARVALHO
BRANDOW & JOHNSTON, INC.

TANIA VAN HERLE
HED

MARIA MOHAMMED
STRUCTURAL FOCUS

KURT CLANDENING
JOHN A. MARTIN & ASSOCIATES, INC.

COLIN KUMABE
FORMERLY CITY OF LA

LISA WILLARD
SE SOLUTIONS, LLC

Excellence in Structural Engineering Awards – 2017

2017 JURY

2017 RECIPIENTS OF AWARDS, HONORS & DESIGNATIONS

College of Fellows
Dr. Farzad Naeim, S.E.



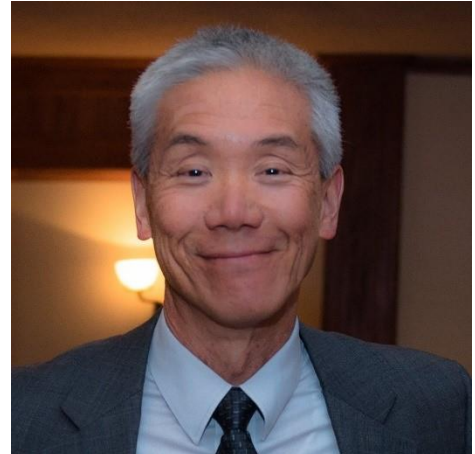
College of Fellows
Y. Henry Huang, P.E., CBO



Honorary Member
Michael Cochran, S.E.



Public Service Award
Colin Kumabe, S.E.



Engineer of the Year
Josh Gebelein, S.E.



Engineer of the Year
Daniel Zepeda, S.E.



2017 RECIPIENTS OF AWARDS, HONORS & DESIGNATIONS

Young Engineer of the Year Victoria Wigle, S.E.



S.B. Barnes Research Award

Robert Lyons, Jeff Ellis, David Cocke, Victoria Wigle, Annie Kao, Kenneth O'Dell, David Williams, Michelle Kam-Biron, Dr. Lucy Jones (not present)



Presidential Appreciation Dan Fox, S.E.



Presidential Appreciation Matt Barnard, S.E.



Presidential Appreciation Russell McLellan, P.E.



Presidential Appreciation Samuel Mengelkoch, S.E.



FIND AN ENGINEER

SEAOSC provides a Member Services Search service that is intended to assist the public in finding Structural Engineers (SE's) and Professional Engineers (PE's) claiming specialization in various areas of structural engineering. SEAOSC members pay a fee to advertise their "For Hire" design services on this service.

We have received an increased number of the public requesting engineer referrals and we encourage our members to participate in this valuable service! The Member Services Search is a benefit opportunity of SEAOSC membership. Please contact the [SEAOSC office](#) for further information if you are interested in participating in the Member Services Search.

The public information on the [Find An Engineer](#) section on our website is listed below:

How do you find a Structural Engineer? Read our brochure here: [WHAT YOU NEED TO KNOW ABOUT STRUCTURAL ENGINEERING](#)

Determine the size and scope of your project; you may wish to consult an architect or contractor first to discuss cost, feasibility and design coordination.

Compile a list of prospects.

- Search the Member Services Search for firms.
- Ask your friends and contractors for recommendations.
- Refer to your local telephone directory (check in the white pages, the "Yellow Pages," or in large metropolitan areas, the "Business Yellow Pages"), or
- Contact professional engineering and professional land surveying societies, such as SEAOSC, SEAONC, SEAOSD, SEA OCC, SEAOC, ASCE.

Confirm their State Registration.

- Visit the [State of California Board for Professional Engineers and Land Surveyors \(BPELSG\)](#) website and use the [Online License Look-up Database](#) to verify an individual's license, search for local professional engineers in your county, and view any disciplinary actions that have taken place against a licensee. This government agency covers many types of engineers, so be sure to look for "Professional Engineer" to view their Civil (C) or Structural (S) license.
- Review the [Consumer Guide](#) published by BPELSG for additional information on selecting a qualified engineer.

Select two or more engineering firms and ask for references from previous jobs similar to yours. Verify their expertise in your type of project and their ability to complete projects on time and on budget.

Request that an engineer visit the project site in order to submit a written proposal, including the objectives, anticipated time schedule and engineer's compensation. While some engineers do not charge for a preliminary visit, many do.

JEFF ELLIS
PRESIDENT

ROBERT LYONS
PRESIDENT-ELECT

MEHRAN POURZANJANI
TREASURER

LORENA ARCE
SECRETARY



**STRUCTURAL ENGINEERS ASSOCIATION
OF SOUTHERN CALIFORNIA**
A Non-Profit California Corporation

437 S. CATARACT AVENUE, #4B
SAN DIMAS, CALIFORNIA 91773

DIANNE OCHOA
EXECUTIVE DIRECTOR

TEL: (562) 908-6131
FAX: (562) 692-3425
EMAIL: seaosc@seaosc.org

**2016-2017
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PRESS RELEASE

The Structural Engineers Association of Southern California Announces 2017 Excellence in Structural Engineering Award Winners

Each year, SEAOSC recognizes members that have demonstrated outstanding achievement and excellence in structural engineering practice on their projects through its Excellence in Structural Engineering Awards program. The awarded projects are great examples of the impact structural engineers have on our communities. They not only provide safe places for people to work, live, entertain, heal, and teach, but also help to show the public the important impact the structural engineering profession has on the resilience of our communities.

