



UC San Diego Structural Engineering Department Advisory Board

Department Vision

Our faculty and students aspire to be internationally renowned leaders in analyzing, designing, simulating, visualizing, optimizing, monitoring and assessing the behavior and environmental interactions of structures and structural materials from a holistic perspective, including those used in civil, geotechnical, aerospace, naval, marine, energy, and biological applications.

Department Mission

To advance the structural engineering profession through research, teaching and service by integrating engineering mechanics theories, computational modeling simulations, experimental testing observations, and practical design concepts.

Board Mission

To provide advice and feedback to the Department, to enhance the professional and educational value of the Department, build relationships, and generate support for the Department's students and faculty.

Board Goals/Objectives

- Help identify pressing research needs and opportunities.
- Build bridges between the Department and the local/regional/national communities.
- Support student recruiting for jobs and internships.
- Share expertise with undergraduate and graduate students through classroom visits, field trips, seminars, and networking opportunities.
- Provide advice and feedback on undergraduate and graduate learning objectives, curriculum, and course content.
- Strategically develop the membership of the Board.
- Assist the Department in fundraising for scholarships, faculty development, and laboratory support.

Board Structure

The number of board members will vary between 15-20 members and should represent a cross-section of professionals in the different disciplines in the Department (Civil Structures, Geotechnical Engineering, Computational Mechanics, Aerospace Structures and Structural Health Monitoring). The board will include alumni of the department, leaders of firms or agencies, 1-2 faculty members, and the Department Chair. The chair of the industrial advisory board will be a member from outside the department, selected by the Department Chair. Board members should show a willingness and ability to work actively on the Department's behalf.

If a member of the board is unable to attend a meeting, they can nominate an alternate from their firm to attend that meeting. Board members will serve on rotating 3-year terms with options for renewal at the discretion of the Board and a maximum of two terms. Board members will consider nominations for new Board members from the faculty and current members. Subcommittees may be developed for specific tasks and needs as identified by the board (Development, programs, scholarships, etc.).

Meetings

The Industrial Advisory Board will meet at UCSD at least once per year or as called by the board chair, with call-in options available. Meetings will be approximately two hours, typically held on a Friday afternoon or Saturday morning unless otherwise decided.

Participation

Board members may participate in the following ways:

- Provide feedback to the Department faculty on how research and curricula are best addressing the needs and expectations of the engineering community.
- Provide feedback to the Department faculty on opportunities and challenges facing practitioners.
- Partner with faculty to provide guest speakers for courses or workshops.
- Connect Department students with internships and career opportunities
- Provide financial resources and opportunities for faculty and student development, including attendance to seminars, conferences, and educational events.
- Provide financial resources to maintain and improve the Department undergraduate laboratories and research laboratory facilities.

Benefits of Board Participation

- Chance to give back to the department to provide for excellence in education.
- Opportunity to shape or influence future engineers.
- Access to faculty research expertise.
- Access to interns.
- Engagement in campus and educational activities.

**Department of Structural Engineering
2018-2019 Department Advisory Board**

Chair:

- Kosal Krishnan (SE PhD '93)
 - Affiliation: Division Vice President, Southern California Operations Manager | Buildings & Infrastructure, Americas, Jacobs Engineering, Orange County
 - Email: Kosal.Krishnan@jacobs.com
 - Primary area: Civil Structures
 - Invited: 2018, confirmed

Members:

- Matthew Tobolski
 - Affiliation: President and Co-founder, BASX Solutions
 - Email: mtobolski@basxsolutions.com
 - Primary area: HVAC structural design
 - Invited: 2017, confirmed
- Joe Vettel
 - Affiliation: CEO / President, Geocon, Inc.
 - Email: vettel@geoconinc.com
 - Primary area: Geotechnical Engineering
 - Invited: 2017, confirmed
- S.K. Ghosh
 - Affiliation: S.K. Ghosh Associates Inc.
 - Email: skghoshinc@gmail.com
 - Primary Area: Civil Structures
 - Invited: 2017, confirmed
- Justine Johannes, Ph.D.
 - Affiliation: Director, Stockpile and Weapon Product Realization Center, Sandia Nat'l Lab
 - Email: jejohan@sandia.gov
 - Primary area: Computational mechanics, materials
 - Invited: 2017, confirmed

