TURNING IDEAS INTO ACTIONS

Advancing the profession is not a mission that the SEI Board of Governors takes lightly. The Board has committed to advancement by developing a vision and maintaining a proactive approach to its achievement. In fact in 2013, the Board of Governors put their shoulders to the wheel by personally championing many strategic initiatives to advance the vision. Specific initiatives including The Future Structural Engineer and The Future of Structural Codes and Standards have seen considerable efforts and results in the areas of education, licensure, and standards coordination—and this is only the beginning! The SEI Board of Governors looks forward to continue to guide and direct the Institute as well as to serve you, our members, through purposeful strategies that will turn ideas into action to advance the entire profession.

Donald Dusenberry, P.E., F.SEI, F.ASCE
SEI President 2013-2014

MESSAGE FROM THE SEI DIRECTOR

With the SEI Board of Governors carefully advancing strategies to fulfill its mission and achieve its vision, the Structural Engineering Institute maintains service to its members with tangible activities from SEI committees and staff alike. The four unique divisions of SEI oversee volunteer efforts of more than 100 committees in the areas of Codes and Standards, Local, Technical, and Business and Professional Activities. New programs—ideas from SEI committees and members—have been turned into actions to improve member experience, participation, and communication. New membership grades offer new recognitions; existing programs, such as Structures Congress and student competitions, continue to deliver benefits; and the SEI Futures Fund goal is to invest in the future! SEI achieved many successes in 2013 all with the help of and for the benefit of its members.

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SEI Director
25,232 members

4 SEI Graduate Student Chapters

132 continuing education webinars

16,000 members of SEI LinkedIn Group

124 SEI Fellows

4 O.H. Ammann Research Fellowships

31 SEI Chapters

More than 1,000 committee members

10 Young Professional Scholarships

15,000 average monthly page views at www.asce.org/SEI

28 SEI Standards
The SEI Board of Governors actively pursues these initiatives by championing efforts in each of these five strategic areas.

TheSEIBoardofGovernorsactivelypursuestheseinitiativesthroughchampioningeffortsin eachofthesefivestrategicareas.

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Advancing the Strategic Initiatives
The SEI Board of Governors is responsible for advancing its strategic initiatives to achieve its vision. In 2013, the Board accepted the “A Vision for the Future of Structural Engineering and Structural Engineers: A case for change” report, which outlines challenges facing future structural engineers, and approved further development of several of the report’s recommendations. Additionally, the Board maintains support of existing efforts to advance licensure—via the Structural Engineering Certification Board (SECB) and the Structural Engineering Licensure Coalition (SELC)—and structural code and standards development and coordination via the Structural Standards Coordination Council (SSCC).

Evolutions in membership
Many ideas turned into action yielded new programs in SEI membership. The 2013 creation of Graduate Student Chapters enables SEI to develop relationships with graduate students in order to provide support now and upon entry into the profession. The SEI Fellow program has grown to include 124 professionals in 2013 and the development of the new Sustaining Organization Membership program offers a new opportunity for any organization to support the mission, vision, and goals of SEI while increasing visibility and exposure within the structural engineering community.

Improved communication
SEI staff has taken action to provide members with enhanced experiences and avenues for improved communication in 2013. Via its Committee Leadership meeting during Structures Congress and through new online committee resources, SEI provides members with new and improved support for committee efforts. Collaboration with the ASCE Committee on Diversity produced an ASCE eLearning Webinar titled “Careers in Structural Engineering” engaging students in the profession and in SEI.
Investing in the future

SEI invests in the future of its members and in the Institute itself, as well as investing in the technical advancement of the profession. Engaging the next generation occurs in many ways: the SEI Young Professional Scholarship provides a pathway for future leaders to be connected to current ones at Structures Congress; in 2013 SEI awarded 10 scholarships to attend Structures Congress in Pittsburgh, with 10 more approved for 2014. The most evident investment has been the development of the SEI Futures Fund, which was established by SEI in 2013 as the successor to the SEI Endowment Fund. The purpose of the Fund, which is administered through the ASCE Foundation, is to invest in the future of our profession by funding a broad range of activities that advance the art, science and practice of structural engineering. The reaffirmation of SEI formal partnerships with the Council of American Structural Engineers (CASE) and with the Institution of Structural Engineers (IStructE), as well as the strengthened relationships with many other organizations, serves SEI members with programs and benefits. In a joint effort with the Coasts, Oceans, Ports, and Rivers Institute of ASCE (COPRI), SEI has approved a significant technical investment for next year to fund the development of tsunami design zone maps for the 2016 edition of the preeminent SEI standard, ASCE 7 Minimum Design Loads for Buildings and Other Structures.
2013 SEI ACTIVITIES & PROGRAMS

Networking, education and training on technical and business topics, and publications are at the core of activities and programs developed by members and staff to support the mission to advance and serve the profession.