The purpose of the SEAOSC Excellence in Structural Engineering Awards program is to publicly acknowledge outstanding achievements in the field. Additionally, it is the intent of the Awards program to educate Southern Californians on the contributions of their local Structural Engineers to the built environment and to public safety in the region and around the world, as SEAOSC is committed to advancing the art and science of structural engineering.

This year, the jury focused on certain criteria in their selection of the Excellence Award winners: design creativity, technical innovation, system efficiency and economy, constructability, complexity of problems solved, design integration, quality of execution, and significant contribution to the public and profession.

This year's winners in each category are as follows:

Special Use Structure – Award of Excellence

Structural Engineering Firm: Degenkolb Engineers

Project: Cedars-Sinai Medical Center Exhaust Tower Design

Special Use Structure – Award of Merit

Structural Engineering Firm: Nous Engineering

Project: Tower of Twelve

Infrastructure – Award of Excellence

Construction Firm: MATT Construction

Structural Engineering Firm: Nabih Youssef Associates

Project: Oakwood School Pedestrian Bridge

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Retrofit/Alteration – Award of Excellence – Large Project

Structural Engineering Firm: Nabih Youssef Structural Engineers
Project: UCLA Jules Stein

Retrofit/Alteration – Award of Excellence

Structural Engineering Firm: Structural Focus
Project: KTLA Channel 5

Retrofit/Alteration – Award of Merit

Structural Engineering Firm: Nishkian Chamberlain, Inc.
Project: Nova Academy

Retrofit/Alteration – Award of Merit

Structural Engineering Firm: Skidmore, Owings & Merrill LLP
Project: The Desmond

New Construction – Award of Excellence – Large Project

Structural Engineering Firm: Skidmore, Owings & Merrill LLP
Project: New United States Courthouse - Los Angeles

New Construction – Award of Merit

Structural Engineering Firm: Saiful Bouquet Structural Engineers
Project: Burbank Regional Intermodal Transportation Center

New Construction – Award of Merit – Small Project

Structural Engineering Firm: Nous Engineering
Project: Hedges Place

Landmark Structures – Award of Excellence

Structural Engineering Firm: Risha Engineering Group, Inc.
Project: Television Academy - Saban Media Center

Congratulations to all of the firms represented in the 2017 SEAOSC Excellence in Structural Engineering Awards, and to all the individual engineers whose passion, expertise, patience and diligence led to such inspiring and commendable engineering design. We are proud to call them our colleagues and applaud their excellent efforts!

SEAOSC PARTICIPATES IN READYLA: EARTHQUAKE PREPAREDNESS LOS ANGELES EVENT

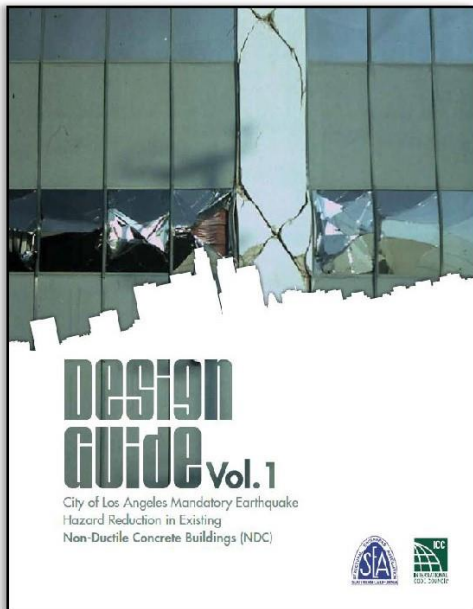
On Friday June 9th the Getty House Foundation hosted a “[ReadyLA: Earthquake Preparedness](#)” event as part of their [EngageLA Series](#). SEAOSC participated with a tabletop next to the LADBS tabletop with flyers including “[What you need to know about Structural Engineering](#)”, the [Find an Engineer](#) search service, and the [L.A. retrofit ordinance FAQs](#) as well as give-aways such as SEAOSC pens, notepads and keychains. SEAOSC representatives included President Jeff Ellis SE, Director Matt Barnard SE, Existing Buildings Chair Daniel Zepeda SE, Summit Past Co-Chair Annie Kao PE, and Image & PR Committee member Alan Hanson. Speakers included Dr. Ken Hudnut USGS, Dr. Lucy Jones DLJCSS, and Los Angeles Mayor Eric Garcetti. Mayor Garcetti announced three new initiatives: localized preparedness plans for L.A. neighborhoods, resilience hubs for communities, and reconvening of the Seismic Safety Task Force “to develop new recommendations to keep our buildings safe.” The Mayor also stated that of the estimated 13,500 soft-story wood buildings affected by the seismic retrofit ordinance, 298 were complete and 1,841 are underway. Additionally he mentioned SEAOSC a couple times as one of the partners helping in these efforts, showing our continuing strong relationship with the City of Los Angeles and the increased visibility of our profession which can help us affect positive changes to increase the strength and resilience of our communities.



