2018 was a year of advances including releasing new publications, hosting successful conferences including the Electrical Transmission & Substation Structures Conference, and receiving grants from the Pankow Foundation to develop pre-standards for performance-based design. While efforts are ongoing in pursuit of SEI strategic initiatives, we are reviewing progress to reaffirm and update our Vision for the Future of Structural Engineering, and will make recommendations to the SEI Board in early 2019 on plans moving forward.

Many SEI committees create resources to serve members and the profession through standards development, technical, business and professional activities, and global initiatives. More than 50 SEI Chapters and Grad Student Chapters serve SEI members locally. If you are not yet involved, I encourage you to join an SEI effort to make the most of your membership, and in so doing advance your career and the profession.

As I think of my own career path as a structural engineer and the impact from my own mentors, I challenge you to reach out to a student or young professional to share your journey, and invite them to participate in SEI. The Vision for the Future of Structural Engineering is in their hands!

On behalf of the SEI Board and Staff, thank you for all you do to advance and serve the profession.

David W. Cocke, S.E., F.SEI, F.ASCE
SEI President 2018-2019

SEI Board of Governors
As a critical aspect of the SEI Vision, and following a two-year task committee study, the SEI Board established the Committee to Advance Performance-Based Structural Engineering with the charge to move the profession in this direction, rather than develop specific technical requirements and details. The committee will pursue the recommendations in “Advocating for Performance-Based Design” (available at www.asce.org/SEI) including the development of outcomes and education plan, as well as to examine standards development and application. The committee will engage other efforts working on related topics within SEI and industry-wide to establish a sense of scope and activity within the profession.

Activities underway include two new projects funded by the Charles Pankow Foundation. SEI is developing the

Prestandard for Performance Based Wind Design, to further advance knowledge and provide guidance to the profession for wind design beyond the ASCE 7 provisions. SEI is also developing an exemplar procedural guideline to demonstrate the proper execution for Performance Based Structural Fire Engineering as defined by ASCE 7-16 and SEI MOP 138 Structural Fire Engineering. Both projects will be complete in 2019 and available for free to the practice.

“Structural engineers have the ability and tools to deliver more efficient and economical designs while also providing more intrinsically safe structures to fire.”

Kevin LaMalva, P.E., M.ASCE, Principal Investigator for Pankow Foundation-funded project to develop exemplar procedural guidance for performance-based structural fire engineering (SFE) design.
SEI AT-A-GLANCE

SEI is a dynamic community of more than 30,000 members, one of nine specialty Institutes of the American Society of Civil Engineers (ASCE).

SEI involves all facets of the structural engineering community including practicing engineers, students, research scientists, academics, technologists, material suppliers, contractors, and owners. SEI advances our members’ careers, stimulates technological advancement, and improves professional practice. SEI drives the practical application of cutting-edge research by improving coordination and understanding between academia and practicing engineers.

Congratulations to 2018 SEI Fellows, SEI/ASCE Award Recipients, and O.H. Ammann Fellowship Recipients!
VISON FOR THE FUTURE OF STRUCTURAL ENGINEERING

SEI continues to support and promote the SEI Vision for “A vibrant future for structural engineering where we lead and innovate to improve the safety and well-being of the global population. We create and use innovative technologies to design inspiring, resilient structures while ensuring the economic and sustainable use of natural resources. We are the best and brightest, and have rewarding opportunities to advance and be recognized throughout our careers.”

In addition to Performance-Based Design efforts, the following activities advanced SEI Vision initiatives in 2018:

- The SEI Committee for Reform of Structural Engineering Education (CROSEE) has been examining the assumptions and protocols of higher education, including the responsibilities of both the academies and the practice. The committee is further studying the uniquely qualified role of adjunct professors or professors of practice in development of young engineers and continues to work toward an overall strategy for SEI as aligned with the Vision.

- The SEI Global Activities Division drafted the Global Practice Guide, which will provide essential information for engineers and firms practicing abroad, and is planning the first joint conference with the Institution of Structural Engineers (IStructE) in 2019, on Iconic Global Structures in Dubai, UAE.

- SEI continues to support the Structural Engineering Licensure Coalition (SELC), and monitored threats to licensure in local jurisdictions with the help of ASCE Government Relations.

- SEI held collaboration meetings with U.S. and international peer organizations including IStructE, CASE/ACEC, NCSEA, and SECB in promoting licensure, student programs, codes and standards, and advancing the structural engineering profession.
SEI advanced in serving the profession, delivering innovative conferences, publications, and other programs, through collaboration with our many technical, standard, and business/professional committees, and partners.

Leadership involvement with partners included participation at events such as ACI, ASCE Convention, EERI Conference, ENR Gala, NASCC Steel Conference, NCEES Annual meeting and Structural Caucus, NCSEA Summit, and the Reunion del Concreto in Colombia. SEI also hosts periodic gatherings with industry leaders to discuss challenges the profession faces and invite input.

CONFERENCES

Structures Congress continues to lead and innovate with more interactive programming and the latest knowledge and practice including performance-based design, sustainability, and smart technology topics. More than 1,100 participated at Structures Congress in Ft. Worth. Attendees also had a great time celebrating the Future of Structural Engineering hosted by Ashraf Habibullah and CSI in support of the SEI Futures Fund.

The every 3 year Electrical Transmission and Substation (ETS) Structures Conference November 4-8 in Atlanta had record participation with more than 1,400 attending the expert technical program and enjoying a sold-out exhibit hall. Dedicated to strengthening critical infrastructure, ETS attracts structural/civil engineers, suppliers, and many more from the electric power, foundation, and construction industries.