Conferences
Structures Congress 2013 was held May 2-4 in Pittsburgh, with more than 1,000 participants. Attendees enjoyed a successful event with preconference seminars, 110 stimulating technical sessions in 11 tracks, engaging keynote speakers, a bustling Exhibit Hall with 45 booths, 8 sponsors, 78 committee meetings, and many valuable opportunities to network.

The SEI Local Leadership Conference was held September 11-12, in Dallas — co-located with the ASCE Texas Centennial Celebration — and included 27 SEI local group representatives along with SEI Board members. Participants enjoyed an update from SEI leaders, an exchange on best practices, leadership training, and a technical tour and presentation.

SEI members and volunteers work year-round on conferences to advance the profession; mark your calendar for these upcoming events:
- SEI Local Leadership Conference, October 24-25, 2014 in San Diego
- Electrical Transmission and Substation Structures Congress, September 27-October 1, 2015 in Branson, Missouri.

Continuing Education
The quality and selection of webinars has been improving through work of the SEI Administrative Committee on Continuing Education to develop
new instructors, webinars, and content. With the ASCE Continuing Education department, 132 SEI webinars were delivered in 2013. Also in a collaborative effort, SEI delivered three, one-day seminars educating Californians on ASCE 7-10 in advance of state adoption of the standard.

Local Activities
There were 11 new SEI Chapters started in 2013, four of them Graduate Student Chapters, bringing the total to 35 SEI Chapters. SEI local groups advance structural engineering by providing opportunities for networking, professional development and outreach locally.

Publications
Publications produced in 2013 include conference proceedings, post-disaster assessment team reports, practice manuals, standards, and journals such as Joplin, Missouri, Tornado of May 22, 2011; Tohoku, Japan, Earthquake and Tsunami of 2011: Performance of Structures under Tsunami Loads; as well as Tensile Fabric Structures: Design, Analysis; and Construction Structural Identification of Constructed Systems. SEI editors work hard for improvements to the journals, for example, The Journal of Structural Engineering has increased its impact factor to 1.206, decreased the turnaround time for submitted papers by 90 days, and has grown submissions by 40% in the past three years.

Student Opportunities
Many opportunities for students exist in SEI with two highlighted in 2013. The SEI Student Structural Design Competition has grown to include the three finalist teams presenting at Structures Congress for cash prizes. The winning teams judged on written and oral presentation were first place: Cal Poly State University; second place: Seattle University; and third place: Southern Illinois University Edwardsville. The O. H. Ammann Research Fellowship in Structural Engineering encourages creation of new knowledge in the field of structural design and construction. For the first time in 2013, multiple awards totaling $30,000 were given.
SEI MEMBERSHIP

There were 25,232 SEI members at the end of 2013 with the following characteristics:

**By discipline/market sector:**

- **Designer–Consultant engineer**: 52%
- **Faculty/Professor/Instructor**: 6%
- **Others in the industry**: 20%
- **Government**: 7%
- **Student**: 15%

**By geography:**

- **USA**: 87%
- **International**: 13%

**Men**: 92%

**Women**: 8%

**SEI CHAPTERS**: Austin, Boston, Central Pennsylvania, Cleveland, Colorado, Dallas, Delaware, East Central Florida, Ft. Worth, Georgia, Graduate Student Chapter at Lehigh University, Graduate Student Chapter at University of Texas Arlington, Graduate Student Chapter at Virginia Tech, Graduate Student Chapter at West Virginia University, Hawaii, Houston, Illinois, Illinois Valley, Kansas City, Lehigh Valley, Maryland, Minnesota, Mobile, Mohawk-Hudson, New Orleans, North Jersey, Orange County, Philadelphia, Pittsburgh, Quad Cities, Sacramento, St. Louis, Texas, Utah, West Coast Florida
FINANCIAL PERFORMANCE

The 2013 financial performance for SEI was strong. Increases in revenue enabled increases in programs and support to committees. Revenue increased with expenses for an essentially balanced year. Reserves remain strong.

SEI STAFF

Jennifer Goupil, P.E., SEI Director
Susan Reid, SEI Administrator
Suzanne Fisher, SEI Manager of Operations
Debbie Smith, SEI Senior Manager of Programs