ReadyLA: Earthquake Preparedness Event at Getty House. From left to right and top to bottom: Dr. Ken Hudnut of USGS, Dr. Lucy Jones of DLJCSS, L.A. Mayor Garcetti, and L.A. Chief Information Officer Ted Ross. SEAOSC President Jeff Ellis SE with Dr. Lucy Jones. Model of the collapsed Northridge Meadows Apartment Building, Image & PR Committee member Alan Hanson and Summit Past Co-Chair Annie Kao PE at the SEAOSC tabletop, and LADBS General Manager Frank Bush at the LADBS tabletop.

SEASC NDC AND SWOF SEISMIC RETROFIT DESIGN GUIDES ON SALE NOW!

[Click Here to Purchase](#)



This design guide discusses and demonstrates methodologies for the seismic evaluation and strengthening of existing non-ductile concrete buildings. While aspects of this guide focus on the mandatory City of Los Angeles earthquake hazard reduction ordinance and historical construction practices of the Southern California region, it is generally applicable to any other existing concrete buildings in areas of moderate or high seismicity. In this guide you will find a collection of practical advice, guidance on implementing current evaluation and retrofit methodologies, summaries of relevant and useful reference materials, and detailed examples. Additional insights are given based on the latest available research and next-generation standards development work. Extensive commentary is provided and various approaches are presented to address this challenging subject.

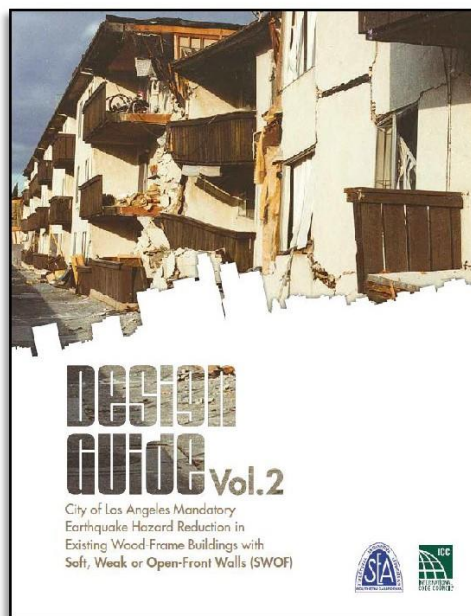
The publication of this design guide coincides with the end of the triennial code cycle, and was written for use with the 2017 *City of Los Angeles Building Code* based on the 2015 *International Building Code* and ASCE 41-13. This guide is an excellent resource for practicing professional engineers, architects, building officials, academics, and students evaluating this type of structure.

SEASC Design Guide Vol. 1: City of Los Angeles Mandatory Earthquake Hazard Reduction in Existing Non-Ductile Concrete Buildings (NDC)
Pricing:
Non-Members:
 Printed: \$45
 Electronic: \$42
Members:
 Printed: \$38
 Electronic: \$35

This design guide provides an example and detailed commentary for the seismic strengthening of existing wood-frame buildings with soft, weak or open-front (SWOF) wall lines subject to the recently passed mandatory Los Angeles Ordinance. The design example in this guide demonstrates a prescriptive, ordinance-based retrofit approach for a typical open-front wall line. Following this example, a demonstration is given showing how FEMA P807 could be used to design a retrofit for the same example building.

Commentary in the guide discusses challenges inherent in this type of retrofit including: lateral force-resisting system selection, shear transfer detailing, and existing material capacities. Additionally, capacity-based design concepts are presented to provide creative solutions for buildings with unique challenges. Scope, responsibilities of the design professional, and other topics are discussed in great detail to further aid the design professional and provide a clearer understanding of the requirements of the Ordinance.

This design guide was written for use with the 2014 *City of Los Angeles Building Code* based on the 2012 *International Building Code* and ASCE 7-10. This guide is an excellent resource for practicing professional engineers, architects, building officials, academics, and students evaluating this type of structure.



SEASC Design Guide Vol. 2: City of Los Angeles Mandatory Earthquake Hazard Reduction in Existing Wood-Frame Buildings with Soft, Weak or Open-Front Walls (SWOF)
Pricing:
Non-Members:
 Printed: \$29
 Electronic: \$26
Members:
 Printed: \$25
 Electronic: \$22





The SEAOSC Foundation

The SEAOSC Foundation exists to advance the scientific principles of structural engineering through sponsoring of structural engineering research, publishing of studies, papers and reports of structural engineering significance, and funding of annual student scholarships.

To further the development of structural engineering, the Foundation looks for partners, be it individuals, companies or corporations, who are interested in pursuing structural engineering innovation and research for use in the public domain.

In furtherance of its purposes, the SEAOSC Foundation may:

- Sponsor scientific research, both fundamental and applied, intended to aid in the advancement of structural engineering.
- Provide tuition scholarships for students intending to enroll or are currently enrolled in engineering programs with a structural engineering specialization leading to a degree from an accredited institution of higher learning.
- Publish the results of studies, papers, and other reports of special importance and significance to structural engineers.
- Solicit financial support from structural engineers, foundations, and the general public to support this corporation's activities.