Forty-five local SEI Chapter leaders from across the U.S. including SEI Graduate Student Chapters participated in the SEI Local Leaders Conference at ASCE in Reston, VA. The event included an update on SEI initiatives, best practices and resources to strengthen local efforts to serve members, and a tour of the U.S. Capitol.
PUBLICATIONS

Developing resources is at the forefront of SEI activities. With thanks to the committees and staff that developed them, SEI standards, journals, and other publications completed in 2018 include:

- Electrical Transmission and Substation Structures Conference 2018
- Structures Congress 2018
- Structural Fire Engineering Manual of Practice
- Whole Building Life Cycle Assessment: Reference Building Structure and Strategies
- Journal of Structural Engineering
- Journal of Bridge Engineering
- Practice Periodical on Structural Design and Construction

CODES AND STANDARDS

As an ANSI-Accredited Standards Development Organization, SEI develops 25 industry standards for buildings and non-buildings, electrical transmission, and nuclear structures through volunteer committee efforts and consensus processes, including ASCE 7, ASCE 10, ASCE 24, ASCE 37, ASCE 41, and ASCE 48. As a thought leader in technical areas of Design Loads, Seismic Retrofit, Flood Design, and Construction Loads, as well as many other technical areas, SEI members are leading the profession.

In addition to developing the standards, SEI pursues adoption into national or state codes or other regulatory processes, thereby driving the practice. In 2019, SEI Codes and Standards Committee members and SEI Staff will participate in the International Code Council Code Development Hearings as well as other state and federal regulatory adoption processes. SEI also advances coordination of standards development in through the International Standards Organization (ISO), and Structural Standards Coordination Council (SSCC).
LOCAL CHAPTERS

More than 50 SEI Chapters of ASCE Section/Branches serve SEI members locally, including SEI Graduate Student Chapters, and growing.

SEI Graduate Student Chapters (GSCs) enhance the education of students preparing to become structural engineers and engage student members in SEI for a successful transition from college to career. GSCs organize and manage visiting speakers, prospective student events, field trips, lead outreach activities, and more. Participating in a GSC helps members broaden their view of what it means to be a structural engineer. Undergraduate students are also invited to participate.

www.asce.org/SEILocal

SEI FINANCIAL PERFORMANCE 2018

Reserves $630,525
Revenue $1,559,794
Expenses $1,651,969
Thank you to SEI Sustaining Organization Members

Increase your exposure to more than 30,000 SEI members through www.asce.org/SEI, SEI Update e-newsletter, STRUCTURE magazine, and at SEI conferences year round.

SEI Elite Sustaining Organization Members:

Hayward Baker
A Keller Company

SEI Sustaining Organization Members:

benesch
GEOPIER
Tenstar
Boswell Engineering
Hardesty & Hanover
Schnabel Foundation Company
SIMPSON

Walter P. Moore

Become an SEI Sustaining Organization Member at www.asce.org/SEI-Sustaining-Org-Membership
SEI thanks the SEI Futures Fund, in collaboration with the ASCE Foundation, for providing vital funding to support our Vision for the Future of Structural Engineering.

SEI FUTURES FUND

Your partner to:

- Invest in the future of structural engineering
- Support student and young professional involvement in SEI
- Provide opportunities for professional development

2018 Funded initiatives:

- Student and Young Professional Scholarships to Structures Congress
- SEI Global initiatives through resource workshops, an international practice guide, and increasing international sessions at Structures Congress
- Stakeholder workshop to align SEI messaging strategy
- Pilot to livestream content at Structures Congress
- Support for Young Professional Engagement on SEI Standards Committees

“Thank you! Structures Congress has been the first major step in developing my professional network. I was exposed to an abundance of knowledge and learning in a very fun atmosphere. My passion for Structural Engineering has increased dramatically.”

Matthew Tyler, S.M.ASCE, Virginia Tech, 2018 SEI Student Scholarship Recipient

“Imagine what we could do for the profession if everyone was engaged!”

Glenn R. Bell, P.E., S.E., C.Eng, SECB, F.SEI, F.ASCE
SEI President-Elect
Every dollar contributed to the SEI Futures Fund goes directly to profession-building initiatives identified and approved by the SEI Futures Fund Board. The SEI Board recommends leaders and members give annually, and the SEI Futures Fund continues to grow in donor contributions to advance the art, science, and practice of structural engineering.

For 2019, the SEI Futures Fund Board has committed more than $100,000 in support for these initiatives to shape the future of our profession:

- Increased support for Student and Young Professional Scholarships to Structures Congress
- Increased support for Young Professional Engagement on SEI Standards Committees
- Leadership/Facilitating Consensus training for SEI local leaders
- SEI Standards lecture for SEI Chapters
- Support for SEI Sustainability workshop
- Support for SE Licensure research

Your support will fund strategic initiatives in 2020 and beyond, and will strengthen SEI efforts to build a vibrant community of structural engineers to lead into the future.

Learn more and give at www.asce.org/SEIFuturesFund

SEI members celebrating the Future of SE hosted by Ashraf Habibullah and CSI in support of the SEI Futures Fund and Vision Initiatives
Join us to interact with and learn from the experts, and celebrate Structural Engineering:

- Structures Congress, April 24-27, 2019, Orlando, FL
- Iconic Global Structures, Dubai, UAE, September 29-30, 2019
- SEI Local Leaders Conference, October 24-26, 2019
- Structures Congress, April 5-8, 2020, St. Louis, MO
- Electrical Transmission and Substation Structures Conference, September 19-23, 2021, Orlando, FL

“I’ve made so many connections and formed relationships with professionals in my area that I would never have made without ASCE/SEI. I highly recommend any student to begin participating with your school’s chapter, or attending a conference like Structures Congress. You gain a lot, professionally and personally.”

Jayne Marks, EIT, A.M.ASCE
2018 SEI Student Scholarship Recipient