- Edward Kavazanjian, Ph.D., P.E., NAE
 - Affiliation: Regents' Professor, Arizona State University
 - Email: Edward.Kavazanjian@asu.edu
 - Primary area: Geotechnical engineering
 - Invited: 2017, confirmed
- Robert Englekirk, Honorary Member
 - Affiliation: Englekirk Structural Engineers
 - Email: robertenglekirk@gmail.com
 - Primary area: Civil Structures
 - Invited: 2017, confirmed
- Vijay Pujar
 - Affiliation: Fellow, United Technologies Corporation Aerospace Systems
 - Email: Vijay.Pujar@utas.utc.com
 - Primary area: Aerospace structures
 - Invited: 2017, confirmed
- Steven Ehlers
 - Affiliation: Senior Director, Advanced Aircraft Engineering, General Atomics
 - Email: Steven.Ehlers@ga-asi.com
 - Primary area: Aerospace structures
 - Invited: 2017, confirmed
- Doug Grose (SE '89)
 - Affiliation: Loads and Dynamics, New Glenn System Architecture, Blue Origin, Seattle
 - Email: dgrose@blueorigin.com
 - Primary area: Aerospace structures
 - Invited: 2018, confirmed
- Dr. James Gingery (SE PhD '14)
 - Affiliation: Chief Engineer, Hayward Baker, San Francisco
 - Email: james.gingery@haywardbaker.com
 - Primary area: Geotechnical construction
 - Invited: 2018, confirmed
- Richard Chen, M.S., P.E. (SE '00, MS SE '01)
 - Affiliation: Principal, Miyamoto International, Los Angeles
 - Email: rchen@miyamotointernational.com
 - Primary area: Civil Structures/Earthquake Engineering
 - Invited: 2018, confirmed

- Kevin Napolitano (SE '89)
 - Affiliation: ATA Engineering, San Diego
 - Email: kevin.napolitano@ata-e.com
 - Primary area: Aerospace structures
 - Invited: 2018, confirmed
- Matthew D. Smith (SE PhD '13)
 - Affiliation: Lead - SHM CW R&D, Research Civil Engineer, Engineer Research and Development Center, U.S. Army Corps of Engineers, Vicksburg, MI
 - Email: matthew.d.smith@usace.army.mil
 - Primary area: Geotechnical construction
 - Invited: 2018, confirmed
- Dr. Elide Pantoli, Ph.D. (SE PhD '16)
 - Affiliation: Associate III, Wiss, Janney, Elstner Associates, San Francisco
 - Email: epantoli@wje.com
 - Primary area: Civil Structures
 - Invited: 2018, confirmed
- Joshua Rivera
 - Affiliation: 43350 Airframe Technology Branch Head, NAVAIR
 - Email: joshua.a.rivera@navy.mil
 - Primary area: Naval Structures
 - Invited: 2018, Confirmed
- Dr. Howard Matt (SE MS '04, SE PhD '07)
 - Affiliation: Director of Business Development, ATA Engineering, San Diego
 - Email: howard.matt@ata-e.com
 - Primary area: Aerospace structures, aerospace structural testing
 - Invited: 2018, confirmed
- Benjamin Soule
 - Affiliation: Technical Officer, SYSTRA - International Bridge Technologies
 - Email: bsoule@systra.com
 - Primary area: Civil structures
 - Invited: 2018, confirmed
- Derrick Watkins
 - Affiliation: Executive Advisor at Structural Integrity Associates
 - Email: dwatkins@structint.com
 - Primary area: Civil structures
 - Invited: 2018, confirmed

- Larry McMichael
 - Affiliation: Group Leader, Structural & Applied Mechanics Group, Computational Engineering Division, LLNL
 - Email: ldmcmichael@llnl.gov
 - Primary area: Explosive detection, computational mechanics, foundation engineering
 - Invited: 2018, confirmed
- Kendra Oliver (SE BS '03, SE MS '05)
 - Affiliation: Senior Engineer, Petroleum Structures at California State Lands Commission
 - Email: kendra.oliver@slc.ca.gov
 - Primary area: Maritime Structures
 - Invited: 2018, confirmed