As a 501(c)(3) nonprofit corporation, all donations made to the **SEAOSC Foundation** are tax deductible as a charitable donation, to the extent of the law, by the individual making the contribution.

We are currently seeking donations to advance this effort and hope that you will partner with us to advance structural engineering. Donations can be made by check, made payable to "SEAOSC Foundation" and mailed to the SEAOSC Office:

SEAOSC Foundation
Attention: Dianne Ochoa
437 S. Cataract Avenue, #4B
San Dimas, CA 91773
Phone: 562-908-6131 or
E-mail: foundation@seaosc.org

SAFER CITIES ADVISORY PROGRAM



Developing a Seismic Safety Ordinance? Or a Back-to-Business Program? We have something for you!

A message from the SEAOSC President Jeff Ellis, S.E.

The Structural Engineers Association of Southern California (SEAOSC) is here to help. It is who we are. We are here to help develop the technical basis behind local building codes and standards. We are here to be a resource for our members and the industry at large so together we can make a difference.

SEAOSC applauds the increased interest in the seismic safety of our communities; an interest that has developed fortunately now and before the potential loss of life and damage to property. We are proud that our Cities and other local jurisdictions are taking proactive steps to better understand the current risk to life and property of the existing built environment and then develop regulations and means by which that risk can be reasonably and significantly reduced.

We know that you have limited resources, and we know that you want to make sure that what steps you are taking are technically sound. SEAOSC is proud to introduce our Safer Cities Advisory Program, our way of providing the technical insights and creative minds of our membership to further our shared goals of reasonable and effective regulations and programs that make the difference.

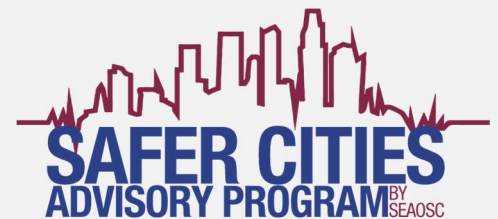
Our program is based on a pool of qualified SEAOSC members, able and willing to review regulations and other programs such as a back-to-business program developed by you. Our members will volunteer their time to offer you recommendations to refine to your proposed regulations and programs. We want you to be successful with the implementation of your seismic safety initiatives; let us help you at no cost to you.

All you need to do now is ask for us to help: send us an email at seaosc@seaosc.org. We look forward to working with you.

Jeff

The Safer Cities Advisory Program is here to complement that great work you are already doing!

The Safer Cities Advisory Program complements your engagement of the structural engineering community. We strongly encourage Cities and other Southern California jurisdictions to engage structural engineers to assist you in determining your inventory of buildings that are highly vulnerable to seismic damage and develop proposed regulations for the retrofit of those structures. The Safer Cities Advisory Program is an option for you to have an independent, qualified review of your draft ordinances and programs. We are here solely to offer you insightful and expert advice from our highly qualified and vetted members.



Are you a City or other agency or SEAOSC Member interested in our program? If so, email, call, or write us at the following:

437 S. Cataract Ave., #4-B, San Dimas,
CA 91773 phone: (562) 908-6131
email: seaosc@seaosc.org

BUILDING FORWARD LA EVENTS ON JUNE 15TH AND JULY 12TH

SEAOSC is proud to be part of the [Building Forward LA](#) (BFLA) effort by the Office of the Mayor of Los Angeles Eric Garcetti. This effort is exploring opportunities within the processes and rules of the City of Los Angeles to more effectively realize the vision for Los Angeles to be resilient. The focus of this effort is not just about seismic. It is a comprehensive look at achieving resilience whether the shock or stressor on the community comes from an earthquake, floods, drought, fire, energy, and so on. This is a fantastic opportunity to help a community serviced by the members of SEAOSC. But we can only help if we are part of the conversation.

On June 15th, the fourth outreach events by BFLA was held at the Los Angeles Cleantech Incubator ([LACI](#)). The evening started with a site tour followed by an introduction by Ben Stapleton to all of the great things going on at LACI. There were then two panels that talked about technologies, products, and services that are being developed right now that have the potential to increase the resilience of Los Angeles. The speakers included representatives from Saya, Connect Homes, Free Wire, Arid Lands Institute, and the U.S. Resiliency Council ([USRC](#)). Executive Director Evan Reis, S.E. of USRC shared the benefit that could be realized through adoption of the USRC ratings and the resulting increased understanding about structural safety, downtime, and repair costs after a large earthquake.

On Wednesday July 12th, BFLA will be hosting their fifth outreach event. Six City of Los Angeles departments including Building and Safety will be sharing their thoughts about current and potential opportunities to improve the resiliency of Los Angeles. After hearing from the participating departments, the event will again embrace a town hall style format. BFLA and the City of Los Angeles wants to hear your ideas. For more information, visit the [SEAOSC calendar](#) where links to the event registration website are posted as soon as they are available.

Building Forward LA

June 15
5:30 - 8:00 PM

LA Cleantech Incubator
525 S. Hewitt Los Angeles CA 90013

Building the Future: Innovative Technology & Materials Discussion

Eric Garcetti #tamayor

100 RESILIENT CITIES + REBUILD BY DESIGN

AIA Los Angeles

LOS ANGELES MAYOR'S FUND LOS ANGELES

THE NOW INSTITUTE

SFA ARCHITECTURE AND DESIGN MUSEUM - LOS ANGELES

A+D ARCHITECTURE AND DESIGN MUSEUM - LOS ANGELES



**Structural Engineers Association
OF CALIFORNIA**

2017 SEAOC College of Fellows Scholar

APPLY NOW!

SEAOC's College of Fellows is now soliciting applications for selection of the 2017 SEAOC College of Fellows Scholar, now in its second year.

The selected applicant will be provided a grant of \$ 5,000 upon completion of their first term of studies at an accredited California graduate school program in Civil Engineering with a structural emphasis, Architectural Engineering or Structural Engineering.

The applicant for selection as the SEAOC College of Fellows Scholar shall have obtained an undergraduate degree in Civil Engineering, Structural Engineering or Architectural Engineering from an accredited engineering school or university and has at a minimum one year structural engineering consulting or research experience following receipt of the undergraduate degree. The applicant shall also have membership in one of the four SEAOC member associations. Any class of membership is acceptable.

The applicant for the grant shall submit:

- A resume of education and experience not to exceed two pages
- A statement of their career goals and reason for pursuing an advanced degree not to exceed one page
- Notification of acceptance to the graduate program selected and
- Letters of recommendation from two members of any of the SEAOC member organizations who hold either Member or Member SE class of membership.

These items shall be submitted to the SEAOC office at dschinske@seaoc.org by 5 pm (PST) on August 1, 2017. The selection of the scholar will be based on the evaluation of the members of the College of Fellows and all decisions will be final and not subject to review or contest.

The scholarship is fully funded by the College of Fellows, whose members are selected for their long service to SEAOC, its member organizations, and the structural engineering profession.



**Structural Engineers Association
OF CALIFORNIA**

2017 SEAOC Young Member Convention Stipend by CVSIC

Apply by June 23!

The California & Vicinity Steel Information Council (CVSIC), SEAOC Board, and Convention Committee are pleased to announce the 2017 CVSIC Young Member Convention Stipend program.

California & Vicinity
Steel Information Council

CVSIC

*Funding provided by the California
Field Iron Workers Administrative Trust*

These awards are generously funded by CVSIC to provide opportunity for younger members to attend the [2017 SEAOC Convention](#), who might otherwise be unable to attend. The Convention will have numerous steel sessions which further the objective of CVSIC: to educate structural engineers in the economical design, fabrication, and erection of structural steel.

CVSIC will award ten (10) \$1,000 stipends to younger members to attend the SEAOC Convention on Sept. 13-15, 2017 in San Diego, CA. You must be 35 years old or younger to be eligible, with preference given to SEAOC members. To apply, complete the below application and return it to the review committee via email (dschinske@seaoc.org).

Applications are due by June 23 and elected recipients will be notified by July 7, 2017.

Recipients of the stipend will be allowed to request reimbursement of up to \$1,000 for costs to attend the 2017 SEAOC Convention, specifically for registration, lodging, and transportation (air and ground). Awardees are asked to write a brief thank you letter with summary of takeaways, highlights, and photos and return it to the review committee via email within one month after the Convention.

Apply Now!



Structural Engineers Association
OF CALIFORNIA

SEAOC YMF Convention Stipend

Apply by July 7!

The SEAOC Board and Convention Committee are pleased to announce the 2017 SEAOC YMF Convention Stipend program to encourage SEAOC younger members to attend the annual SEAOC Convention.

SEAOC will award a **\$750 stipend** to one younger member from each SEAOC Member Organization (region) to attend the 2017 SEAOC Convention on September 13-15, 2017, in San Diego, CA. Any current SEAOC member 35 years old or younger is eligible.

To apply, simply complete the attached application and return it to SEAOC Executive Director Don Schinske via email (dschinske@seaoc.org) by **July 7, 2017**. Selected recipients will be notified the week of July 17, 2017. Recipients of the stipend will be allowed to request reimbursement of up to \$750 for costs to attend the 2017 SEAOC Convention, specifically for registration, lodging, and transportation (air and ground).

The 2017 SEAOC Convention has diligently planned a variety of [activities](#) targeting the interests and participation of younger members, including:

- “Young Member Brewery Tour” on Wednesday evening,
- “Younger Member Roundtable” on Friday morning.

Apply Now

This program is separate from the Nabih Youssef Younger Engineer Poster Session Grant program and other stipend programs that may be available through SEAOC or local MO's. SEAOC younger members are encouraged to apply through multiple programs, however awardees will be limited to one award or stipend.



Structural Engineers Association
OF CALIFORNIA

Nabih Youssef Younger Member Poster Session Grant

Enter by July 21!

SEAOC is pleased to announce this year's Nabih Youssef Younger Member Poster Session Grant. The grant is funded by a generous donation from Mr. Nabih Youssef. The objective of the grant is to encourage our younger members to participate in the annual convention and SEAOC activities in general.

Five (5) grants will be awarded from entries submitted for a poster board design competition. In addition to receiving a grant, winners will have their poster boards displayed at this year's [convention](#), being held September 13-15 at the Hilton San Diego Resort & Spa. Details of the poster board competition are as follows.

Topic: Any interesting or informative structural engineering project whether under design, in construction, or already built.

Eligibility: All current members of SEAOC, age thirty-five (35) years and younger.

Awardees: One (1) representative each from SEAONC, SEAOSC, SEAOC, and SEAOSD, and one (1) at large representative, five (5) total.

Grant: Winners will be awarded a **\$1,000.00** stipend towards registration, accommodations and travel to and from the convention.

Interested younger members should submit a brief abstract (300 words or less) describing the project and either a 8.5" x 11" or 11" x 17" sketch of their poster board layout via e-mail by **July 21st** to dschinske@seaoc.org. Abstract and sketch should be submitted in PDF format. Grant recipients will be notified after the judging day, by the end of July.

Download the flyer below for more detailed entry guidelines.

Learn more and enter now!

CALL FOR PAPERS DEADLINE JUNE 30, 2017!

[Eleventh U.S. National Conference on Earthquake Engineering \(11NCEE\)](#) *Integrating Science, Engineering, and Policy*



June 25-29, 2018
Los Angeles, California

The National Conference on Earthquake Engineering is held every four years. With the theme, "integrating science, engineering, and policy," the 11NCEE will bring together 1,000+ professionals from a broad range of disciplines, including architecture, structural engineering, seismology, geology, geophysics, geotechnical engineering, business, public policy, social sciences, regional planning, emergency response planning, and regulation.

[SUBMIT YOUR PAPER ABSTRACT NOW](#)

Purpose

The Eleventh U.S. National Conference on Earthquake Engineering ([11NCEE](#)) will provide an opportunity for researchers and practitioners to share the latest knowledge and techniques to better understand and mitigate the damaging effects of earthquakes and tsunamis. The conference will bring together professionals from the full spectrum of the earthquake community to discuss and debate a multitude of issues related to seismic hazard, risk, mitigation and public policy.

The Earthquake Engineering Research Institute (EERI) is organizing this conference in collaboration with the Southern California Earthquake Center (SCEC). With numerous ongoing efforts in risk mitigation in the region that poses the largest seismic risk in the United States, Los Angeles and Southern California will form an ideal setting for the conference. The conference will provide a unique environment to facilitate synergy between earthquake scientists, engineers and policy professionals from the United States and around the world. This conference brings together professionals from a broad range of disciplines, including architecture, structural engineering, seismology, geology, geophysics, geotechnical engineering, business, public policy, social sciences, regional planning, emergency response planning, and regulation.

Technical Program Topic Areas

Advances in Non-Linear Modeling Tools
Bridge Structures
Buildings, Structural Systems
Critical Infrastructure (hospitals, schools, power plants, dams, ports)
Education and Outreach
Engineering Seismology
Experimental Methods
Ground Motion Modeling, Directivity, Spatial Correlation
Ground Motion Simulations for Engineering Applications
Ground Motion Spatial Variability
High Performance Computing and Simulation
Information Technology and Collaboration Tools
Instrumentation, Data Collection, and Seismic Networks
Lessons Learned from Recent Earth- quakes, Post-Earthquake Assessment and Response
Liquefaction and Ground Failures
Multi-Hazard Risk Assessment, Cascading Hazards Following Earthquakes (fire, landslide, etc.)
Non-Structural Components and Systems
Onshore and Offshore Southern California Fault Systems
Operational Earthquake Forecasting
Post-Earthquake Response, Emergency Management, and Recovery
Repair and Retrofit
Resilient Communities and Cities
Risk and Loss Assessment and their Socio-Economic Impacts
Risk and Resilience of Distributed Infra- structure and Lifelines
Seismic Hazard Assessment
Seismic Isolation, Energy Dissipation and Control Systems
Seismicity, Earthquake Sources, and Earthquake Geology
Seismology & Seismotectonics
Socio-Economic Issues and Public Policy
Soils, Foundations, Soil-Structure Interaction
Tall Buildings Design and Issues
Tectonics, Faults, and Large Earthquakes
Tsunami Hazard Assessment, Design, and Recovery

Call for Papers

The abstract collection system is open through June 30, 2017. Authors must submit abstracts and papers [online](#). Authors will receive notification of provisional acceptance of their abstracts by August 15, 2017. Final papers, both full and extended abstracts, must be received by October 31, 2017. [SUBMIT YOUR PAPER ABSTRACT NOW](#)

REGISTRATION NOW OPEN!



2017 SEAOSC Golf Tournament
 at Friendly Hills Country Club
Tee off with SEAOSC members at our annual golf tournament.
Monday, August 28, 2017 • 10:00 am – 8:00 pm
 8500 South Villaverde Drive, Whittier, CA 90605

Sign Up Today!
seaosc.org



JOIN US!

- 10:00 am - Check-In, Range Balls, Putting Contest, BBQ Lunch
- 12:30 pm - Shotgun Start (Scramble Format)
- 5:00 pm - Social Hour (No-Host Bar)
- 6:00 pm - Dinner, Awards and Raffle

Gain Visibility with your target audience while supporting the SEAOSC Foundation!

SAVE THE DATE!



November 7 & 8, 2017

**Center at Cathedral Plaza
555 W. Temple Street
Los Angeles, CA 90012**

Each year, the Strengthening Our Cities Summit brings together the community to learn resources and tools to better understand the risks of earthquakes and how to mitigate losses.



For Sponsorship & Registration, [click here](#)
Program Information Coming Soon!
For more information, [visit seaosc.org/summit](http://seaosc.org/summit)

SEAOSC ADVERTISEMENT & SPONSORSHIP OPPORTUNITIES

SEAOSC provides opportunities throughout the year for our industry partners to reach their target audience. There are three avenues available: advertising, exhibits and event sponsorship. Details and package discounts are available on the website. [Click Here](#) for more information.

Newsletter Advertising

SEAOSC publishes an electronic newsletter, SEAOSC News, which is posted online at www.seaosc.org in a color.pdf format. 11 issues are published annually on a monthly basis, with the exception of a single, combined issue for July and August. The newsletter is available on the public portion of the website.

NEW FOR 2017!

Job Wanted / Help Wanted Ads will be posted on the SEAOSC [website](#) for 30 days!

Website Advertising

Website banner ad with company website click-through for one month. Yearly and half-yearly banner ad packages also available. See more opportunities on the [website](#).

Exhibit Opportunities

SEAOSC invites our corporate colleagues to exhibit at our educational events and special programs as noted below. Cost includes one 6 ft. draped table, meal for up to 2 exhibit staff, 2 complementary tickets for exhibitors to give to non-SEAOSC members who may be interested in attending.

- Winter Education Programs (January 2017)
- Spring Education Programs (May 2017)
- SEAOSC Educational events – 4 opportunities available annually
- SEAOSC Summit (November 2016)

Sponsorship Opportunities

SEAOSC has special opportunities for additional sponsorships, vendors, and exhibitors at additional events and seminars throughout the year. Please see the events below and check the [SEAOSC Events Calendar](#) for the most up-to-date information!

- [Student Scholarships & Job Fair \(February\)](#)
- Winter Education Programs (January)
- Spring Education Programs (April/May)
- Annual End-of-Year Awards & Past President's Dinner (June)
- [Annual Golf Tournament \(August 2016\)](#)
- [SEAOSC Summit \(November 2016\)](#)
- [Monthly Dinner Meetings](#)

CLASSIFIED ADS

WATRY DESIGN, INC. – IRVINE, CAEngineering Project Manager

Are you looking for an opportunity to work with a collaborative, talented, passionate team where initiative is rewarded? Watry Design, Inc. is an Architectural, Structural Engineering and Planning firm that not only fits that bill, but offers far more.

We are currently seeking an Engineering Project Manager with 7-10 years of experience to work in our San Jose, Irvine, or Dallas offices. This position works on diverse projects for the private sector, municipalities, transit agencies, universities, medical facilities and more.

Using a unique process developed over the firm's forty plus year design legacy, our architects, structural engineers and planners are empowered to provide their professional expertise in every aspect of our parking solutions. If your interest is piqued, review the full posting at <http://watrydesign.com/careers>.

Send your resume and cover letter to jobs@watrydesign.com with the subject line "ENG PM SEAOSC."

BUEHLER & BUEHLER STRUCTURAL ENGINEERSMid-Level Structural Engineer – Los Angeles

Founded in 1946, Buehler & Buehler Structural Engineers, Inc. (B&B) provides a wide range of structural engineering services throughout the United States. Headquartered in Sacramento, California, B&B has regional offices in Los Angeles, Phoenix and San Francisco with our newest office in Silicon Valley.

We are looking for a Structural Engineer committed to long term employment for our Los Angeles office. Desired level of experience is 3+ years of experience in structural design and analysis, California P.E. preferred. B&B offers a competitive salary and excellent benefits including medical, dental, vision, 401(k), profit sharing, paid holidays, vacation and sick time, life insurance, and annual bonuses, as well as the opportunity for advancement.

Opportunities available in our Sacramento, San Francisco, Silicon Valley and Phoenix offices as well.

Please submit cover letter, resume and references to resumes@bbse.com for immediate consideration.

FORELL/ELSESSER ENGINEERS, INC.Engineers with Master Degree

Are you looking to share your talents with a collaborative, fun group of structural engineers working in a dynamic downtown San Francisco office on some of the most challenging and exciting structural and seismic projects in California and around the world? Do you want to be part of an exciting and thoughtful team in a work environment that actively encourages and supports individual professional growth through ongoing education, training, and mentoring? If so, FORELL/ELSESSER ENGINEERS, INC. wants to hear from you!

We are currently looking to add engineers with a Masters' degree in civil/structural engineering and 2-5 years' experience to our team. Ideally with PE.

Find out more about us and this opportunity at www.forell.com. Interested candidates should forward their resumes and cover letter to recruiting@forell.com

CITY OF SIMI VALLEYSenior Engineer/Plan Check

This recruitment is open until filled and may close at any time. The first review of applications will occur on July 19, 2017, or when 75 applications are received, whichever occurs first. Salary: \$94,663 - \$121,738 annually, plus excellent benefits.

The Position: Supervises, assigns, reviews and participates in the work of staff responsible for performing professional and technical engineering services; ensures work quality and adherence to established policies and procedures; provides specialized engineering services; and performs the more technical and complex tasks.

Minimum Qualifications: Any combination of education and experience that would likely provide the required knowledge and abilities is qualifying.

How to Apply: Apply online at www.Calopps.org. Questions? Contact Human Resources via e-mail at HR@simivalley.org or call (805) 583-6743. Resumes are not accepted in lieu of the City's application.



KNA STRUCTURAL ENGINEERS – IRVINE

KNA Structural Engineers has immediate openings for experienced engineers. KNA specializes in structural engineering of educational, civic and healthcare facilities. Our team is a dedicated group of resourceful, friendly, innovative and hard working professionals and we are looking for the same qualifications in responding candidates. More information about KNA can be found at knastructural.com.

REQUIRED QUALIFICATIONS: BS-ARCE or BSCE (structural) from an accredited university, California seismic engineering background and proficiency with the California Building Code and related codes, California PE license (or ability to obtain within one year), excellent communication skills and be able to effectively collaborate with clients, owners, contractors and other design professionals. DSA, OSHPD, ASCE 41 and REVIT experience is a plus.

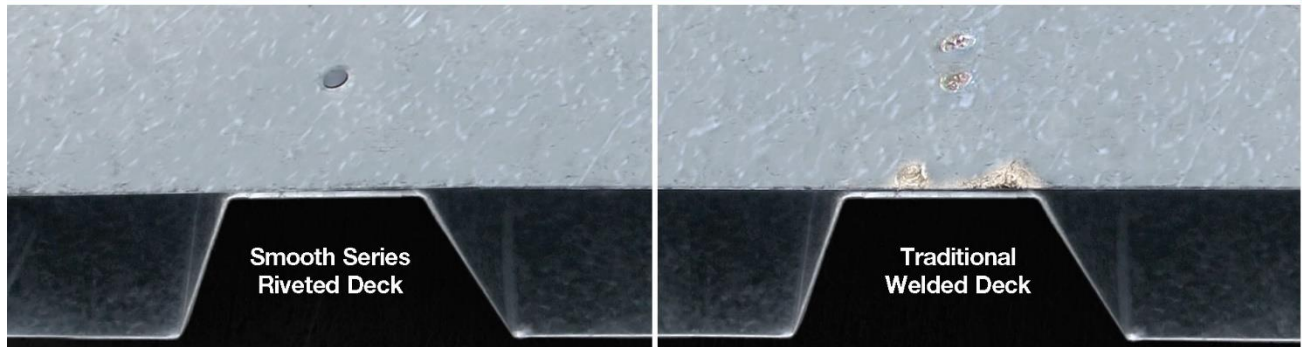
KNA provides our staff with long-term growth potential along with competitive compensation and benefit package. Qualified candidates are invited to submit their resume along with a cover letter via our careers page at www.knastructural.com. Please verify that you meet the required qualifications prior to submitting. No phone calls please.

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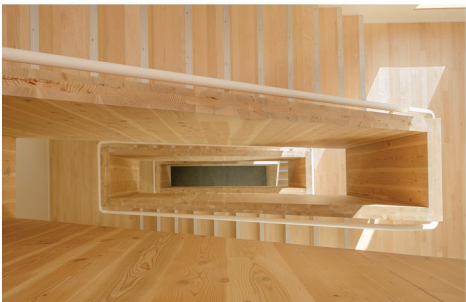
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WOOD DESIGN AWARDS

NOMINATION DEADLINE: SEPTEMBER 29, 2017



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Categories:

- Multi-Family Wood Design
- Commercial Wood Design: Mid-Rise
- Commercial Wood Design: Low-Rise
- Wood School Design
- Institutional Wood Design
- Wood in Government Buildings
- Durable & Adaptable Wood Structures
- Green Building with Wood
- Beauty of Wood

About WoodWorks

Free project assistance for wood buildings

WoodWorks provides free resources related to the design, engineering and construction of non-residential and multi-family wood buildings.

For technical support, visit woodworks.org/project-assistance or email help@woodworks.org.

There is no cost to nominate a project for a wood design award. Visit woodworks.org for details.



2017 winners (clockwise from top left): Rosewood Beach, Woodhouse Tinucci Architects, photo Bill Timmerman; One North – Karuna East and West Buildings, Holst Architecture, photo Andrew Pogue; T3 Minneapolis, MGA | Michael Green Architecture, DLR Group, photo Ema Peter; Albina Yard, LEVER Architecture, photo LEVER Architecture; Common Ground High School, Gray Organschi Architecture, photo David Sundberg; Dixon Water Foundation Josey Pavilion, Lake 34o Architects, photo Casey Dunn

BOARD OF DIRECTORS



Structural Engineers Association OF SOUTHERN CALIFORNIA

July 1, 2017 – June 30, 2018

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Get involved! Members are invited to join a SEAOSC committee. Please contact the chairperson for information on current projects and meeting times, dates and locations.

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Sustainable Design	TBD		
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Summit	TBD		
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Please visit <http://seaosc.org/committees> to view the annual committee charges and tasks.